

Odam Anatomiyasi

ATLAS

Splanxnologiya va yurak qon-tomir tizimi

Sh.J. Teshayev, E.A. Xaribova
Rossiya Fanlar Akademiyasi
akademigi L.L.Kolesnikov tahriri ostida



2
TOM

«BiTuBi Grupp» nashriyoti
Toshkent - 2020

BIRINCHI MARTA TO'RTTA TILDA

• O'zbek • Lotin • Rus • Ingliz



Kolesnikov Lev Lvovich

Rossiya Federatsiyasida xizmat ko'rsatgan fan arbobi, Rossiya Fanlar Akademiyasi akademigi, tibbiyot fanlari doktori, professor.

400 dan ortiq chop etilgan ilmiy ishlar muallifi (monografiyalar, darsliklar, atlas va o'quv qo'llanmalar).

va YURAK QON-TOMIR TIZIMI

SH TIZIMI

II

IMI

A'ZOLARI TIZIMI

ZOLARI TIZIMI

TIZIMI

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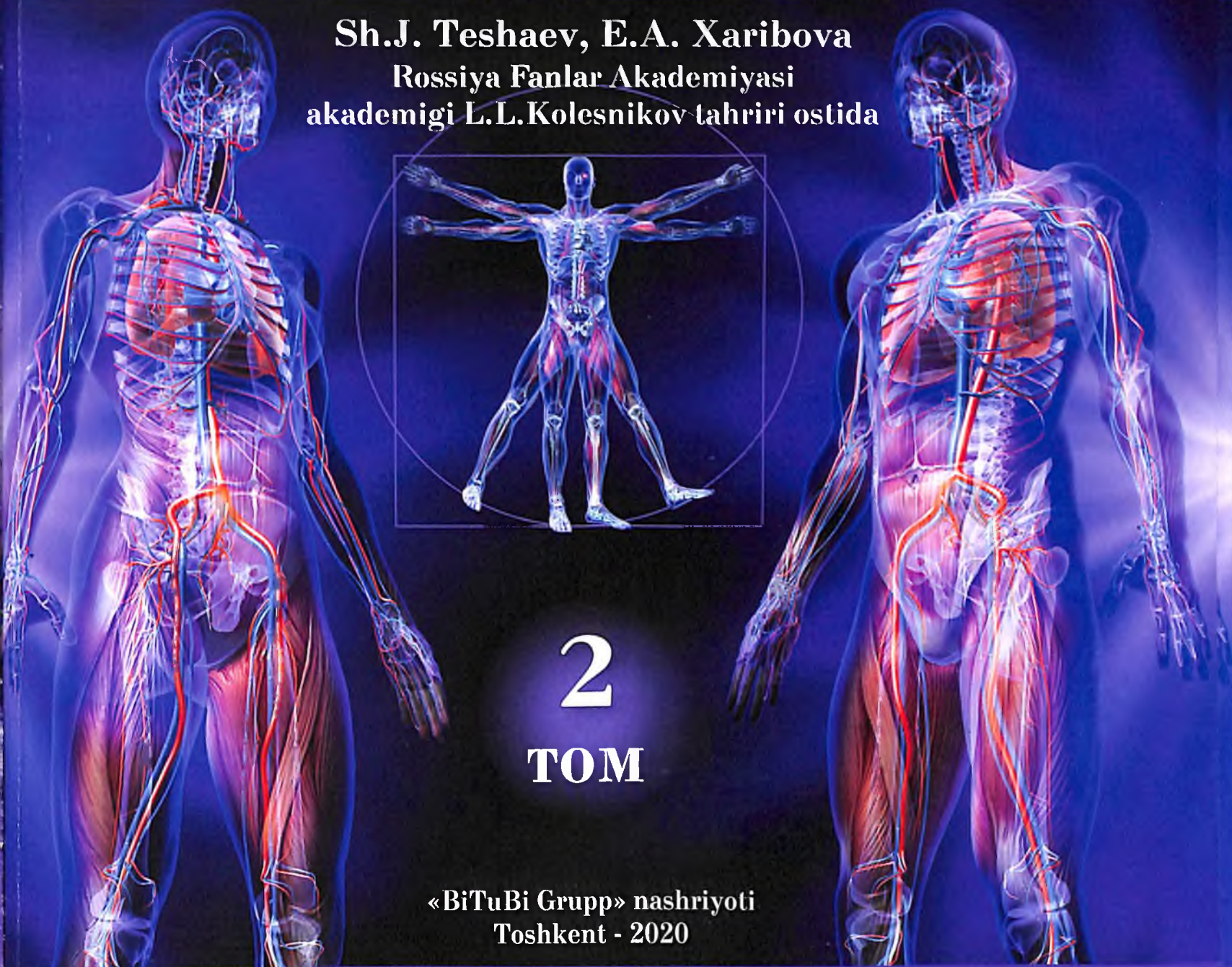
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• O'zbek • Lotin • Rus • Ingliz

Анатомия человека

АТЛАС

Спланхнология и сердечно-сосудистая система

Ш.Ж. Тешаев, Е.А. Харибова

Под редакцией
академика РАН Л.Л. Колесникова



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ТОМ

Издательство «BiTuBi Grupp»
Ташкент - 2020

В ТРЁХ ТОМАХ

Рекомендовано для студентов учреждений высшего медицинского профессионального образования, обучающихся по специальности «Лечебное дело», «Педиатрия», «Стоматология» «Медицинская педагогика», «Медицинская биология» и «Медико-профилактическое дело» по дисциплине «Анатомия»

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TOM

«BiTuBi Grupp» nashriyoti
Toshkent - 2020

UCHTA TOMDA

Tibbiyot oliy ta'lim muassasalarining «Davolash ishi», «Pediatriya», «Stomatologiya», «Tibbiy pedagogika»,
«Tibbiy biologiya» va «Tibbiy profilaktika» yo'nalishlarida tahsil olayotgan talabalarga «Anatomiya»
fani bo'yicha tavsiya etiladi

UDK 611(084.121)(07)
BBK 28.706ya61
A 64

Tuzuvchi mualliflar:
Sh.J.Teshaev, E.A.Xaribova

Tahririyat guruhi:
Teshaev Shuxrat Jumayevich
Xaribova Elena Aleksandrovna
Kolesnikov Lev Lvovich
Inoyatov Amrillo Shodiyevich

Matnni ilmiy tahrirdan o'tkazgan va o'zbek tilidagi anatomik atamalarni to'g'ri tanlashni amalga oshirganlar:
Rajabov Axtam Boltayevich, Baymyradov Ravshan Radjabovich, Xasanova Dilnoza Axrorovna, Hojiyev Dilmurod Yaxshiyevich, Temirova Nazokat Rustamovna, Kamalova Shaxnoza Muzaffarovna, Tuxsanova Nasiba Esanovna, Tastanova Gulchexra Eshtayevna, Sultonov Gafurjon Nematbekovich.
Rossiya Fanlar Akademiyasi akademigi L.L.Kolesnikov tahriri ostida

Taqrizchilar:
t.f.d., professor N.H. Shamirzayev
t.f.d., professor I.V. Gayvorovskiy
t.f.d., professor R.J. Usmonov
Klinik taqrizchi: D.S. To'xtasinova

A64 Odam anatomiyasi: 3 tomli atlas. 2 T. Splanxnologiya va yurak qon-tomir tizimi / tuzuvchi mualliflar Sh.J.Teshaev, E.A.Xaribova. – T.: «BiTuBi Grupp» nashriyoti, 2020. – 672 b.: rasm.

Odam anatomiyasi – fundamental tibbiy – biologik fan bo'lib, inson tanasidagi a'zolar tizimini yaxlit va har bir a'zoni alohida o'rganadi, ularni vazifasiga bog'liq ravishda rivojlanish qonuniyatlarini tadqiq qiladi.

Ushbu atlas – darslik esa anatomiya fanini o'qitishdagi barcha yangiliklarni qamrab olib, o'qitishni yangi bosqichga olib chiqadi.

Yaratilgan ushbu atlas A.I.Yevdokimov nomidagi Moskva davlat tibbiyot – stomatologiya universiteti va Abu Ali ibn Sino nomidagi Buxoro davlat tibbiyot instituti professor – o'qituvchilarining hamkorlikdagi birinchi ishlari hisoblanadi.

Atlas – darslik nafaqat tibbiyot oliy ta'lim muassasalari talabalari, magistrlar va klinik ordinatorlar uchun, balki tibbiy faoliyat bilan shug'ullanayotgan barcha xodimlar uchun ham foydadan xoli emas.

Atlas tibbiyot oliy ta'lim muassasalari bakalavriat yo'nalishlari va magistratura mutaxassisliklarida anatomiya fani dasturlari va o'quv rejalariga mos holda tuzilgan.

Atlas – darslik 3 tomдан iborat bo'lib, anatomik atamalarning nomlari 4 ta tilda (lotin, o'zbek, rus, ingliz) berilgan. Darslikda 1500 dan ortiq yuqori sifatga ega rasmlar, jadvallar va rentgenogrammalar keltirilgan bo'lib, o'quvchi uchun yangi imkoniyatlar eshigini ochib beradi. Rasmlarni tavsiflovchi yozuvlar, atamalar rangli shriftda berilgan, rasmlar ostida esa atamalarning ingliz tilidagi tarjimasi keltirilgan. Rus, ingliz va lotin tilidagi anatomik terminlar 2003 yildagi «Xalqaro Anatomik terminlar tasnifi» ga asoslanib tayorlandi, o'zbek tilidagi anatomik terminlar esa 2007 yildagi professor F.N. Baxadirov tahriri ostida chiqarilgan «Xalqaro Anatomik terminologiya» ga asoslangan.

Bunday 4 tildagi atlas – darslik nafaqat o'zbek tilida tahsil olayotgan talabalar uchun, balkim rus va ingliz tillarida odam anatomiyasini o'rganmoqchi bo'lganlar uchun ham asosiy qo'llanma sifatida foydalanish mumkin.

Ikkinchi tomda ichki a'zolar (hazm, nafas, ayiruv, tanosil va endokrin tizimlari) hamda yurak - qon tomir va limfa tizimlari to'g'risida to'liq ma'lumotlar keltirilgan.

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Mazkur darslik huquqi «BiTuBi Grupp» OAJ ga tegishli. «BiTuBi Grupp» OAJ yozma ruxsatisiz darslikni har qanday shaklda chop etish va tarqatish mumkin emas.

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Atlas mualliflari va «BiTuBi Grupp» nashriyoti xodimlari Rossiya Fanlar Akademiyasi akademigi, professor Lev Lvovich Kolesnikovga [Rossiya Sog'liqni saqlash vazirligi huzuridagi A.I.Yevdokimov nomidagi Moskva davlat tibbiyot-stomatologiya universiteti Odam anatomiyasi kafedrasini mudiri] shaxsiy arxivdagi suratlardan foydalanishga ruxsat bergani uchun minnatdorchilik bildiradi.

Светлой памяти наших учителей и наставников

Льва Львовича Колесникова и

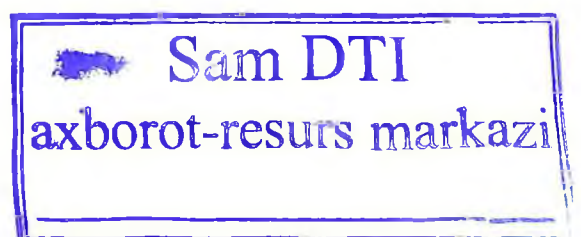
Сергея Александровича Тена

Bizning ustozlarimiz

Lev Lvovich Kolesnikov va

Sergey Aleksandrovich Ten

larning yorqin xotiralariga bag`ishlanadi



БЛАГОДАРНОСТИ

Вместо эпитафии. Один мудрец сказал:
«Многому я научился у своих наставников,
ещё большему — у своих товарищей,
но больше всего — у своих учеников».

Эта книга посвящена нашим Учителям и Наставникам. Тягу Львовичу Колесникову и Сергею Александровичу Тену, вдохновившим нас на её создание. Своим личным примером они задали нам высочайшие стандарты качества работы, которыми мы ежедневно руководствуемся в нашей академической деятельности. Только благодаря их вере в наши силы нам удалось осуществить свой творческий замысел, для реализации которого мы воспользовались накопленными ими уникальными знаниями и богатейшим опытом, являющимися для нас эталоном безукоризненного профессионализма, которые они заботливо и бережно передали нам в предварительно обобщённом и систематизированном виде.

Считаю приятным долгом выразить искреннюю и глубокую благодарность моему коллеге и соавтору Шухрату Жумаевичу Тешаеву, без неравнодушного участия которого этого грандиозного международного проекта вовсе бы не было. Именно ему принадлежит идея создания столь востребованного в Узбекистане учебника-атласа. Я безгранично признательна Шухрату Жумаевичу за огромную организационную и методическую работу, которую он провёл, за многие часы напряжённого и кропотливого труда, вложенного им в воплощение нашей задумки.

Я счастлива и благодарна судьбе, моему научному руководителю и гостеприимному городу Бухара за то, что в далёком 2008 году на IX Международном конгрессе Ассоциации морфологов, проходившем в Республике Узбекистан, я получила возможность познакомиться с моими коллегами из Бухарского государственного медицинского института им. Абду Али ибн Сины, что, в свою очередь, послужило основой для дальнейшего плодотворного профессионального сотрудничества, результатом которого стала работа над этим изданием. Совместная реализация этого проекта подарила мне не просто верных соратников, а, что гораздо более важно, настоящих надёжных друзей и единомышленников. Именно поэтому мне хочется сказать огромное человеческое спасибо всем сотрудникам кафедры анатомии и клинической анатомии (ОХТА) Бухарского государственного медицинского института, осуществлявшим научное редактирование текста и подбор эквивалентных анатомических терминов на узбекском языке, и персонально поблагодарить ректора Амрилло Шодиевича Иноятова за проявленный интерес, личное участие и оказание необходимой административной поддержки, что, несомненно, воодушевило всех участников рабочей группы на скорейшее достижение поставленной цели. От всего сердца благодарю моих коллег Ахтама Болтаевича Раджабова, Равшана Раджабовича Баймурадова, Дилнозу Ахроровну Хасанову, Дилмурода Яхшиевича Хожиева, Назокат Рустамовну Темирову, Шахнозу Музаффаровну Камолову и Насибу Эсановну Тухсанову за то, что они были столь доброжелательны и отзывчивы в процессе совместной работы, проявляли внимание к мелочам, прислушиваясь к мнению авторов-составителей. Мне по-настоящему понравился весь процесс: было удовольствием работать с вами на протяжении этих и, надеюсь, ещё многих лет.

Нижайший поклон и отдельное спасибо моей маме — доктору Людмиле Николаевне Харибовой за всю её любовь и поддержку, а также любимому и самому лучшему на свете дедушке — Николаю Дмитриевичу Поландову, ставшему моим первым учителем и наставником, воспитавшему во мне человека, верящего в то, что «нет ничего невозможного», моей замечательной доченьке Алисочке за то, что она позволяла мне провести так много времени в работе над этим проектом, а также семьям всех членов нашей команды, поддерживавшим нас в этих начинаниях. Хочу выразить свою глубочайшую признательность родным и близким Л.Л. Колесникова: супруге — Валентине Михайловне Воробьёвой и дочери — Наталье Львовне Колесниковой за искреннюю поддержку и выраженное одобрение нашей работы.

Кроме того, я хотела бы поблагодарить профессиональных рецензентов: профессоров Н.Х. Шамирзаева, Н.В. Гайворонского, З.Ж. Хасмонова и Д.С. Тухташинову за их комментарии и ценные советы.

Я также благодарю всех высококвалифицированных специалистов издательства «BiTiBi Group» и людей, которые помогали им в подготовке этого издания, осуществляли набор и проверку рукописи, корректурам, редакторам и верстальщикам, вносявшим в неё необходимые правки на каждом из трёх подготовительных этапов.

Е.А. Харибова

MINNATDORCHILIK

Epigraf o'rnida
"Biz uchun aziz va sevimli bo'lgan
insonlarning xotirasi ular yozgan
asarlarda umrbod yashaydi".

Ushbu kitob, eng avvalo, uni yaratishga bizni ilhomlantirgan ustozlarimiz Sergey Aleksandrovich Ten va Lev Lvovich Kolesnikov larning yorqin xotiralariga bag'ishlanadi. Ular bosib o'tgan hayot yo'li, qoldirgan ilmiy meroslari, kasbiy va pedagogik mahorat, ulkan amaliy tajriba bizning mana shunday yuqori darajada ishlashimiz uchun asosiy tamal toshi bo'ldi.

Ushbu Xalqaro loyiha dunyo yuzini ko'rishiga asosiy sababchilardan biri – hamkasbim va hammuallif hisoblanmish Elena Aleksandrovna Xaribovaga chuqur minnatdorchilik izhor etishni o'zining burchim deb bilaman. Bizning yurtimizdagi tibbiyot institutlari uchun juda muhim sanalgan ushbu darslik-atlasning yaratilishidagi ulkan mashaqqat, katta ko'lamdagi mehnat, bajarilgan tashkiliy va uslubiy ishlar uchun Elena Aleksandrovnadan juda ham minnatdorman.

Tibbiyot asoschilaridan biri bo'lmish Abu Ali ibn Sino vatanida joylashgan va shu buyuk insonning nomi bilan ataluvchi Buxoro davlat tibbiyot instituti rektori Anrillo Shodiyevich Inoyatovga o'z minnatdorchiligini bildiraman. Shuningdek, o'zbek anatomik terminlarni chuqur tahlil qilib, ularni darslik – atlasning ajralmas qismiga aylantirgan, har bir masalada diqqat va e'tibor bilan ishlagan Anatomiya va klinik anatomiya (OXTA) kafedrasi xodimlariga: Axtam Boltaevich Radjabov, Ravshan Radjabovich Baymuradov, Dilnoza Axrorovna Xasanova, Dilmurod Yaxshievich Hojiev, Nazokat Rustamovna Temirova, Shaxnoza Muzaffarovna Kamalova, Nasiba Esanovna Tuxsanova, Nabi Latipovich Bobomurodov, Nigora Hamrayevna Asadova, Mohinur Izzatilloevna Ismatova, Nigina Baxshillayevna Rustamova, Sadoqat Yuldashevna Saidovaga alohida minnatdorchilik izhor etaman. Bundan tashqari 2019 yilda davolash ishi, pediatriya va tibbiy pedagogika fakultetlari 2-3 kurslarida tahsil olgan bir guruh talabalarga texnik tomondan yordamlashganliklari uchun rahmat aytaman.

Mening har bir boshlagan ishimi o'zining oq fotihasi bilan qo'llab quvvatlagan, shu darajaga erishishida asosiy suvanchig'im bo'lgan validai muhtaramam – Adolat Rahmonovna Jo'rayevaga, rahmatli dadajonim – Juma Tessaevich Tessaevga, sevimli oila a'zolarimga, ayniqsa umr yo'ldoshim Zamira Zarifovna Hamdamovaga alohida ehtiromimni izhor etaman. Shuningdek, darslik-atlas ustida ishlagan har bir xodimning oila a'zolariga sabr – idroklari uchun rahmat aytaman.

L.L.Kolesnikovning oila a'zolari: umr yo'ldoshi – Valentina Mixaylovna Vorobyova va qizi – Natalya Lvovna Kolesnikovaga bizning ushbu loyihamizni chin dildan qo'llab quvvatlaganliklari uchun chuqur minnatdorchilik bildiraman.

Atlas – darslikni tayyorlashda maslahatchi-taqrizchi sifatida ishtirok etgan va ijobiy fikrlarini bildirib, qo'llab quvvatlagan professorlar: N. H. Shamirzayev, I.V. Gayvarovskiy, R.J. Usmonov, D.S. To'xtasinovalarga mualliflar guruhi nomidan minnatdorchilik izhor qilaman.

Men, shuningdek, «BiTuBi Grupp» nashriyotining yuqori malakali mutaxassislari, jumladan barcha kompyuterda tayyorlovchilar, muharrirlar, badiiy va texnik muharrirlarga ushbu kitobni tayyorlashning barcha bosqichlarida qo'shgan hissalarini uchun minnatdorchilik bildiraman.

SH.J. Tessaev



AKADEMIK KOLESNIKOV LEV LVOVICH

Rossiya Federatsiyasida xizmat ko'rsatgan ilmiy xodim, Rossiya Fanlar Akademiyasi akademigi, Rossiya Fanlar Akademiyasi eksperti, tibbiyot fanlari doktori, professor, Umumrossiya anatomlar, gistologlar va embriologlar ilmiy jamiyati prezidenti, A.I.Yevdokimov nomidagi Moskva davlat tibbiyot-stomatologiya universiteti Odam anatomiyasi kafedrası mudiri. 400 dan ortiq ilmiy ishlar (monografiyalar, darsliklar, atlaslar, qo'llanmalar) muallifi.

SO'Z BOSHI

Kitobxonga havola etilayotgan ushbu atlas – darslik Rossiya Federatsiyasidagi A.I. Yevdokimov nomidagi Moskva davlat tibbiyot stomatologiya universiteti va O'zbekiston Respublikasi Abu Ali ibn Sino nomidagi Buxoro davlat tibbiyot instituti professor – o'qituvchilarining hamkorlikda yaratgan birinchi kitobi hisoblanadi.

Atlas 3 ta tomdan iborat bo'lib, tibbiyot oliy ta'lim muassasalari bakalavriyat yo'nalishlari va magistratura mutaxassisliklarida anatomiya fani dasturlari va o'quv rejalariga mos holda yaratilgan.

Atlasning birinchi tomida odam anatomiyasining osteologiya, artrosindesmologiya, miologiya bo'limlari keltirilgan. Osteologiya bo'limida har bir suyak bir necha xil ko'rinishda aks ettirilgan bo'lib, uning rentgenoanatomiyasi oldingi – orqa va yon proyeksiyada ko'rsatilgan.

Atlasning ikkinchi tomi splanxnologiya (hazm a'zolari, nafas, ayirish tizimi, erkaklar va ayollar jinsiy a'zolari tizimi), endokrinologiya va angiologiya (yurak- qon tomir va limfa) tizimlarini o'z ichiga olgan. Bu tomida har bir a'zo bo'yicha bir necha rangli rasmlar keltirilgan bo'lib, ularni o'rganishda o'ziga xos qulaylik yaratadi. Ushbu tomida 40 ta jadval keltirilgan bo'lib, har bir jadval ichidagi ma'lumotlar yordamida talaba tomonidan o'rganilgan mavzu mustahkamlanadi. Angiologiya bo'limi bo'yicha keltirilgan jadvalda har bir arteriyaning nomi, uning tarmoqlari, boshlanish joyi, arteriya yo'nalishi, qon bilan ta'minlanadigan sohasi batafsil ko'rsatib berilgan.

Ushbu adabiyotning uchinchi tomi nevrologiya va esteziologiya bo'limlarini o'z ichiga olgan. Bu tomida markaziy, pereferik va vegetativ nerv sistemasi rangli illyustratsiyalar asosida yoritilgan. Harakat va sezgi o'tkazuv yo'llari rangli sxemalarda berilgan bo'lib, talaba uchun o'zlashtirish jarayonini osonlashtiradi. Ko'rish, eshitish va vestibulyar analizatorlarning o'tkazuv yo'llari bir necha xil ko'rinishdagi sxemalarda namoyon etilgan.

Har bir bo'limni yakunlovchi qismida zamonaviy tibbiy diagnostik tekshiruv usullari orqali olingan rasmlar: rentgenoanatomiya, ultratovushli tadqiqot usuli, flebogramma, exokardiogramma, magnit - rezonans tomogramma orqali olingan rasmlar keltirilgan bo'lib, bu anatomiya fanini klinik tibbiyot bilan bog'liqligini yanada yaqqol ko'rsatib bergan.

Atlasda o'zbek va lotin tilidan tashqari rus va ingliz tillarda anatomik terminlarning keltirilishi O'zbekistonda tahsil olayotgan xorijlik talabalar va xorijda tahsil olayotgan O'zbekistonlik talabalar uchun anatomiya fanini o'zlashtirishga yordam beradi.

Rossiya va O'zbekiston olimlari tomonidan yaratilgan ushbu atlas birinchi qaldirg'och bo'lib, ayrim kamchiliklardan xoli bo'lmasligi mumkin. Ushbu kamchiliklar uchun oldindan uzr so'ragan holda o'quvchilar tomonidan bildiriladigan har qanday tanqidiy fikr va takliflar uchun oldindan o'z minnatdorchiligimizni bildiramiz.

USHBU KITOB HAQIDA

Tuzuvchi-mualliflardan



TESHAEV
Shuxrat
Jumayevich

Abu Ali ibn Sino nomidagi Buxoro davlat tibbiyot instituti rektori, tibbiyot fanlari doktori, Anatomiya, klinik anatomiya (OXTA) kafedrası professori.



XARIBOVA
Elena
Aleksandrovna

tibbiyot fanlari nomzodi, A.I.Yevdokimov nomidagi Moskva davlat tibbiyot-stomatologiya universiteti Odam anatomiyasi kafedrası dotsenti.

O'zbekiston tibbiy hamjamiyati e'tiboriga birinchi marta to'rtta tilda chop etilayotgan "Odam anatomiyasi" darslik – atlasini havola etish biz uchun katta sharafl sanaladi.

XXI asr – intellektual rivojlanish asri bo'lib, har qaysi sohada bo'lgani singari, tibbiyotda ham har kuni yangi kashfiyotlar amalga oshirilmoqda, kecha tasavvur etib bo'lmaydigan narsalar, bugun hayotimizning ajralmas qismiga aylanib bormoqda.

Tibbiyot xodimlarini har tomonlama yetuk va bilimli qilib tarbiyalash – malakali ta'lim tizimiga bog'liq. Aynan shuning uchun, tibbiyotning asosi bo'lmish anatomiya fanini o'qitishga katta e'tibor qaratilgan.

Odam anatomiyasi – fundamental tibbiy – biologik fan bo'lib, inson tanasidagi a'zolar tizimini yaxlit va har bir a'zoni alohida o'rganadi, ularni vazifasiga bog'liq ravishda rivojlanish qonuniyatlarini tadqiq qiladi. Tibbiyotning rivojlanishi davomida uning asosini tashkil qiluvchi fanlar o'zgarmagan, lekin yangi klinik ma'lumotlarning olinishi, mavjud anatomik terminologiyaning takomillashuvi o'quv ma'lumotlarini bayon etishning an'anaviy shakllarini to'ldirilishini, o'quv qo'llanmalarga o'zgartirishlar kiritilishini, rasm va tasvirlarning qayta ko'rib chiqilishini, o'qitish uslublarining o'zgartirilishini taqozo qiladi. Bularning barchasi o'quv – uslubiy adabiyotlarni takomillashtirish kerakligidan darak beradi.

2018 yilning 18-19 oktyabr kunlari Toshkent shahrida bo'lib o'tgan birinchi "Rossiya – O'zbekiston ta'lim forumi" da ikki mamlakat yetakchi oliy o'quv yurtlari hamkorligida qo'shma fakultetlar ochish, qo'shma dasturlar asosida o'qitish, professor – o'qituvchilar malakasini oshirish, qo'shma ilmiy tadqiqotlar o'tkazish, qo'shma o'quv va ilmiy adabiyotlar yaratish masalalari ko'rib chiqildi.

Fan va ta'lim doirasida xalqaro hamkorlik qilish maqsadida Rossiya Federatsiyasining A.I.Yevdokimov nomidagi Moskva davlat tibbiyot stomatologiya universiteti va Abu Ali ibn Sino nomidagi Buxoro davlat tibbiyot instituti o'rtasida 2017 yil 19 maydagi №17 sonli (2-b band) (o'quv va o'quv-metodik qo'llanmalar yaratish, hamkorlikda monografiyalar tayyorlash, ilmiy tekshirish ishlarida hamkorlik qilish va maqolalar chop etish) memorandumga asosan "Odam anatomiyasi" atlas-darsligini o'zbek, rus, ingliz va lotin tillarida yaratishga kelishib olindi va ishchi guruh shakllantirildi.

Ushbu taqdim etilayotgan atlas A.I.Yevdokimov nomidagi Moskva davlat tibbiyot stomatologiya universiteti "Odam morfologiyasi" va Abu Ali ibn Sino nomidagi Buxoro davlat tibbiyot instituti "Anatomiya, klinik anatomiya (OXTA)" kafedrası professor – o'qituvchilarining hamkorlikda yaratgan birinchi kitobi hisoblanadi.

Ushbu atlas barcha zamonaviy talablar asosida tayyorlangan bo'lib, inson tanasining tizimlashtirilgan anatomiyasi bo'yicha keng ko'lamdagi ma'lumotlarni o'z ichiga oladi. Atlas tibbiyot oliy ta'lim muassasalari bakalavriat yo'nalishlari va magistratura mutaxassisliklarida odam anatomiyasi fani dasturlari va o'quv rejalariga mos holda tuzilgan. Anatomik tushunchalarni yoritishda eng zamonaviy

usullardan foydalanilgan. Bundan tashqari ushbu kitobning chop etilishi morfologiya yo'nalishi uchun katta voqelikka aylanadi, chunki boshqa o'xshash atlaslar bilan taqqoslaganda ushbu adabiyot o'zlashtirishi qiyin bo'lgan anatomik terminlar va topografoanatomik sohalarni o'rganishni osonlashtiruvchi maxsus uslubda tayyorlangan. Anatomik atamalar nomini joylashtirilishida yirik hajmli va kam ma'lumotli rasm osti yozuvlari o'rniga atamalar nomi bevosita rasmining o'ziga uch tilda – o'zbek, lotin va rus tillarida joylashtirilgan. O'zbek tilidagi yozuvlar ko'k rang bilan ajratib qo'yilgan. Sahifalarning pastki qismida xuddi shu atamalar ingliz tilida ham berilgan, bu esa o'z navbatida atlasning chet el talabalari yoki chet elda tahsil olayotgan o'zbek va rus tilida so'zlashuvchi talabalarga foydalanishga qulaylik yaratadi. Kitobda ma'lumotlarni chuqurroq o'zlashtirish uchun jadvallar ham taqdim etilgan.

Bugungi kunda klinik amaliyot har bir a'zo va sohani qavatma – qavat kesmalarda o'rganishni talab qiladi. Shuning uchun biz rasm va tasvirlar xilma-xilligini kengaytirdik: odatiy sathlar bo'yicha ko'rsatilgan rasmlardan tashqari, voskli mulyajlarning rangli suratlaridan foydalandik. Bu esa uch o'lchamli tasvirda anatomik ma'lumotlar ko'lamini yanada oshirdi. Atlasda tabiiy ho'l preparatlardan olingan rasmlar ham talaygina. Shuningdek kitobda zamonaviy tekshirish usullari, ya'ni rentgenografiya, kompyuter va magnit-rezonansli tomografiya, exografiya, ultratovush tekshirishi orqali olingan suratlar ham keltirilgan bo'lib, anatomiya va nur tashxisotining o'zaro bog'liqligi yana bir bor isbotlaydi.

Mazkur adabiyot bir vaqtning o'zida ham darslik, ham atlas hisoblanib, 3 tomdan tashkil topgan bo'lib, 3 semestr davomida anatomiya fani o'qitiladigan hollarda har bir semestrda o'qitiladigan ma'lumotlar alohida tomda ajratilinganligi juda qulay hisoblanadi.

Muallif – tuzuvchilar "Odam anatomiyasi" fanini o'qitish shakli va uslubiyotini saqlashga harakat qildilar. Atlasning birinchi tomda odam tanasining umumiy tuzilishi va tayanch – harakat tizimi (osteologiya, artrosindesmologiya, miologiya) haqida ma'lumotlar keltirilgan. Ikkinchi tom splanxnologiyaga (hazm a'zolari, nafas, ayirish tizimi, erkaklar va ayollar jinsiy a'zolari tizimi, endokrin va limfa tizimlari) va yurak – qon tomir tizimiga bag'ishlangan. Uchinchi tomda asab tizimi (markaziy, periferik va vegetativ asab tizimi) va sezgi a'zolarining tuzilishi to'liq bayon etilgan.

Kitobda odam anatomiyasi haqida keng qamrovli ma'lumotlar mavjud bo'lsa-da, atlas keraksiz ma'lumotlar bilan ortiqcha yuklanmagan. Atlasda materiallar mutanosib joylashtirilgan bo'lib, qulay, juda informatsion va zamonaviy usulda tuzilgan. Shubhasiz, o'zbek, lotin, rus va ingliz tillarida berilgan mavzu ko'rsatkichi va terminlar indeksi atlasdan foydalanishni osonlashtiradi, kitobxonga, shu jumladan chet ellik kitobxonga ham kitobdan izlagan mavzu va terminni osongina topishga imkon beradi.

Barcha atamalar amaldagi xalqaro nomenklaturalarga, jumladan, "Terminologia Anatomica" (1998), "Xalqaro anatomik terminologiya rus ekvivalentlarining rasmiy ro'yxati bilan" (2003), "Xalqaro anatomik terminologiya o'zbek ekvivalentlarining rasmiy ro'yxati bilan" (2007), "Terminologia Histologica" (2008), "Xalqaro anatomik atamalar" (2007), "Xalqaro nomenklaturalar" (2008), "Xalqaro Rossiya ekvivalentlarining rasmiy ro'yxati bilan inson sitologiyasi va gistologiyasi bo'yicha xalqaro atamalar" (2009) ga to'liq mos ravishda berilgan.

Shifokorlarning eponimlarga ko'proq suyanishiga qaramasdan (ya'ni, ularni birinchi marta tasvirlab bergan odamlarning nomlari bo'yicha anatomik tuzilmalar nomlari: Myuller kanali, Duglas bo'shlig'i v.h.k), dunyoning ko'plab rivojlangan mamlakatlarida faqatgina xalqaro anatomik atamalardan foydalanilganligi sababli bizlar ham faqatgina xalqaro anatomik atamalardan foydalanishga qaror qildik.

Kitobning muvaffaqiyat siri tasviriy materiallarning yuqori sifatdaligi va ranglar mutanosibligidadir. Atlasda 1500 dan ortiq eng yorqin, visual va informatsion tasvirlardan foydalanildi.

Ko'pgina ilgari chiqarilgan atlaslardan farqli, raqamlar bilan ko'rsatilgan anatomik tuzilmalarni terminlar bilan joyida belgilashni afzal ko'rdik, bu esa terminlarni tushunish va oson yodlashga yordam beradi.

Ushbu nashr ustida ish olib borishda, tuzuvchi-mualliflar kitobxonlarga mutlaqo yangi atlas formatini taklif qilishni o'z oldilariga qo'yidilar, ularning afzalliklarini quyida keltirib o'tmoqchimiz, bular:

1. Tibbiyot oliy o'quv yurtlarida odam anatomiyasini o'rganish uch semestr davomiyligini hisobga olgan holda, o'quv materiallari uchta tomga (kitobga) joylashtirildi.

2. Nashr xalqaro anatomik va gistologik terminologiyada keltirilgan anatomik va gistologik atamalardan foydalangan holda o'zbek, rus, lotin va ingliz tillarida terminlar indeksi ro'yxati shakllantirildi.

3. Klassik anatomik tasvirlar zamonaviy tibbiy vizualizatsiyaning zaruriy matnlari bilan boyitildi va quyidagi qo'shimchalar kiritildi:

- relyef anatomiyasi, shu jumladan ichki a'zolarning proektsiyalari
- taqdim etilgan obyektlarni tushuntiruvchi anatomik diagrammalar (konturlar)
- obyektlarni vizualizatsiya qilish usullarining kengaytirilgan ro'yxati
- intravital endoskopik rangli rasmlar
- arteriyalarning topografoanatomik joylashuv variantlarini ko'rsatuvchi chizmalar
- ichki a'zolarning (ichak, jigar, buyraklar va boshqalar) kam kattalashtirilgan gistotopografik qismlari tasvirlari.

4. Kerakli tuzilmalarni qulay qidirishni ta'minlash maqsadida, ular uchun maxsus didaktik metodlar ishlatilgan:

- mazmunga yaqin rasmlar sahifalar bo'yicha navbatma navbat joylashtirilgan
- har bir asosiy bo'lim ma'lum bir rang bilan belgilangan
- har bir sahifaning burilish qismida sarlavhaga aniq yo'nalishni ko'rsatuvchi ko'rsatkichlar keltirilgan

- yuzaga kelishi mumkin bo'lgan tushunmovchiliklarni minimallashtirish uchun faqat o'ng a'zolarga tegishli rasmlar keltirilgan

- rasmdagi tuzilmalarni izlash doimiy rangli ko'rsatkichlar yordamida belgilangan
- atlas bilan ishlashni osonlashtiradigan eng maqbul kitob formati tanlangan
- anatomik atamani izlash to'rt tilda terminlar indeksi yordamida amalga oshiriladi.

"Odam anatomiyasi" atlas – O'zbekistonda o'xshashi bo'lmagan 4 tilda mukammal ishlangan adabiyot bo'lib, u nafaqat talabalar uchun anatomik bilimlar olamiga yetaklovchi eng yaxshi do'st, balkim anatomik atamalar va sharhlarning universal ma'lumotnomasi sifatida ishlatishi mumkin bo'lgan ilmiy xodimlar va shifokarlarning kasbiy faoliyatida qo'l keladigan qo'llanma bo'lib xizmat qiladi.

Biz ushbu atlasni odam anatomiyasi sohasidagi ustuvor mahalliy nashrga aylanishiga chin dildan umid qilamiz.

Kelajakda bu kitob professor – o'qituvchilar, talabalar, shifokorlar va muharrirlarning doimiy hamkorligi natijasida bosqichma – bosqich takomillashib boradi va buning natijasida vaqt o'tishi bilan nafaqat fundamental ahamiyatini, o'z qadr-qimmatini, bilimning asosiy manbai sifatida yo'qotmaydi, balki eng yaxshi va sevimli ma'lumotnomaga, shifokorning butun hayoti uchun ish stoli kitobiga aylanishiga ishonamiz.

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DIGESTIVE SYSTEM

**OVQAT HAZM QILISH
A'ZOLARI TIZIMI**

**ПИЩЕВАРИТЕЛЬНАЯ
СИСТЕМА**

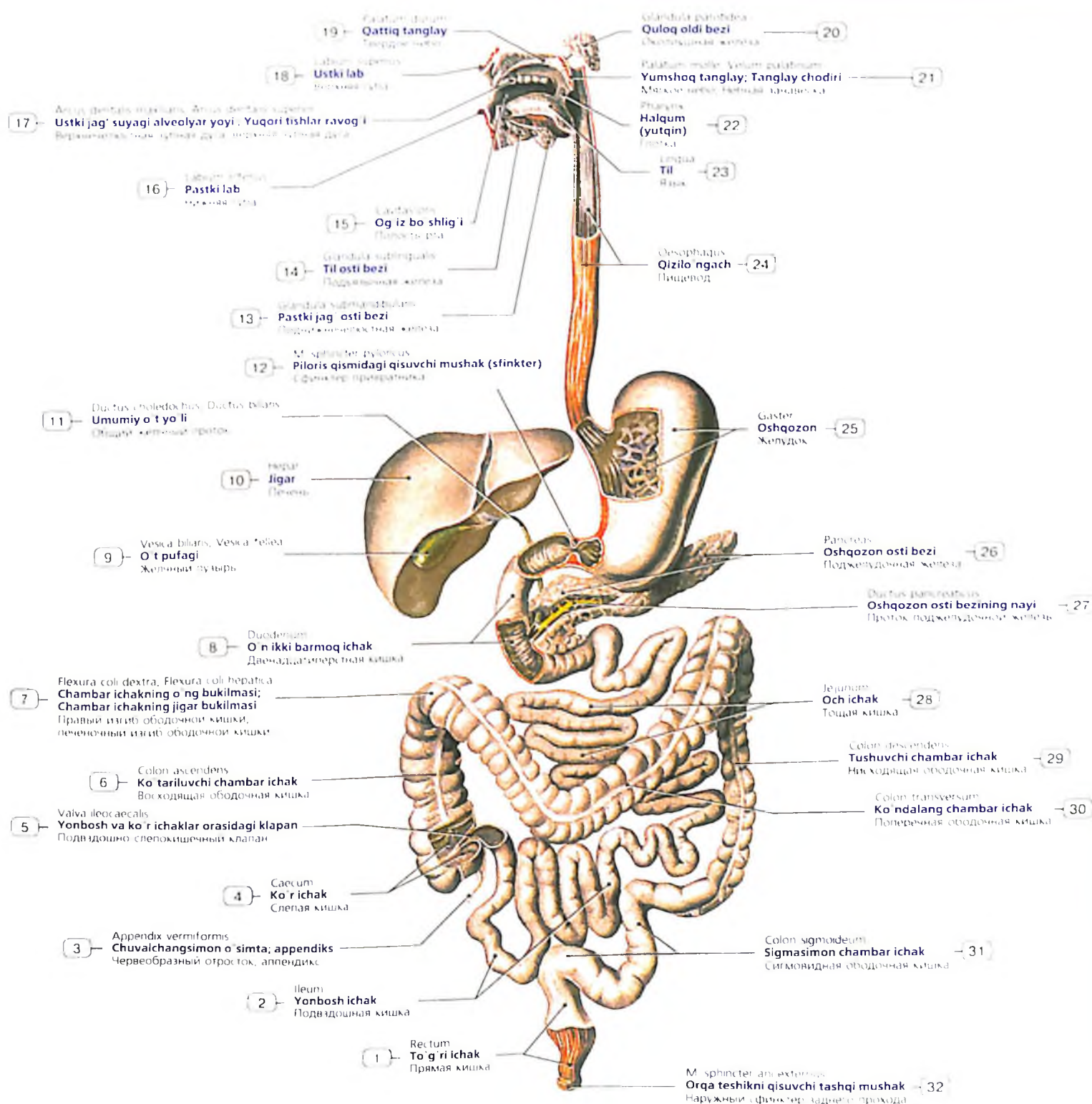
1 – jadval. Ovqat hazm qilish a'zolari tizimi

Tana qismlari, a'zo	A'zolar guruhi, a'zo	A'zo, a'zoning qismlari	A'zo qismlari
Og'iz bo'shlig'i	Og'iz dahlizi	Og'iz yorig'i	
		Og'iz lablari	Ustki lab, Pastki lab
		Lunj	Lunjning yog' tanasi
		Xususiy og'iz bo'shlig'i	
		Tanglay	Qattiq tanglay, yumshoq tanglay, tanglay chodiri
		Milk	
	Og'iz bo'shlig'i so'lak bezlari Katta so'lak bezlar	Til osti so'lak bezi Jag' osti so'lak bezi Quloq oldi so'lak bezi Qo'shimcha quloq oldi so'lak bezi	Til osti so'lak bezining katta nayi Til osti so'lak bezining kichik naylari Jag' osti so'lak bezi nayi Quloq oldi so'lak bezi nayi
	Mayda so'lak bezlari	Labdagi so'lak bezlar Lunjdag'i so'lak bezlar Molyarlar so'lak bezlari Tanglaydag'i so'lak bezlar Tildagi so'lak bezlar	
	Tishlar Kesuvchi (kurak) tishlar Qoziq tishlar Kichik oziq (premolyar) tishlar Katta oziq (molyar) tishlar	Yuqori jag' tishlari yoyi Pastki jag' tishlari yoyi Tish toji Tish bo'yni Tish ildizi	Tish pulpasi Dentin Emal Cement Periodont
	Til	Til tanasi Til ildizi Til orqa sohasi (ustki yuzasi) Til chekkasi Til uchi	Ipsimon so'rg'ichlar Konussimon so'rg'ichlar Tarnovsimon so'rg'ichlar Zamburug'simon so'rg'ichlar Varoqsimonsimon so'rg'ichlar
		Til so'rg'ichlari Til mushaklari	Tilning skelet mushaklari Engak - til mushagi Til osti - til mushagi Tog'ay - til mushagi Shoxsimon - til mushagi Bigizsimon o'siq - til mushagi Tanglay - til mushagi Tilning xususiy mushaklari Ustki bo'ylama mushak Pastki bo'ylama mushak Tilning ko'ndalang mushagi Tilning vertikal mushagi
	Tomoq, Bo'g'iz	Yumshoq tanglay, Tanglay chodiri	Tanglay tilchasi Til - tanglay ravog'i Tanglay - halqum ravog'i
		Yumshoq tanglay va tomoq muskullari	Tanglay chodirini ko'taruvchi mushak Tanglay chodirini taranglovchi mushak Tilcha mushagi Tanglay - til mushagi Tanglay - halqum mushagi
Halqum	Halqum bo'shlig'i	Halqumning burun qismi Halqumning og'iz qismi Halqumning hiquldoq qismi Halqumning muskullari	Halqumning yuqorigi qisuvchi mushagi Halqumning o'rta qisuvchi mushagi Halqumning pastki qisuvchi mushagi Bigizsimon - halqum mushagi Nay - halqum mushagi
Qizilo'ngach	Qizilo'ngachning bo'yin qismi Qizilo'ngachning ko'krak qismi Qizilo'ngachning qorin qismi	Ko'krak qismidagi torayma Diafragma toraymasi	

OVQAT HAZM QILISH A'ZOLARI TIZIMI

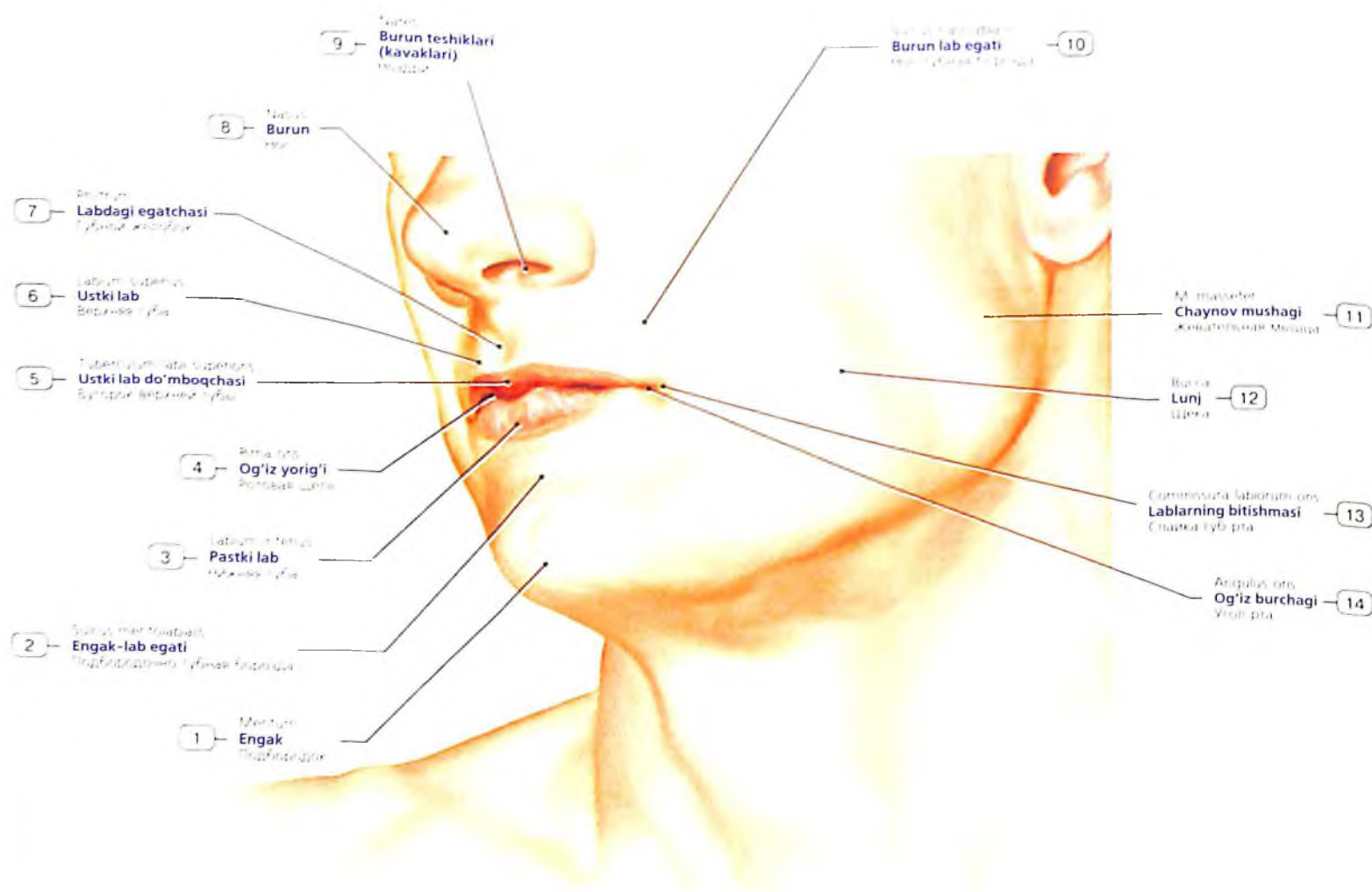
Tana qismlari, a'zo	A'zolar guruhi, a'zo	A'zo, a'zoning qismlari	A'zo qismlari
Me'da	Me'daning kardial qismi Oshqozon tubi Oshqozon gumbazi Oshqozon tanasi Oshqozonning pilorik qismi Oshqozonning chiqish teshigi (pilorus) Katta egrilik Kichik egrilik Oldingi devor Orqa devor	Kardial teshik Kardial o'yma Oshqozon kanali Oshqozonning pilorik kanali Pilorik qismidagi bo'shliq (q'or) Oshqozon pilorik qismining teshigi Pilorik qismidagi qisuvchi mushak Seroz parda Seroz osti asosi Mushakli parda Shilliq osti asosi Shilliq parda	Bo'ylama uzunasiga ketgan qavat Halqali qavat Qiya tolalar Oshqozon burmalari Oshqozon maydonchasi Oshqozon chuqurchalari Oshqozonning xususiy bezlari
Ingichka ichak	O'n ikki barmoq ichak	Seroz parda Mushakli parda Shilliq parda Yuqorigi qismi Pastga tushuvchi qismi Gorizontal qismi, pastki qism Ko'tariluvchi qism O'n ikki barmoq ichak bilan och ichak ortasidagi bukilma	Bo'ylama uzunasiga ketgan qavat Uzun qadamli burama qavat Halqali qavat, Kalta qadamli burama qavat Halqasimon burmalar Ingichka ichakdagi tukli hosilalar (Vorsinkalar) Ingichka ichak bezlari Yakka-yakka limfa tugunlari To'plangan limfa tugunlari Kengaygan soha (Ampula) piyozcha O'n ikki barmoq ichakning ustki bukilmasi O'n ikki barmoq ichakning pastki bukilmasi O'n ikki barmoq ichakning katta so'rg'ichi O'n ikki barmoq ichakning kichik so'rg'ichi
	Och ichak		
	Yonbosh ichak	Yakuniy qism	Yonbosh ichak divertikuli
Yo'g'on ichak	Ko'r ichak	Yonbosh ichak teshigi Chualchangsimon o'simta; Appendix	Yonbosh ichak teshigining yuganchasi Yonbosh chambar ichaklar orasidagi labi, Ustki lab Yonbosh va ko'r ichaklar orasidagi labi, Pastki lab Chualchangsimon o'simta teshigi
	Chambar ichak	Ko'tariluvchi chambar ichak Chambar ichakning o'ng bukilmasi; Chambar ichakning jigar bukilmasi Ko'ndalang chambar ichak Chambar ichakning chap bukilmasi; Chambar ichakning taloq bukilmasi Tushuvchi chambar ichak Sigmasimon chambar ichak Mushak parda	Chambar ichakning yarim oysimon burmalari Yo'g'on ichakning qavariq joylari (gaustralari) Yog' o'simtalari Bo'ylama qavat Chambar ichak tasmasi Tutqich tasmasi Charvi tasmasi Erkin tasma Halqali qavat
	To'g'ri ichak	Dumg'aza egriligi Lateral egriliklar To'g'ri ichakning ko'ndalang burmalari To'g'ri ichak kengaymasi Mushak parda	Ustki lateral egriligi Lateral oraliq egriligi Pastki lateral egriligi Chiqaruv teshigi kanali Chiqaruv teshigi va to'g'ri ichak bitishmasi Chiqaruv teshigi ustunchalari Orqa teshik qopqog'i Orqa teshik bo'shlig'i (sinusi) Orqa teshikni qisuvchi tashqi mushak Orqa peshov Bo'ylama qavat Halqali qavat Orqa teshikni qisuvchi ichki mushak To'g'ri ichakning yon boylami

Tana qismlari, a'zo	A'zolar guruhi, a'zo	A'zo, a'zoning qismlari	A'zo qismlari
Jigar	Jigarning o'ng bo'lagi Jigarning chap bo'lagi Kvadrat bo'lagi Dumli bo'lak	Diafragma yuzasi Ichki a'zolariga qaragan yuza Jigar darvozasi Jigarning segmentlarga bo'linishi bo'laklar, qismlar, sohalar va segmentlar	O't pufagi chuqurchasi Yumaloq boylam yonig'i Jigarning yumaloq boylami Darvoza venasi Jigar arteriyasi Jigarning umumiy o't yo'li Jigarning o'ng o't yo'li Jigarning chap o't yo'li Jigarning chap bo'lagi Chap lateral soha Orqa chap lateral segment, Segment 2 Oldingi chap lateral segment, Segment 3 Chap medial soha Chap medial segment, Segment 4 Jigarning orqa qismi, Dumsimon bo'lagi, Segment 1 Jigarning o'ng qismi O'ng medial soha Oldingi o'ng medial segment, Segment 5 Orqadagi o'ng medial segment, Segment 8 O'ng yon soha Oldingi o'ng lateral segment, Segment 6 Orqadagi o'ng lateral segment, Segment 7 Jigar bo'lakchasi
Jigarning umumiy o't yo'li	Jigarning o'ng o't yo'li Jigarning chap o't yo'li		
O't pufagi	O't pufagining tubi O't pufagining tanasi O't pufagining bo'yni O't yo'li Umumiy o't yo'li	Umumiy o't yo'lining qisuvchi mushagi	Kengaymaning qisuvchi mushagi
Oshqozon osti bezi	Oshqozon osti bezi boshchasi Oshqozon osti bezi bo'yni Oshqozon osti bezi tanasi Oshqozon osti bezi dumli Qo'shimcha oshqozon osti bezi	Oshqozon osti bezining ekzokrin qismi Oshqozon osti bezi endokrin qismi (pankreatik orolchalar)	Oshqozon osti bezining nayi Oshqozon osti bezi nayining qisuvchi mushagi



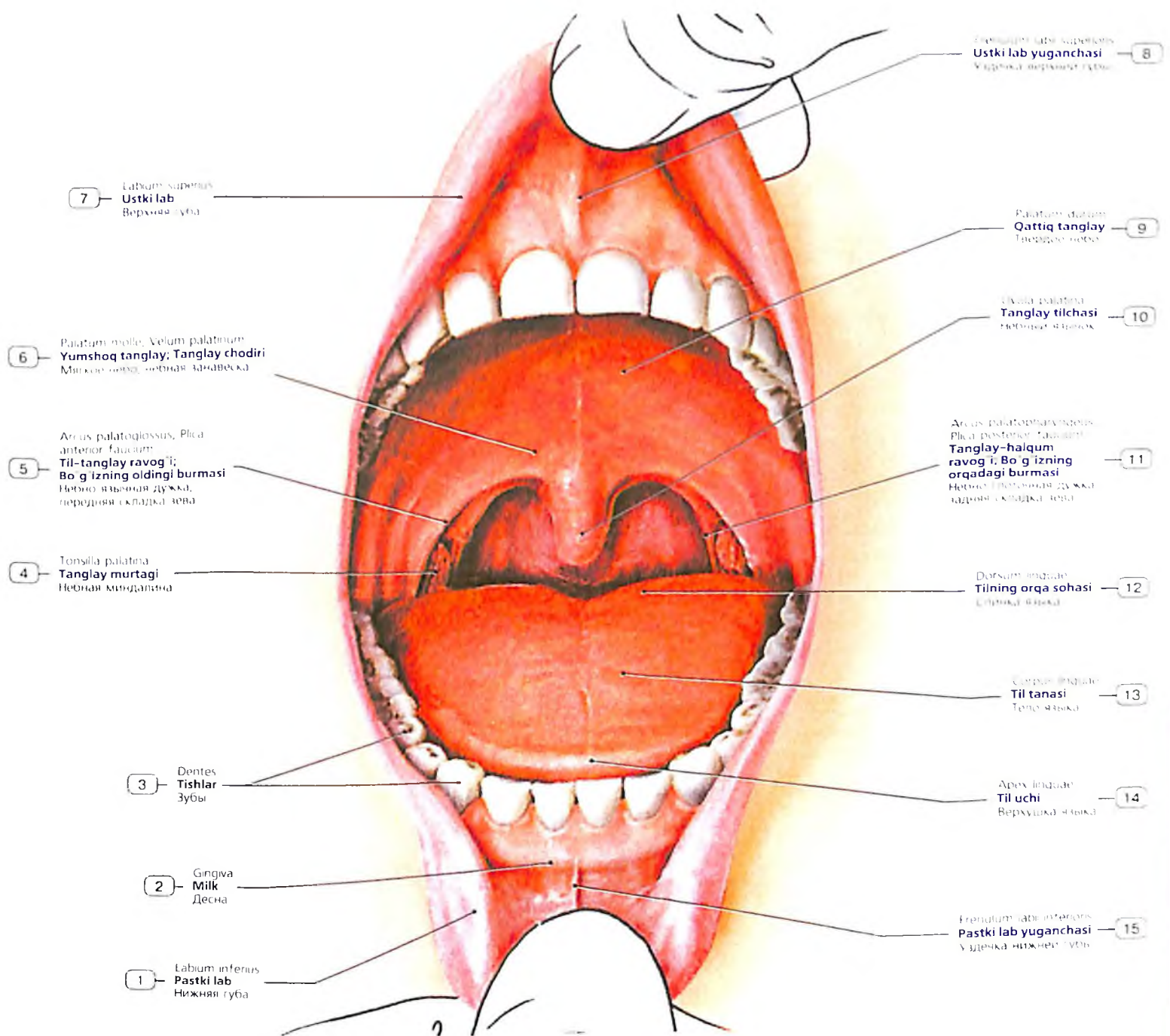
Rasm № 1. Ovqat hazm qilish a'zolari tizimi (chizma).
Рисунок № 1. Пищеварительная система (схема).

- | | | | |
|--|------------------------|----------------------------|----------------------------|
| 1 Rectum | 8 Duodenum | 17 Maxillary dental arcade | 25 Stomach |
| 2 Ileum | 9 Gallbladder | 18 Upper dental arcade | 26 Pancreas |
| 3 Appendix, Vermiform appendix | 10 Liver | 19 Hard palate | 27 Pancreatic duct |
| 4 Caecum | 11 Bile duct | 20 Parotid gland | 28 Jejunum |
| 5 Ileocaecal valve | 12 Pyloric sphincter | 21 Soft palate | 29 Descending colon |
| 6 Ascending colon | 13 Submandibular gland | 22 Pharynx | 30 Transverse colon |
| 7 Right colic flexure, Hepatic flexure | 14 Sublingual gland | 23 Tongue | 31 Sigmoid colon |
| | 15 Oral cavity | 24 Oesophagus | 32 External anal sphincter |
| | 16 Lower lip | | |



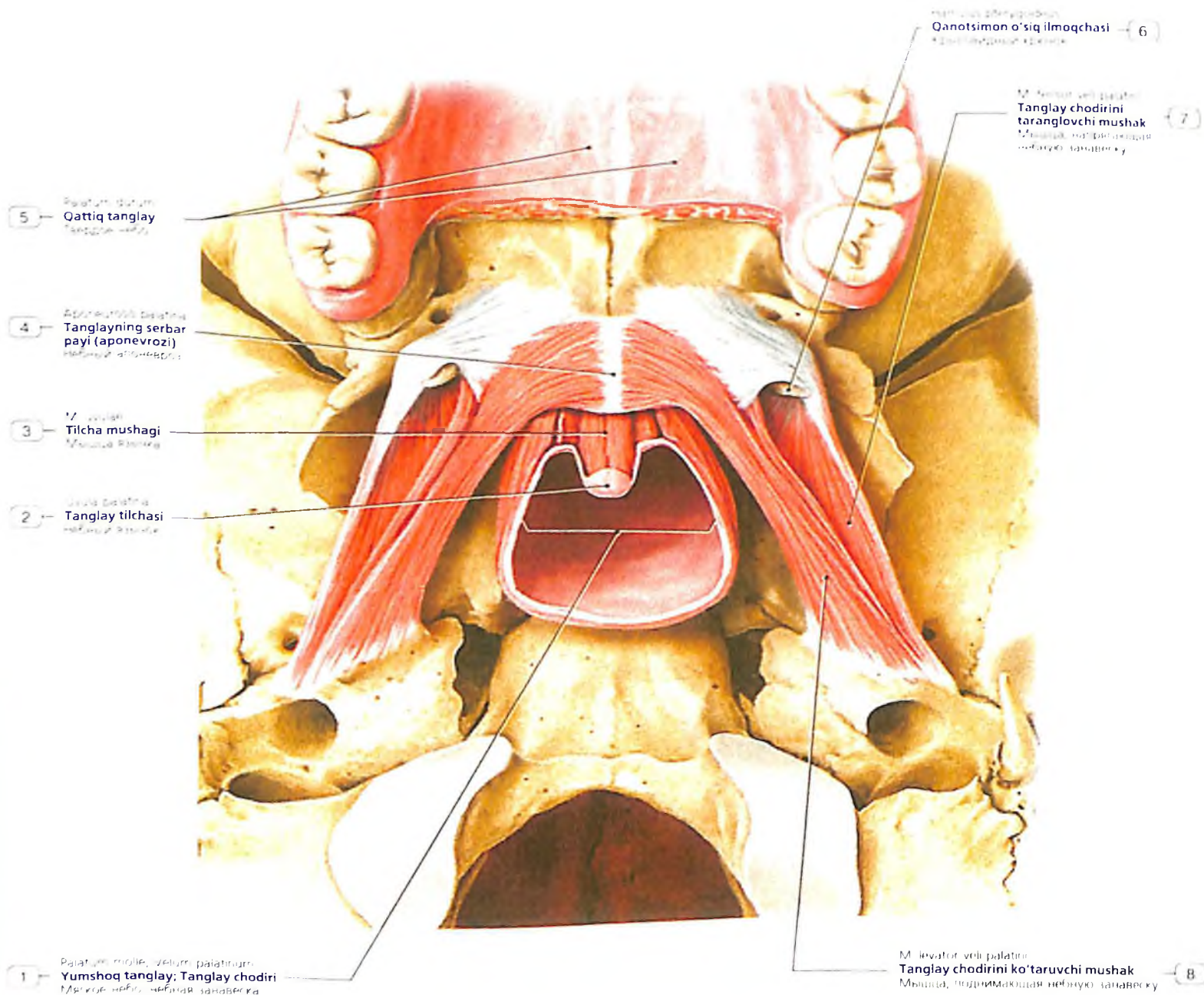
Rasm № 2. Og'iz yorig'i, ustki va pastki lablar. Рисунок № 2. Ротовая щель, верхняя и нижняя губы.

- | | | | |
|--------------------------------|---------------------------|------------------------|---------------------------------|
| 1 - Mentum | 5 - Tubercle of upper lip | 9 - Nares, Nostrils | 13 - Labial commissure of mouth |
| 2 - Mentolabial sulcus | 6 - Upper lip | 10 - Nasolabial sulcus | 14 - Angle of mouth |
| 3 - Lower lip | 7 - Philtrum | 11 - Masseter | |
| 4 - Oral fissure, Oral opening | 8 - Nose | 12 - Cheek | |



Rasm № 3. Og'iz bo'shlig'i, oldindan ko'rinishi. Рисунок № 3. Полость рта, вид спереди.

- | | | | |
|-----------------------|--------------------------|---------------------------|---------------------------|
| 1. Lower lip | 6. Soft palate | 10. Uvula | 14. Apex of tongue |
| 2. Gingiva, Gum | 7. Upper lip | 11. Palatopharyngeal arch | 15. Frenulum of lower lip |
| 3. Teeth | 8. Frenulum of upper lip | 12. Dorsum of tongue | |
| 4. Palatine tonsil | 9. Hard palate | 13. Body of tongue | |
| 5. Palatoglossal arch | | | |

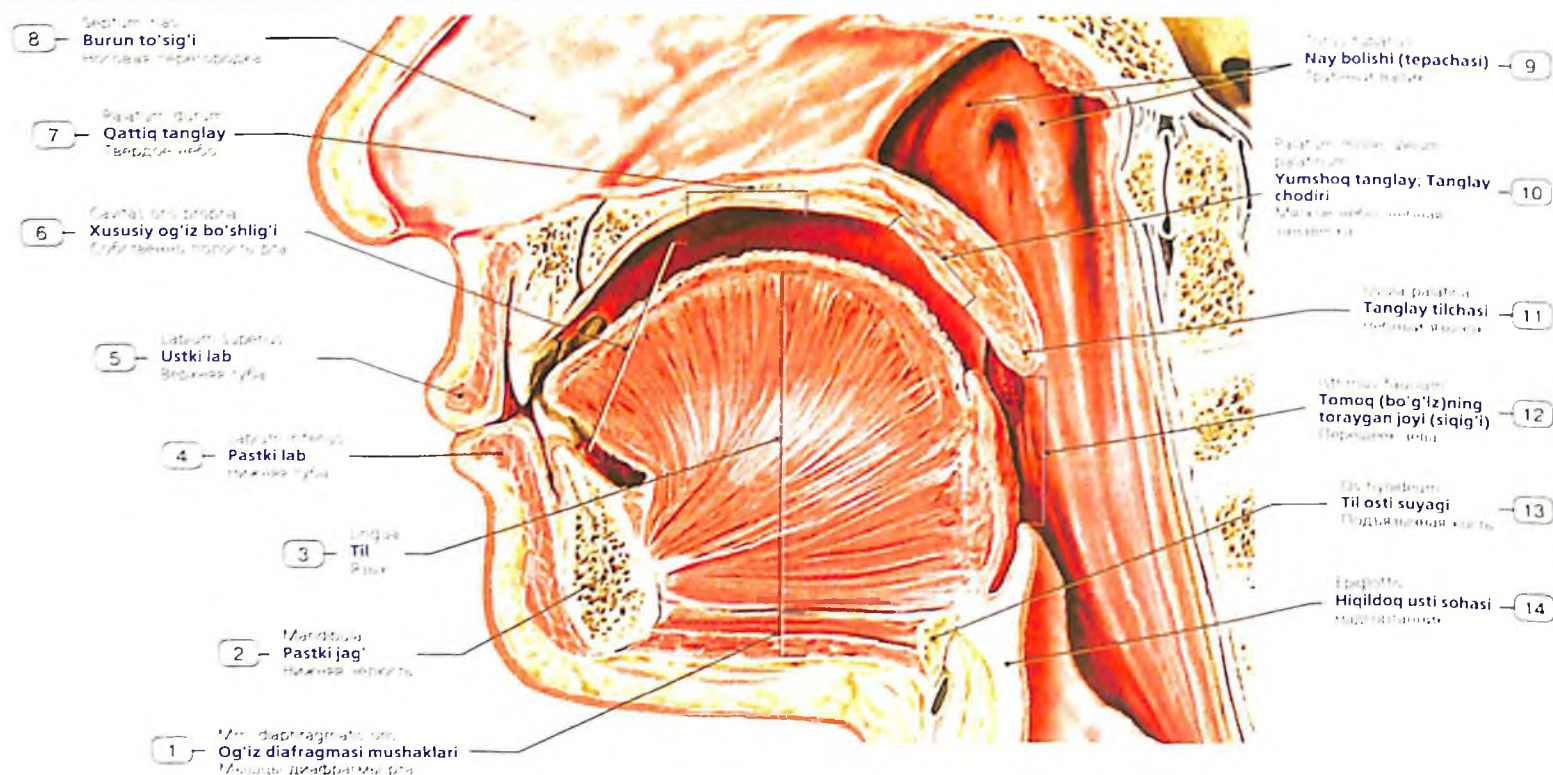


Rasm № 4. Yumshoq tanglay mushaklari. Рисунок № 4. Мышцы мягкого нёба.

- | | | | |
|-----------------|--------------------------|---------------------|---------------------------|
| 1 — Soft palate | 3 — Musculus palatinus | 5 — Hard palate | 7 — Tensor veli palatini |
| 2 — Uvula | 4 — Palatine aponeurosis | 6 — Pterygoid fossa | 8 — Levator veli palatini |

2 - jadval. Yumshoq tanglay mushaklari

Mushakning nomi	Mushaklarning boshlanishi, muskul tutamlarining yo'nalishi	Birikishi	Vazifalari	Innervatsiyasi
Tanglay chodirini taranglovchi mushak	Ponasimon suyakning katta qanoti qayiqsimon chuqurchasi va ponasimon suyakning qirrası, eshitish nayining tog'ay qismi Yuqoridan pastga yo'nalgan Tepadan pastga	Mushak payi qanotsimon o'simta ilmogini aylanib o'tib medial yo'naladi, yumshoq tanglay aponevroziga birikadi	Tanglay chodirini taranglaydi va eshituv nayi bo'shlig'ini kengaytiradi	Tanglay chodirini taranglashtiruvchi mushak nervi (uch shoxli nervining (V juft) uchinchi tarmoqi)
Tanglay chodirini ko'taruvchi mushak	Chakka suyagi piramidasining pastki yuzasi, uyqu kanali teshigidan oldinda, eshituv nayi tog'ay qismi Vertikal yo'nalgan	O'ng va chap mushaklar yumshoq tanglay aponevroziga birikadi	Yumshoq tanglayni ko'taradi, eshituv nayining halqum teshigini ochadi	Halqum nerv chiqali (IX, X juft), sympatic poya
Tilcha mushagi	Orqa burun qiltanog'i, tanglay aponevrozi Orqa tomonga yo'nalgan	Tanglay tilchasining shilliq qavatiga birikadi	Tilchani kichraytiradi	Halqum nerv chiqali
Tanglay-til mushagi	Til ildizining lateral qismi, tanglay-til ravog'i tarkibida yuqoriga ko'tariladi	Yumshoq tanglay aponevroziga birikadi	Tanglay chodirini pastga tushiradi, tomoq (bo'g'iz) teshigini toraytiradi teshigini toraytiradi	IX-juft (til-halqum nervi)
Tanglay-halqum mushagi	Halqumning orqa devori, qalqonsimon tog'ay orqa chekkasi Yuqoriga tanglay - yutqin ravog'i tarkibida yuqoriga ko'tariladi	Yumshoq tanglay aponevroziga birikadi	Tanglay chodirini pastga tushiradi, tomoq (bo'g'iz) teshigini toraytiradi	IX-juft (til-halqum nervi)



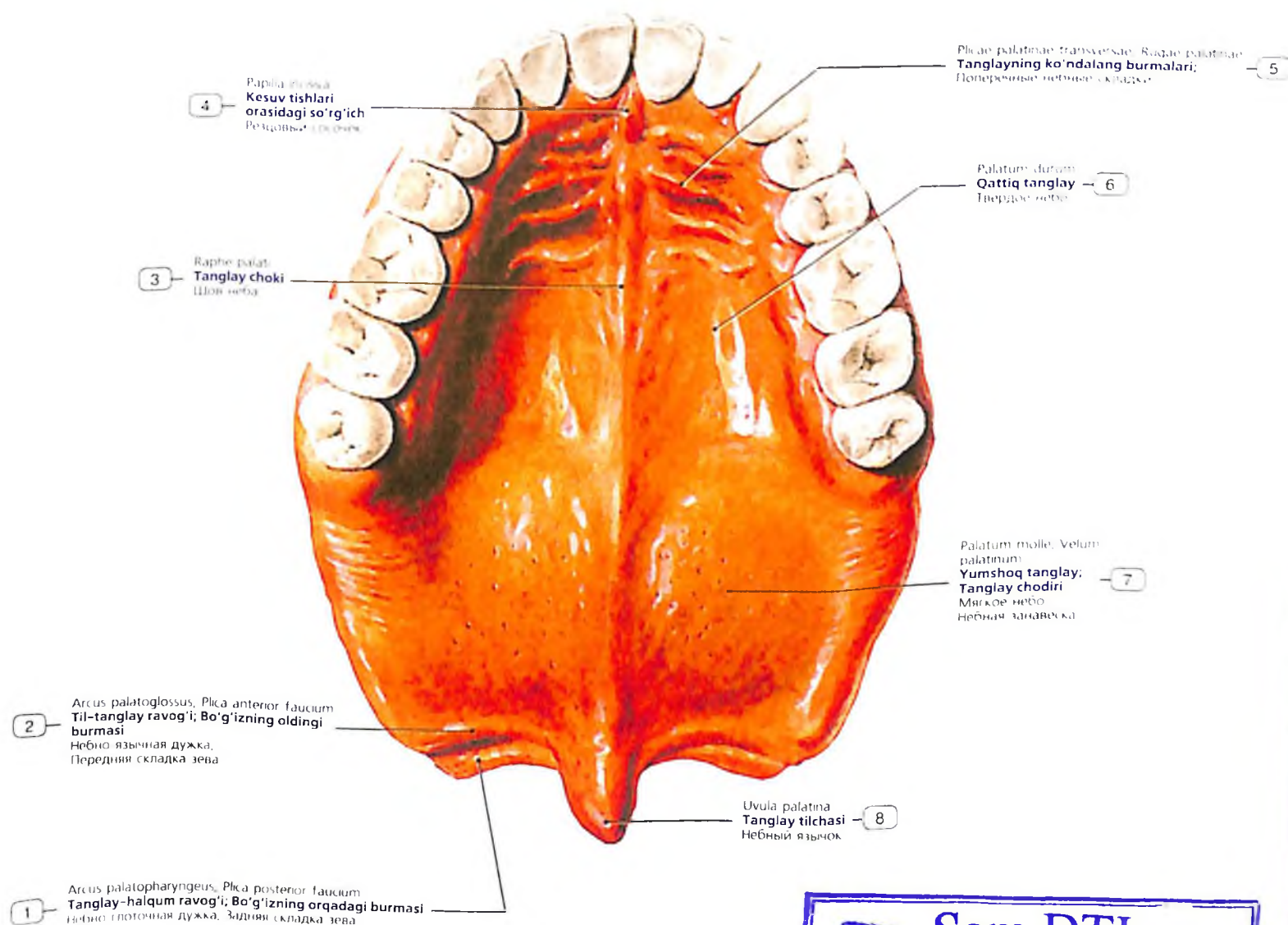
Rasm № 5. Og'iz bo'shlig'i (sagittal kesimda). Рисунок № 5. Ротовая полость (сагиттальный распил).

- | | | | |
|--------------------------|-----------------------|-----------------------|-----------------------|
| 1. Muscles of oral floor | 5. Upper lip | 9. Torus tubarius | Oropharyngeal isthmus |
| 2. Mandible | 6. Oral cavity proper | 10. Soft palate | 13. Hyoid bone |
| 3. Tongue | 7. Hard palate | 11. Uvula | 14. Epiglottis |
| 4. Lower lip | 8. Nasal septum | 12. Isthmus of fauces | |



Rasm № 6. Boshning sagittal kesmasi, T1-o'lchamdagi tasvir (magnit-rezonansli tomografiya) (S.K. Ternov bo'yicha). Рисунок № 6. Сагиттальный срез головы, T1-взвешенное изображение (магнитно-резонансная томография) (по С.К. Терновому).

- | | | | |
|-------------------|------------|----------------|------------|
| 1. Mandible | 3. Maxilla | 5. Hard palate | 7. Pharynx |
| 2. Corrhæ nasales | 4. Tongue | 6. Soft palate | 8. Brain |

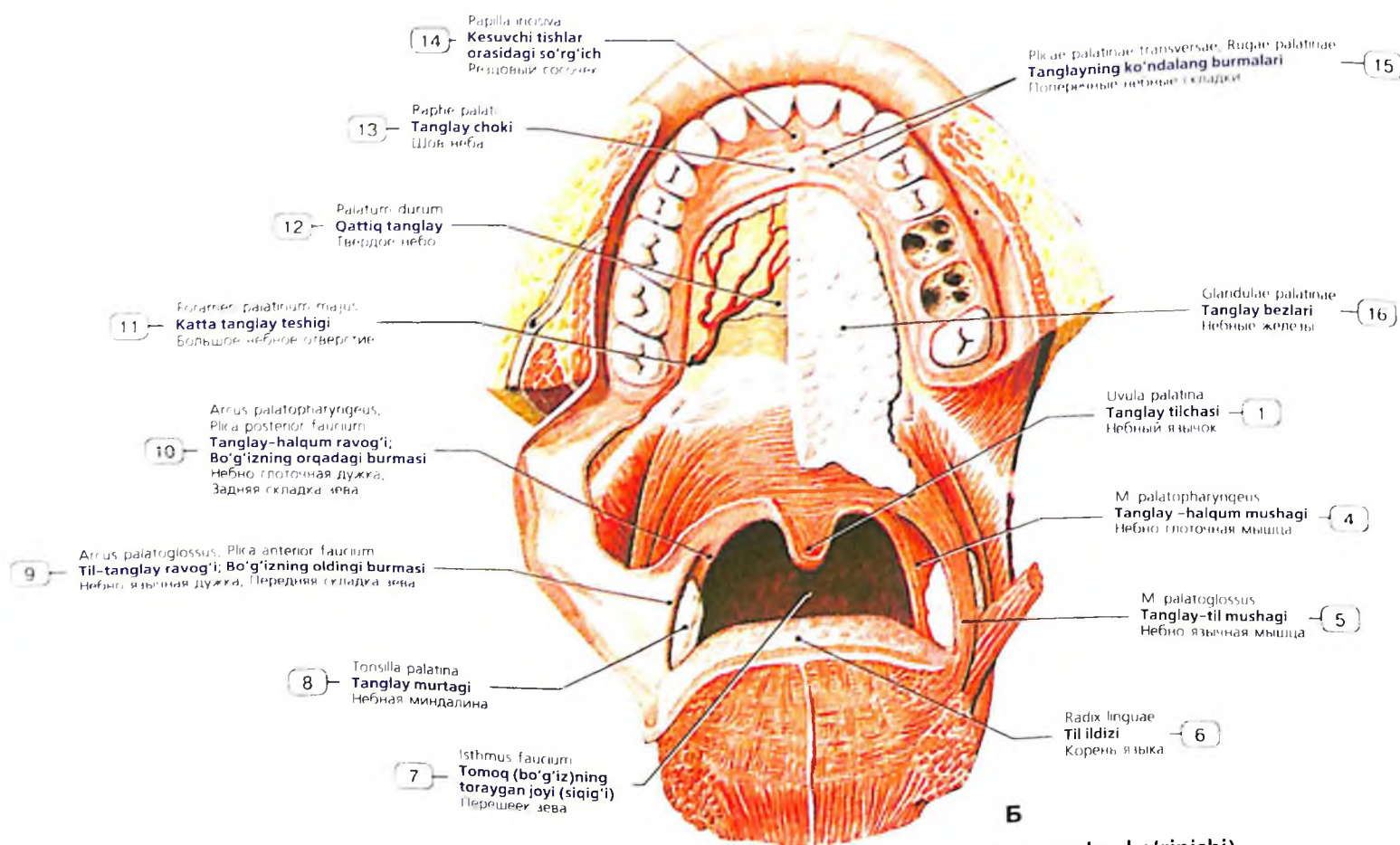
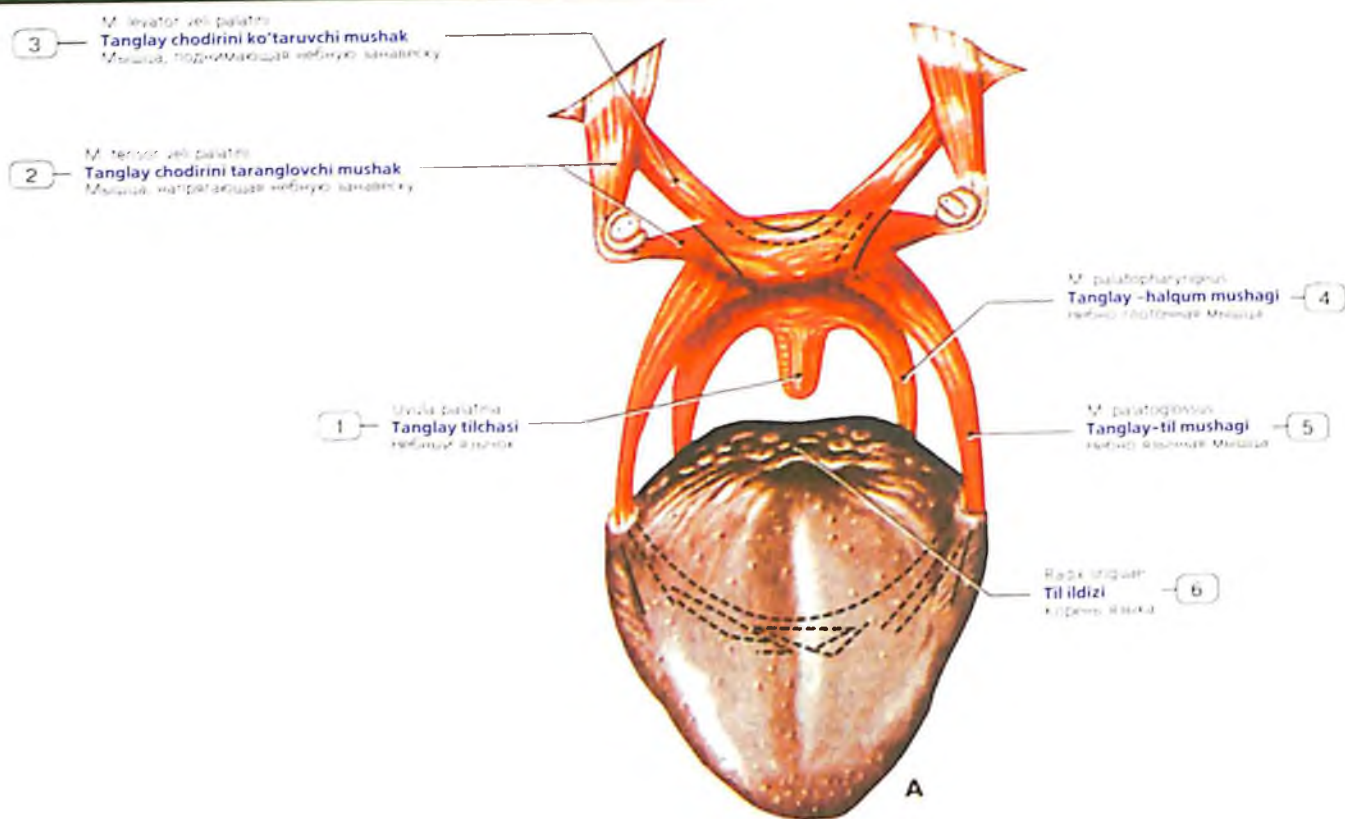


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Rasm № 7. Tanglay shilliq qavati re'lefi. Рисунок № 7. Рельеф слизистой оболочки нёба.

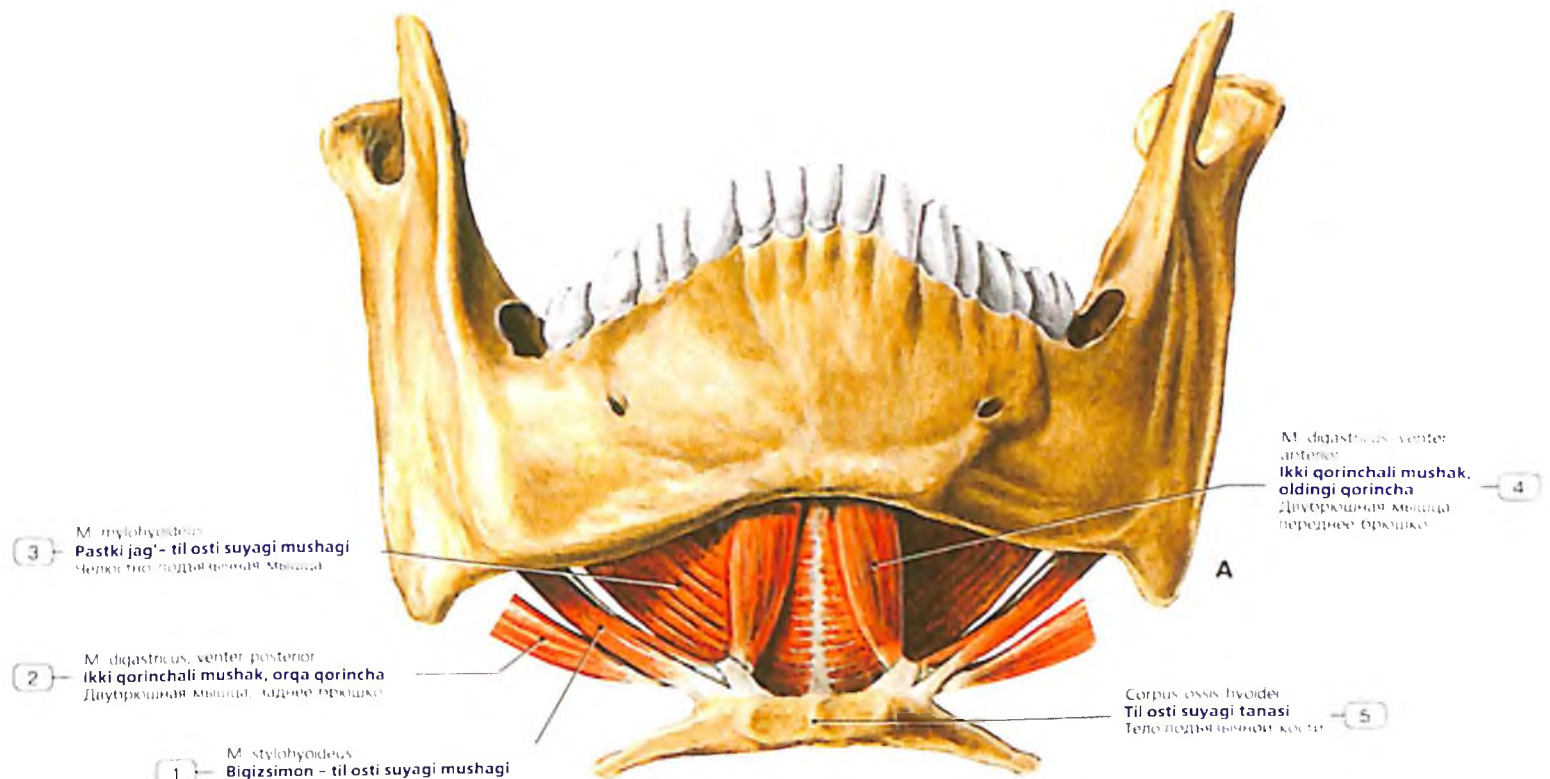
- | | | |
|--|--|---------------|
| 1 Palatopharyngeal arch,
Posterior pillar of fauces | 3 Palatine raphe | 6 Hard palate |
| 2 Palatoglossal arch,
Anterior pillar of fauces | 4 Incisive papilla | 7 Soft palate |
| | 5 Transverse palatine folds,
Palatine rugae | 8 Uvula |

ПИЩЕВАРИТЕЛЬНАЯ СИСТЕМА



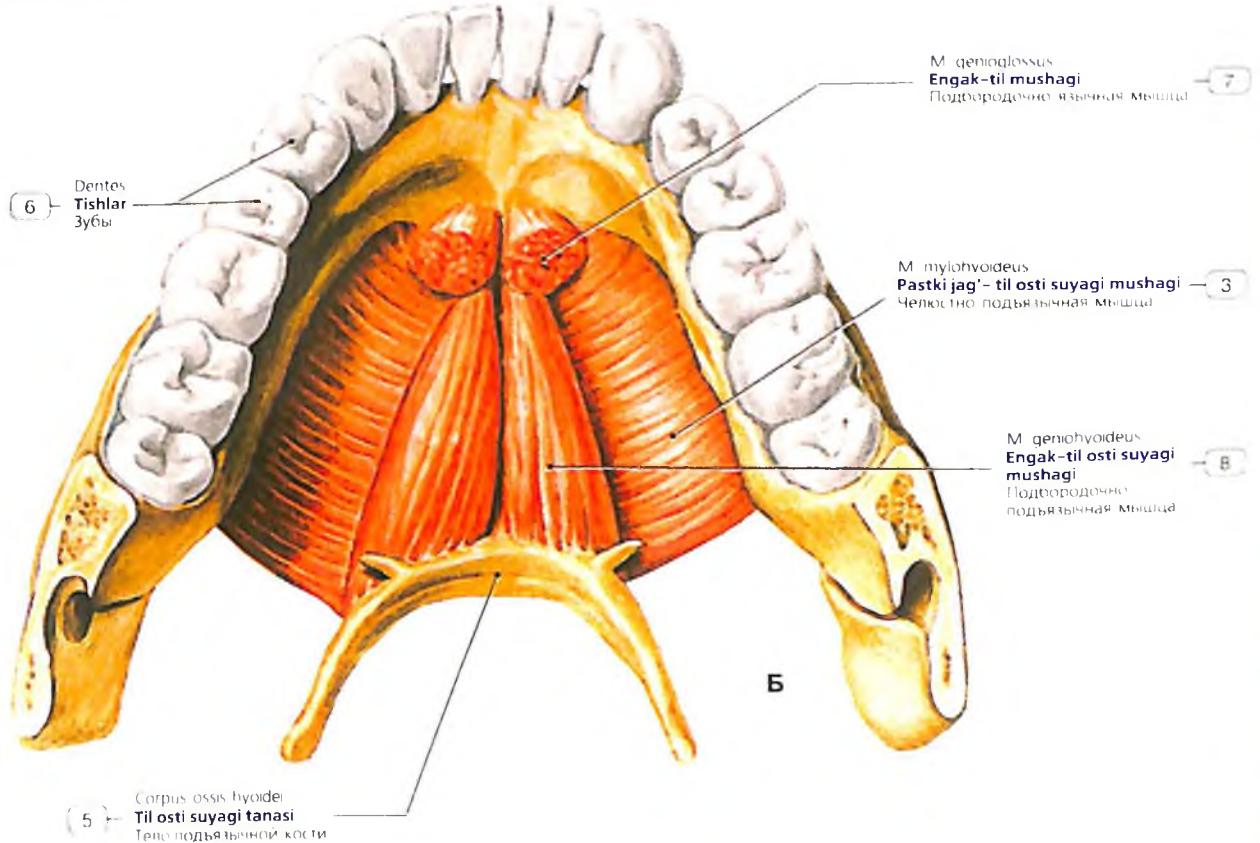
Rasm № 8. Yumshoq tanglay mushaklari (A – chizma; B – og'iz bo'shlig'i tomondan ko'rinishi).
Рисунок № 8. Мышцы мягкого нёба (А – схема; Б – вид со стороны полости рта).

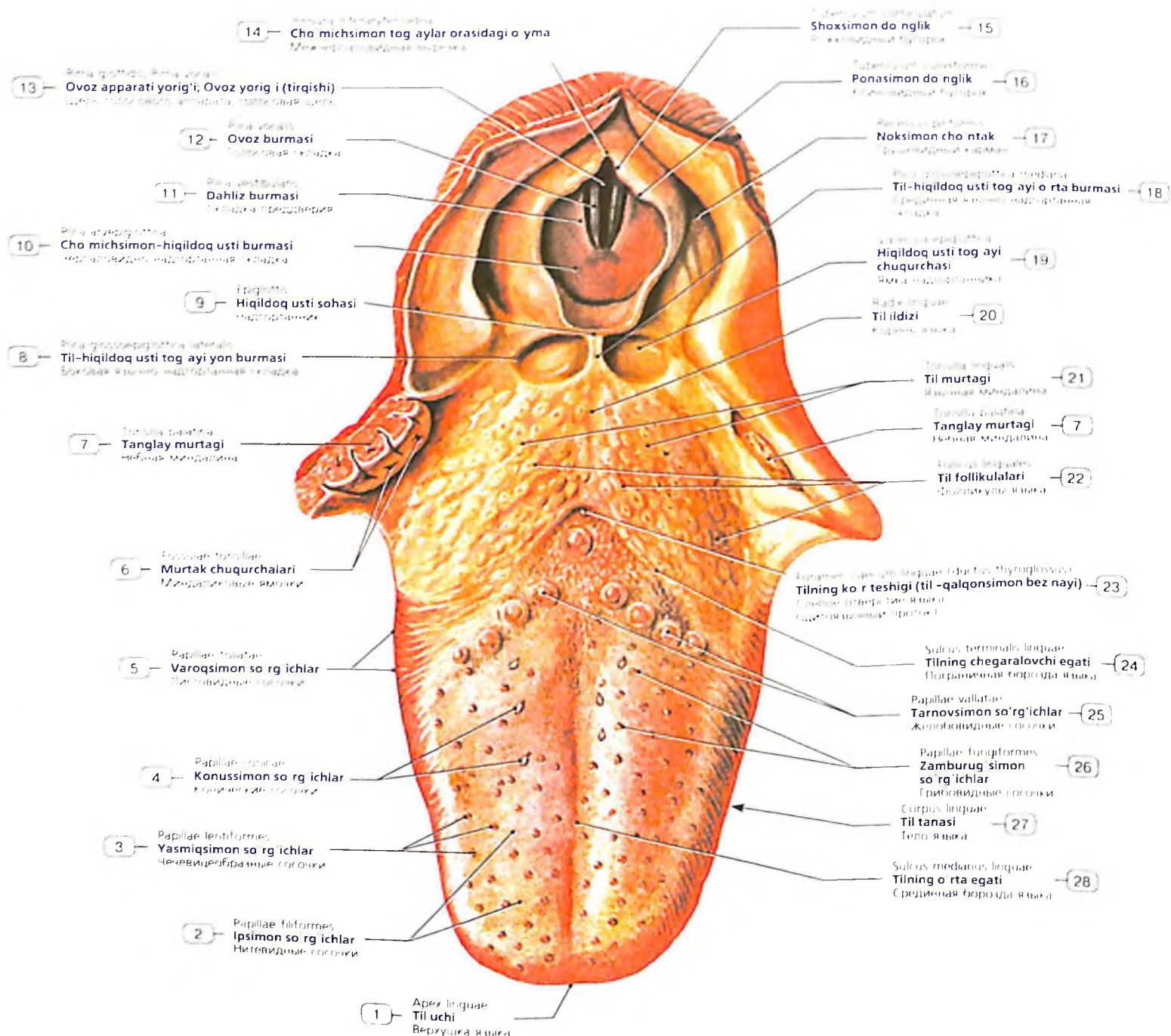
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|---------------------------|-----------------------------|-------------------------------|--|
| 1 — Uvula | 5 — Palatoglossus | 8 — Palatine tonsil | 14 — Incisive papilla |
| 2 — Tensor veli palatini | 6 — Root of tongue | 9 — Palatoglossal arch, | 15 — Transverse palatine folds, Palatine rugae |
| 3 — Levator veli palatini | 7 — Isthmus of fauces, | 10 — Palatopharyngeal arch, | 16 — Palatine glands |
| 4 — Palatopharyngeus | 8 — Palatine tonsil | 11 — Greater palatine foramen | |
| | 9 — Palatoglossal arch, | 12 — Hard palate | |
| | 10 — Palatopharyngeal arch, | 13 — Palatine raphe | |



Rasm № 9. Og'iz tubi mushaklari (A – old va pastdan ko'rinishi; B – yuqoridan ko'rinishi).
Рисунок № 9. Мышцы дна полости рта (А – вид спереди и снизу; Б – вид сверху).

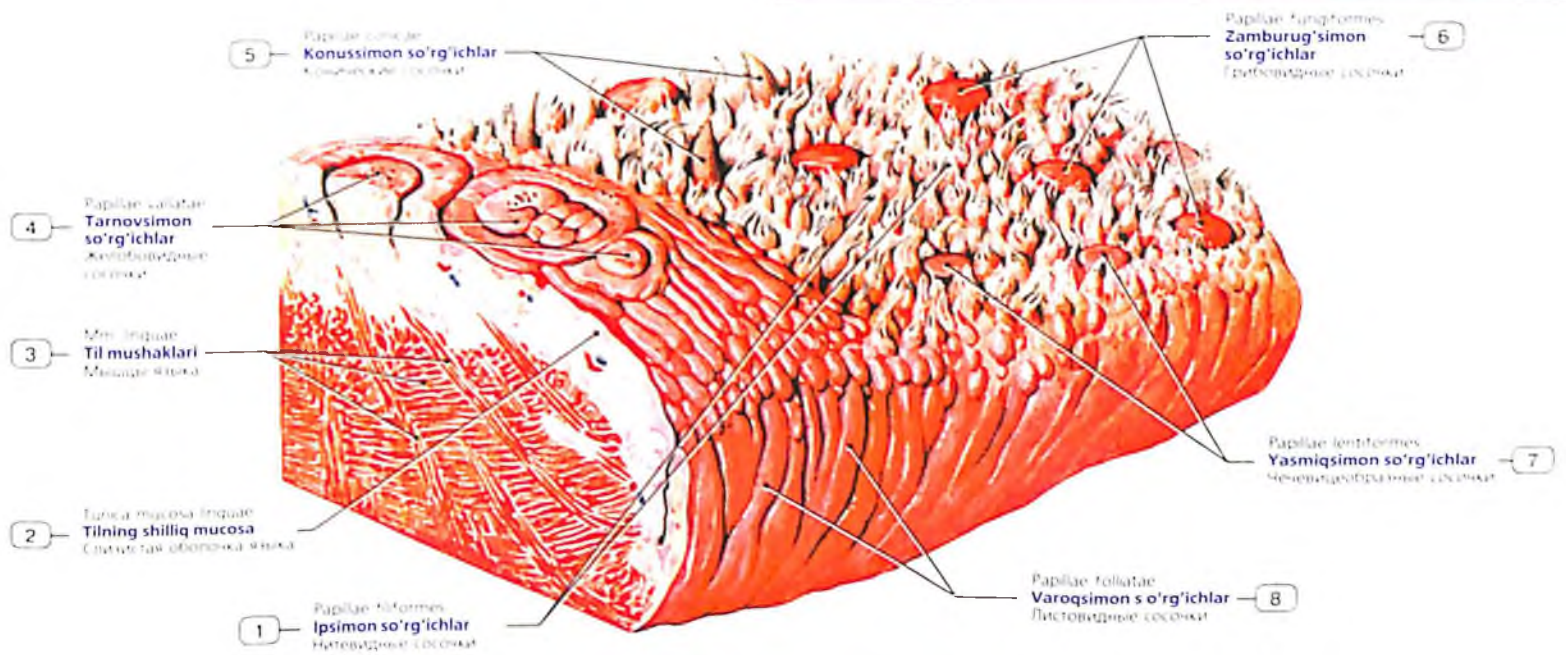
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|------------------------------|-----------------------------|----------------------|----------------|
| 1 Stylohyoid | 3 Mylohyoid | 5 Body of hyoid bone | 7 Genioglossus |
| 2 Digastric, posterior belly | 4 Digastric, anterior belly | 6 Teeth | 8 Geniohyoid |





Rasm № 10. Til, yuqoridan ko'rinishi. Рисунок № 10. Язык, вид сверху.

- | | | | |
|--------------------------------------|-------------------------|---|--|
| 1 Apex of tongue, Tip of tongue | 9 Epiglottis | 18 Median glosso epiglottic fold | 24 Terminal sulcus of tongue |
| 2 Filiform papillae | 10 Ary epiglottic fold | 19 Epiglottic vallecula | 25 Vallate papillae |
| 3 Lenticular papillae | 11 Vestibular fold | 20 Root of tongue | 26 Fungiform papillae |
| 4 Conical papillae | 12 Vocal fold | 21 Lingual tonsil | 27 Body of tongue |
| 5 Foliate papillae | 13 Rima glottidis | 22 Follicle of tongue | 28 Midline groove of tongue, Median sulcus of tongue |
| 6 Terminal pit | 14 Interarytenoid notch | 23 Foramen caecum of tongue (thyroglossal duct) | |
| 7 Papillae terminal | 15 Corniculate tubercle | | |
| 8 Lateral epiglottic epiglottic fold | 16 Coniform tubercle | | |
| | 17 Piriform fossa | | |

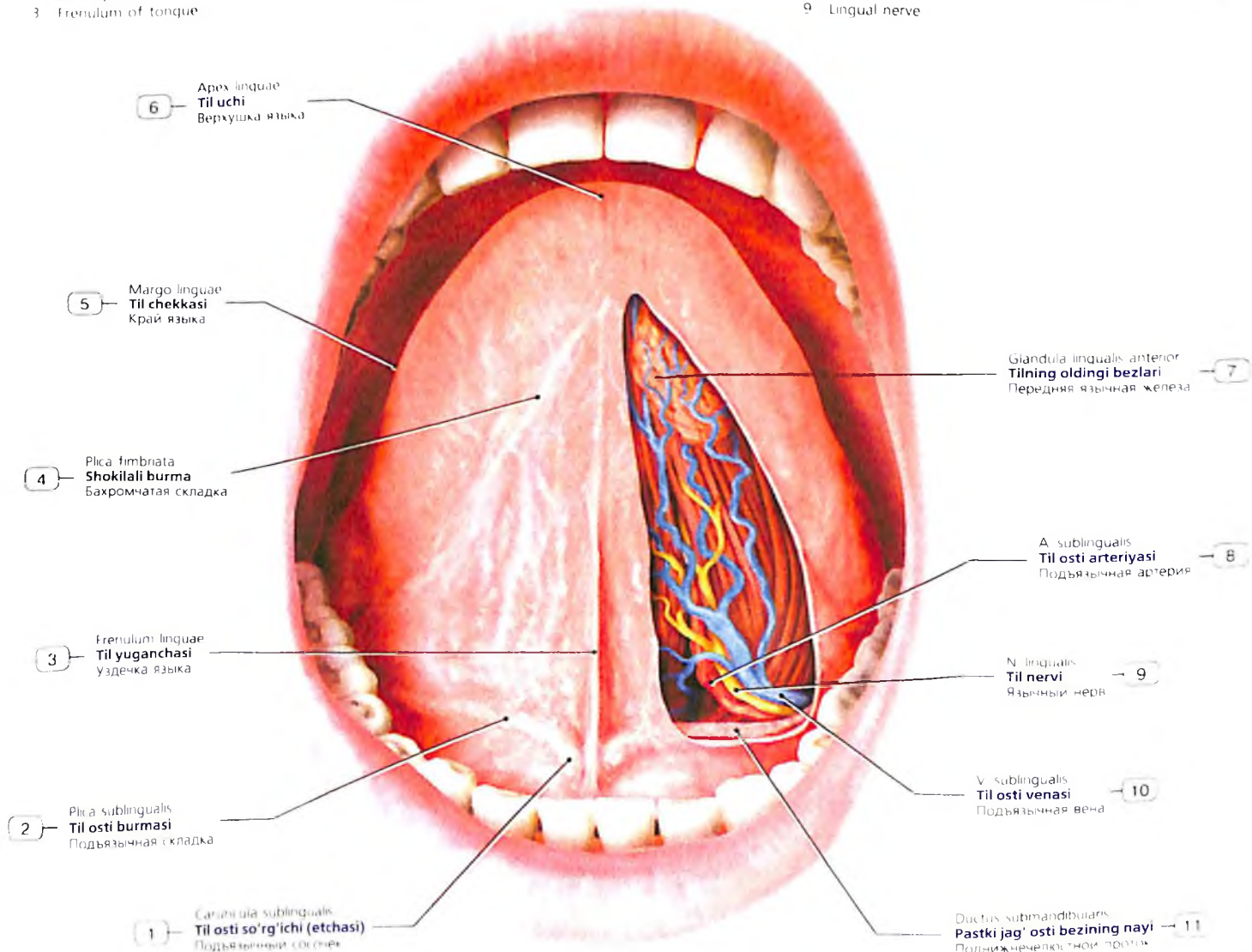


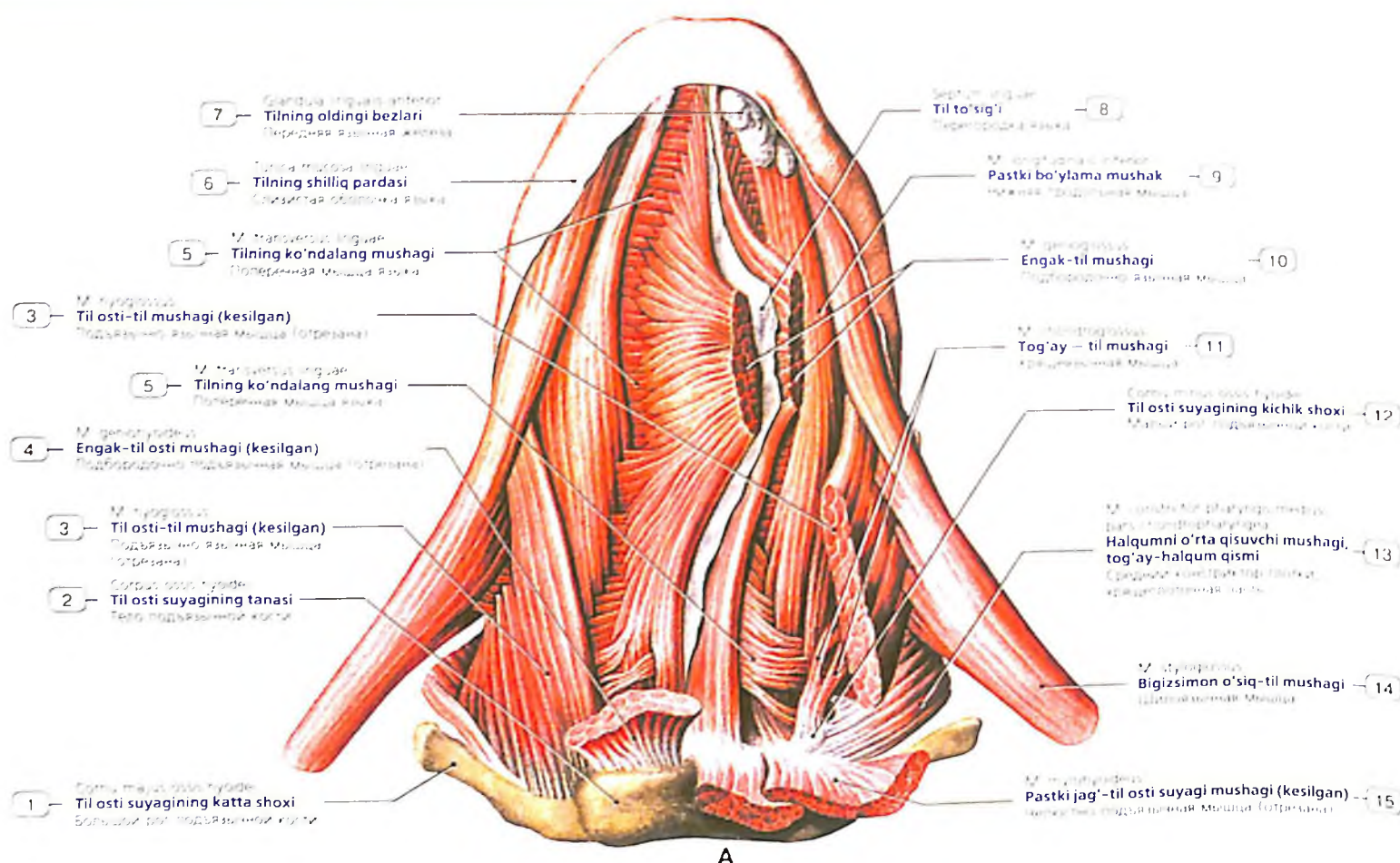
Rasm № 11. Til so'rg'ichlari, umumiy ko'rinishi. Рисунок № 11. Сосочки языка, общий вид.

- | | | | |
|-----------------------------|---------------------|----------------------|----------------------|
| 1 Filiform papillae | 3 Muscles of tongue | 5 Conice papillae | 7 Lentiform papillae |
| 2 Mucous membrane of tongue | 4 Vallate papillae | 6 Fungiform papillae | 8 Folate papillae |

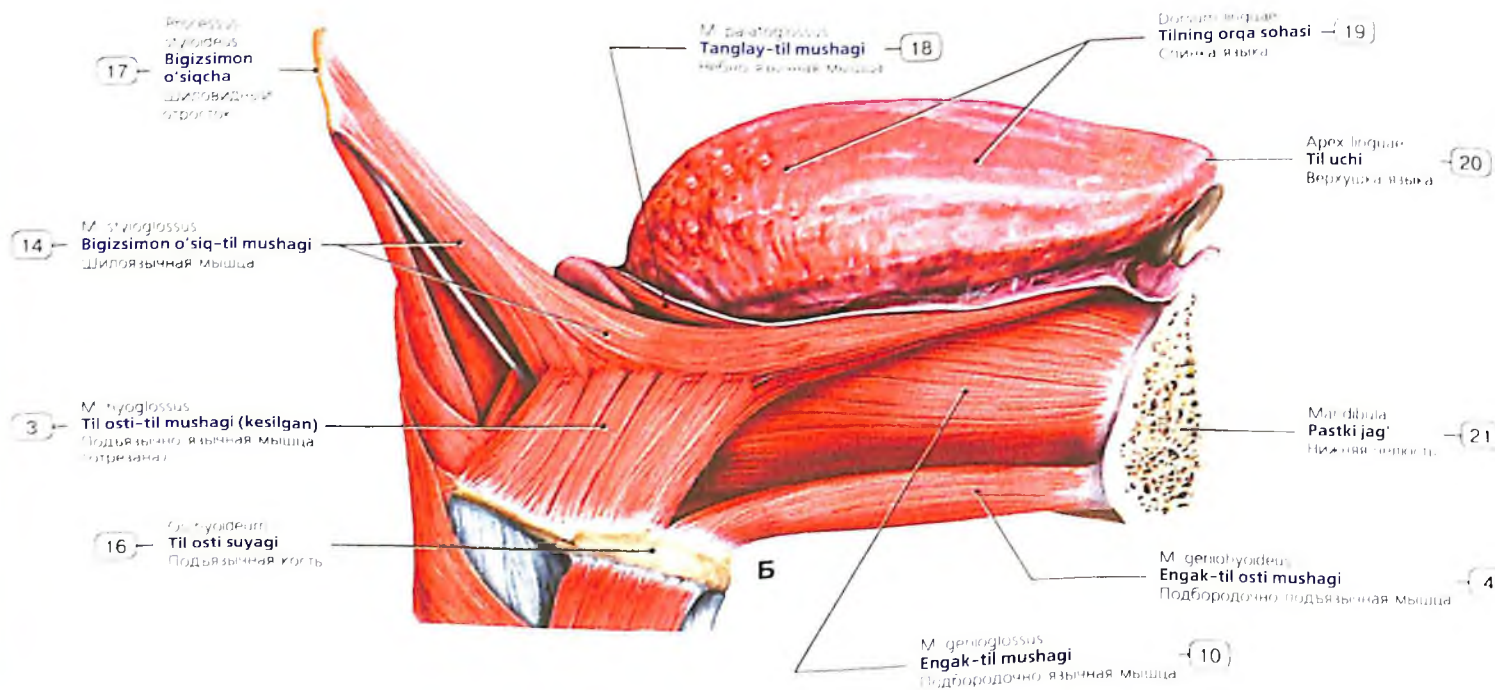
Rasm № 12. Tilning ostki yuzasi. Рисунок № 12. Нижняя поверхность языка.

- | | | | | |
|-----------------------|--------------------|---------------------------------|--------------------------|-----------------------|
| 1 Sublingual caruncle | 4 Fimbriated fold | 6 Apex of tongue, tip of tongue | 7 Anterior lingual gland | 10 Sublingual vein |
| 2 Sublingual fold | 5 Margin of tongue | | 8 Sublingual artery | 11 Submandibular duct |
| 3 Frenulum of tongue | | | 9 Lingual nerve | |





A



B

Rasm № 13. Til mushaklari (A – pastdan ko'rinishi; B – yon tomondan ko'rinishi).
Рисунок № 13. Мышцы языка (А – вид снизу; Б – вид сбоку).

1. Greater horn of hyoid bone
2. Body of hyoid bone
3. Hyoglossus
4. Geniohyoid
5. Transversus linguae

6. Mucous membrane of tongue
7. Anterior lingual gland
8. Lingual septum
9. Inferior longitudinal muscle

10. Genioglossus
11. Chondroglossus
12. Lesser horn of hyoid bone
13. Middle constrictor, chondropharyngeal part

14. Styloglossus
15. Mylohyoid
16. Hyoid bone
17. Styloid process
18. Palatoglossus

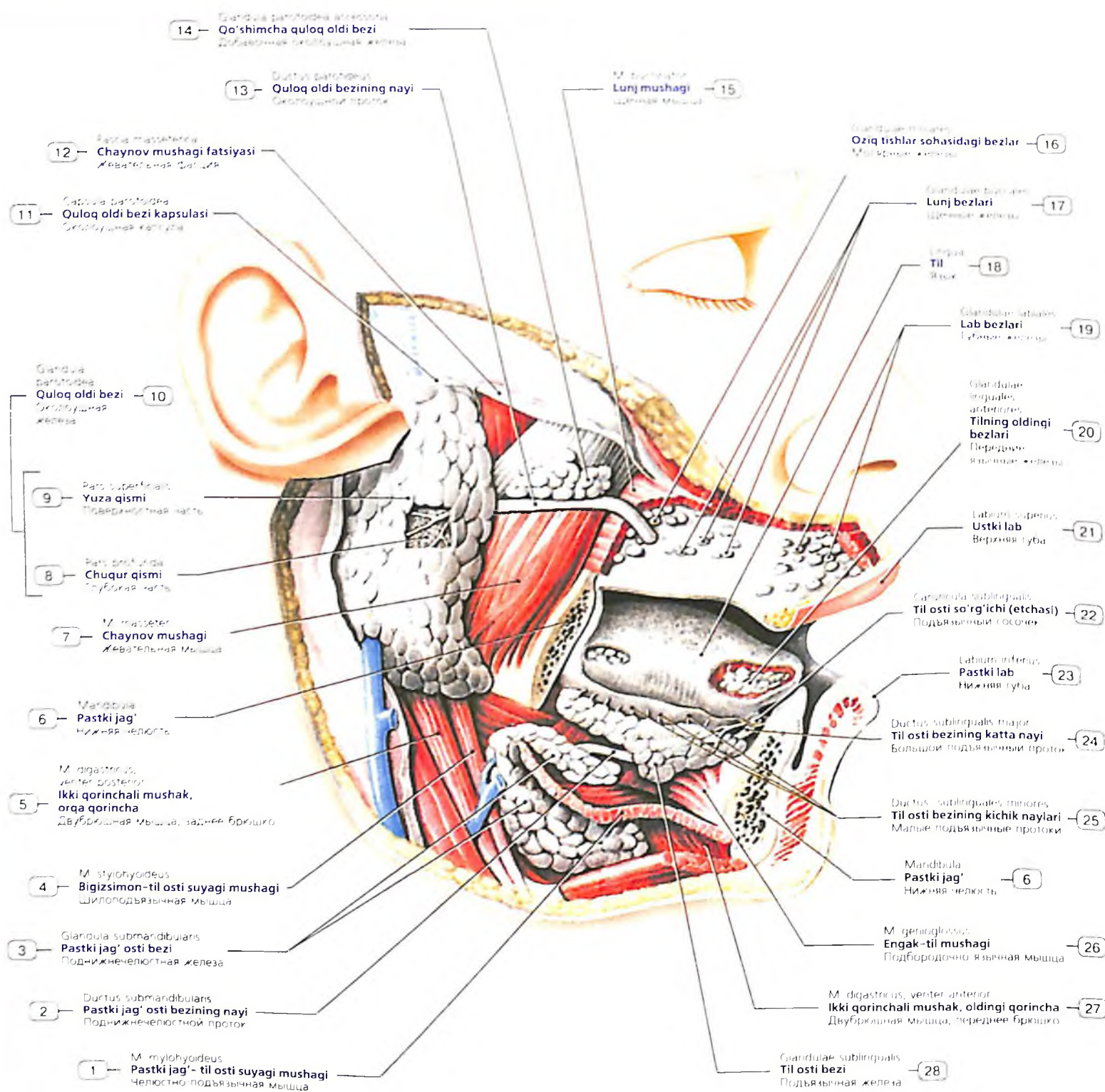
19. Dorsum of tongue
20. Apex of tongue
21. Mandible

3 – jadval. Tilning skelet mushaklari

Mushakning nomi	Boshlanish joyi	Birikish joyi	Mushak tolalarning yo'nalishi	Vazifasi
Iyak til osti mushagi	Pastki jag'ning engak qirrası	Til ildiziga birikadi	Orqaga va yuqoriga	Tilni oldinga va pastga tortadi
Til osti til mushagi	Til osti suyagining katta shoxi va tanasi	Til ildizi yon yuzasiga birikadi	Oldinga va yuqoriga	Til ildizini pastga va orqaga tortadi
Bigizsimon o'siq til mushagi	Chakka suyagining bigizsimon o'siq'i, bigiz-til osti boylami	Til ildizining yon yuzasiga birikadi	Oldinga, pastga va medial tomonga	Tilni orqaga va yuqoriga tortadi, bir tomonlama qisqarganda tilni yonga tortadi

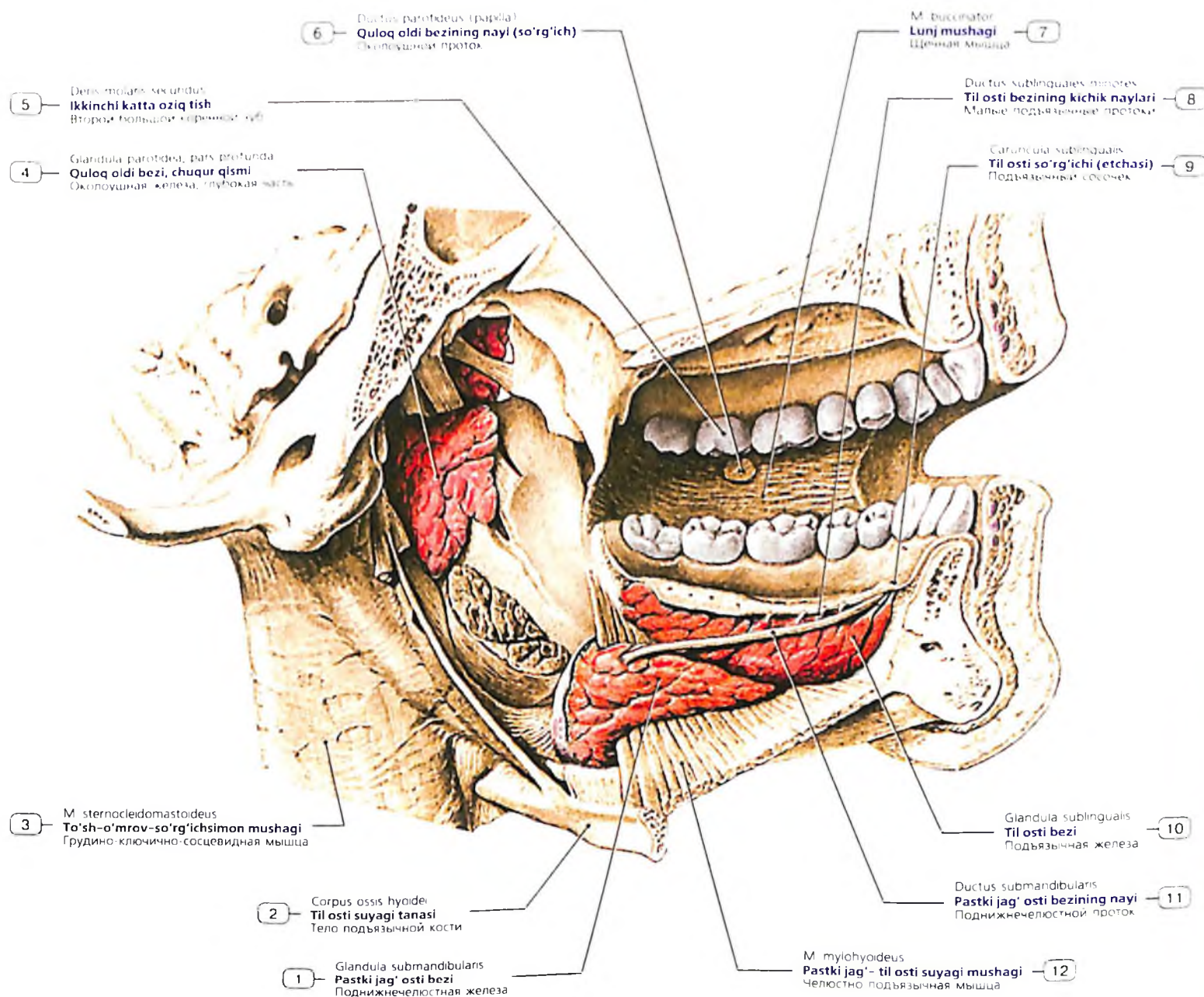
4 –jadval. Tilning xususiy mushaklari

Mushakning nomi	Boshlanish joyi	Birikish joyi	Mushak tolalarning yo'nalishi	Vazifasi
Yuqori baxlama mushak	Til ildizi, hıqildoq usti tog'ayining oldingi yuzasi, til osti kichik shoxlari	Tilning uchi	Tilning yuqori yuzasi va shilliq osti pardasiga birikadi	Tilni qisqartiradi, til uchini yuqoriga ko'taradi
Pastki bo'ylama mushak	Til ildizi	Tilning uchi	Tilning pastki yuzasidan til osti-til va engak-til osti mushaklarining orasida birikadi	Tilni qisqartiradi, til uchini pastga tortadi
Tilning ko'ndalang mushagi	Til to'sig'i	Tilning o'ng va chap yon yuzalari shilliq qavatiga	Ko'ndalangiga tilning yon qirgog'lariga tomon yo'nalgan	Tilning ko'ndalang o'lchamlarini kichraytiradi
Tilning vertikal mushagi			Tilning yuqori va pastki yuzalari oralig'ida tortilgan	Tilni yassilashtiradi



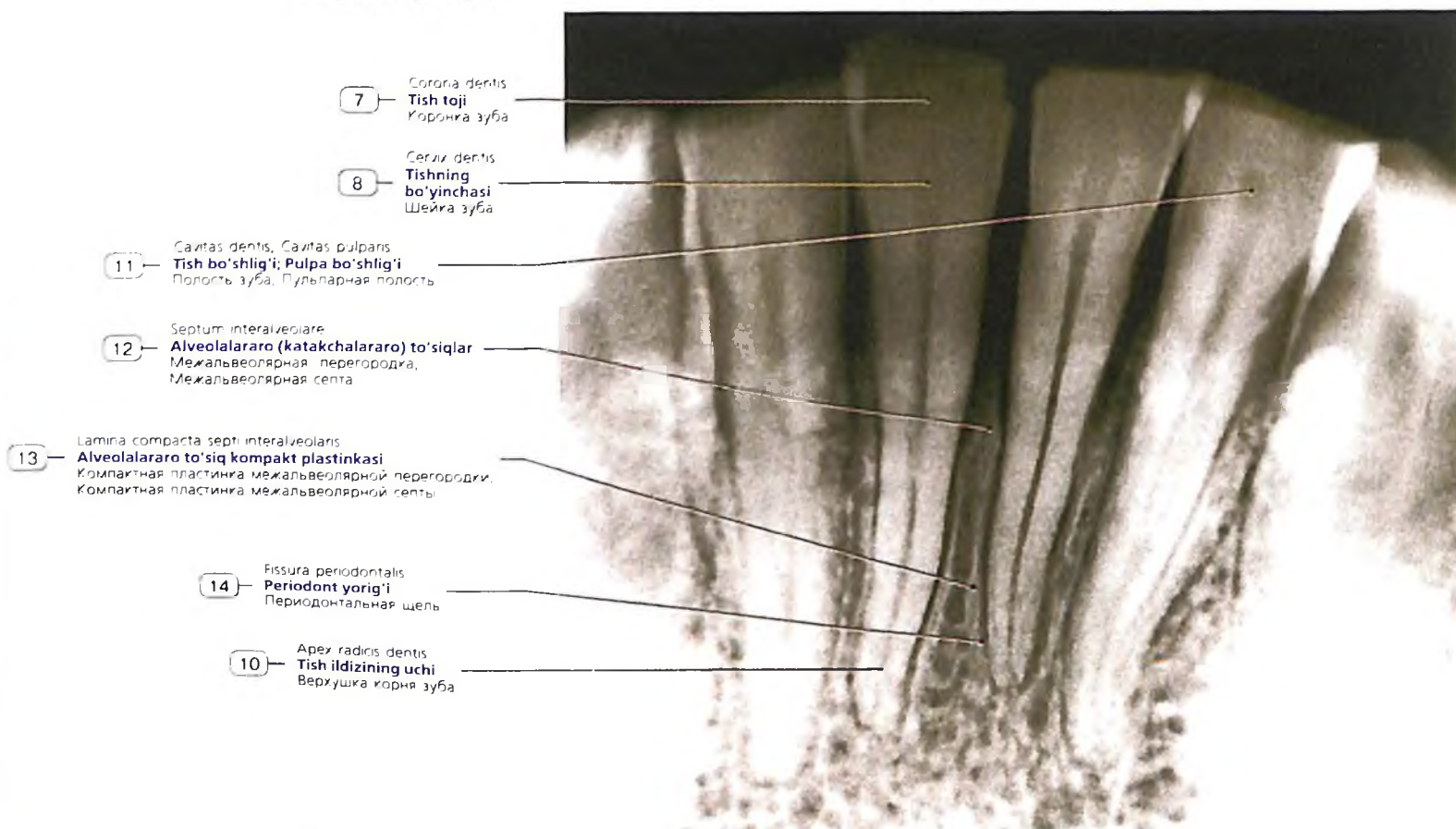
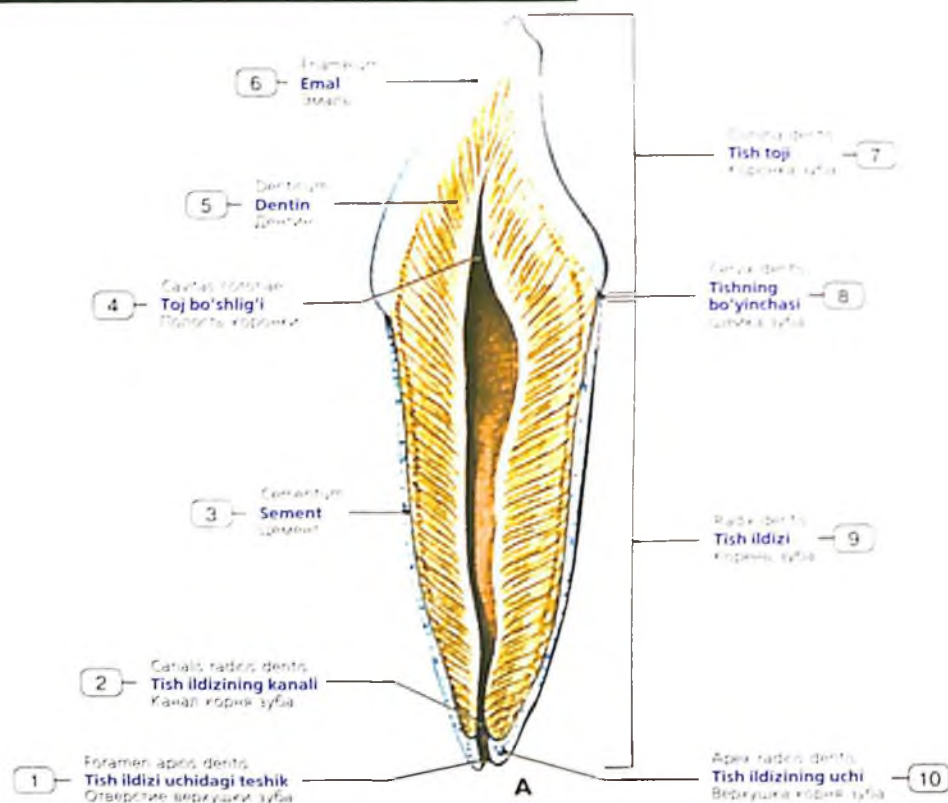
Rasm № 14. Katta so'lak bezlari, yon tomondan ko'rinishi
Рисунок № 14. Большие слюнные железы, вид сбоку.

- | | | | |
|-------------------------------|-----------------------------|-----------------------------|-------------------------------|
| 1. Mylohyoid | 8. Deep part | 15. Buccinator | 22. Sublingual caruncle |
| 2. Submandibular duct | 9. Superficial part | 16. Molar glands | 23. Lower lip |
| 3. Submandibular gland | 10. = 8+9 Parotid gland | 17. Buccal glands | 24. Major sublingual duct |
| 4. Stylohyoid | 11. Parotid capsule | 18. Tongue | 25. Minor sublingual ducts |
| 5. Digastric, posterior belly | 12. Masseteric fascia | 19. Labial glands | 26. Genioglossus |
| 6. Mandible | 13. Parotid duct | 20. Anterior lingual glands | 27. Digastric, anterior belly |
| 7. Masseter | 14. Accessory parotid gland | 21. Upper lip | 28. Sublingual gland |



Rasm № 15. So'lak bezlari, ichki ko'rinishi. Рисунок № 15. Слюнные железы, вид изнутри.

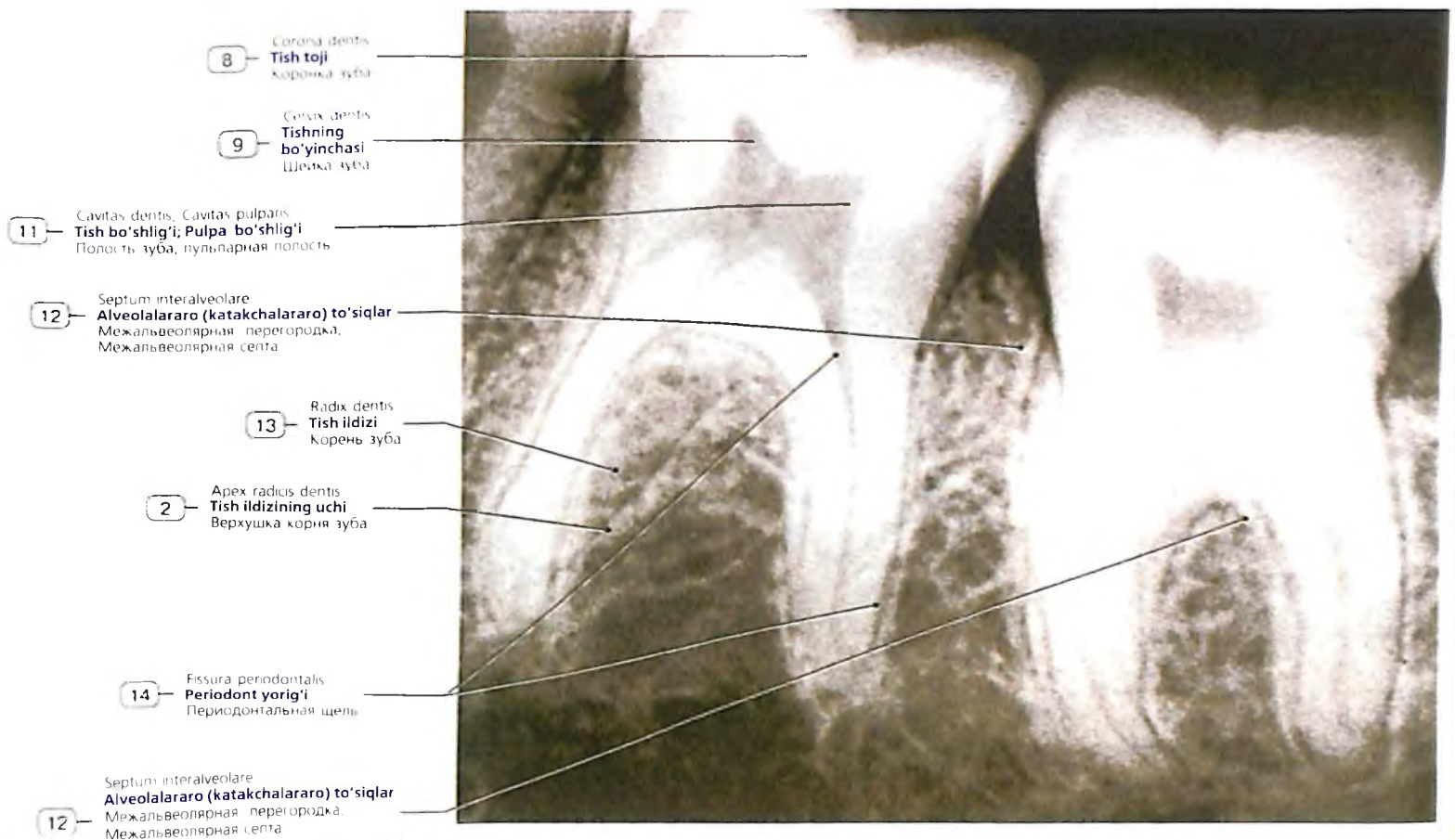
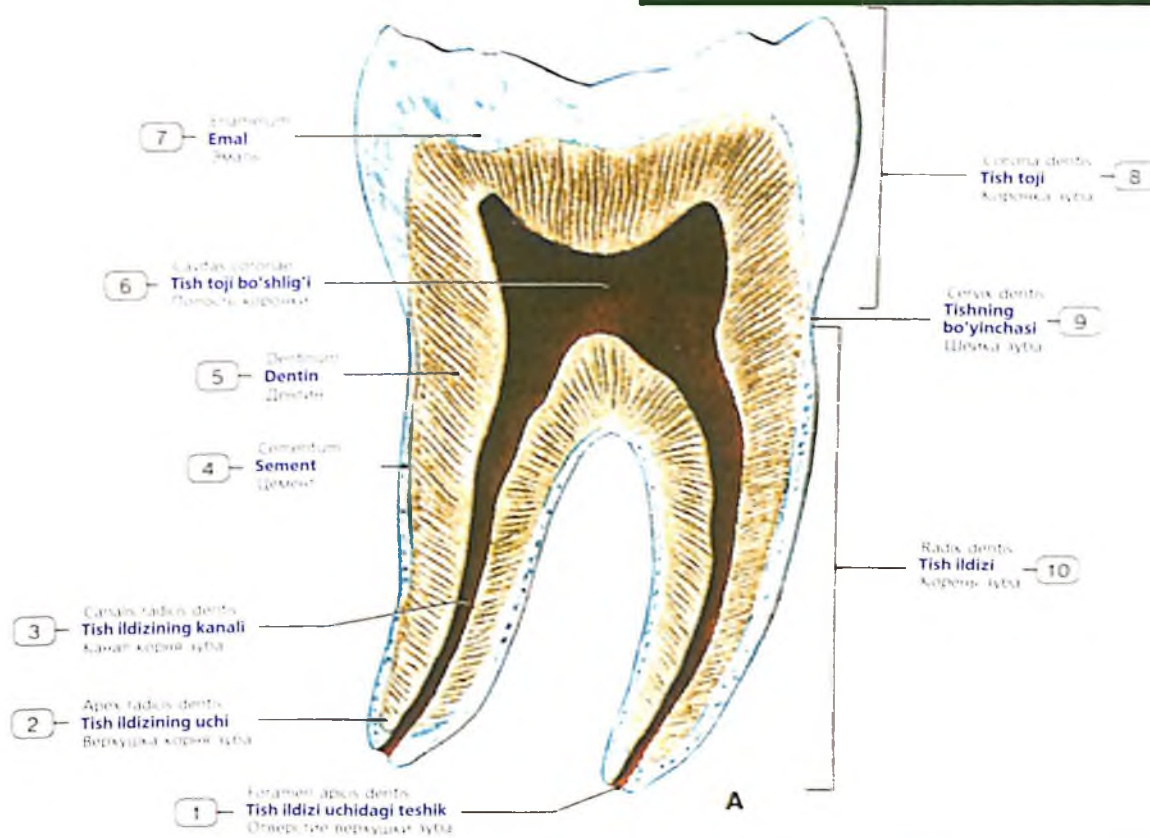
- | | | | |
|-----------------------|----------------------------|--------------------------|-----------------------|
| 1 Submandibular gland | 4 Parotid gland, deep part | 7 Buccinator | 10 Sublingual gland |
| 2 Body of hyoid bone | 5 Second molar tooth | 8 Minor sublingual ducts | 11 Submandibular duct |
| 3 Sternocleidomastoid | 6 Parotid duct (papilla) | 9 Sublingual caruncle | 12 Mylohyoid |



Rasm № 16. Bir ildizli tish [A – tuzilishi; B – pastki jag' kesuvchi tishlari og'iz ichi kontaktli rentgenogrammasi (S.K. Ternov bo'yicha)].

Рисунок № 16. Однокорневой зуб [A – строение; B – внутриротовая контактная рентгенограмма резцов нижней челюсти (по С.К. Терновому)].

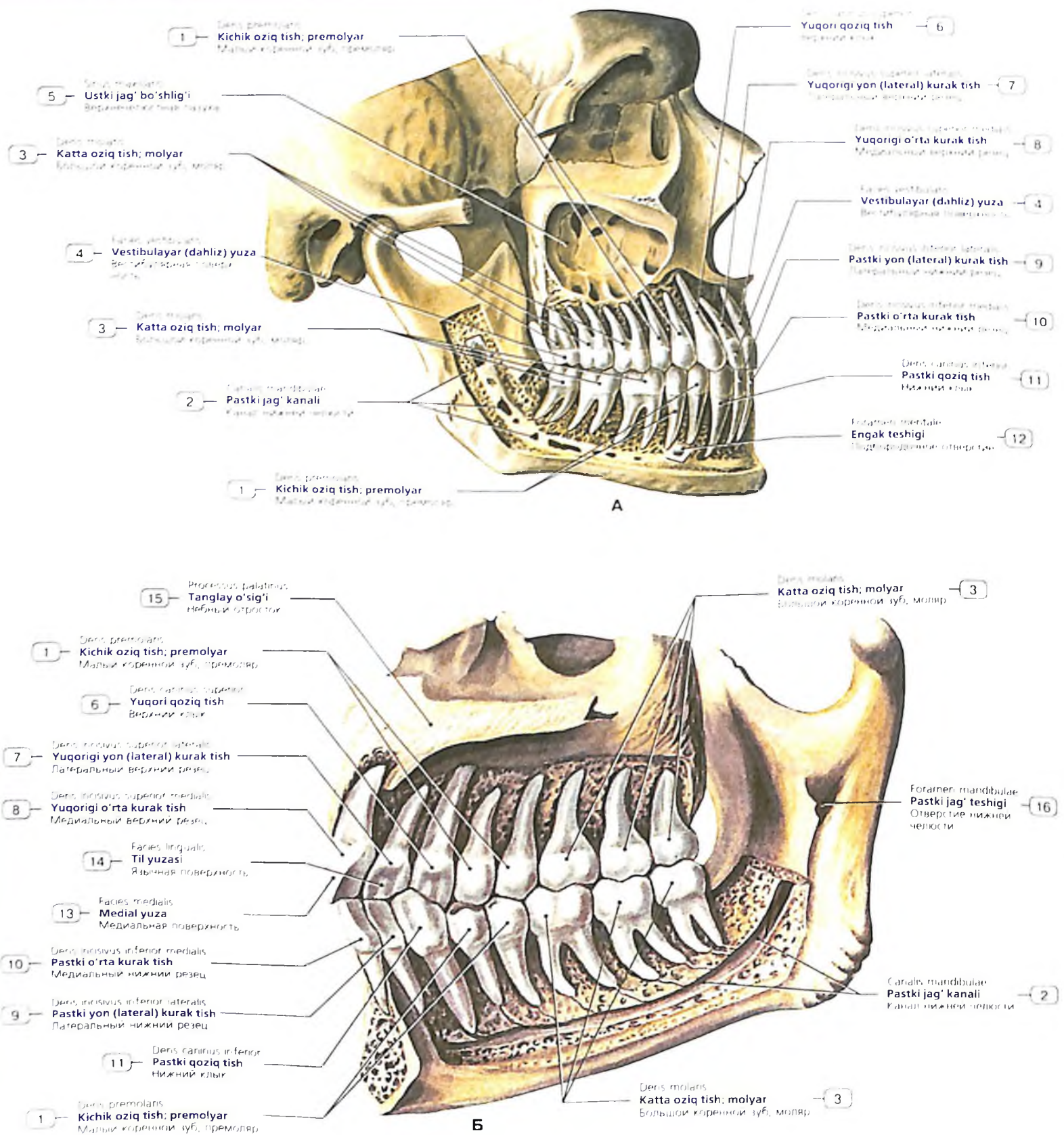
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|--------------------------|----------------------------------|-------------------------|--|
| 1 Apical foramen | 5 Dentine | 9 Root of tooth | 13 Compact plate of interalveolar septum |
| 2 Root canal; Pulp canal | 6 Enamel | 10 Root apex of tooth | 14 Periodontal fissure |
| 3 Cement | 7 Crown of tooth | 11 Pulp cavity | |
| 4 Pulp cavity of crown | 8 Neck of tooth, Cervix of tooth | 12 Interalveolar septum | |



Rasm № 17. Ko'p ildizli tish [A – tuzilishi; B – pastki jag' oziq tishlari og'iz ichi kontaktli rentgenogrammasi (S.K. Ternov bo'yicha)].

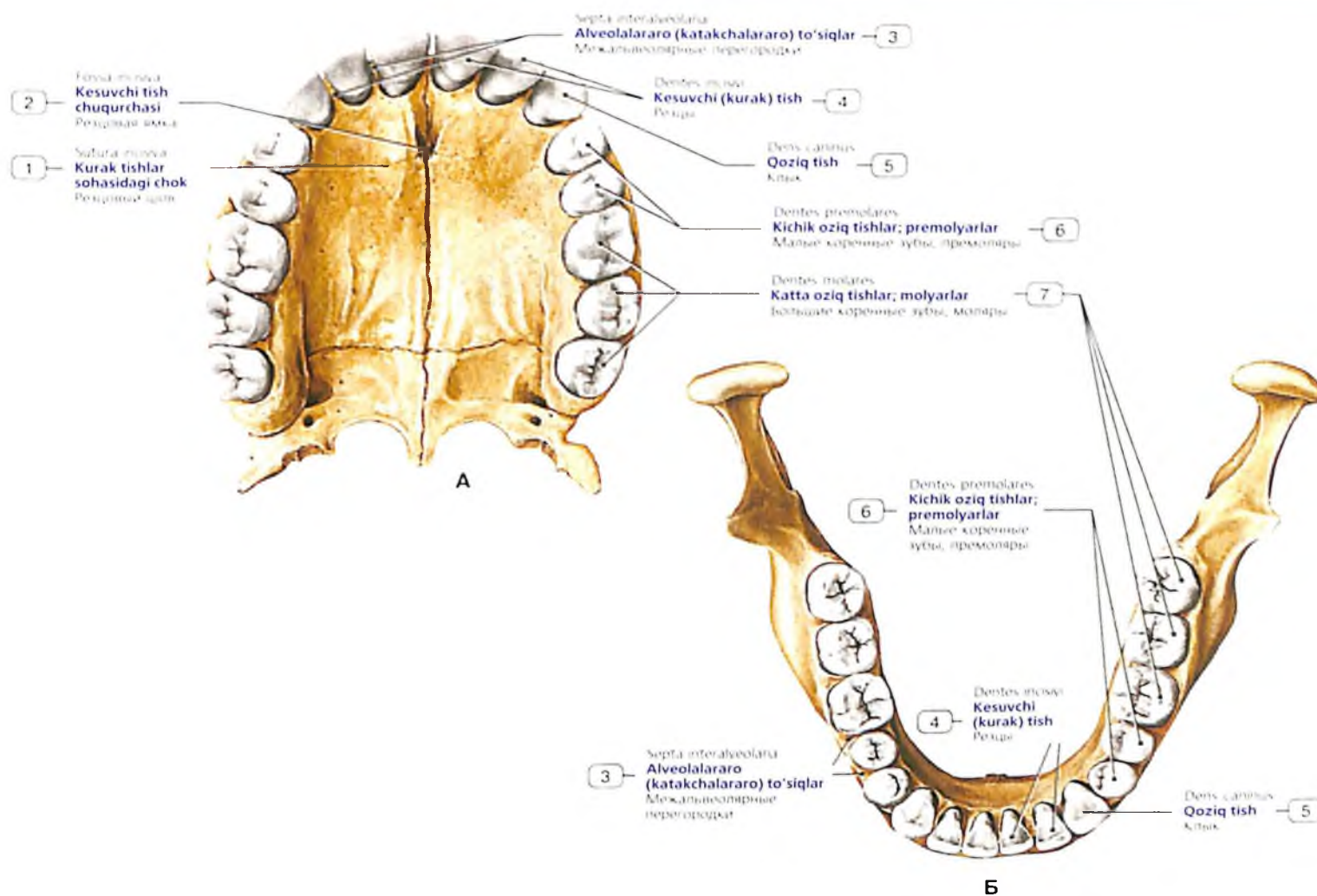
Рисунок № 17. Многокорневой зуб [A – строение; Б – внутриротовая контактная рентгенограмма больших коренных зубов нижней челюсти (по С.К. Терновому)].

- | | | | | |
|---------------------------|-------------------------|-------------------|-------------------|------------------------|
| 1. Apical foramen | 4. Cement | 7. Enamel | 10. Root of tooth | 12. Interdental septum |
| 2. Root apex of tooth | 5. Dentine | 8. Crown of tooth | 11. Pulp cavity | 13. Root of tooth |
| 3. Root canal, Pulp canal | 6. Pulp cavity of crown | 9. Neck of tooth | | |

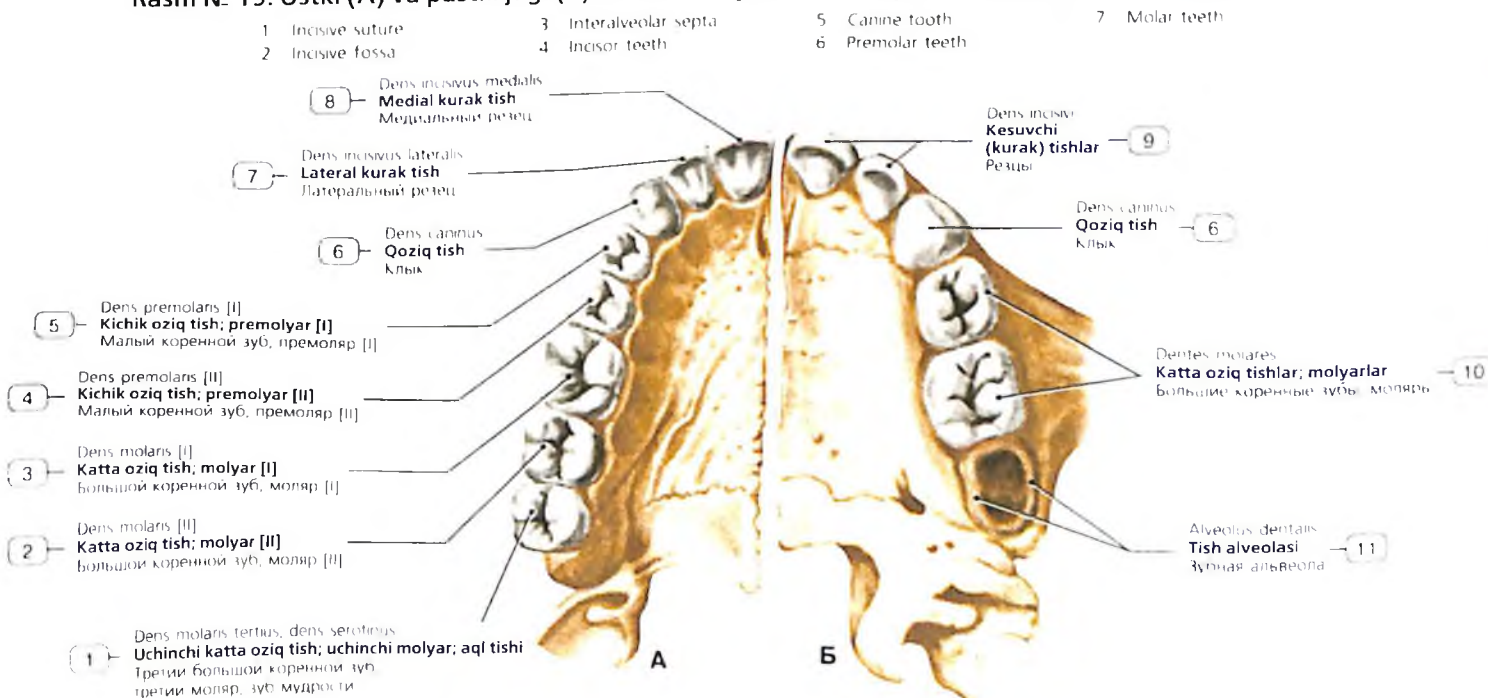


Rasm № 18. Tishlar (A – o'ng tomondan ko'rinishi; B – ichkaridan ko'rinishi).
Рисунок № 18. Зубы (A – вид справа; B – вид изнутри).

- | | | | |
|-----------------------|-----------------------------------|-----------------------------------|------------------------|
| 1. Incisor (tooth) | 5. Maxillary sinus | 9. Lateral inferior incisor tooth | 13. Medial surface |
| 2. Mandibular canal | 6. Superior canine tooth | 10. Medial inferior incisor tooth | 14. Lingual surface |
| 3. Molar tooth | 7. Lateral superior incisor tooth | 11. Inferior canine tooth | 15. Palatine process |
| 4. Vestibular surface | 8. Medial superior incisor tooth | 12. Mental foramen | 16. Mandibular foramen |

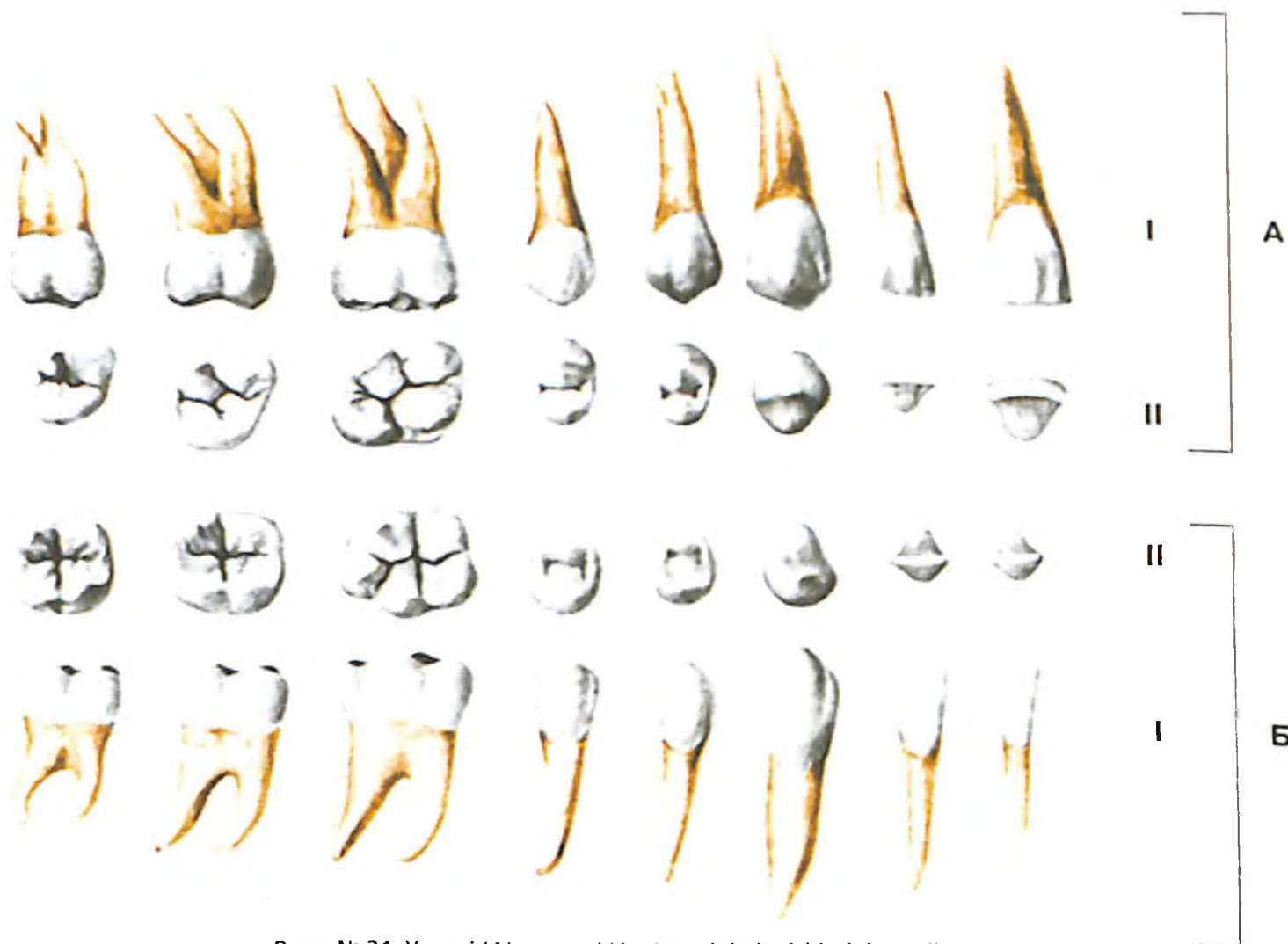


Rasm № 19. Ustki (A) va pastki jag' (B) tishlari. Рисунок № 19. Зубы верхней (А) и нижней (Б) челюстей.



Rasm № 20. Ustki jag' tishlari [A - doimiy tishlar; B - 4 yoshli bolaning (almashinuvchi) sut tishlari]. Рисунок № 20. Зубы верхней челюсти [А - постоянные зубы; Б - молочные (сменные) зубы ребенка 4 лет].

- | | | | |
|---------------------|-----------------------|-------------------------|-----------------|
| 1 Third molar tooth | 3 Molar tooth [I] | 6 Canine tooth | 9 Incisor teeth |
| 2 Wisdom tooth | 4 Premolar tooth [II] | 7 Lateral incisor tooth | 10 Molar teeth |
| 3 Molar tooth [III] | 5 Premolar tooth [I] | 8 Medial incisor tooth | 11 Tooth socket |



Rasm № 21. Yuqori (A) va pastki jagʻ (B) doimiy tishlarining toji va ildizi:
I – vestibulyar (dahliz) yuza, II – okklyuzion yuza.
Рисунок № 21. Коронка и корни постоянных зубов верхней (А) и нижней челюстей (Б):
I – вестибулярная поверхность, II – окклюзионная поверхность.

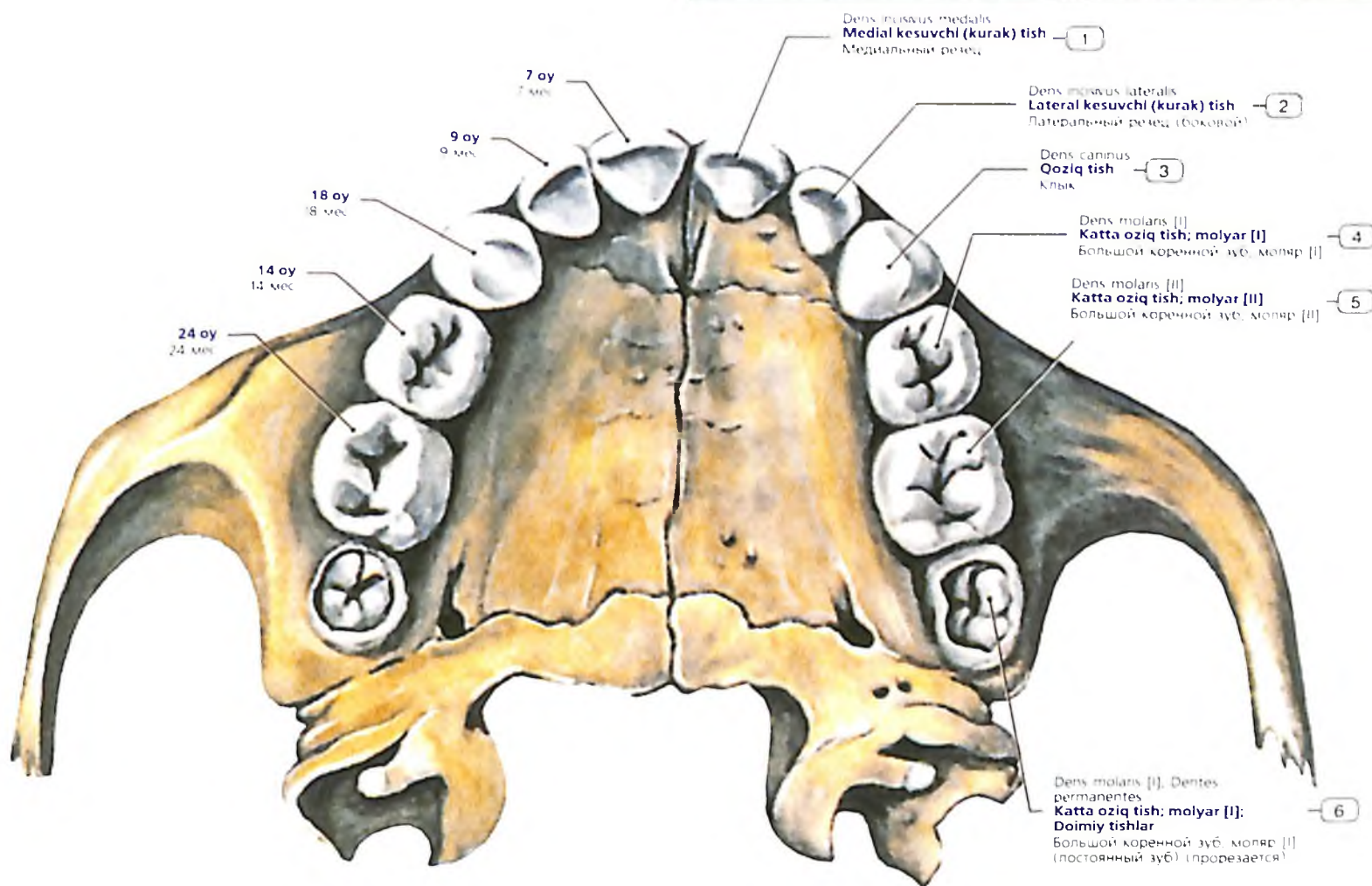


Rasm № 22. Yuqori (A) va pastki jagʻ (B) sut tishlarining toji va ildizi:
I – vestibulyar (dahliz) yuza, II – okklyuzion yuza

* – Anʼanaviy tish formulasini yozish uchun raqamli belgilar.

Рисунок № 22. Коронка и корни молочного зубов верхней (А) и нижней челюстей (Б):
I – вестибулярная поверхность, II – окклюзионная поверхность

* – цифровые обозначения для написания традиционной стоматологической формулы зубов.

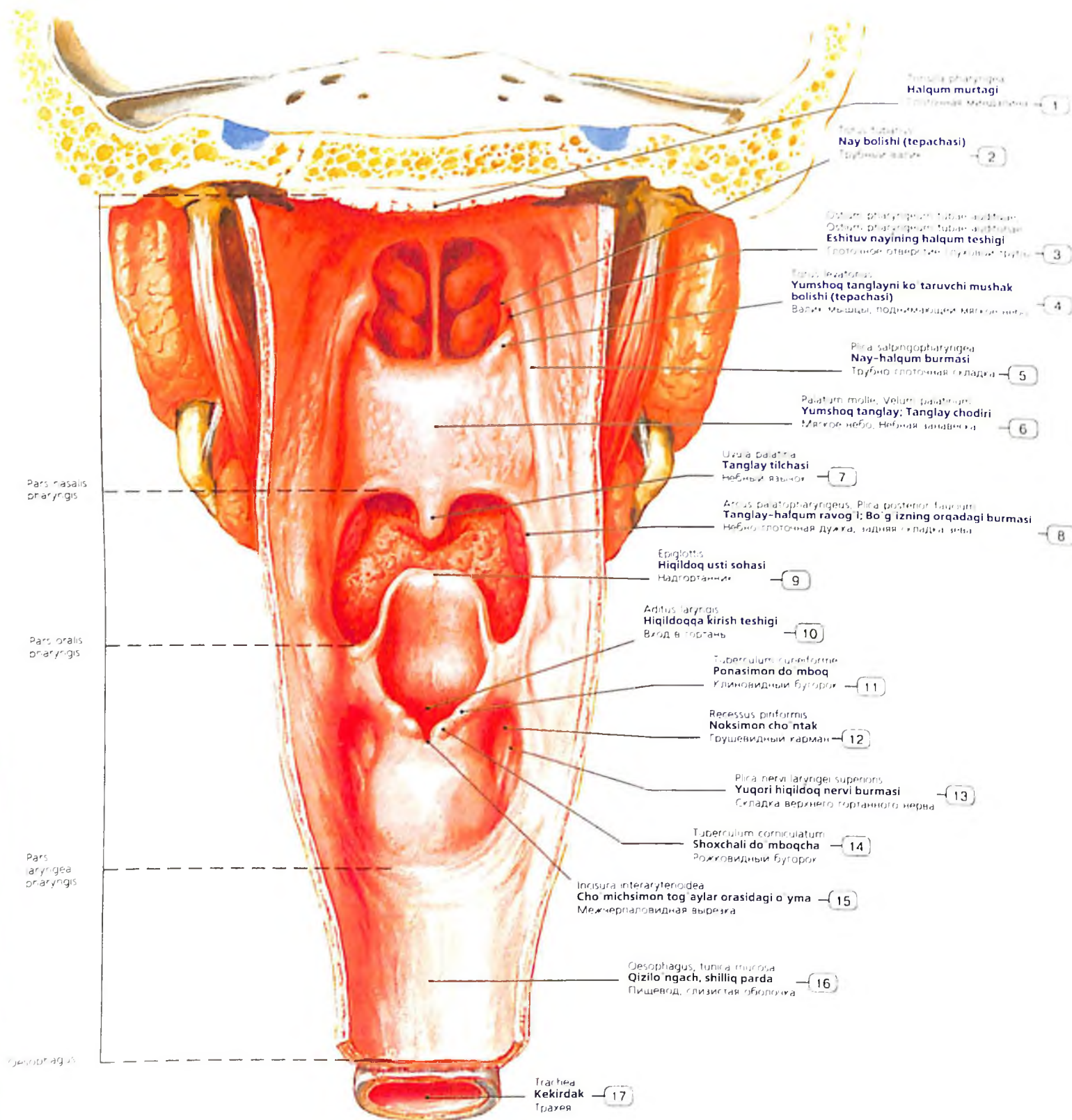


Rasm № 23. Sut tishlarining almashinuv muddatlari. Рисунок № 23. Сроки смены молочных зубов.

- | | | |
|-------------------------|-------------------|--------------------|
| 1 Medial incisor tooth | 3 Canine tooth | 5 Molar tooth [II] |
| 2 Lateral incisor tooth | 4 Molar tooth [I] | 6 Molar tooth [I] |

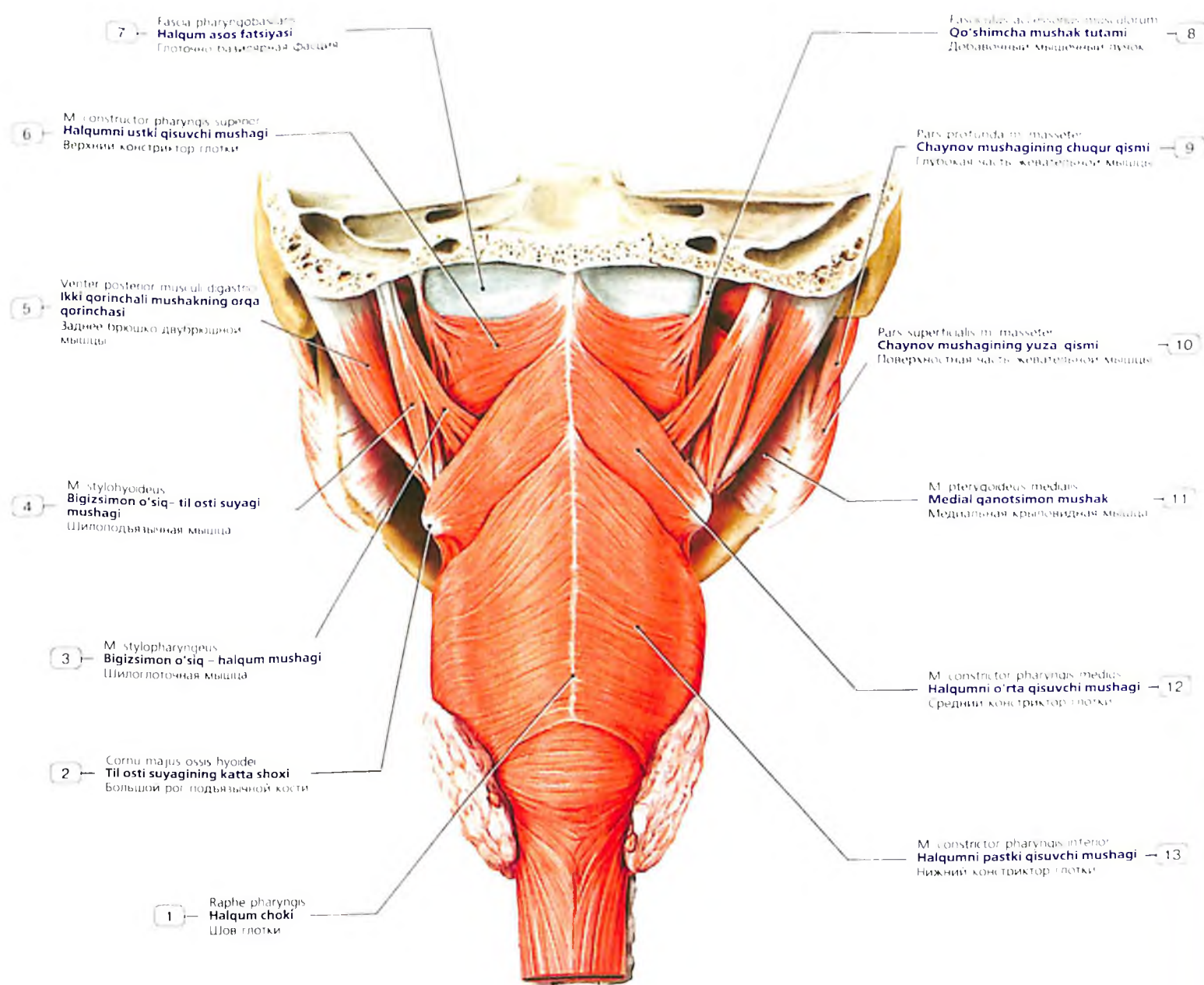
5 - jadval . Sut va doimiy tishlarning yorib chiqish vaqtlari

Tishlarning nomi	yorib chiqishi yoshi, vaqti		
	sut tishlari, oy	sut tishlari, kodi	doimiy tishlar, yil
Pastki medial kesuvchi tishlar	6-8	BI	7-8
Yuqori medial kesuvchi tishlar	7-9	AI	7-8
Pastki lateral kesuvchi tishlar	7-9	BII	9-10
Yuqori lateral kesuvchi tishlar	8-10	AII	9-10
Qoziq tishlar	15-20	AIII, BIII	11-12
Birinchii kichik oziq tishlar	-		9-10
Ikkinchi kichik oziq tishlar	-		9-11
Pastki birinchi katta oziq tishlar	12-16	BIV	6-7
Yuqori birinchi katta oziq tishlar	16-21	AIV	7-7,5
Ikkinchi katta oziq tishlar	21-30	AV, BV	11-12
Uchinchi katta oziq tishlar	-		16-24



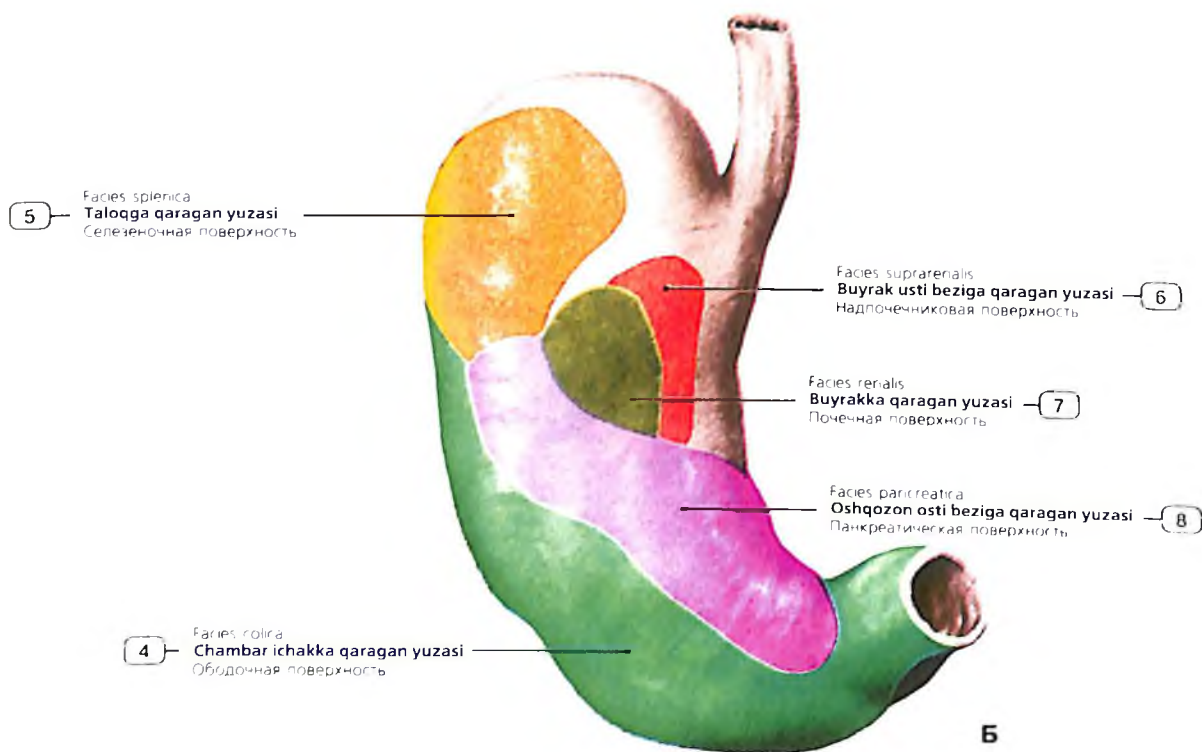
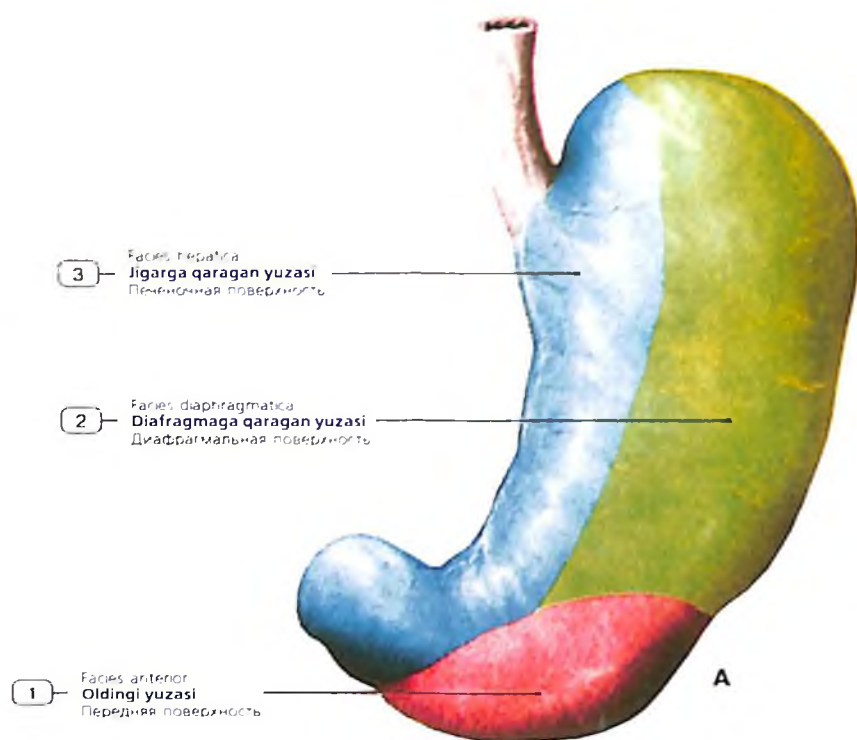
Rasm № 24. Halqum qismlari. Orqa devori ochilgan.
Рисунок № 24. Части глотки. Задняя стенка вскрыта.

- | | | | | |
|----------------------------|--|-------------------------------------|--------------------------------------|---|
| 1. Pars nasalis pharyngis | 5. Salpingopharyngeal fold | 9. Epiglottis | 13. Fold of superior laryngeal nerve | 16. Oesophagus, mucosa, mucous membrane |
| 2. Pars oralis pharyngis | 6. Soft palate | 10. Laryngeal inlet | 14. Corniculate tubercle | 17. Trachea |
| 3. Pars laryngea pharyngis | 7. Uvula | 11. Corniciform tubercle | 15. Palatine process | |
| 4. Velum palatinum | 8. Palatopharyngeal arch, Posterior pillar of fauces | 12. Piriform fossa, Piriform recess | | |



Rasm № 25. Halqum mushaklari, orqadan ko'rinishi.
Рисунок № 25. Мышцы глотки, вид сзади.

- | | | | | |
|------------------------------|--------------------------------|--------------------------------|---------------------------------|-------------------------|
| 1 Pharyngeal raphe | 4 Stylohyoid | 7 Pharyngobasilar fascia | 10 Superficial part of masseter | 13 Inferior constrictor |
| 2 Greater horn of hyoid bone | 5 Posterior belly of digastric | 8 Accessory muscles of pharynx | 11 Medial pterygoid | |
| 3 Stylopharyngeus | 6 Superior constrictor | 9 Deep part of masseter | 12 Middle constrictor | |



Rasm № 26. Oshqozon sintopiyasi. (A) oldindan ko'rinishi va (B) orqadan ko'rinishi.
Рисунок № 26. Синтопия желудка. Вид спереди (A) и сзади (B).

1 Anterior surface

2 Diaphragmatic surface

3 Hepatic surface

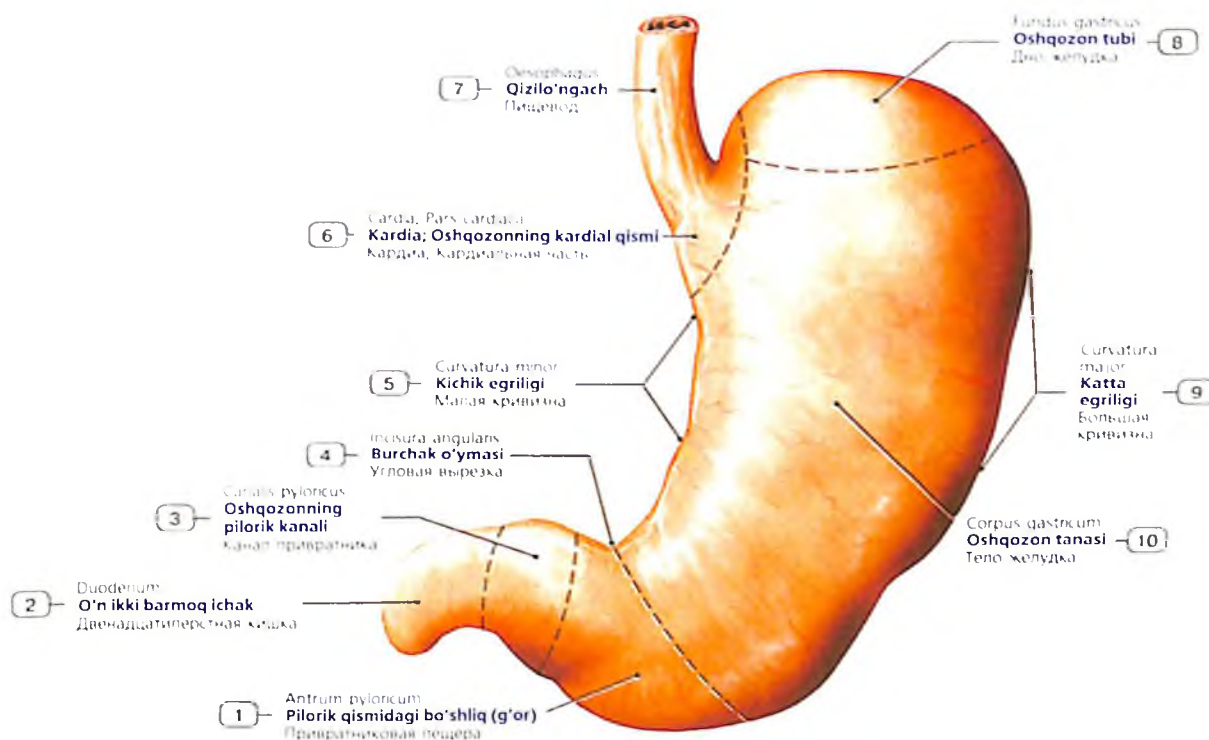
4 Colic surface

5 Splenic surface

6 Suprarenal surface

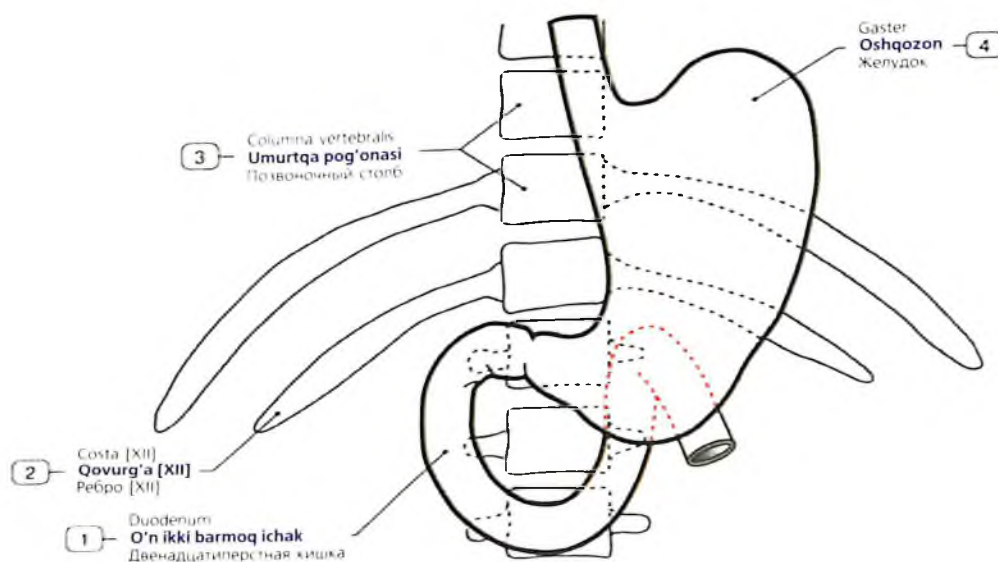
7 Renal surface

8 Pancreatic surface



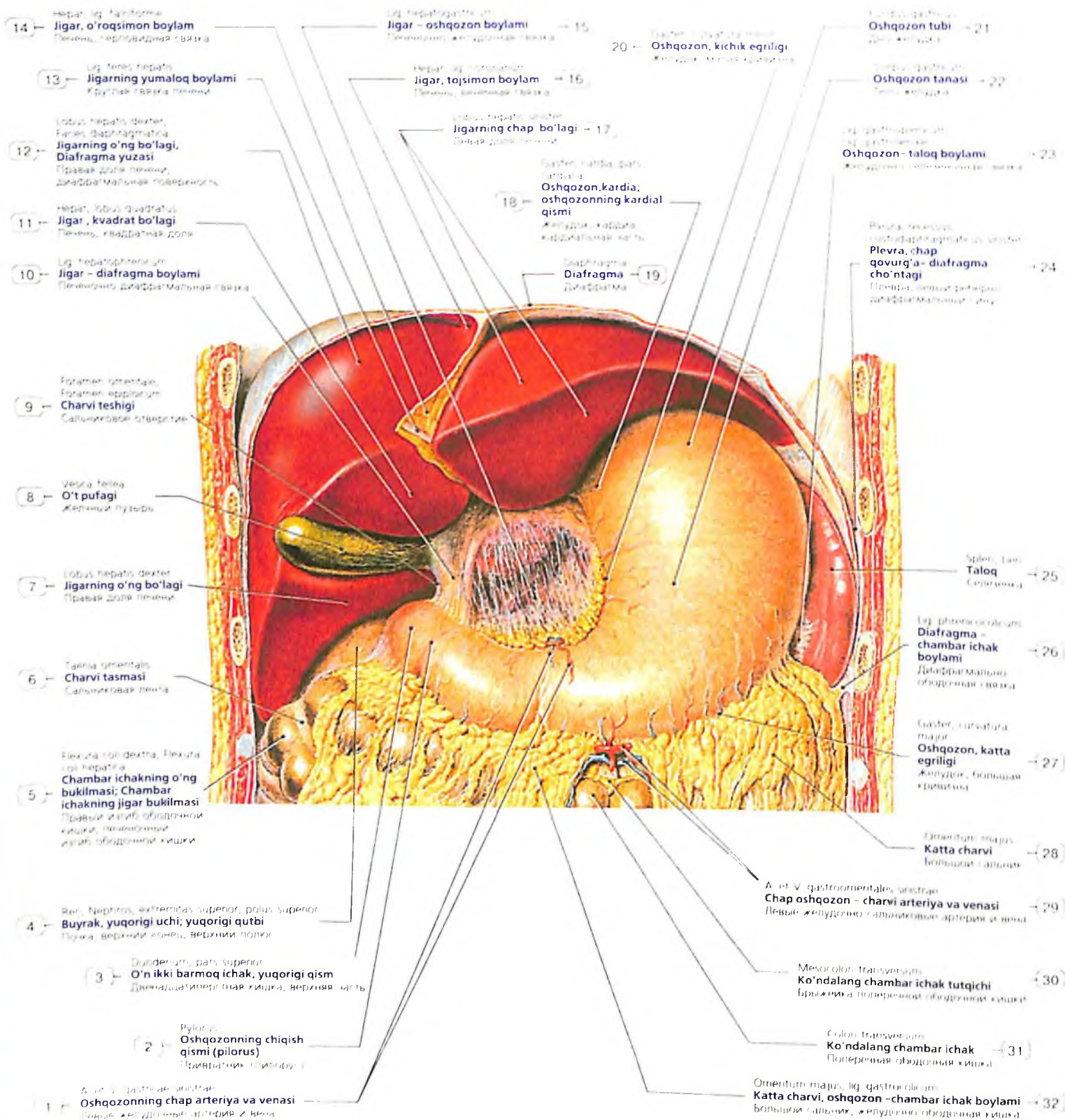
Rasm № 27. Oshqozon qismlari, oldindan ko'rinishi.
Рисунок № 27. Отделы желудка, вид спереди.

- | | | | |
|------------------|------------------------|---------------------|--------------------|
| 1 Pyloric antrum | 4 Angular incisure | 7 Oesophagus | 10 Body of stomach |
| 2 Duodenum | 5 Lesser curvature | 8 Fundus of stomach | |
| 3 Pyloric canal | 6 Cardia, Cardial part | 9 Greater curvature | |

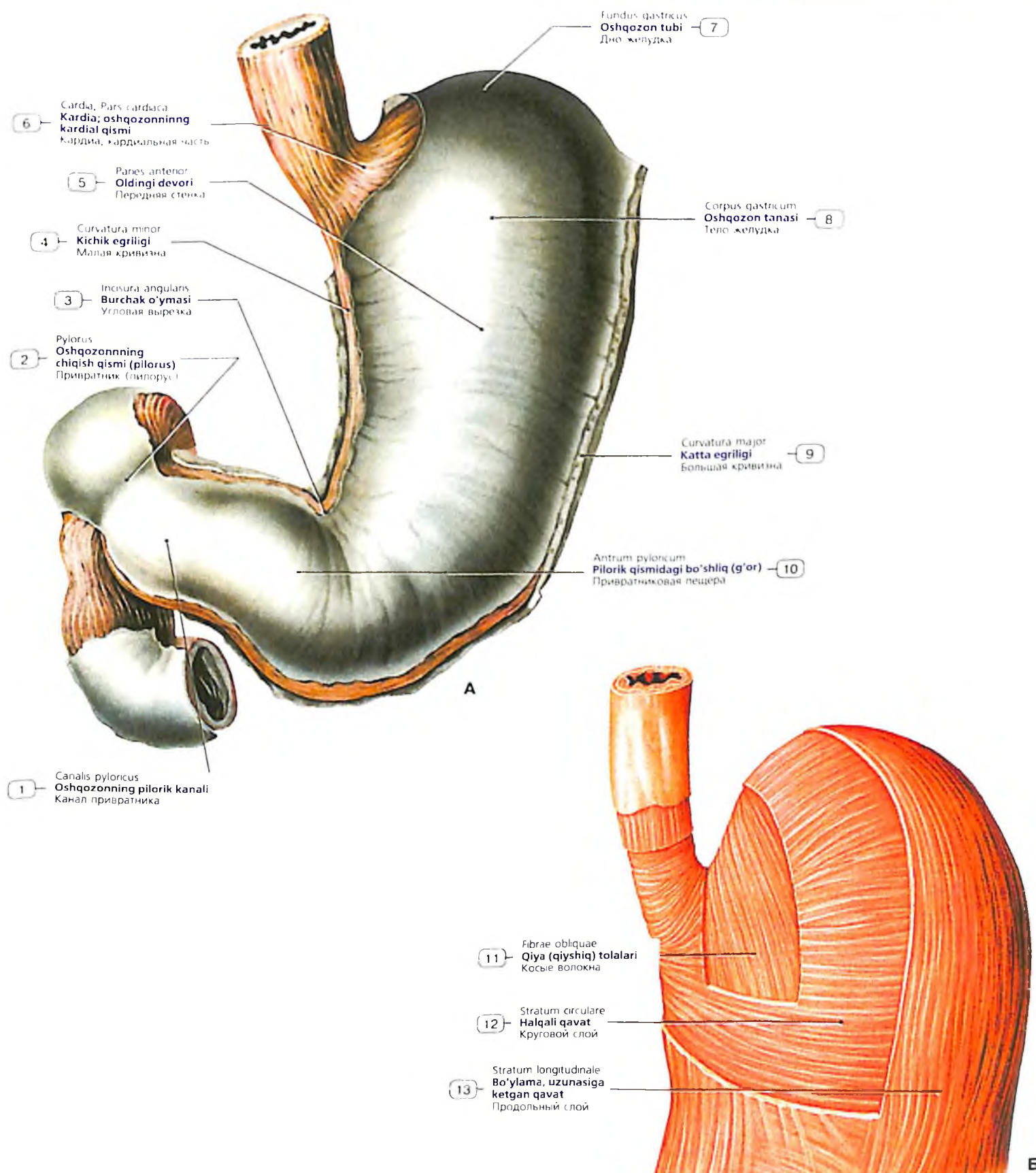


Rasm № 28. Oshqozon skeletotopiyasi.
Рисунок № 28. Скелетотопия желудка.

- | | | | |
|------------|-------------|--------------------|-----------|
| 1 Duodenum | 2 Rib [XII] | 3 Vertebral column | 4 Stomach |
|------------|-------------|--------------------|-----------|

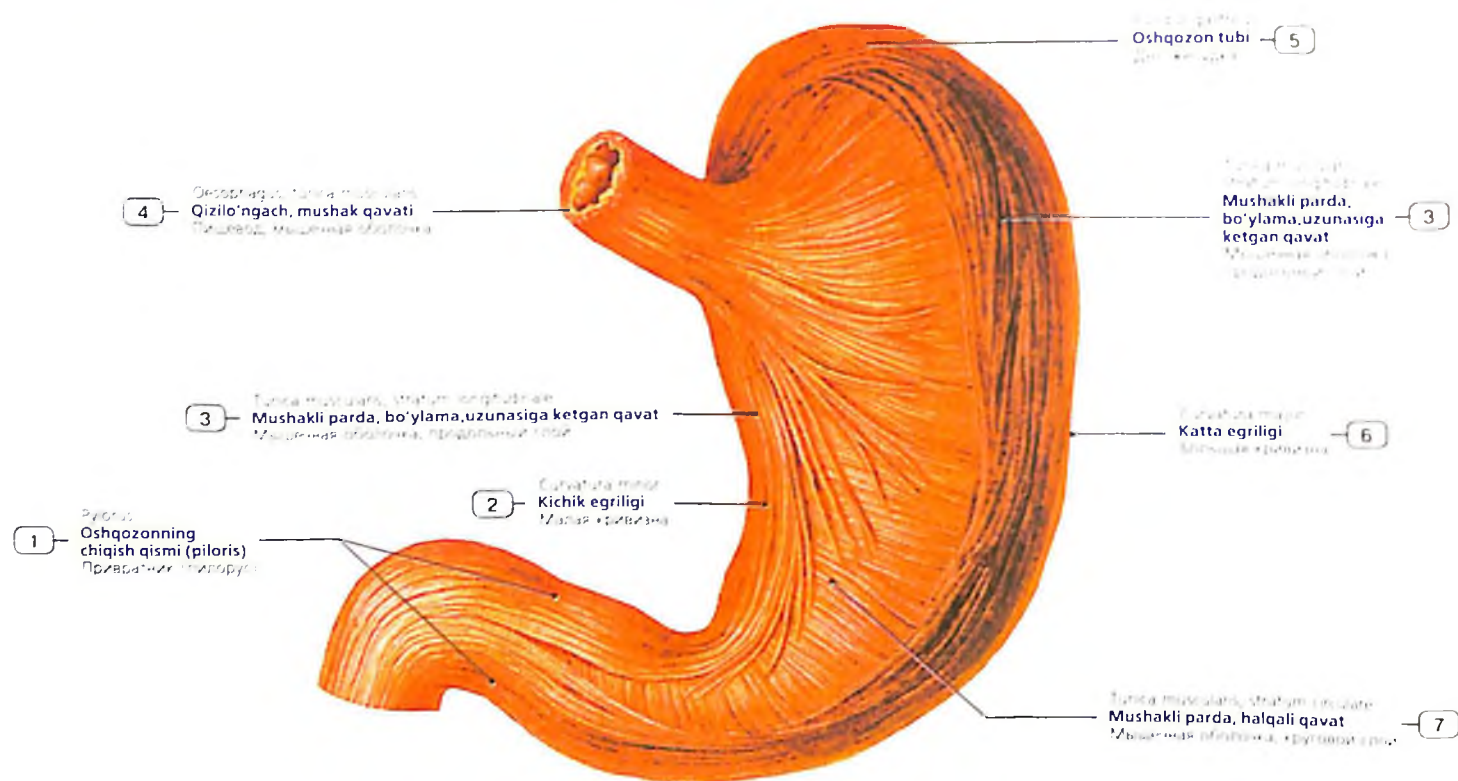


Rasm № 29. Oshqozon topografiyasi.
Рисунок № 29. Топография желудка.

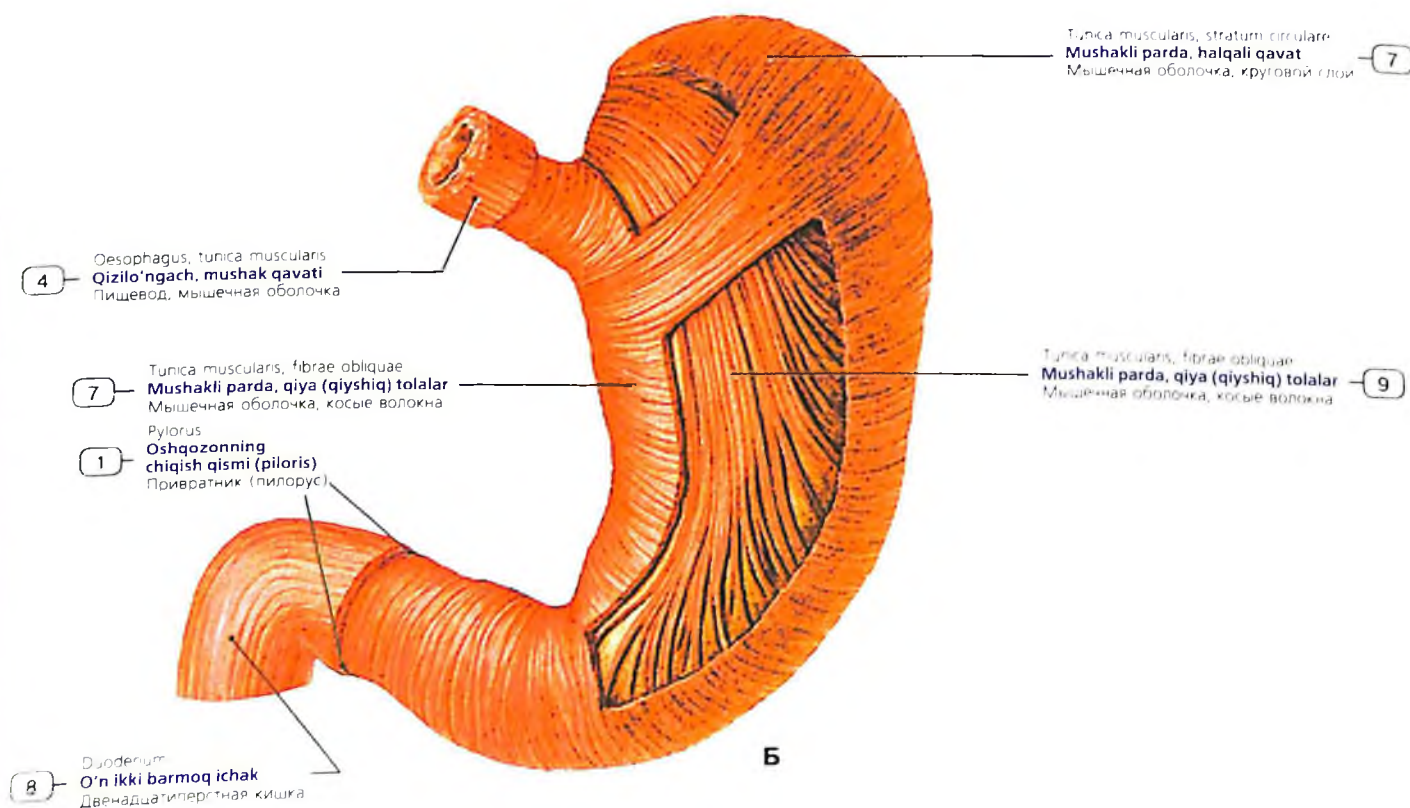


Rasm № 30. Oshqozon. A – tashqi tuzilishi, oldindan ko'rinishi; B – mushak qavati.
Рисунок № 30. Желудок. А – внешнее строение, вид спереди; Б – мышечная оболочка.

- | | | | | |
|--------------------|------------------------|---------------------|-------------------|-----------------------|
| 1 Pyloric canal | 4 Lesser curvature | 7 Fundus of stomach | 10 Pyloric antrum | 13 Longitudinal layer |
| 2 Pylorus | 5 Anterior wall | 8 Body of stomach | 11 Oblique fibres | |
| 3 Angular incisure | 6 Cardia, Cardial part | 9 Greater curvature | 12 Circular layer | |



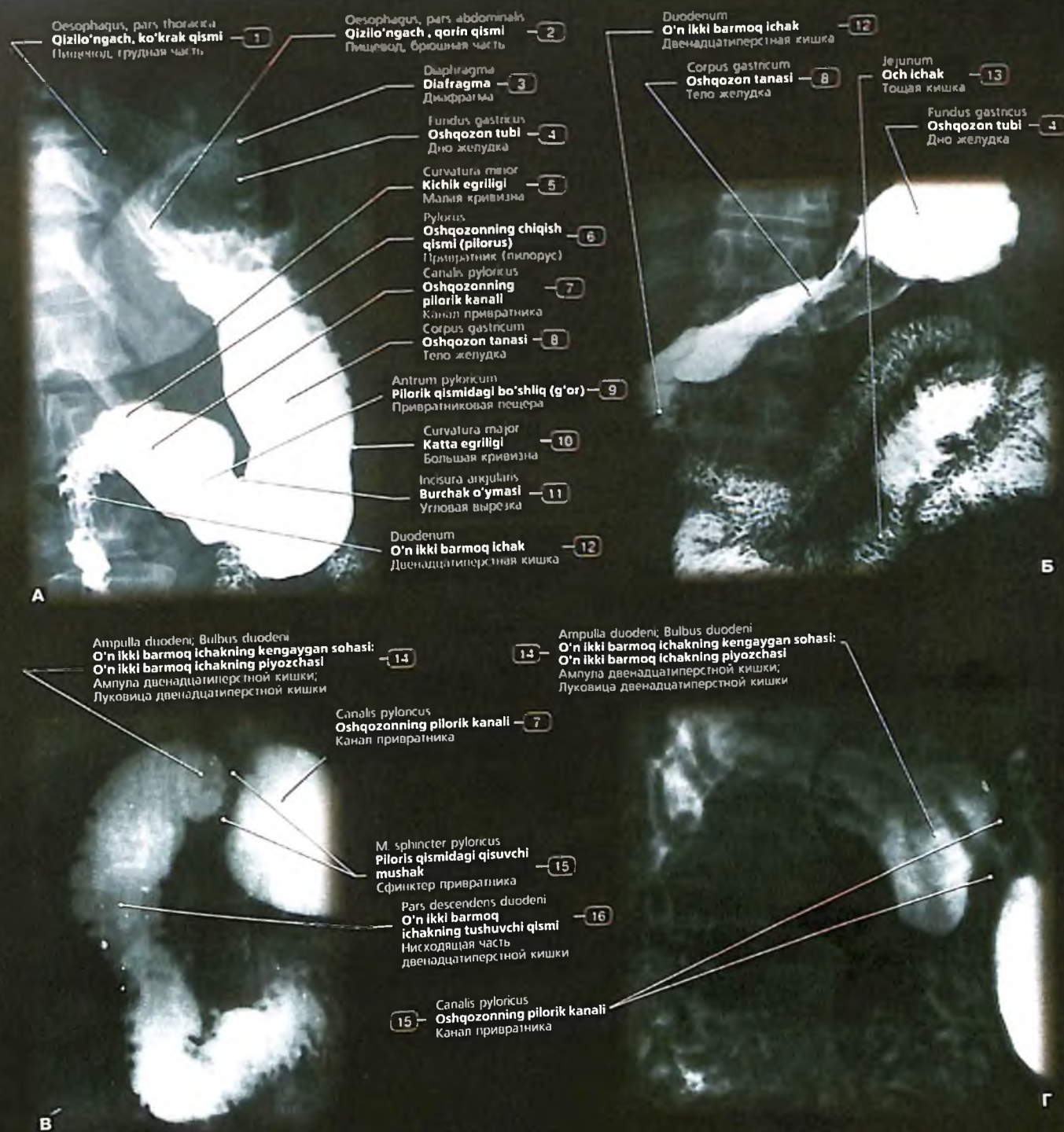
A



B

Rasm № 31. Oshqozonning mushak qavati (A – bo'ylamasiga ketgan qavat; B – mushak pardasining qavati).
Рисунок № 31. Мышечная оболочка желудка (A – продольный слой; B – слой мышечной оболочки).

- | | | | | | | | | | |
|-----------|----------------------------|---------------------|------------------------------|------------------------|---------------------|----------------------------|------------|------------------|-------------------------------|
| 1 Pylorus | 2 Coat, longitudinal layer | 3 Fundus of stomach | 4 Oesophagus, muscular layer | 5 Coat, circular layer | 6 Greater curvature | 7 Muscular layer, Muscular | 8 Duodenum | 9 Muscular layer | Muscular coat, oblique fibres |
|-----------|----------------------------|---------------------|------------------------------|------------------------|---------------------|----------------------------|------------|------------------|-------------------------------|

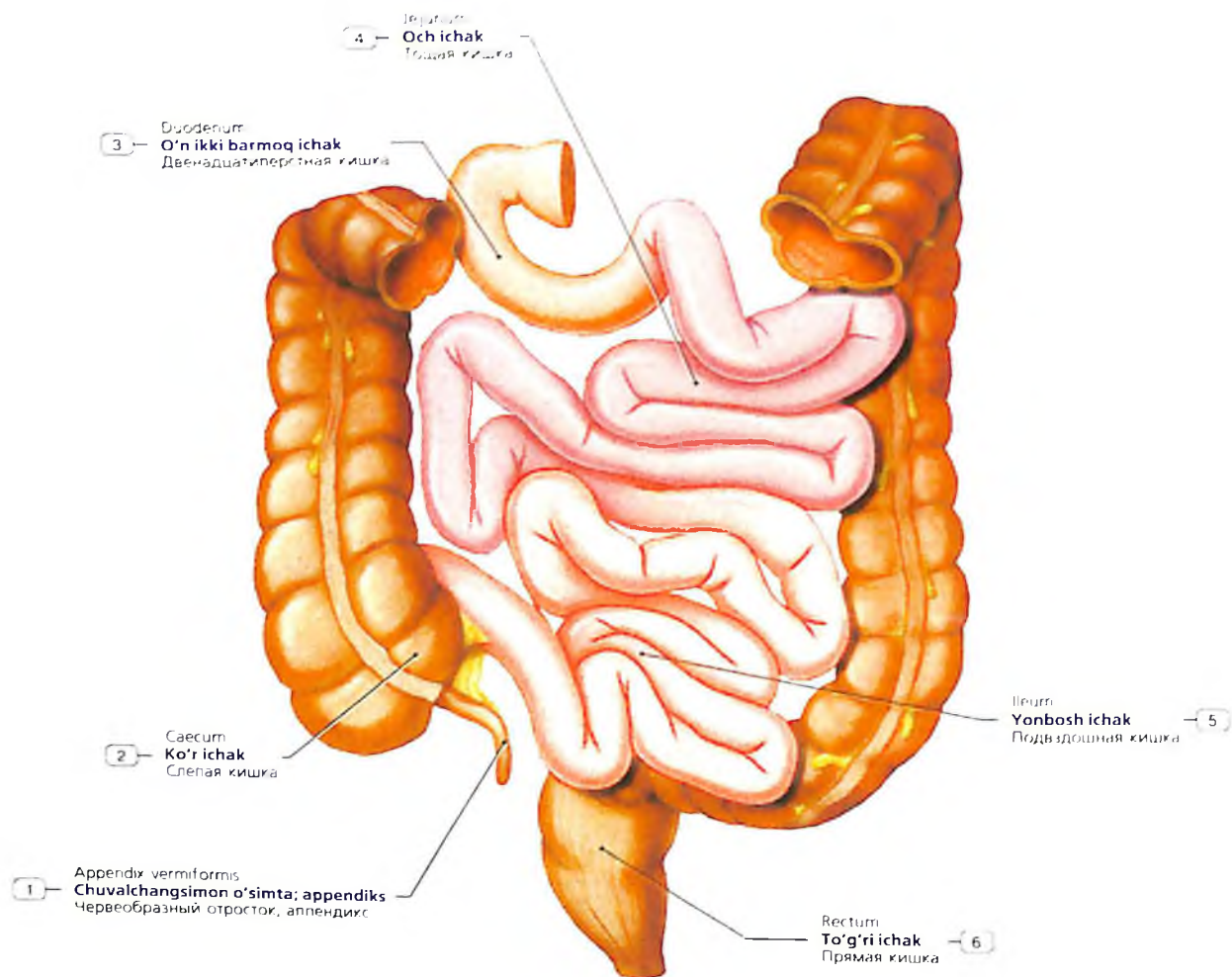


Rasm № 32. Oshqozon va o'n ikki barmoq ichakning rentgenogrammasi (A – to'g'ri (kengaytirilgan ko'rinishi) proyeksiya; B – to'g'ri proyeksiya (yotgan holatda). 12-barmoqli ichak rentgenogrammasi (B, G)). Bariy eritmasi bilan kontrastlangan.

Рисунок № 32. Рентгенограмма желудка и двенадцатиперстной кишки (A – прямая (обзорная) проекция; B – прямая проекция (лежа)).

Рентгенограмма двенадцатиперстной кишки (B, G). Контрастирование бариевой взвесью.

- | | | | |
|------------------------------|--------------------|-------------------------|--------------------------------|
| 1 Oesophagus, thoracic part | 5 Lesser curvature | 10 Greater curvature | Duodenal cap of duodenum |
| 2 Oesophagus, abdominal part | 6 Pylorus | 11 Angular incisura | 15 Pyloric sphincter |
| 3 Diaphragm | 7 Pyloric canal | 12 Duodenum | 16 Descending part of duodenum |
| 4 Fundus of stomach | 8 Body of stomach | 13 Jejunum | |
| | 9 Pyloric antrum | 14 Ampulla of duodenum; | |



Rasm № 33. Ingichka va yo'g'on ichak qismlari.
Рисунок № 33. Отделы тонкой и толстой кишки.

1 Appendix,
vermiform-
appendix

2 Caecum
3 Duodenum

4 Jejunum
5 Ileum

6 Rectum

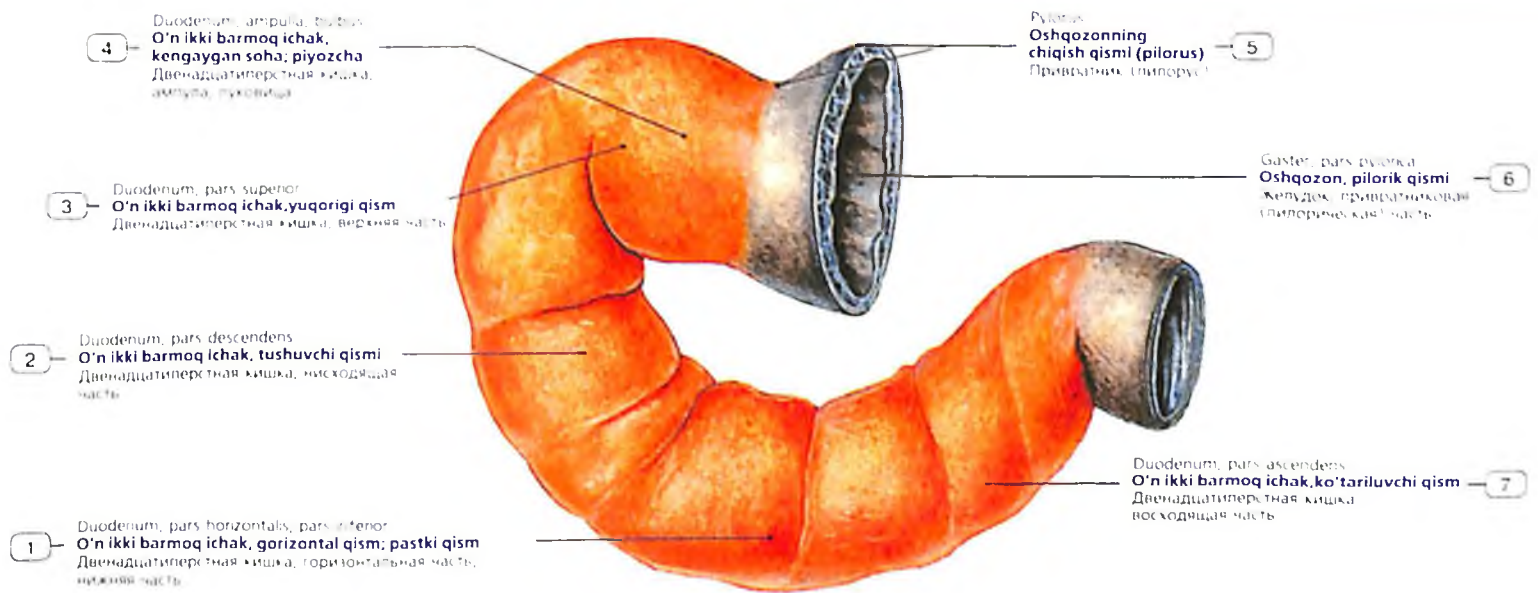
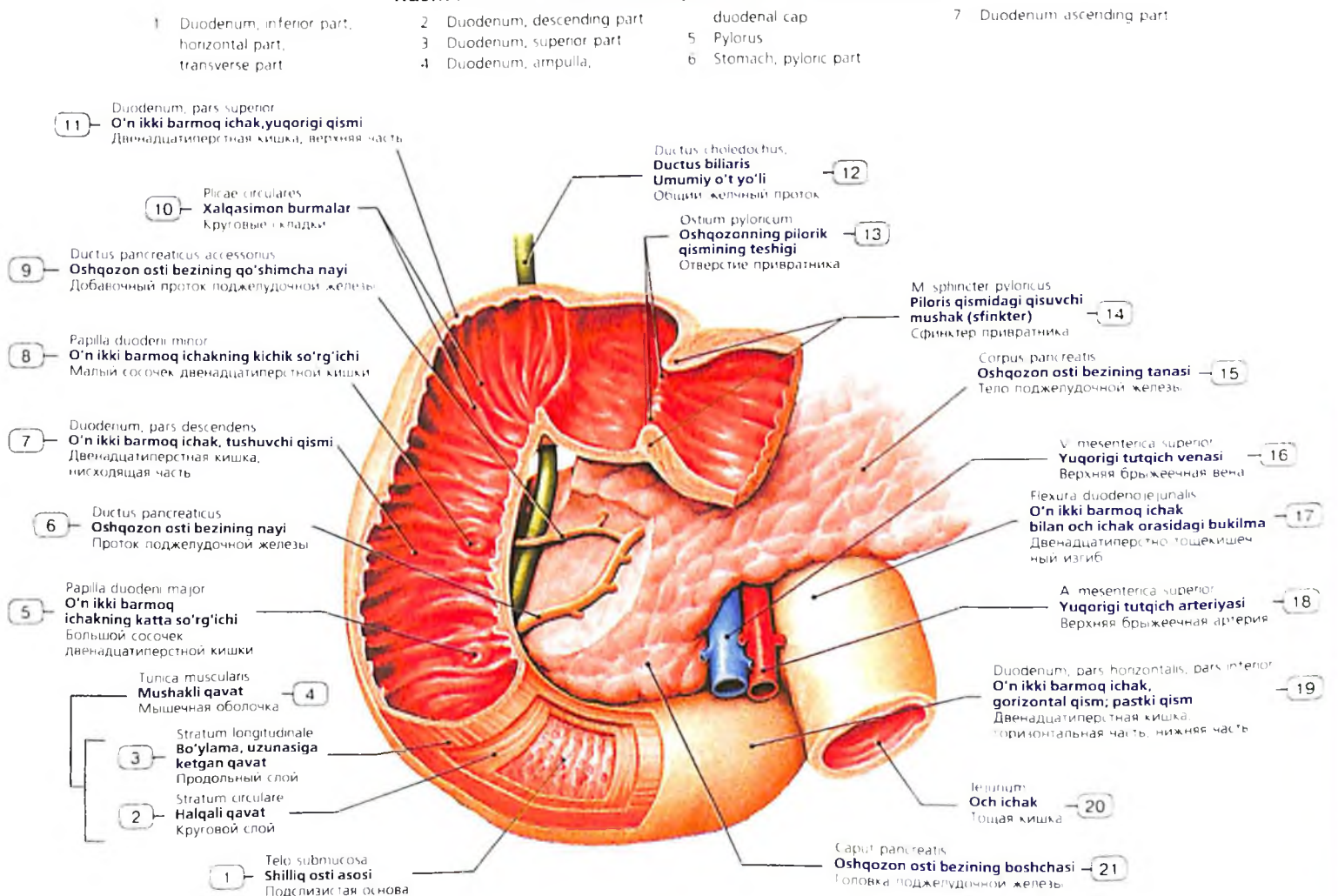


Рисунок № 34. Двенадцатиперстная кишка, вид спереди.

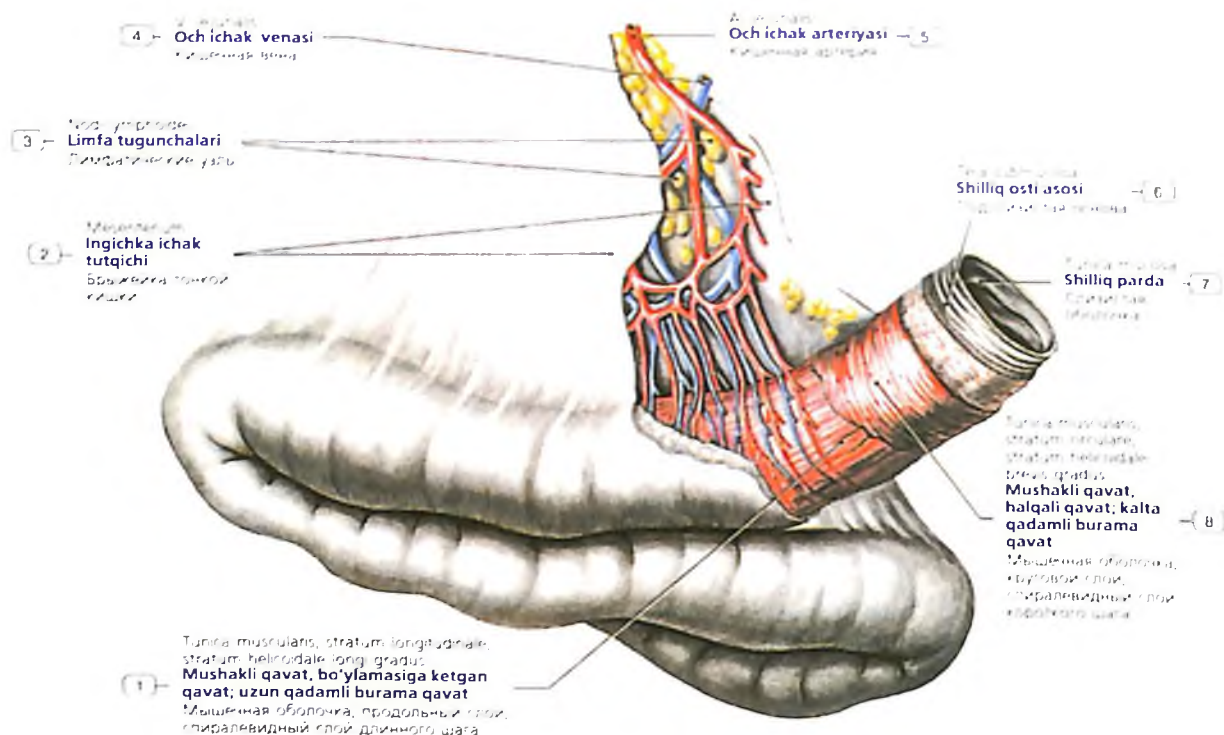
Rasm № 34. O'n ikki barmoq ichak, oldindan ko'rinishi.



Rasm № 35. O'n ikki barmoq ichak, ochilgan, ichki ko'rinishi.

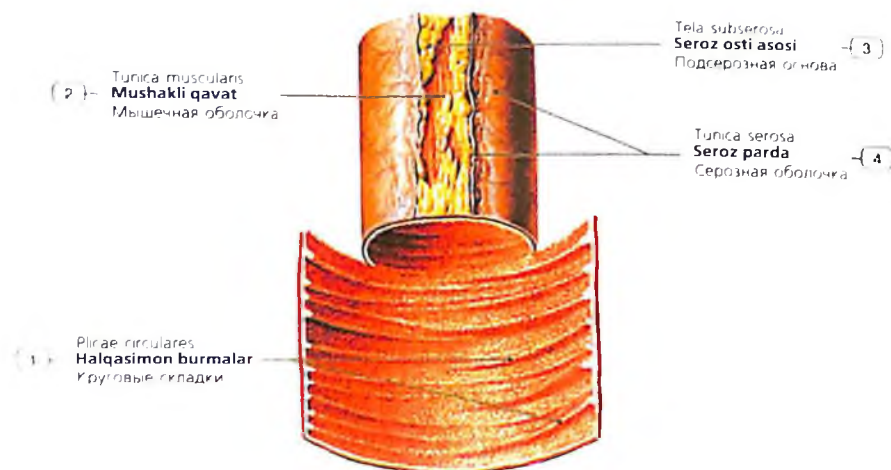
Рисунок № 35. Двенадцатиперстная кишка, вскрытая, вид изнутри.

- | | | | | |
|---------------------------------------|-----------------------------|----------------------------|-------------------------------|--|
| 1 Submucosa | 5 Major duodenal papilla | 10 Circular folds | 15 Body of pancreas | 19 Duodenum, inferior part, horizontal part, transverse part |
| 2 Circular layer | 6 Pancreatic duct | 11 Duodenum, superior part | 16 Superior mesenteric vein | |
| 3 Longitudinal layer | 7 Duodenum, descending part | 12 Duodenum, superior part | 17 Duodenojejunal flexure | |
| 4 2+3 = Muscular layer, Muscular coat | 8 Minor duodenal papilla | 13 Pyloric orifice | 18 Superior mesenteric artery | |
| | 9 Accessory pancreatic duct | 14 Pyloric sphincter | | 20 Jejunum |
| | | | | 21 Head of pancreas |



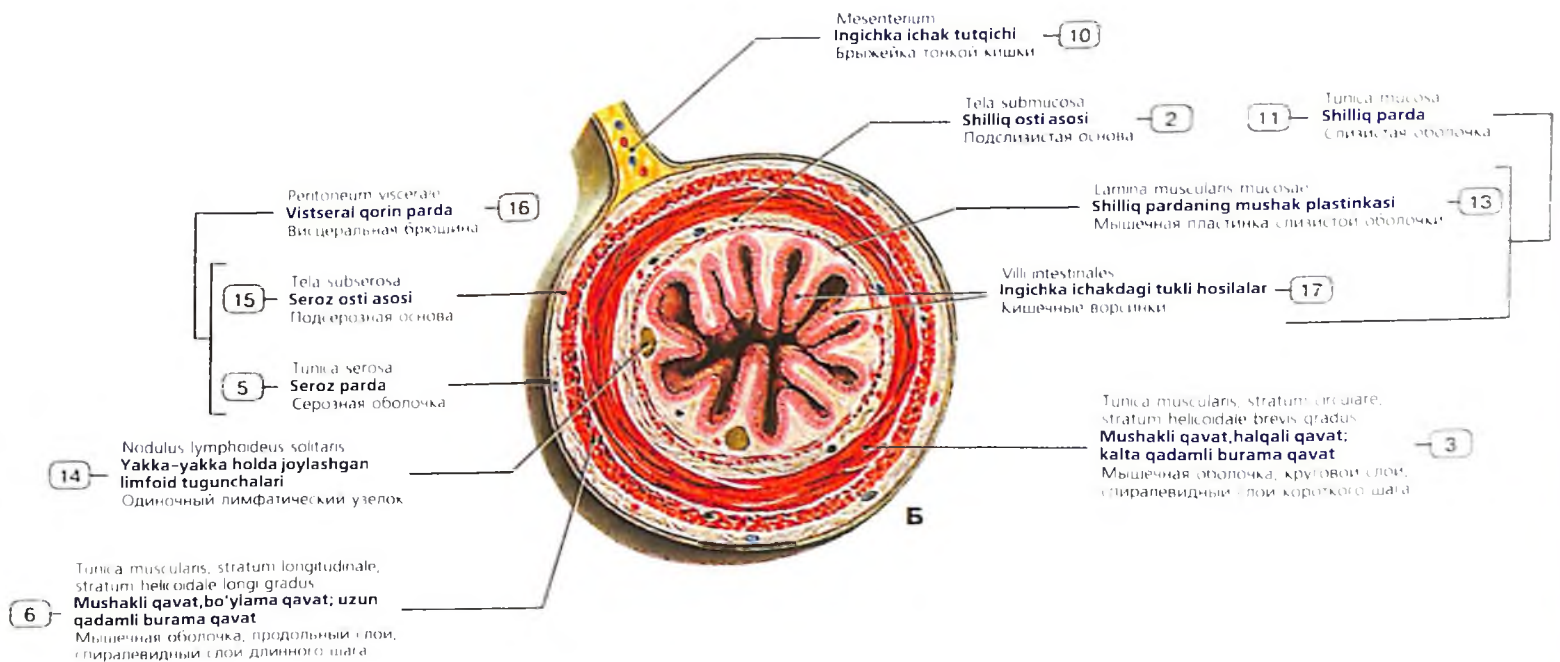
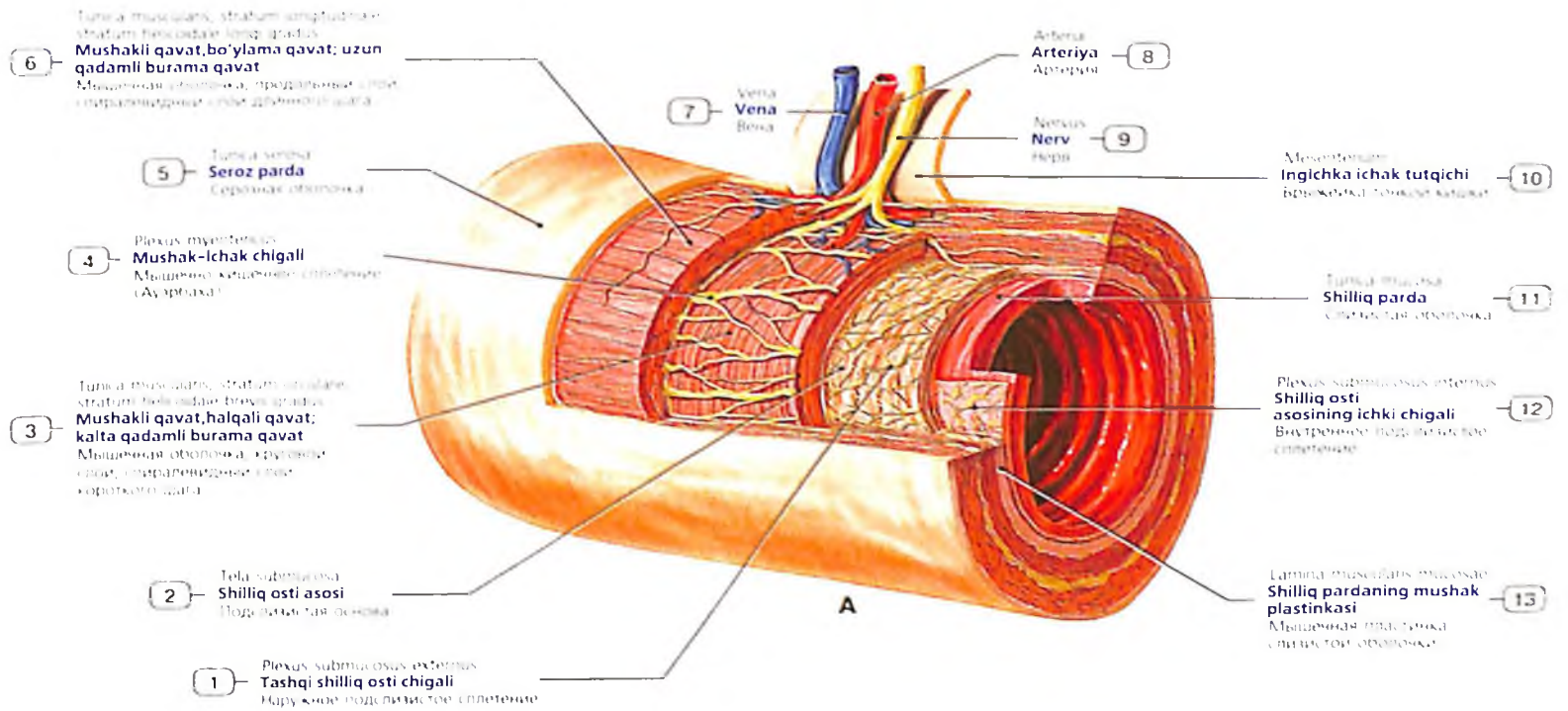
Rasm № 36. Ingichka ichak va uning tutqichi.
Рисунок № 36. Тонкая кишка и ее брыжейка.

- | | | | |
|--|------------------|---------------------------|---|
| 1 Muscular layer, Muscular coat, longitudinal layer, long pitch helicoidal layer | 3 Lymph node | 7 Mucosa, Mucous membrane | 8 Muscular layer, Muscular coat, circular layer, short pitch helicoidal layer |
| 2 Mesentery | 4 Jejunal vein | | |
| | 5 Jejunal artery | | |
| | 6 Submucosa | | |



Rasm № 37. Ingichka ichakning shilliq pardasi (halqasimon burmalar).
Рисунок № 37. Слизистая оболочка тонкой кишки (круговые складки).

- | | |
|---------------------------------|------------------------------|
| 1 Circular folds | 3 Subserosa, Subserous layer |
| 2 Muscular layer, Muscular coat | 4 Serosa, Seroius coat |



Rasm № 38. Ingichka ichak (A – devori qavatlar, rekonstruktsiya, B – ko'ndalang kesimi).
Рисунок № 38. Тонкая кишка (A – слои стенки, реконструкция, B – поперечный разрез).

- | | | | | |
|---|---|------------------------|---|---------------------------------|
| 1 External submucous plexus | 4 Myenteric plexus (Auerbach's) | pitch helicoidal layer | 11 = 13 + 12 Mucosa, Mucous membrane | 14 Solitary lymphoid nodule |
| 2 Submucosa | 5 Serosa, Serosus coat | 7 Vein | 12 Internal submucous (Meissner's) plexus | 15 Subserosa, Subserous layer |
| 3 Muscular layer, Muscular coat, circular layer, short pitch helicoidal layer | 6 Muscular layer, Muscular coat, longitudinal layer, long | 8 Artery | 13 Muscularis mucosae | 16 = 5 + 15 Viscera, peritoneum |
| | | 9 Nerve | | 17 intestinal villi |
| | | 10 Mesentery | | |

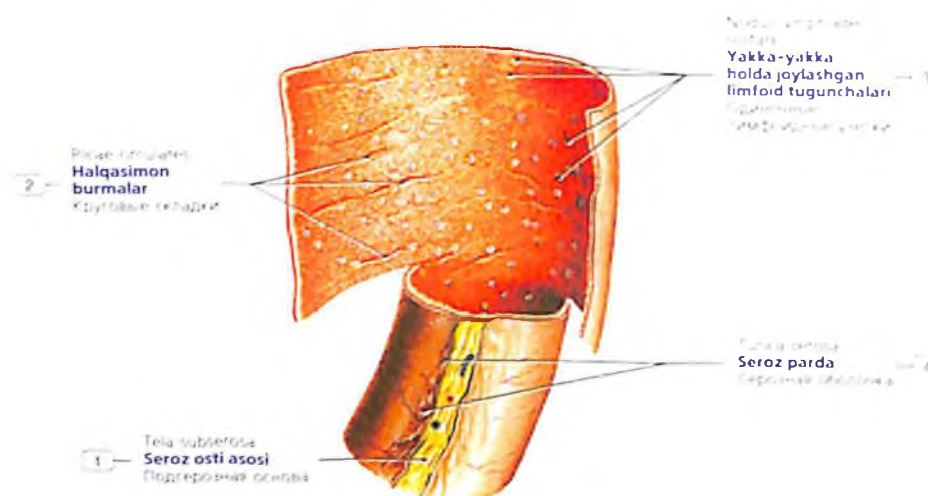


Рисунок № 39. Лимфоидные узелки тонкой кишки.

Rasm № 39. Ingichka ichakdagi limfoid tugunchalari.

- | | | |
|---------------------------------|--|------------------------|
| 1 Subserosa,
Subserous layer | 2 Circular folds,
Solitary lymphoid nodules | 4 Serosa, Serosus coat |
|---------------------------------|--|------------------------|

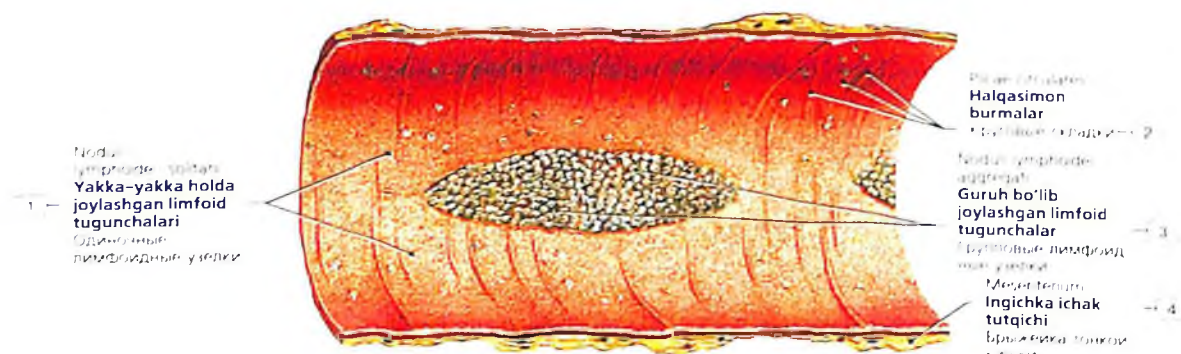
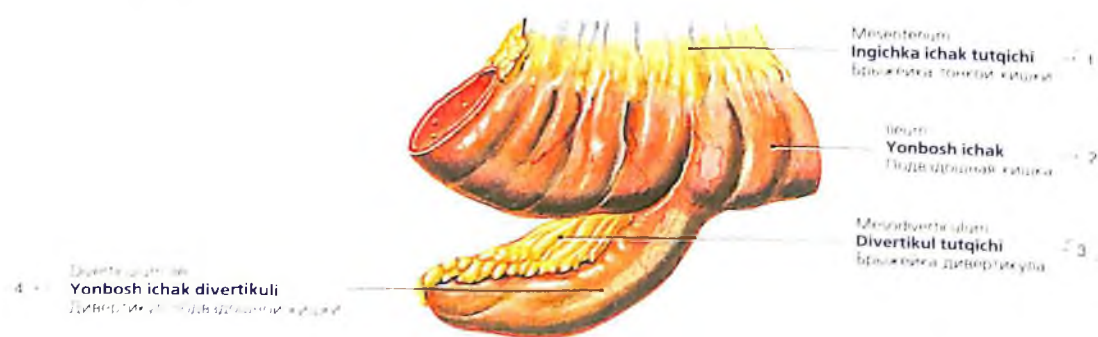


Рисунок № 40. Лимфоидная бляшка тонкой кишки.

Rasm № 40. Ingichka ichakdagi limfoid tugunchalar (limfoid pilakcha).

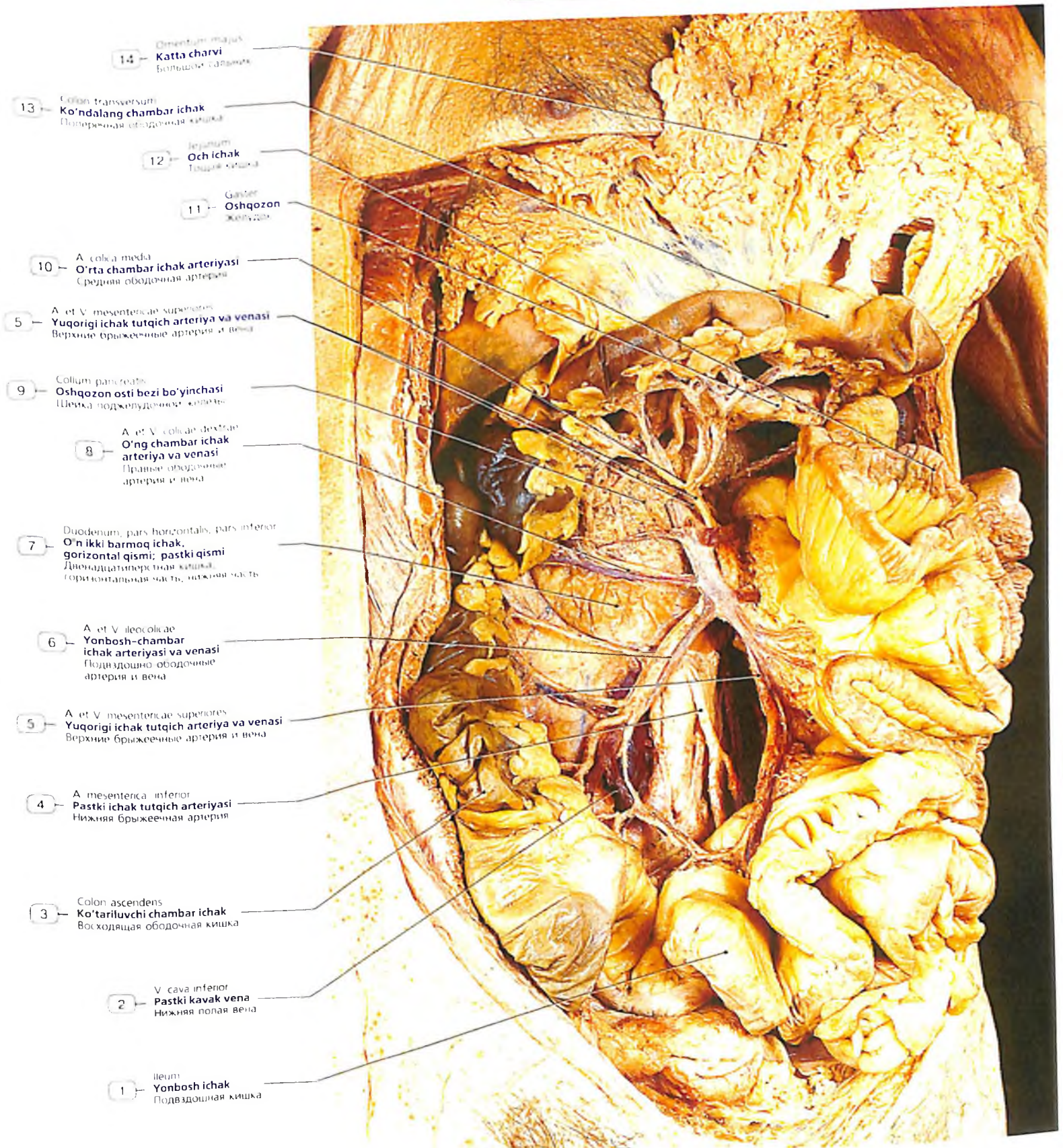
- | | | |
|-----------------------------|-------------------------------|-------------|
| 1 Solitary lymphoid nodules | 3 Aggregated lymphoid nodules | 4 Mesentery |
| 2 Circular folds | | |



Rasm № 41. Yonbosh ichakdagi Mekkel divertikuli.

Рисунок № 41. Меккелев дивертикул подвздошной кишки.

- | | |
|---------------|----------------------|
| 1 Mesenterium | 4 Mesodiverticulum |
| 2 Intestine | 3 Cecal diverticulum |



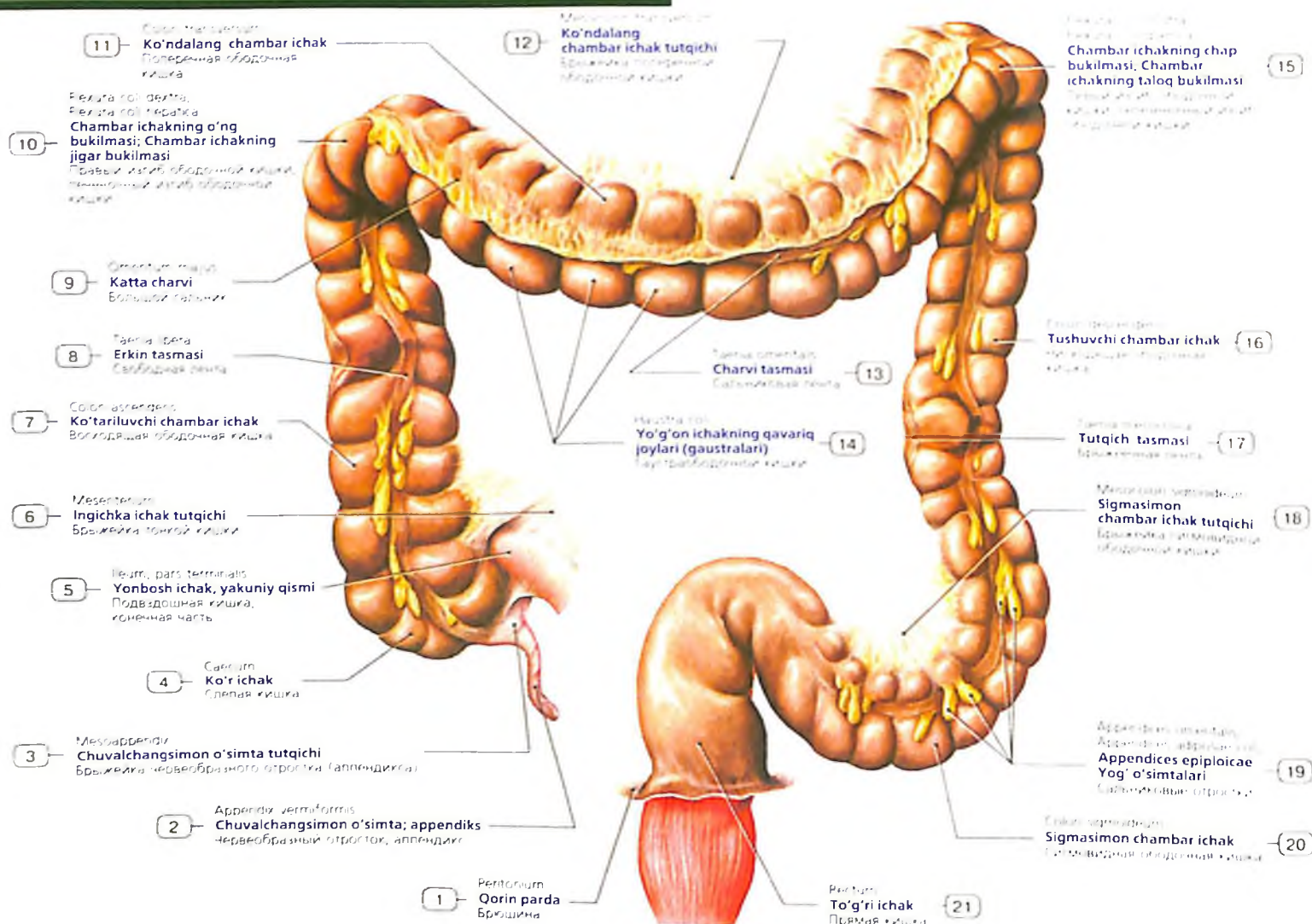
Rasm № 42. Odamning ingichka va yo'g'on ichagi, old va o'ng tomondan ko'rinishi (preparatning tabiiy ko'rinishi).
Рисунок № 42. Тонкая и толстая кишка человека, вид спереди и справа (фотография натурального препарата).

- 1 Ileum
- 2 Inferior vena cava
- 3 Ascending colon
- 4 Inferior mesenteric artery
- 5 Superior mesenteric artery

- 6 Ileocolic artery and vein
- 7 Duodenum, inferior part, horizontal part, transverse part

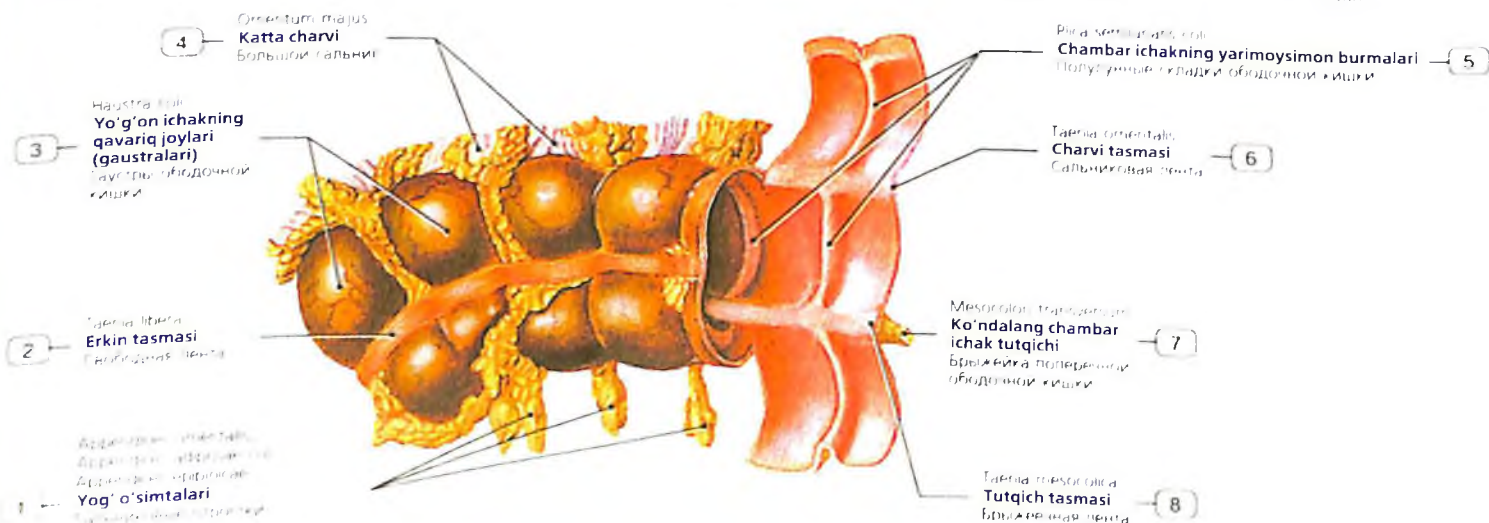
- 8 Right colic artery and vein
- 9 Neck of pancreas
- 10 Middle colic artery
- 11 Stomach

- 12 Jejunum
- 13 Transverse colon
- 14 Greater omentum



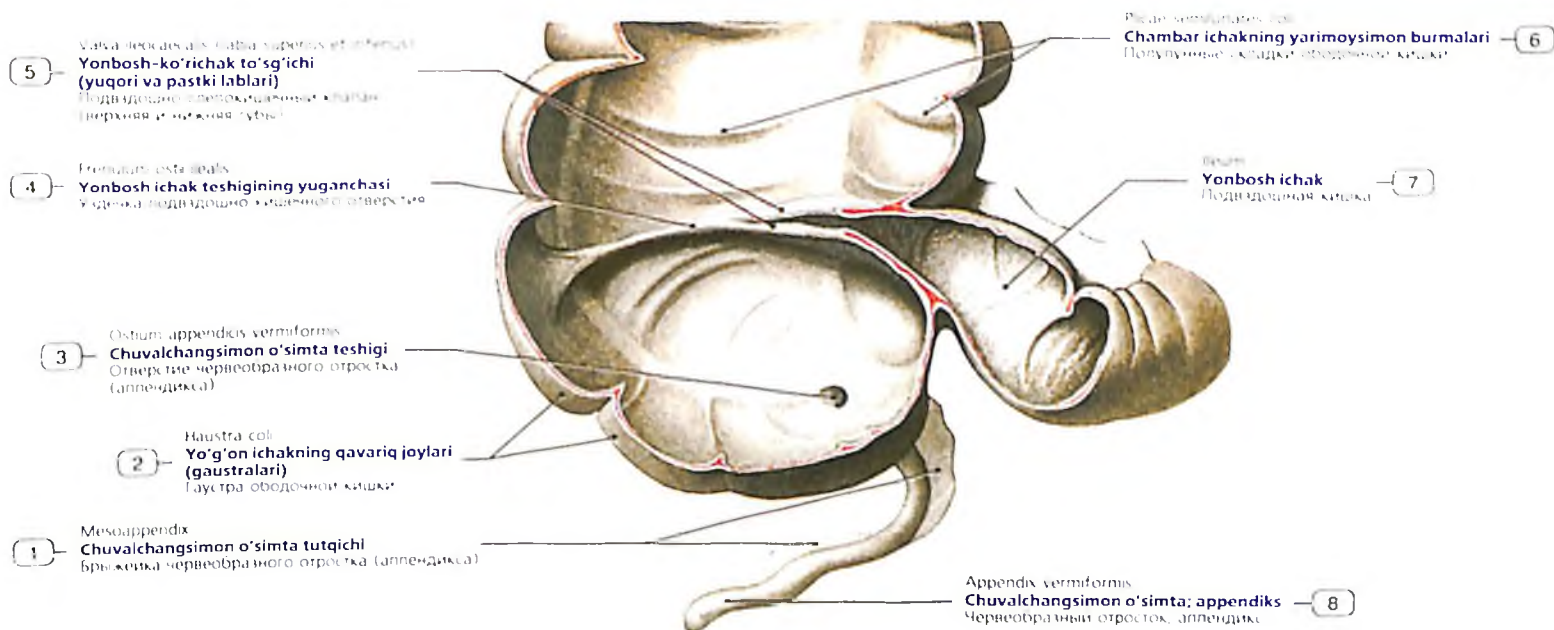
Rasm № 43. Yo'g'on ichak, old tomondan ko'rinishi. Рисунок № 43. Толстая кишка, вид спереди.

- | | | | | |
|--------------------------------|------------------------|---|--|--|
| 1 Peritonium | 5 Ileum, terminal part | 10 Right colic flexure, Hepatic flexure | 14 Haustra of colon | 18 Sigmoid mesocolon |
| 2 Appendix, Vermiform appendix | 6 Mesentery | 11 Transverse colon | 15 Left colic flexure, Splenic flexure | 19 Omental appendices, Fatty appendices of colon |
| 3 Mesappendix | 7 Ascending colon | 12 Transverse mesocolon | 16 Descending colon | 20 Sigmoid colon |
| 4 Caecum | 8 Free taenia | 13 Omental taenia | 17 Mesocolic taenia | 21 Rectum |



Rasm № 44. Yo'g'on ichak qismi
Рисунок № 44. Участок толстой кишки

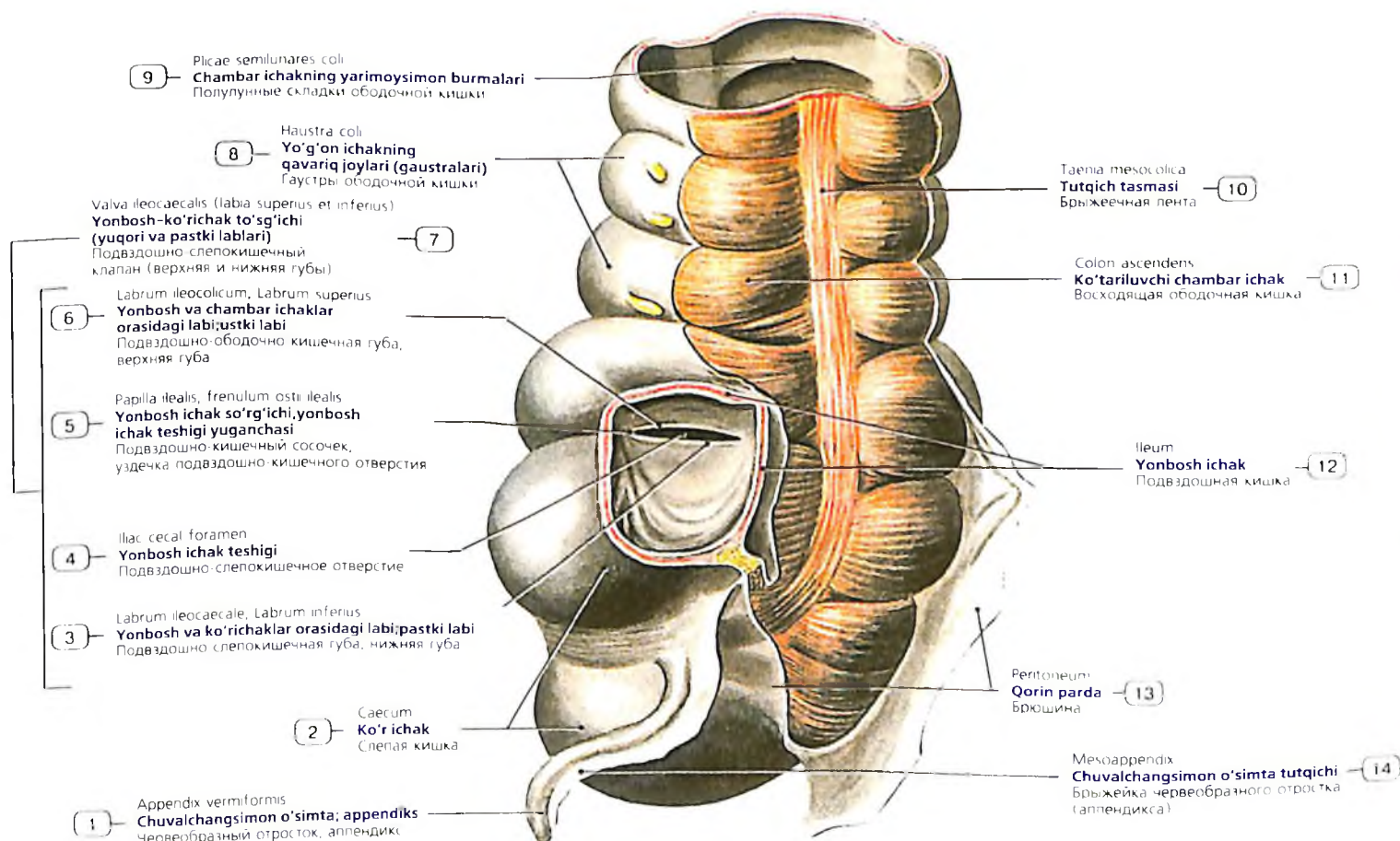
- | | | | |
|---|---|---|---|
| 1 Appendices epiploicae
Сальниковые отростки | 4 Caecum appendicis
Слепая кишка с аппендиксом | 6 Omental taenia
Трансверсальная сальниковая лента | 8 Mesocolic taenia
Сальниковая лента |
|---|---|---|---|



Rasm № 45. Yonbosh ichakning ko'r ichakka o'tish qismi, yonbosh ichak va ko'r ichakning oldingi devorlari olib tashlangan

Рисунок № 45. Подвздошно-слепокишечный переход, передняя стенка подвздошной и слепой кишок удалена.

- | | | | |
|--------------------|----------------------------------|-----------------------------|----------------|
| 1 Meso appendix | 3 Orifice of vermiform appendix | 4 Frenulum of ileal orifice | inferior lips) |
| 2 Haustra of colon | 5 Ileocaecal valve (superior and | 6 Semilunar folds of colon | |



Rasm № 46. Ko'r ichak va chuvalchangsimon o'simta.

Рисунок № 46. Слепая кишка и червеобразный отросток.

- | | | | | |
|--------------------------------|--|--------------------------------|----------------------------|------------------|
| 1 Appendix, Vermiform appendix | 4 Ileal orifice, Orifice of ileal papilla | 6 Ileocolic lip, Superior lip | 9 Semilunar folds of colon | 13 Peritoneum |
| 2 Caecum | 5 Ileal papilla, frenulum of ileal orifice | 7 = 3+4+5+6 = Ileocaecal valve | 10 Mesocolic taenia | 14 Meso appendix |
| 3 Ileocaecal lip, Inferior lip | 8 Haustra of colon | | 11 Ascending colon | |
| | | | 12 Ileum | |

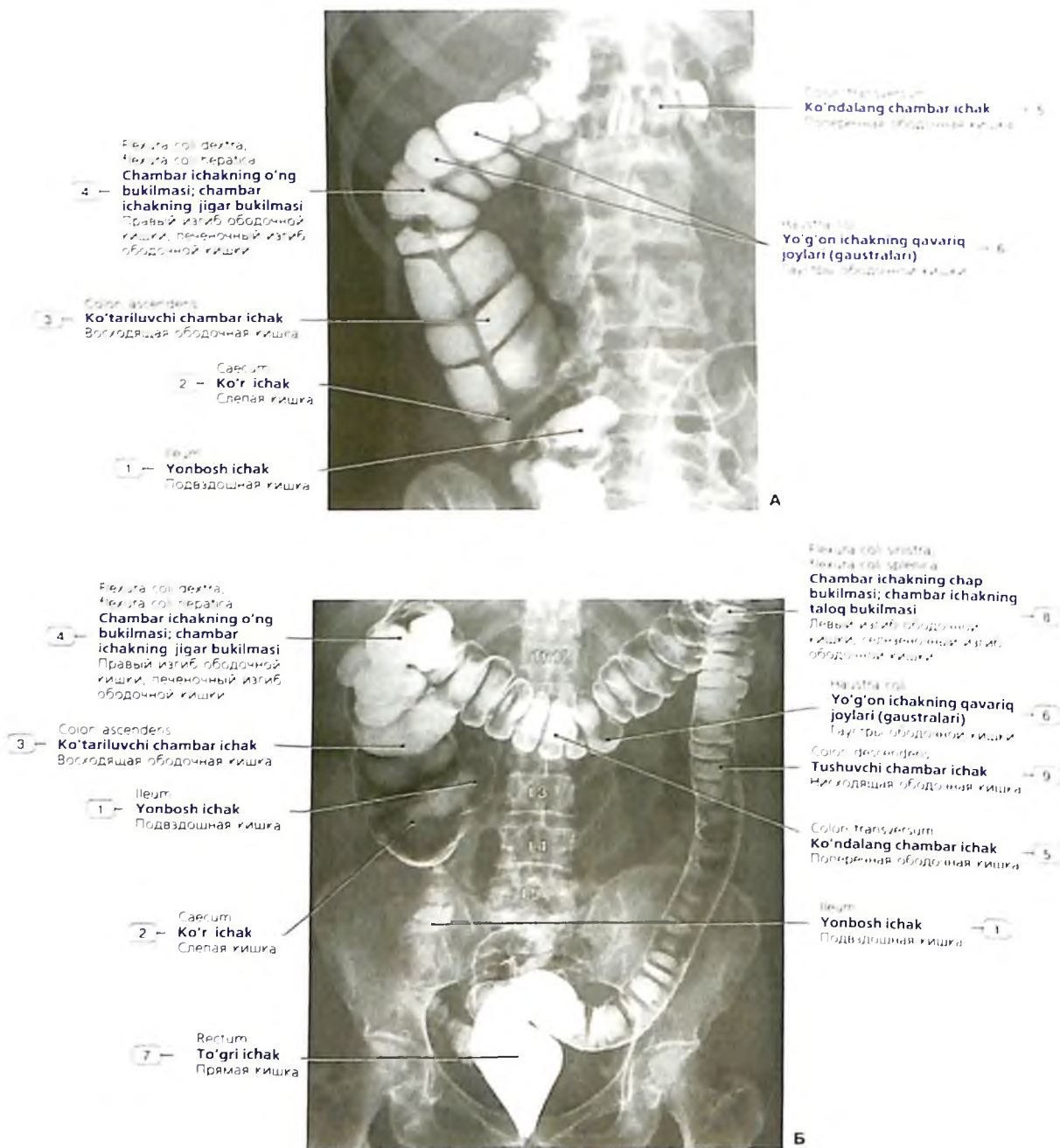
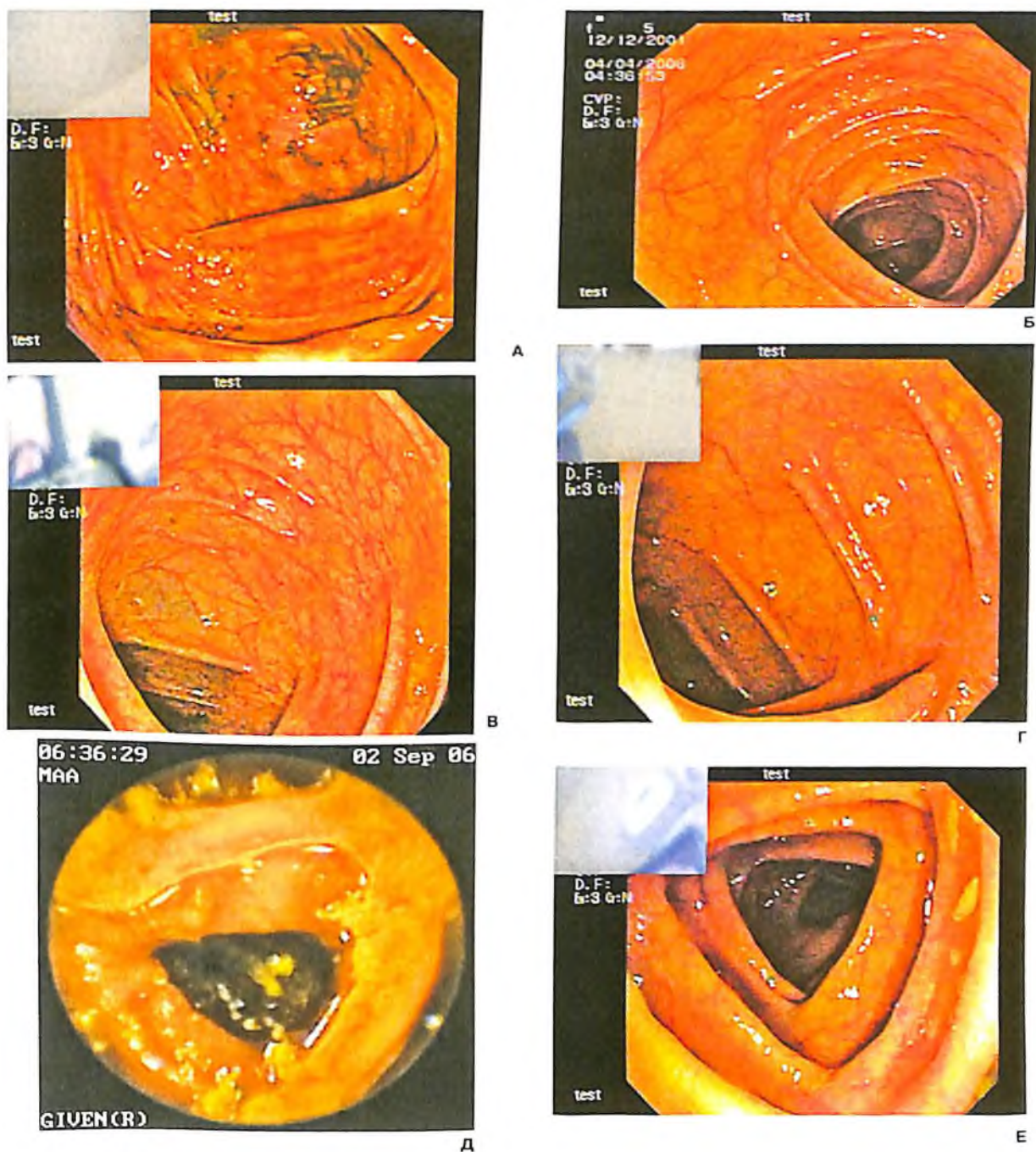


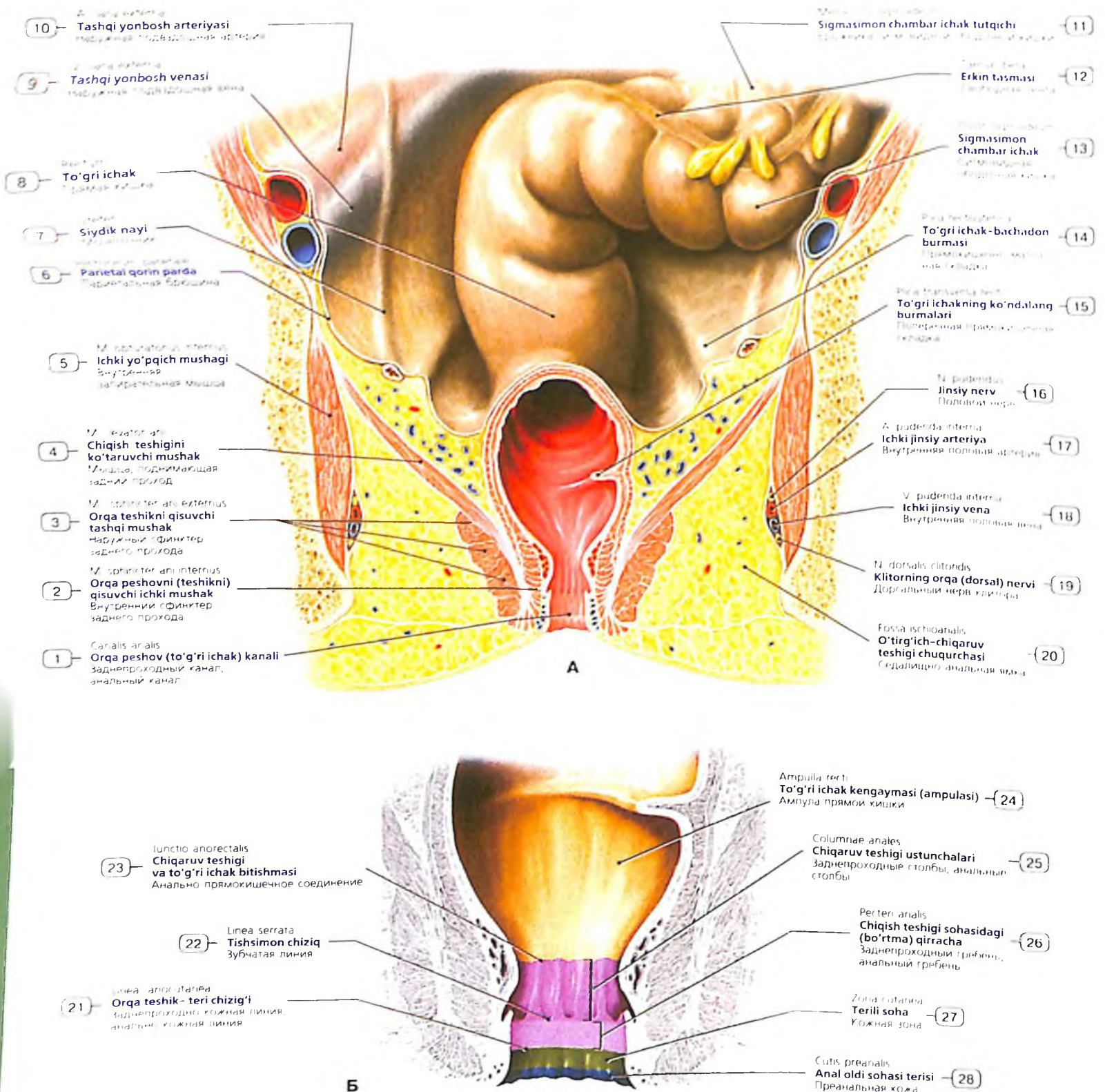
Рис. 47. Барий билан контрастланган yo'g'on ichak rentgenogrammasi (А – ko'tariluvchi chamber ichak va chamber ichakning o'ng bukilmasi; Б – ko'ndalang, tushuvchi, sigmasimon chamber ichak va to'g'ri ichak) (V. I. Filimonov va hammualiflar bo'yicha).

Рисунок № 47. Рентгенограммы толстой кишки, контрастирование барием (А – восходящая ободочная кишка и правый изгиб ободочной кишки; Б – поперечная ободочная, нисходящая, сигмовидная ободочные кишки, прямая кишка) (по В. И. Филимонову и соавт.).

- | | | | |
|-----------|--|---------------------|---|
| 1. Ileum | 4. Right colic flexure,
Hepatic flexure | 6. Haustra of colon | 8. Left colic flexure,
Splenic flexure |
| 2. Caecum | 5. Transverse colon | 7. Rectum | 9. Descending colon |

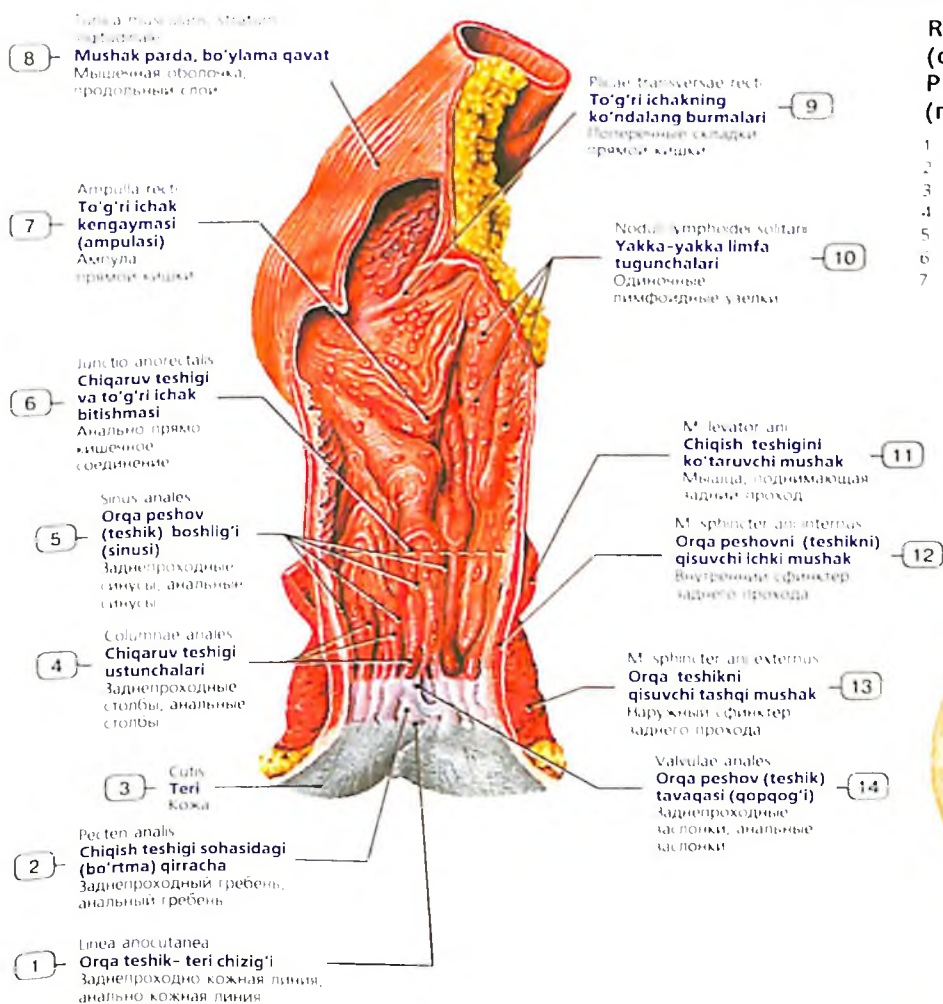


Rasm № 48. Kolonoskopiya (A – ko'r ichak gumbazi; B – ko'tariluvchi chamber ichak; B – chamber ichakning jigar bukilmasi; Г– yonbosh ichakning ko'r ichakka o'tish qismi; Д – ko'ndalang chamber ichakning o'rta qismi; E – ko'ndalang chamber ichak bo'shlig'ining o'ziga xos uchburchaksimon ko'rinishi (S.A. Blashentsev bo'yicha).
Рисунок № 48. Колоноскопия (А – купол слепой кишки; Б – восходящая ободочная кишка; В – печеночный изгиб ободочной кишки; Г– подвздошно-слепкишечный переход; Д – средний отдел поперечной ободочной кишки; Е – характерный треугольный просвет поперечной ободочной кишки) (по С. А. Блашенцевой).



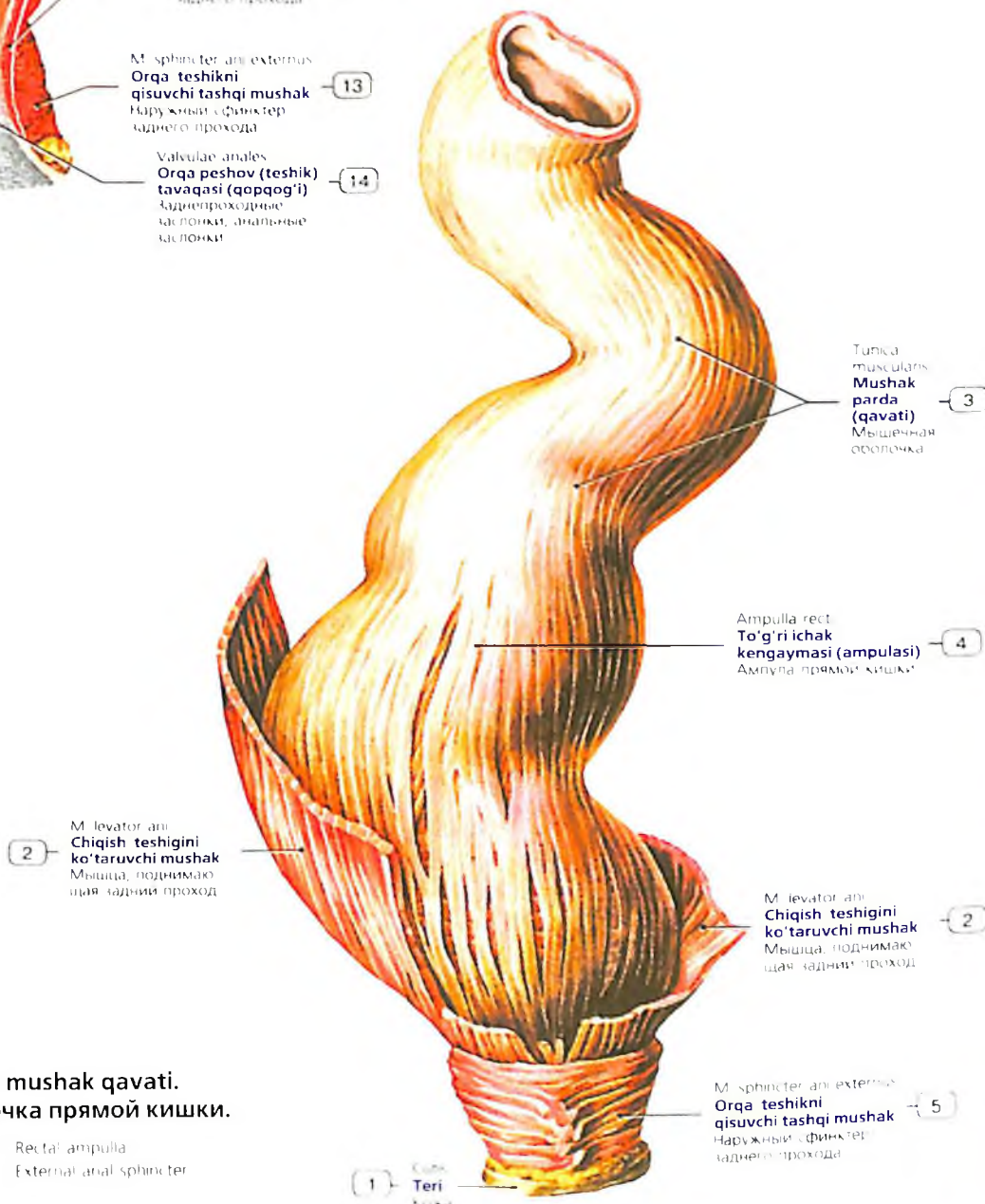
Rasm № 49. To'g'ri ichak (A – kichik chanoq bo'shlig'ida joylashishi; B – to'g'ri ichakning distal qismi, frontal kesim).
Рисунок № 49. Прямая кишка (A – расположение в полости малого таза; B – дистальный отдел прямой кишки, фронтальный разрез).

- | | | | | |
|----------------------------|---------------------------|-------------------------------|------------------------------|--------------------|
| 1. Anal canal | 7. Ureter | 13. Sigmoid colon | 19. Dorsal nerve of clitoris | 25. Anal columns |
| 2. Internal anal sphincter | 8. Rectum | 14. Recto-uterine fold | 20. Ischioanal fossa | 26. Anal pecten |
| 3. External anal sphincter | 9. External iliac vein | 15. Transverse fold of rectum | 21. Anocutaneous line | 27. Cutaneous zone |
| 4. Levator ani | 10. External iliac artery | 16. Pudendal nerve | 22. Serrate line | 28. Preanal skin |
| 5. Puborectalis | 11. Sigmoid mesocolon | 17. Internal pudendal artery | 23. Anorectal junction | |
| 6. Parietal peritoneum | 12. Free part | 18. Internal pudendal vein | 24. Rectal ampulla | |



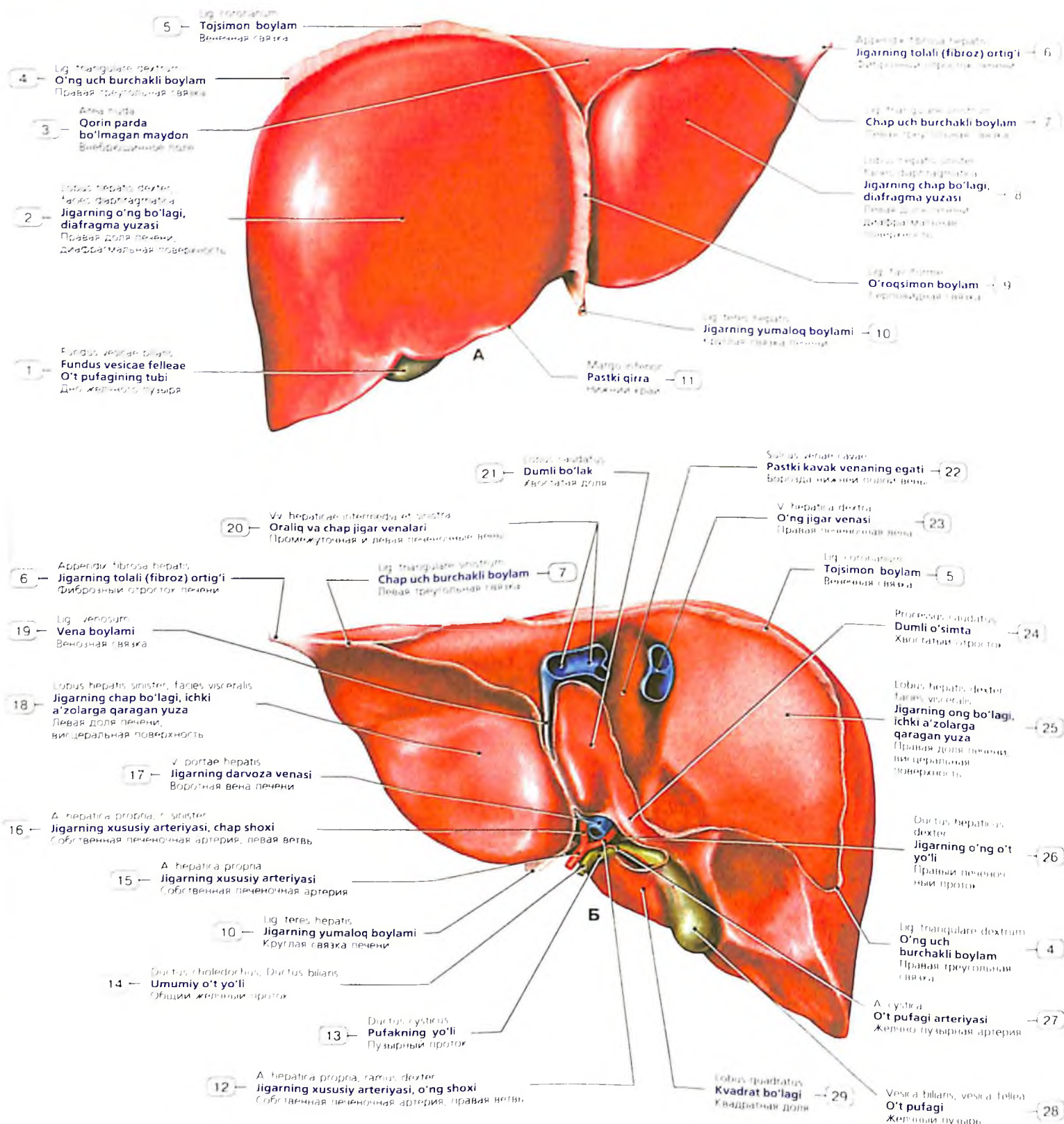
**Rasm № 50. To'g'ri ichak (oldingi devori olib tashlangan).
Рисунок № 50. Прямая кишка (передняя стенка отсечена).**

- | | |
|----------------------|---|
| 1 Anocutaneous line | 8 Muscular layer, Muscular coat, longitudinal layer |
| 2 Anal pecten | 9 Transverse folds of rectum |
| 3 Skin | 10 Solitary lymphoid nodules |
| 4 Anal columns | 11 Levator ani |
| 5 Anal sinuses | 12 Internal anal sphincter |
| 6 Anorectal junction | 13 External anal sphincter |
| 7 Rectal ampulla | 14 Anal valves |



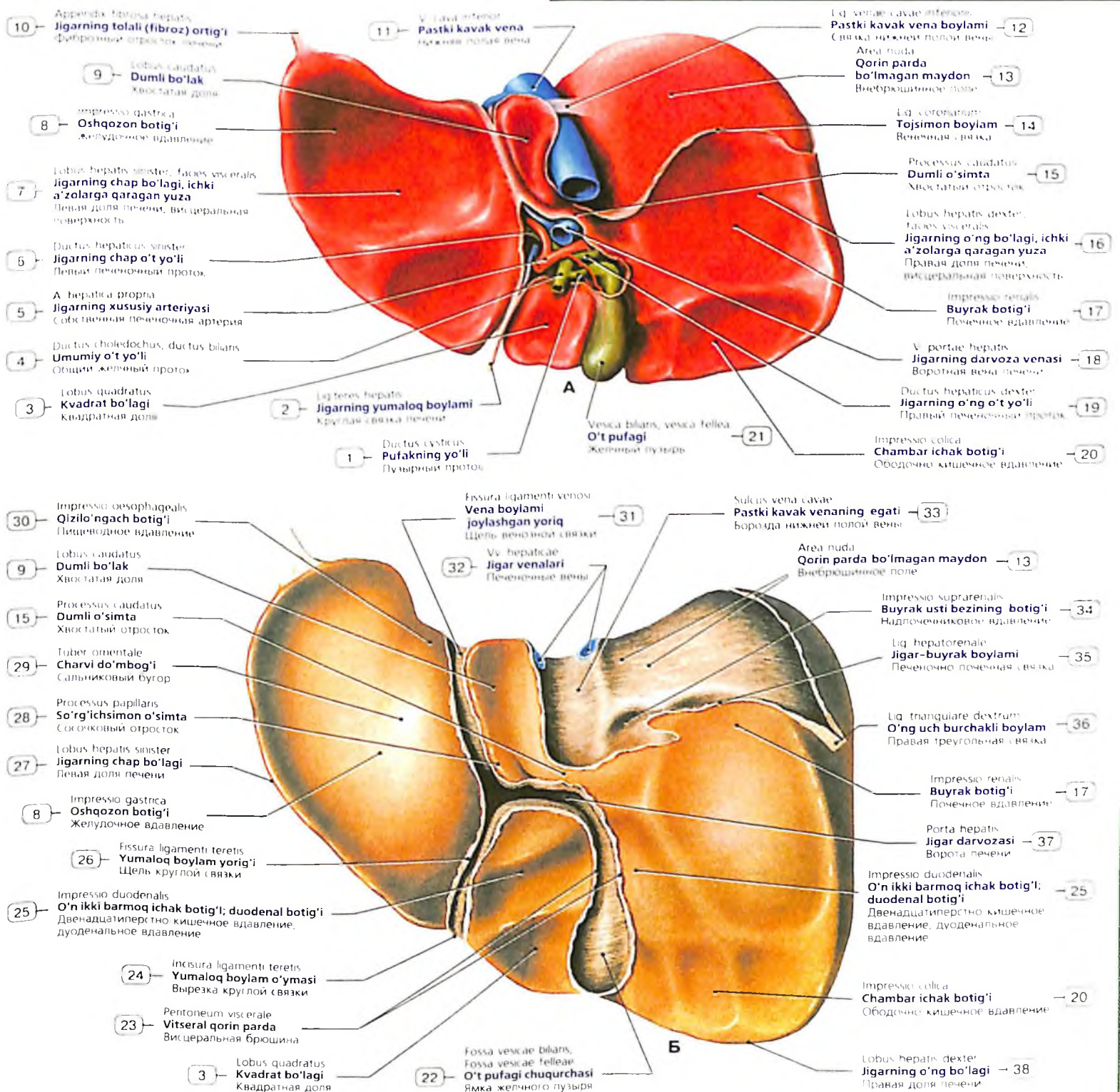
**Rasm № 51. To'g'ri ichakning mushak qavati.
Рисунок № 51. Мышечная оболочка прямой кишки.**

- | | |
|---------------------------------|---------------------------|
| 1 Skin | 4 Rectal ampulla |
| 2 Levator ani | 5 External anal sphincter |
| 3 Muscular layer, Muscular coat | |



Rasm № 52. Jigar (A – diafragma yuzasi; B – ichki a'zolarga qaragan yuza).
Рисунок № 52. Печень (А – диафрагмальная поверхность; Б – висцеральная поверхность).

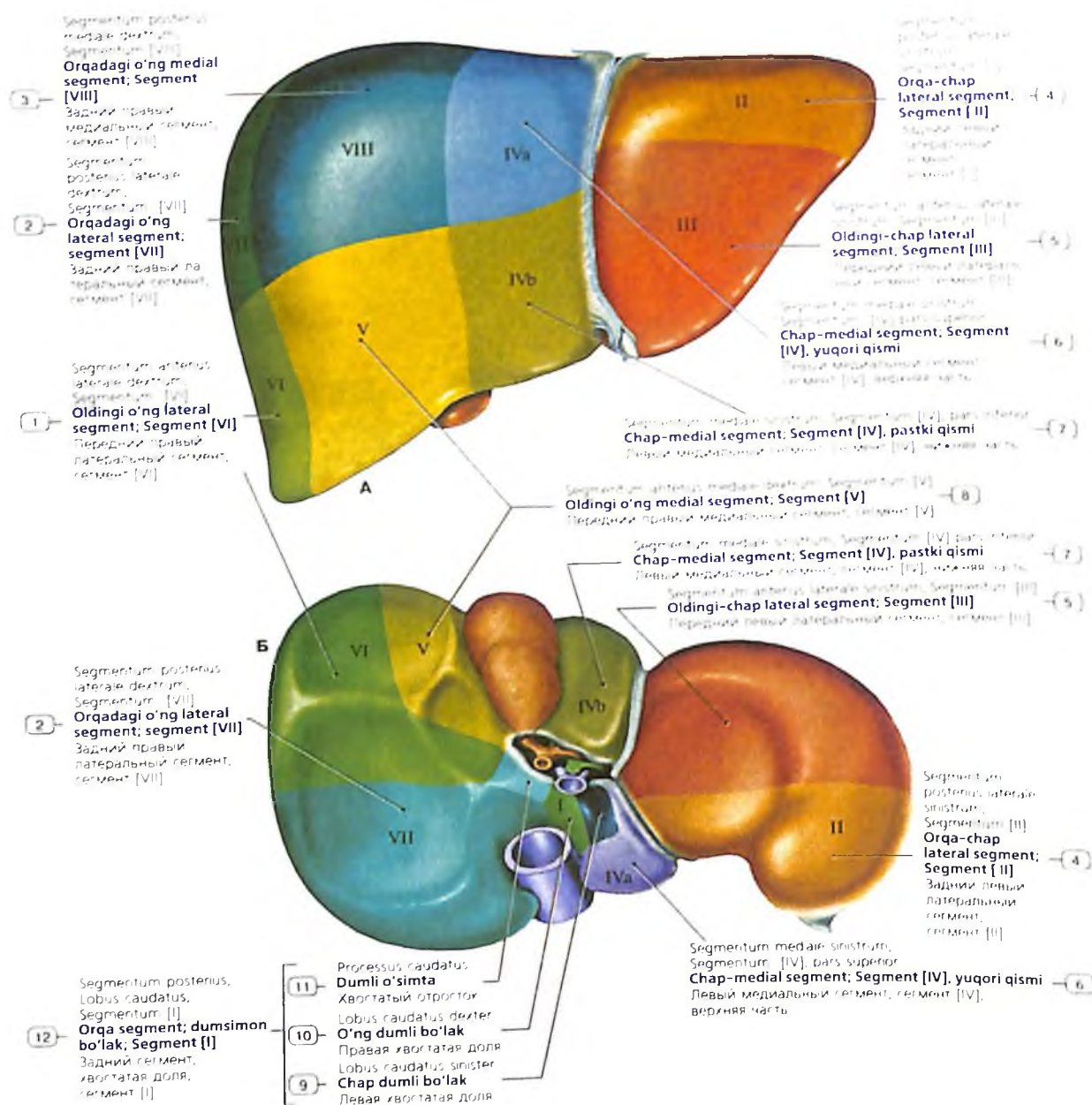
- | | | | | |
|---|--|--|---|---|
| 1. Fundus of gallbladder | 8. Left lobe of liver, diaphragmatic surface | 14. Bile duct | 19. Ligamentum venosum | 25. Right lobe of liver, visceral surface |
| 2. Right lobe of liver, diaphragmatic surface | 9. Falciform ligament | 15. Hepatic artery proper | 20. Intermediate and left hepatic veins | 26. Right hepatic duct |
| 3. Bare area | 10. Round ligament of liver | 16. Hepatic artery proper, left branch | 21. Caudate lobe | 27. Cystic artery |
| 4. Right triangular ligament | 11. Inferior border | 17. Hepatic portal vein | 22. Groove for vena cava | 28. Gallbladder |
| 5. Coronary ligament | 12. Hepatic artery proper, right branch | 18. Left lobe of liver, visceral surface | 23. Right hepatic vein | 29. Quadrate lobe |
| 6. Fibrous appendix of liver | 13. Cystic duct | | 24. Caudate process | |
| 7. Left triangular ligament | | | | |



Rasm № 53. Jigarning ichki a'zolariga qaragan yuzasi (A – qon tomirlari va o't pufagi saqlangan holdagi ko'rinishi; B – qon tomirlari va o't pufagi olib tashlangan).

Рисунок № 53. Печень, висцеральная поверхность (А – с сохраненными сосудами и желчным пузырем; Б – после удаления сосудов и желчного пузыря).

- | | | | | |
|--|--|-------------------------------|---|----------------------------------|
| 1 Cystic duct | 9 Caudate lobe | 17 Renal impression | 26 Fissure for ligamentum teres, fissure for round ligament | 33 Groove for vena cava inferior |
| 2 Round ligament of liver | 10 Fibrous appendix of liver | 18 Hepatic portal vein | 27 Left lobe of liver | 34 Suprarenal impression |
| 3 Quadrate lobe | 11 Inferior vena cava | 19 Right hepatic duct | 28 Papillary process | 35 Hepatorenal ligament |
| 4 Bile duct | 12 Ligamentum of inferior vena cava | 20 Colic impression | 29 Omental tuberosity | 36 Right triangular ligament |
| 5 Hepatic artery proper | 13 Bare area | 21 Gallbladder | 30 Oesophageal impression | 37 Porta hepatis |
| 6 Left hepatic duct | 14 Coronary ligament | 22 Fossa for gallbladder | 31 Fissure for ligamentum venosum | 38 Right lobe of liver |
| 7 Left lobe of liver, visceral surface | 15 Caudate process | 23 Visceral peritoneum | 32 Hepatic veins | |
| 8 Gastric impression | 16 Right lobe of liver, visceral surface | 24 Notch for ligamentum teres | | |
| | | 25 Duodenal impression | | |



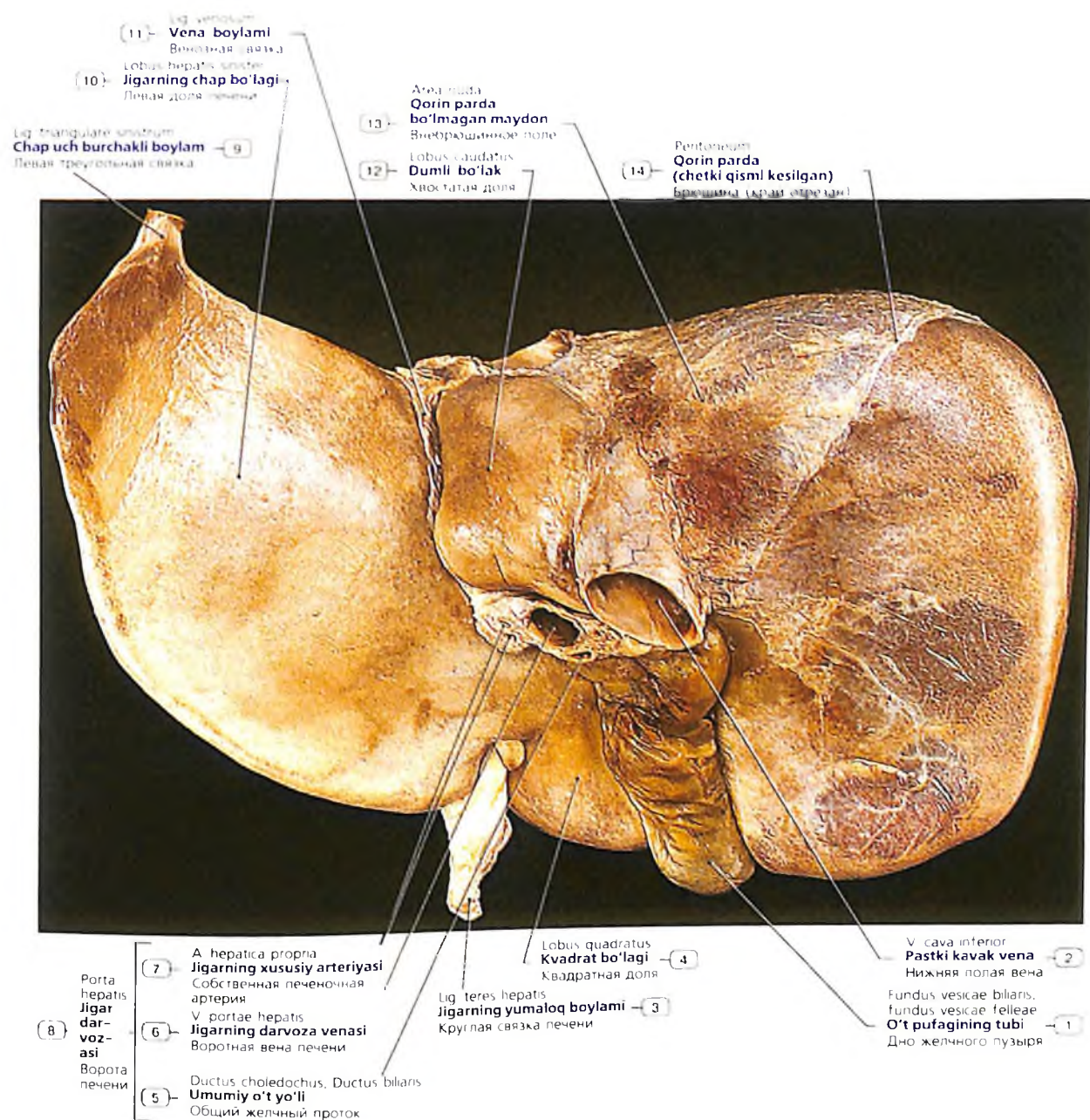
6 - jadval. Jigarning bo'laklar va segmentlarga bo'linishi

Bx lak	Segment raqami	Bo' lak	Segment raqami
Chap	I (C1)	O' ng	V (C5)
	II (C2)		VI (C6)
	III (C3)		VII (C7)
	IV (C4)		VIII (C8)

Rasm № 54. Jigar bo'laklari va segmentlarining (A) diafragma qaragan va (B) ichki a'zolariga qaragan yuzasida joylashishi.

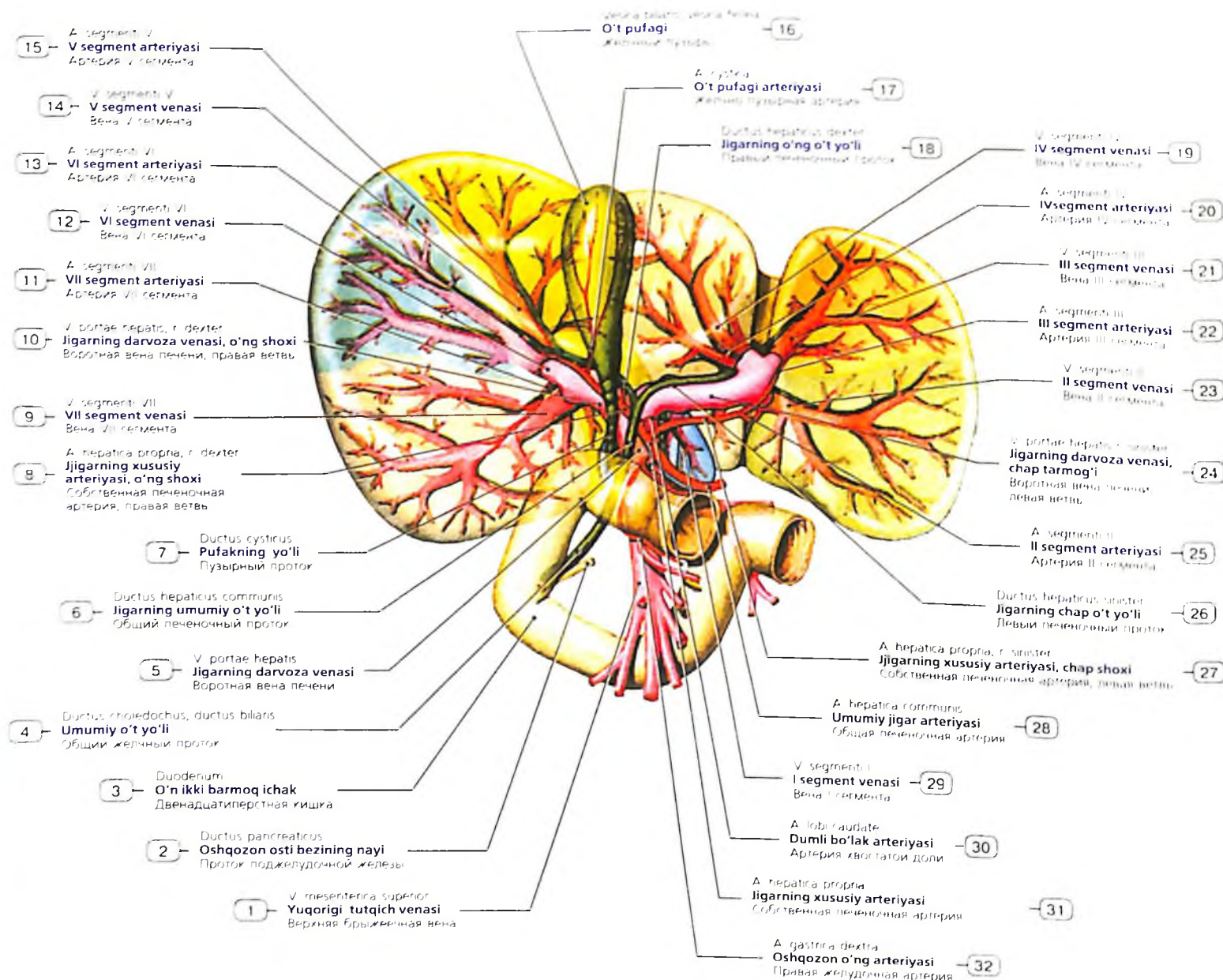
Рисунок № 54. Проекция долей и сегментов печени на диафрагмальную (А) и висцеральную (Б) поверхности.

- 1 Anterior lateral segment, Segment [VI]
- 2 Posterior lateral segment, Segment [VII]
- 3 Posterior medial segment, Segment [VIII]
- 4 Left posterior lateral segment, Segment [II]
- 5 Left anterior lateral segment, Segment [III]
- 6 Left medial segment, Segment [IV], superior part
- 7 Left medial segment, Segment [IV], inferior part
- 8 Anterior medial segment, Segment [V]
- 9 Left caudate lobe
- 10 Right caudate lobe
- 11 Caudate process
- 12 Posterior segment, Caudate lobe, Segment [I]



Rasm № 55. Jigar, ichki a'zolarga qaragan yuzasi (preparatning tabiiy ko'rinishidan olingan rasm).
Рисунок № 55. Печень, висцеральная поверхность (фотография натурального препарата).

- | | | | |
|---------------------------|-------------------------|----------------------------|---------------|
| 1 Fundus of gallbladder | 5 Bile duct | 9 Left triangular ligament | 13 Bare area |
| 2 Inferior vena cava | 6 Hepatic portal vein | 10 Left lobe of liver | 14 Peritoneum |
| 3 Round ligament of liver | 7 Hepatic artery proper | 11 Ligamentum venosum | |
| 4 Quadrate lobe | 8 =5+6+7 Porta hepatis | 12 Caudate lobe | |

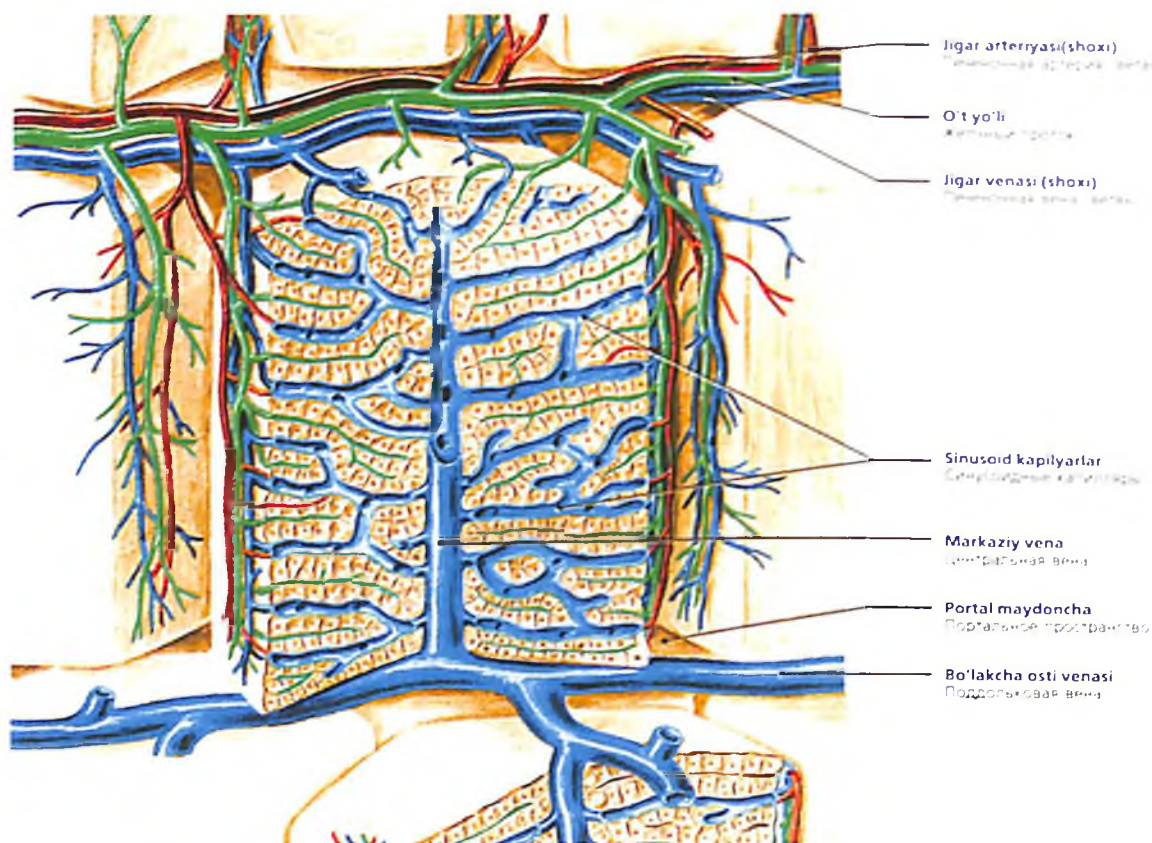


Rasm № 56. Jigarning qon bilan ta'minlanishi.
Рисунок № 56. Кровоснабжение печени.

- | | | | | |
|--------------------------------|--------------------------------------|-------------------------|---------------------------------------|---------------------------|
| 1 Superior mesenteric vein | 9 Segmental vein VII | 15 Segmental artery V | 23 Segmental vein II | 29 Segmental vein I |
| 2 Pancreatic duct | 10 Hepatic portal vein, right branch | 16 Gallbladder | 24 Hepatic portal vein, left branch | 30 Artery of caudate lobe |
| 3 Duodenum | 11 Segmental artery VII | 17 Cystic artery | 25 Segmental artery II | 31 Hepatic artery proper |
| 4 Bile duct | 12 Segmental vein VI | 18 Right hepatic duct | 26 Left hepatic duct | 32 Right gastric artery |
| 5 Hepatic portal vein | 13 Segmental artery VI | 19 Segmental vein IV | 27 Hepatic artery proper, left branch | |
| 6 Cystic duct | 14 Segmental vein V | 20 Segmental artery IV | 28 Common hepatic artery | |
| 7 Hepatic artery proper, right | | 21 Segmental vein III | | |
| 8 Hepatic artery proper, left | | 22 Segmental artery III | | |

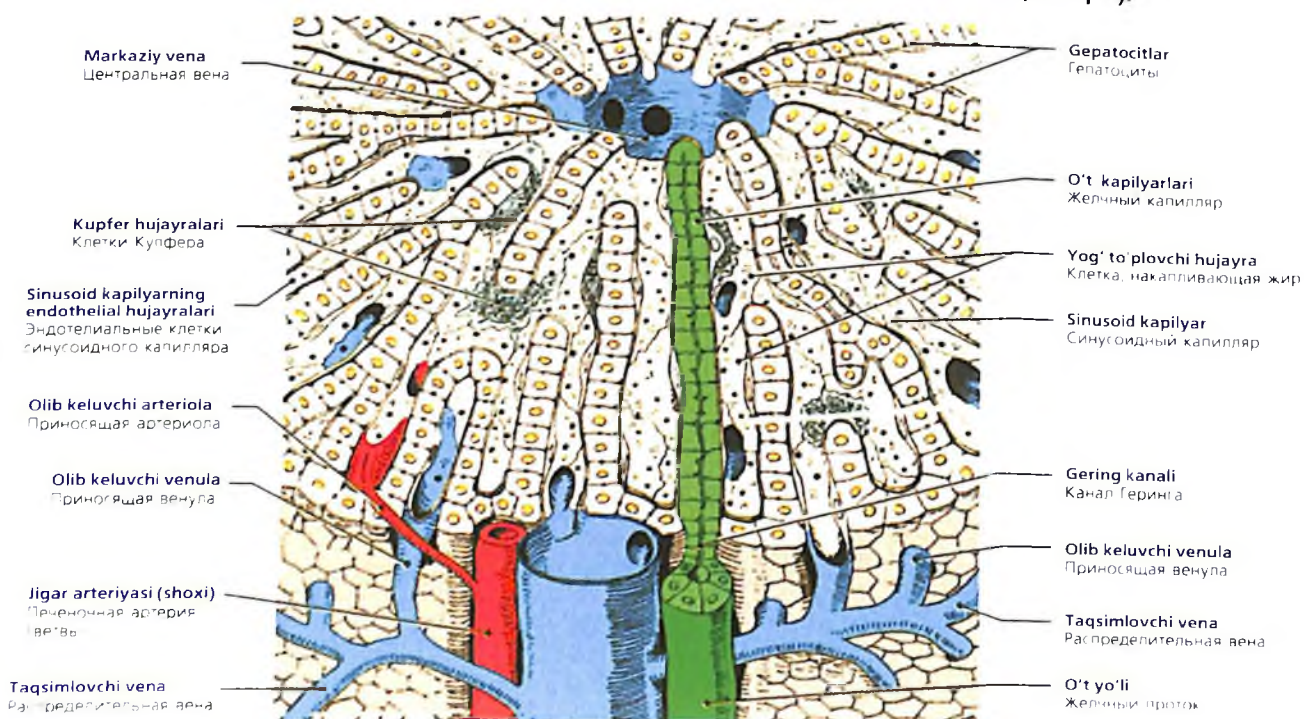
7 - jadval. Jigarning qismlarga, sohalarga va segmentlarga bo'linishi

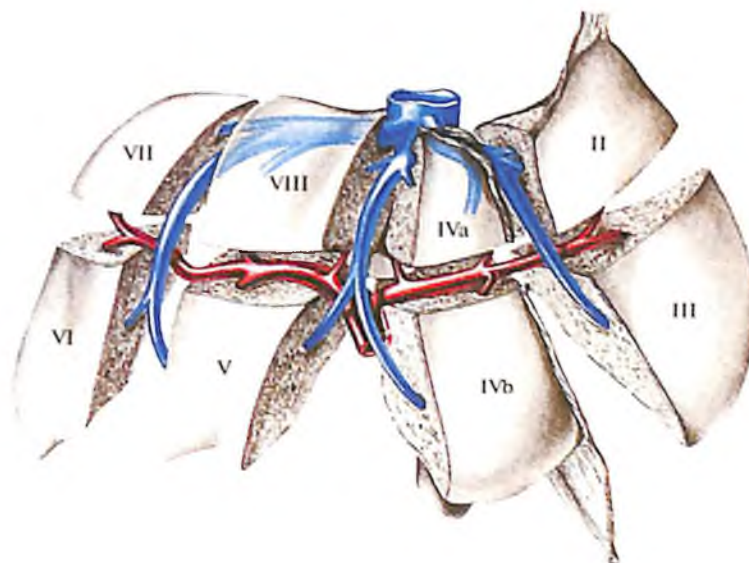
Qism	Soha	Segment
Chap qism (pars sinistra)	Jigarning orqa qismi (pars posterior hepatis)	Orqa segment (segmentum posterius) – dumsimon bo'lak (lobus caudatus), SI
	Chap-lateral soha - sektor (division lateralis sinistra)	Orqa - chap lateral segment (segmentum posterius laterale sinistrum), SII
	Chap-medial soha –paramedian sektor (division medialis sinistra)	Oldingi - chap lateral segment (segmentum anterius laterale sinistrum), SIII
		Chap - medial segment (segmentum mediate sinistrum), SIV
O'ng qism (pars dextra)	O'ng medial soha (division medialis dextra)	Oldingi o'ng medial segment (segmentum anterius mediale dextrum), SV
		Orqadagi o'ng medial segment (segmentum posterius mediale dextrum), SVIII
	O'ng yon soha (division lateralis dextra)	Oldingi o'ng lateral segment (segmentum anterius laterale dextrum), SVI
		Orqadagi o'ng lateral segment (segmentum posterius laterale dextrum), SVII



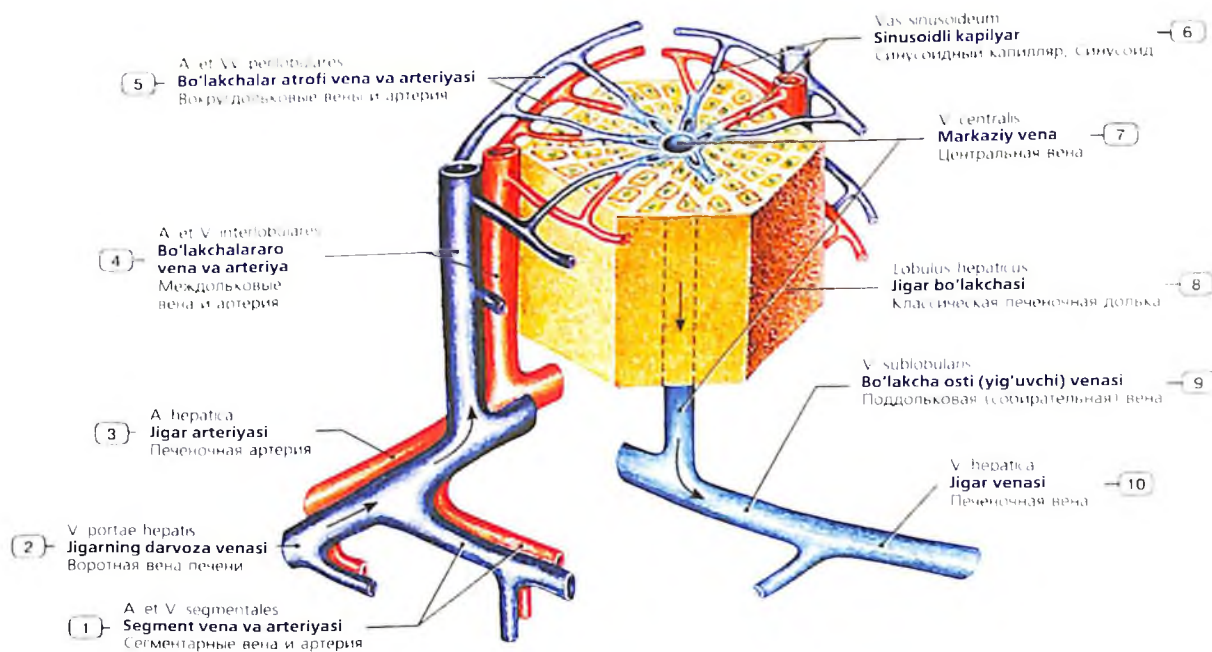
Rasm № 57. Jigarning tuzilishi (chizma). Jigar bo'lakchasi portal maydoncha bilan o'ralgan. Portal maydoncha arteriyalar, venalar va o't yo'llari bilan band (L.K. Junkeyra, J. Karneyro bo'yicha).
 Рисунок № 57. Строение печени (схема). Печеночная долька (в центре) окружена портальным пространством. Портальные пространства заняты артериями, венами и желчными протоками (по Л.К. Жункейра, Ж. Карнейро).

Rasm № 58. Jigarning fazoviy 3 tekislikdagi tuzilishi (chizma). Markazning yuqori qismida – markaziy vena, markazning pastki qismida – darvoza venasi shoxi (L.K. Junkeyra, J. Karneyro bo'yicha).
 Рисунок № 58. Трехмерное строение нормальной печени (схема). Наверху в центре располагается центральная вена, внизу в центре – ветвь воротной вены (по Л.К. Жункейра, Ж. Карнейро).



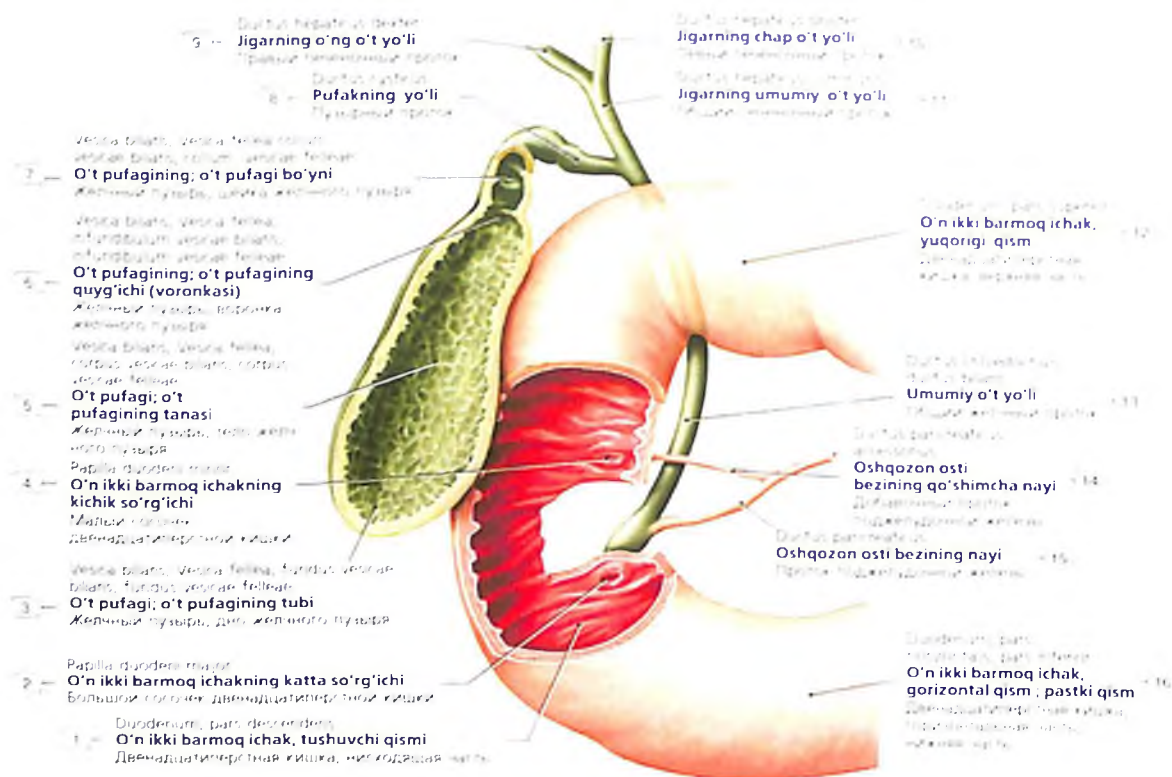


Rasm № 59. Jigarning portal segmentlari.
Рисунок № 59. Портальные сегменты печени.



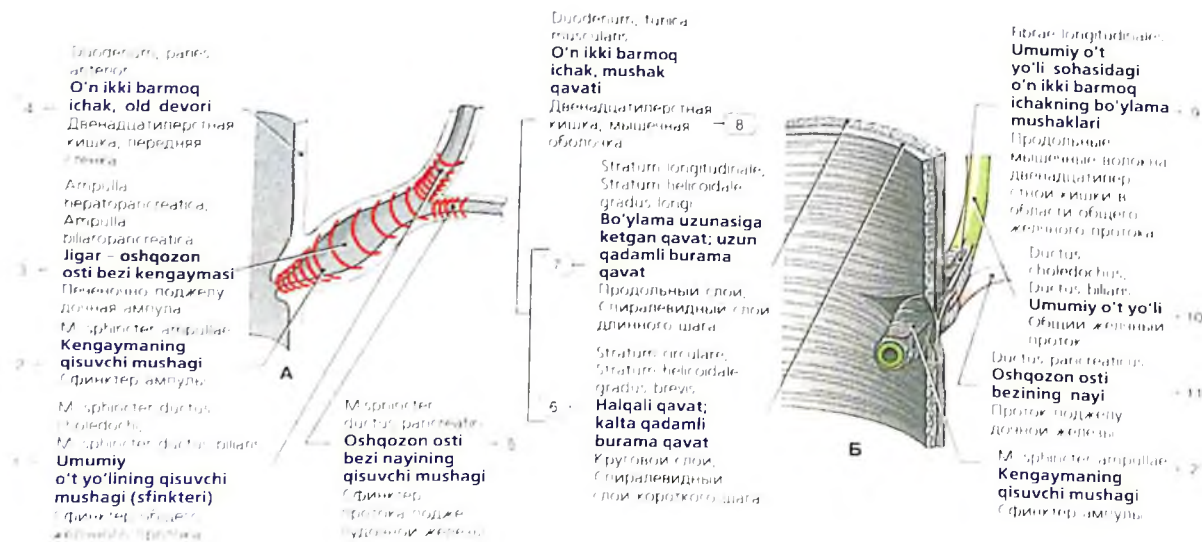
Rasm № 60. Jigar bo'lakchasining qon bilan ta'minlanishi.
Рисунок № 60. Кровоснабжение печеночной долики

- | | | |
|---------------------------------|--------------------------------|--------------------|
| 1. Segmental artery and vein | 5. Perlobular artery and veins | 9. Sublobular vein |
| 2. Hepatic portal vein | 6. Sinusoid | 10. Hepatic vein |
| 3. Hepatic artery | 7. Central vein | |
| 4. Interlobular artery and vein | 8. Lobule of liver | |



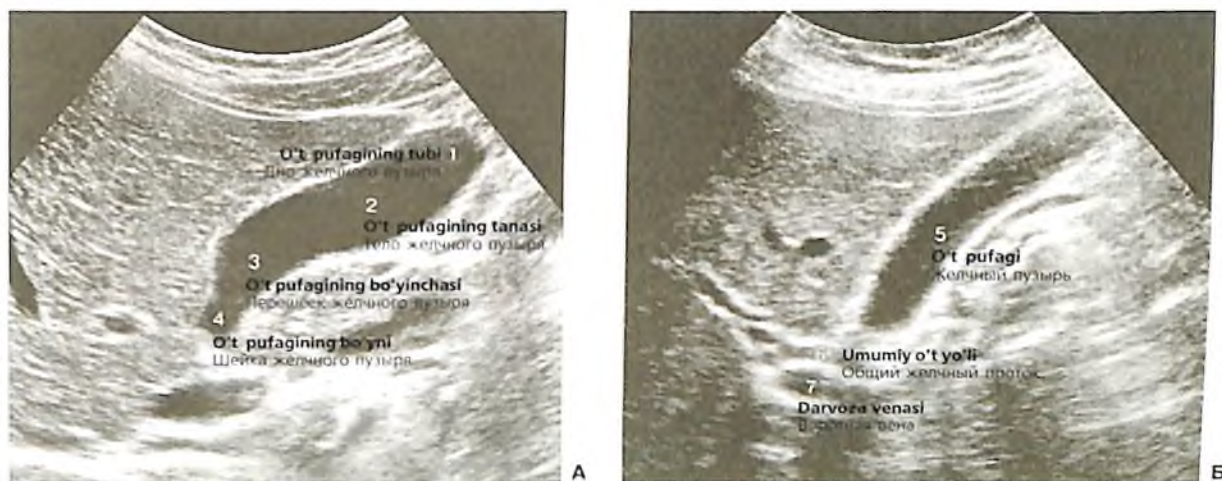
Rasm № 61. O't pufagi va o'n ikki barmoq ichak. Рисунок № 61. Желчный пузырь и двенадцатиперстная кишка.

- | | | | | |
|--------------------------------------|--|------------------------------------|----------------------------|--|
| 1 Duodenum, descending part | 5 Gallbladder, body of gallbladder | 7 Gallbladder, neck of gallbladder | 10 Left hepatic duct | 14 Accessory pancreatic duct |
| 2 Major duodenal papilla | 6 Gallbladder, infundibulum of gallbladder | 8 Cystic duct | 11 Common hepatic duct | 15 Pancreatic duct |
| 3 Gallbladder, fundus of gallbladder | | 9 Right hepatic duct | 12 Duodenum, superior part | 16 Duodenum, inferior part, horizontal part, transverse part |
| 4 Minor duodenal papilla | | | 13 Bile duct | |

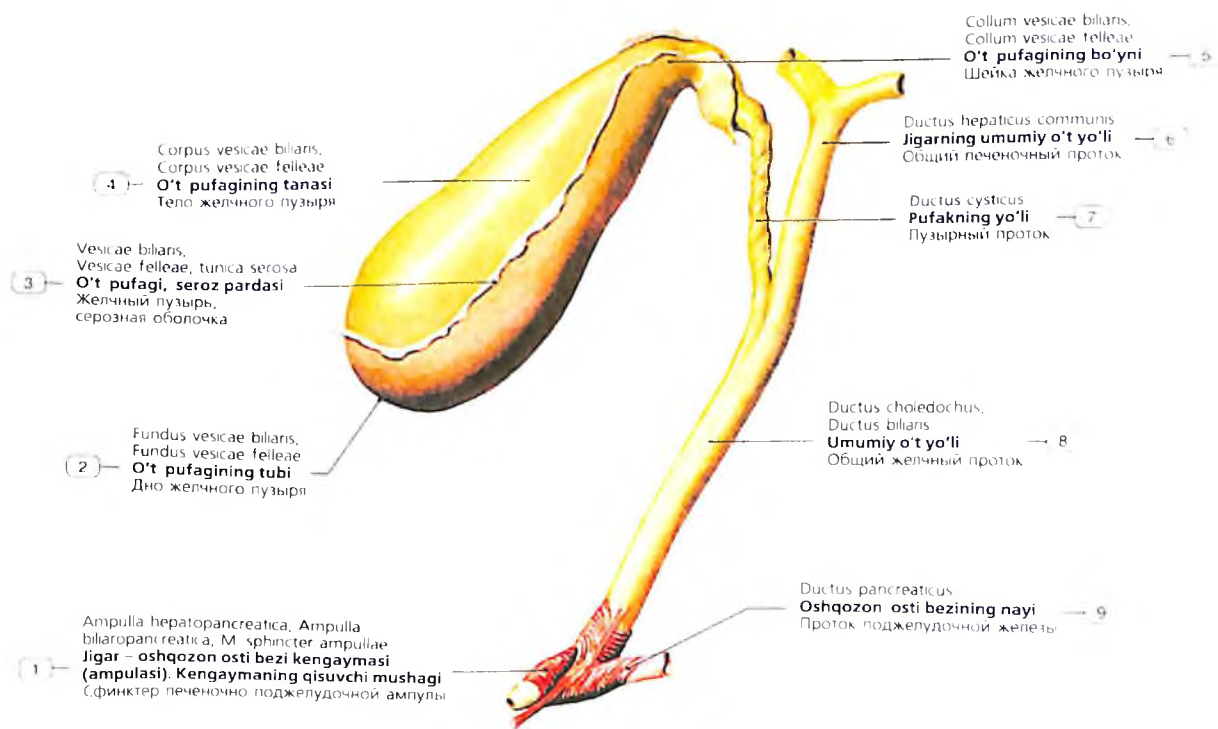


Rasm № 62. O't chiqaruv yo'llarining sfinkterlari (A – chizma; B – rekonstruksiya qilingan). Рисунок № 62. Сфинктеры желчевыводящих путей (А – схема; Б – реконструкция).

- | | | | |
|---------------------------|--|--|--------------------|
| 1 Sphincter of bile duct | 5 Sphincter of pancreatic duct | 8 6+7 Duodenum, muscular layer, muscular coat | 10 Bile duct |
| 2 Sphincter of ampulla | 6 Circular layer, short pitch helicoid layer | 9 Longitudinal slips of duodenal muscular coat, common bile duct | 11 Pancreatic duct |
| 3 Helicoid layer, ampulla | 7 Helicoid layer, long pitch helicoid layer | | |
| 4 Sphincter of ampulla | | | |

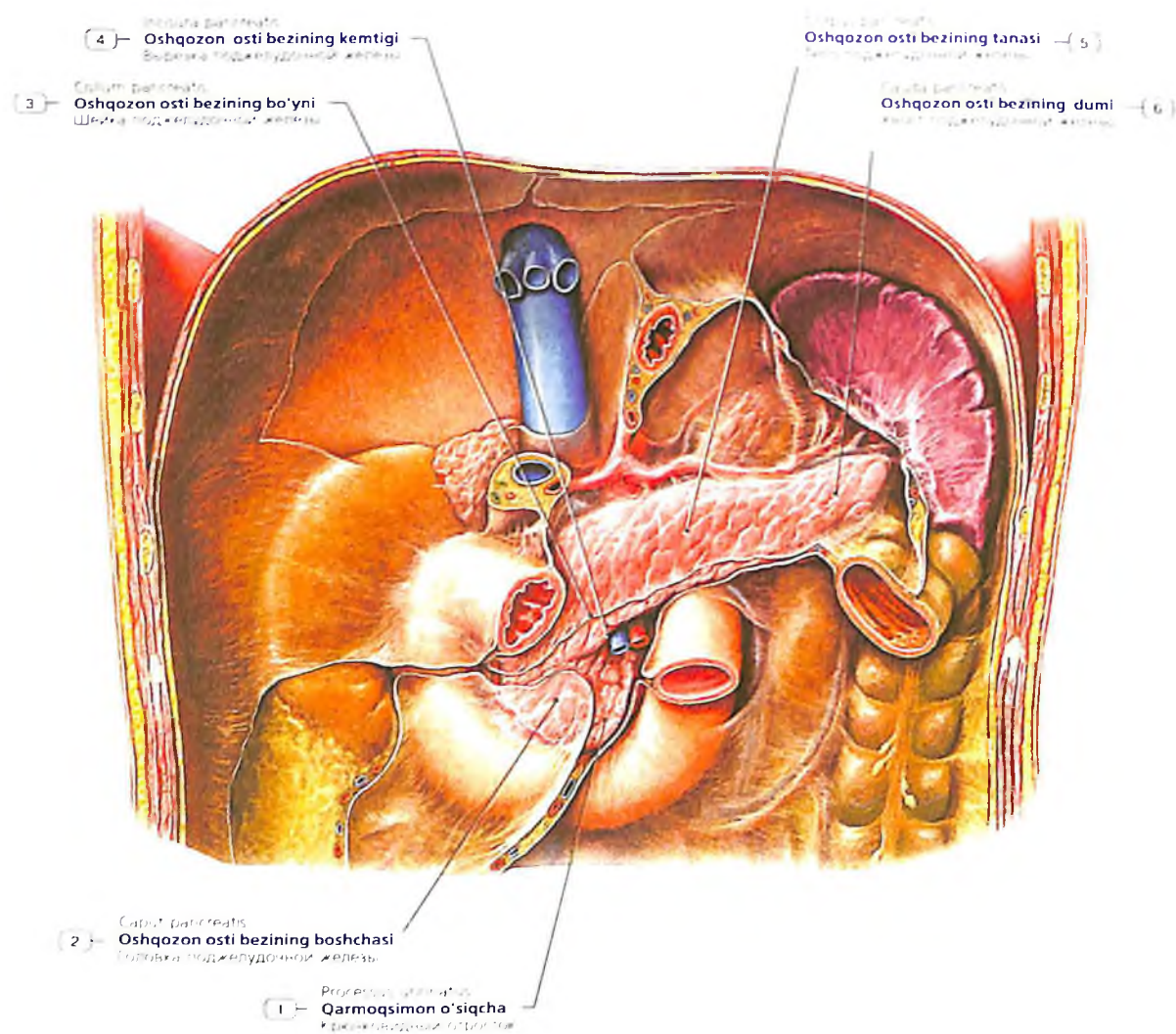


Rasm № 63. UTT o't pufagi, B-rejim (holat) (A – o't pufagi bo'ylamasiga skanirlangan; B – umumiy o't yo'li) (S.K. Ternov bo'yicha).
Рисунок № 63. УЗИ желчного пузыря, B-режим (А – желчный пузырь, продольное сканирование; Б – общий желчный проток) (по С.К. Терновому).



Rasm № 64. O't pufagi va o't chiqaruv yo'llari.
Рисунок № 64. Желчный пузырь и желчные протоки.

- | | | | |
|-----------------------------|-----------------------------|------------------------|--------------------|
| 1. Hepatopancreatic ampulla | 2. Fundus of gallbladder | 5. Neck of gallbladder | 8. Bile duct |
| Biliopancreatic ampulla | 3. Gallbladder, serous coat | 6. Common hepatic duct | 9. Pancreatic duct |
| Sphincter of ampulla | 4. Body of gallbladder | 7. Cystic duct | |



Rasm № 65. Oshqozon osti bezining tuzilishi va topografiyasi.
Рисунок № 65. Строение и топография поджелудочной железы.

1. Head of pancreas 4. Neck of pancreas 5. Body of pancreas
2. Neck of pancreas 6. Tail of pancreas

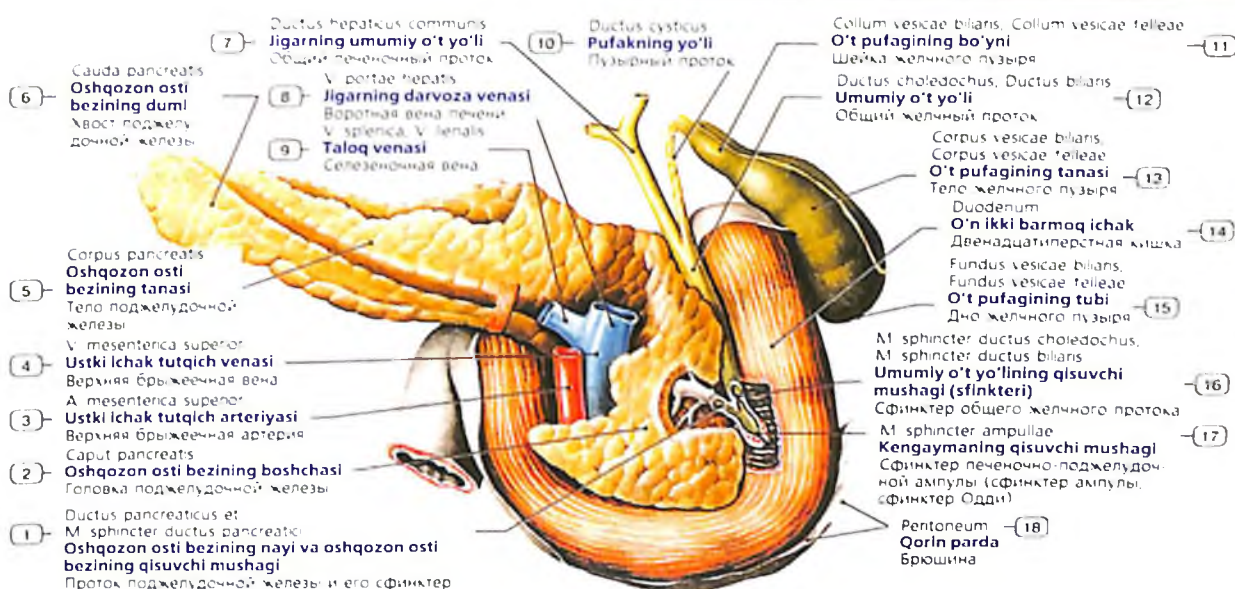
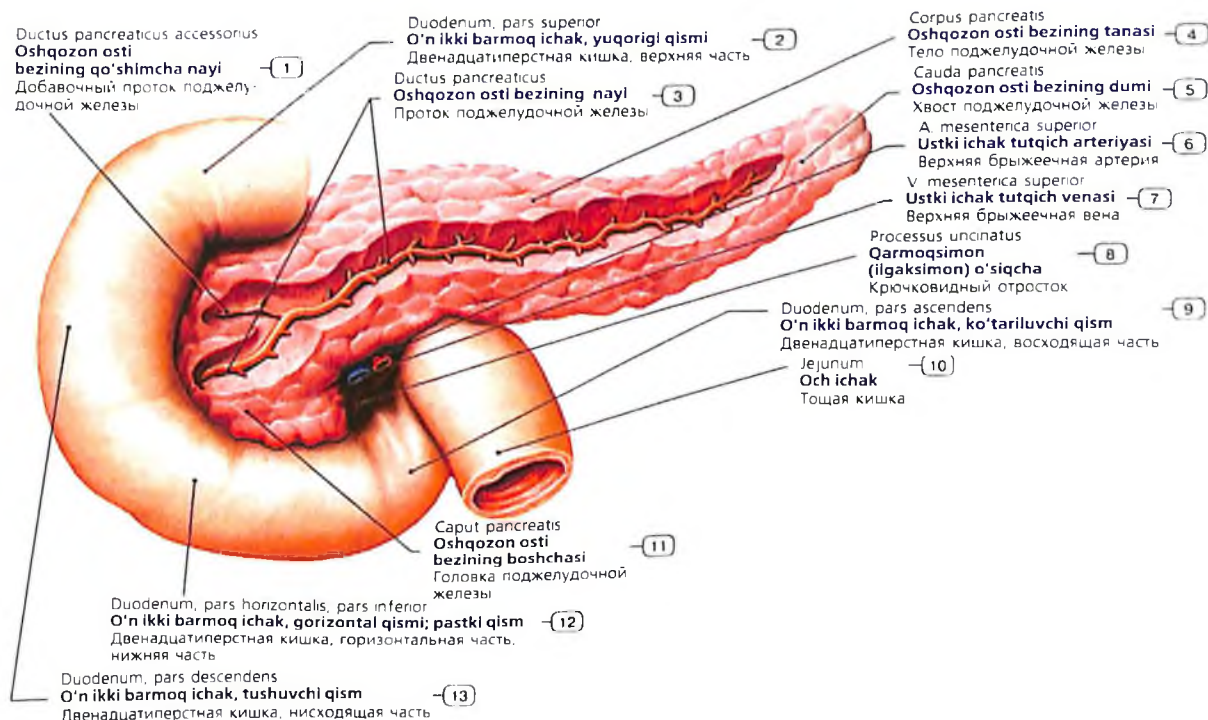


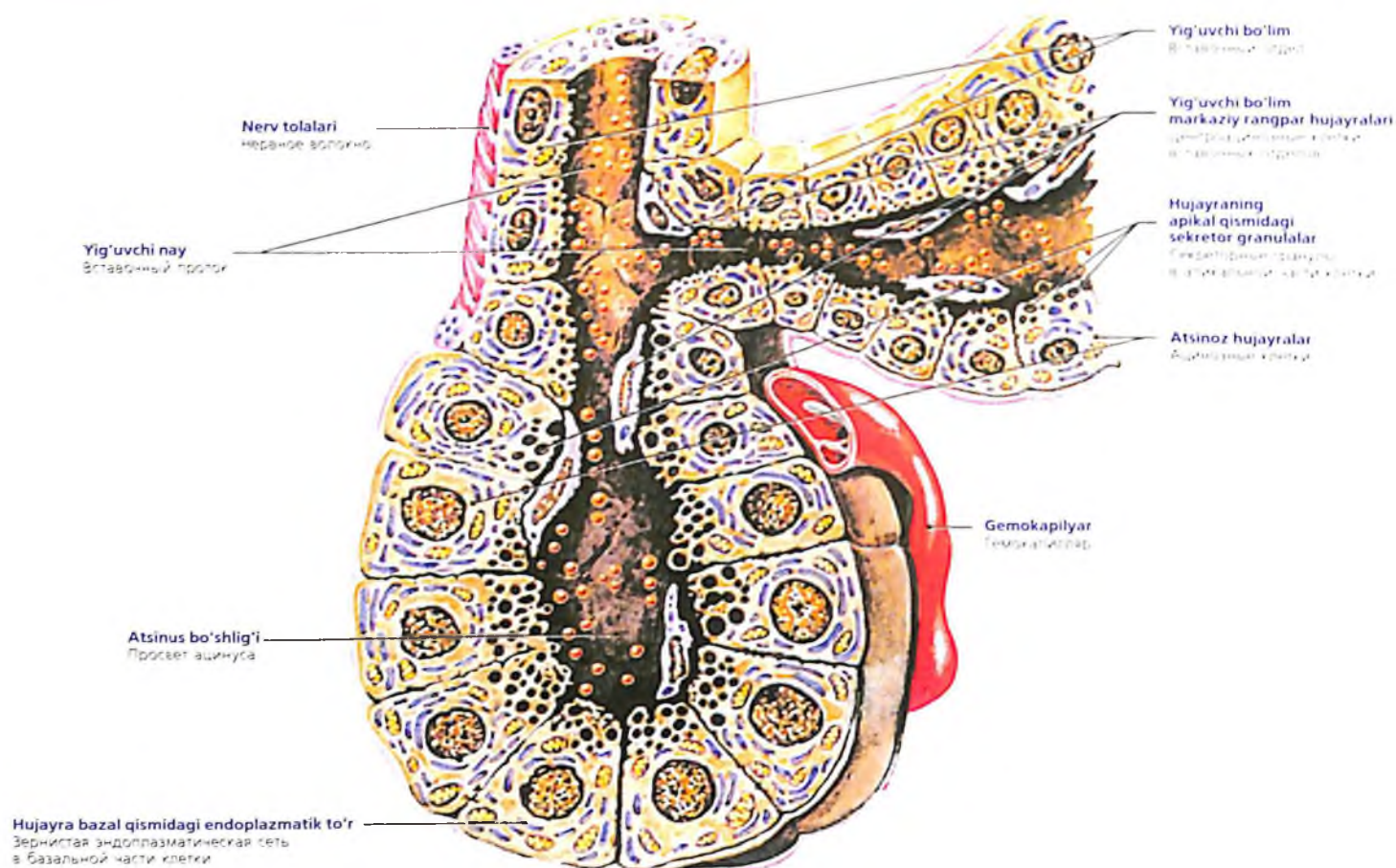
Рисунок № 66. Поджелудочная железа, желчный пузырь, желчные протоки и двенадцатиперстная кишка, вид сзади.
Rasm № 66. Oshqozon osti bezi, o't pufagi, o't yo'llari va o'n ikki barmoqli ichak, orqa tomondan ko'rinishi.

- | | | | |
|--|-----------------------|------------------------|---------------------------|
| 1 Pancreatic duct and sphincter of pancreatic duct | 5 Body of pancreas | 10 Cystic duct | 15 Fundus of gallbladder |
| 2 Head of pancreas | 6 Tail of pancreas | 11 Neck of gallbladder | 16 Sphincter of bile duct |
| 3 Superior mesenteric artery | 7 Common hepatic duct | 12 Bile duct | 17 Sphincter of ampulla |
| 4 Superior mesenteric vein | 8 Hepatic portal vein | 13 Body of gallbladder | 18 Peritoneum |
| | 9 Splenic vein | 14 Duodenum | |



Rasm № 67. Oshqozon osti bezi va o'n ikki barmoqli ichak, old tomondan ko'rinishi.
Рисунок № 67. Поджелудочная железа и двенадцатиперстная кишка, вид спереди.

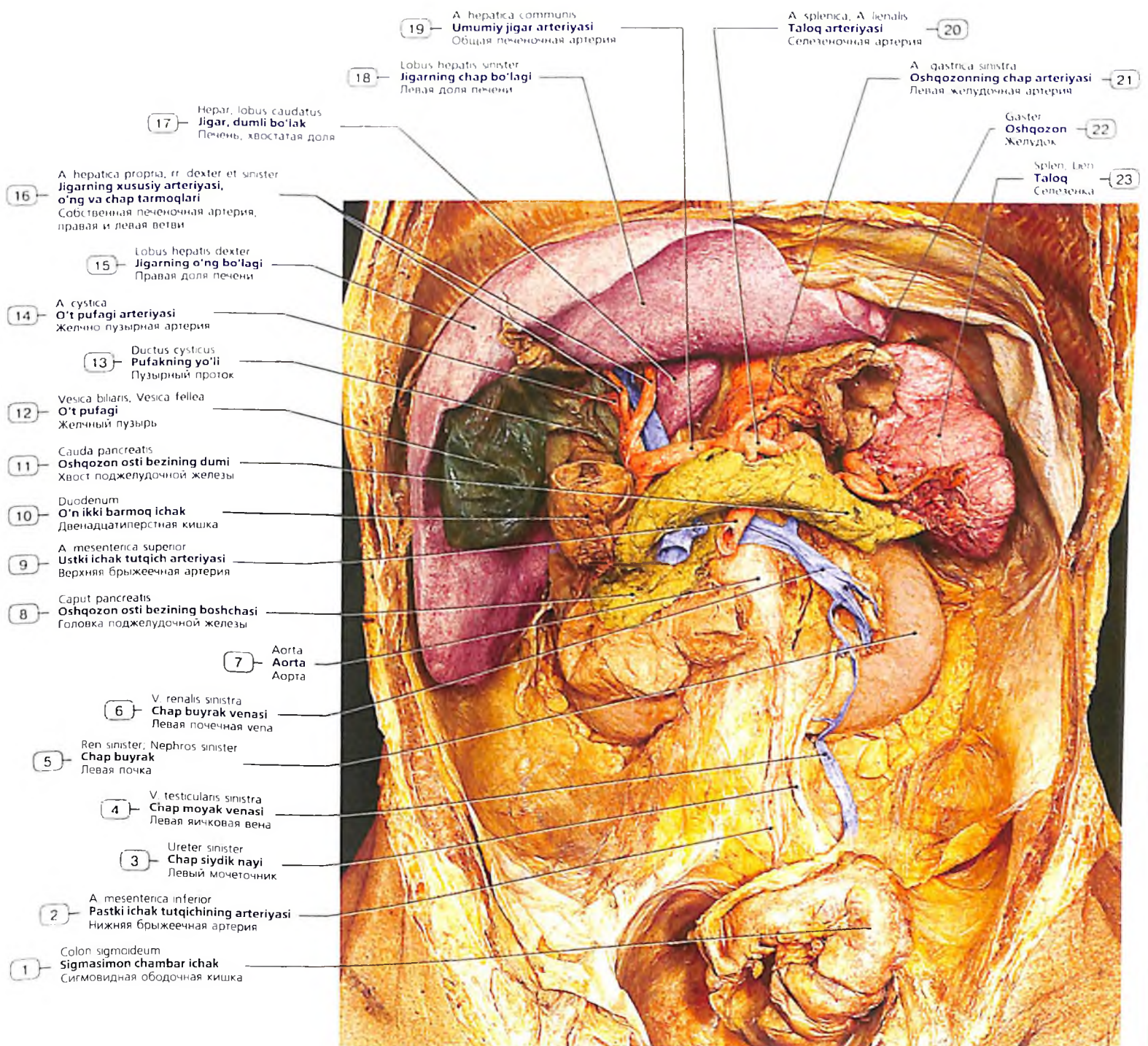
- | | | |
|------------------------------|----------------------------|--|
| 1 Accessory pancreatic duct | 7 Superior mesenteric vein | 12 Duodenum, horizontal part, transverse part, inferior part |
| 2 Duodenum, superior part | 8 Uncinate process | 13 Duodenum, descending part |
| 3 Pancreatic duct | 9 Duodenum, ascending part | |
| 4 Body of pancreas | 10 Jejunum | |
| 5 Tail of pancreas | 11 Head of pancreas | |
| 6 Superior mesenteric artery | | |



Rasm № 68. Oshqozon osti bezi atsinusining tuzilishi (chizma).
Рисунок № 68. Строение ацинуса поджелудочной железы (схема).



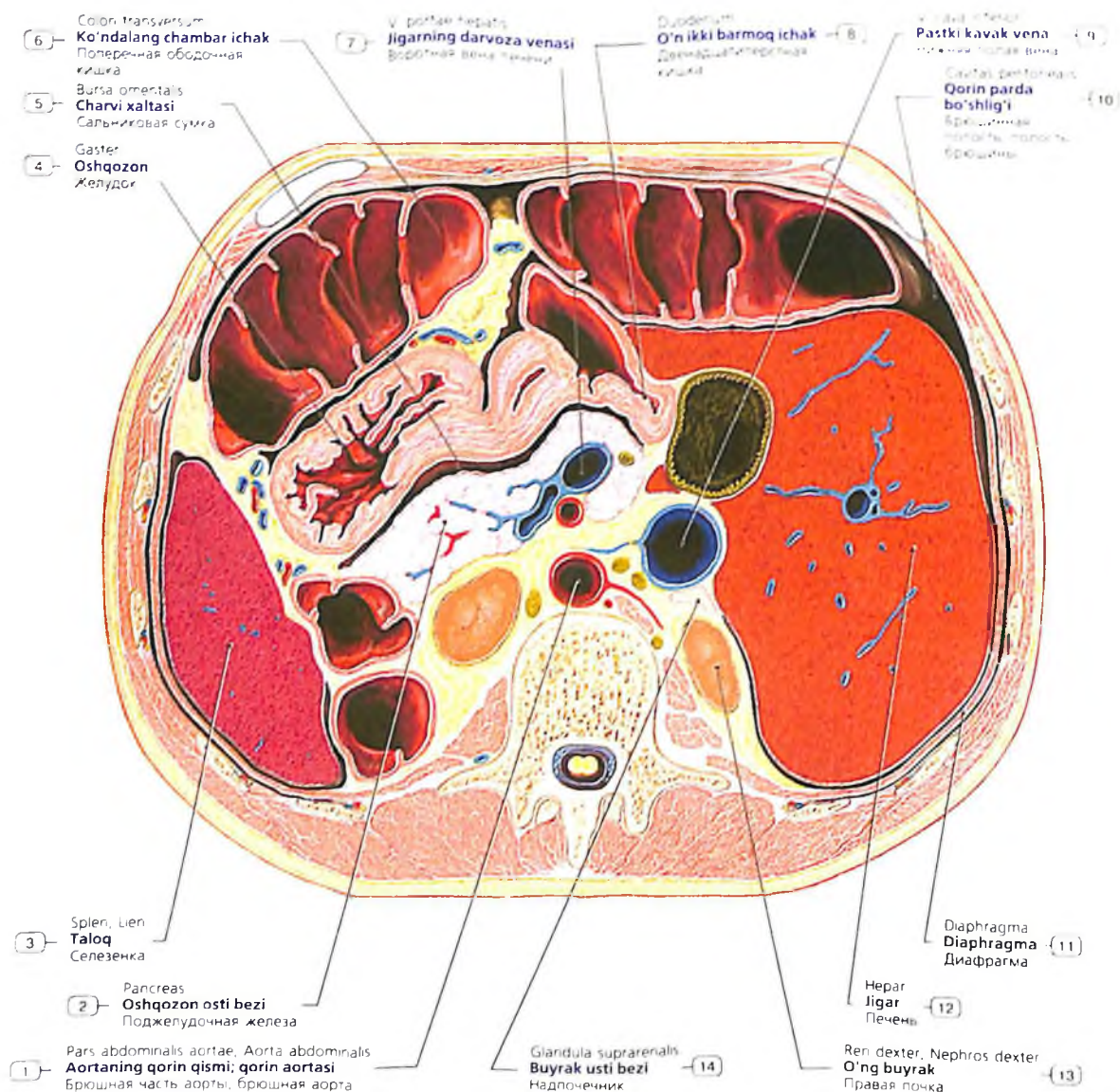
Rasm № 69. UTT oshqozon osti bezi, VB-rejim, ko'ndalang skanirlangan (A – oshqozon osti bezini tekshirish UT markerlari, B – oshqozon osti bezi) (S.K. Ternov bo'yicha).
Рисунок № 69. УЗИ поджелудочной железы; В-режим, поперечное сканирование (А – УЗ-маркеры при исследовании поджелудочной железы; Б – поджелудочная железа) (по С. К. Тернову).



Rasm № 70. Qorin bo'shlig'i a'zolari, ichaklarning katta qismi olib tashlangan (preparatning tabiiy ko'rinishi).

Рисунок № 70. Органы брюшной полости, большая часть кишечника удалена (фотография натурального препарата).

- | | | | | |
|------------------------------|------------------------------|------------------------|---|-------------------|
| 1 Sigmoid colon | 6 Left renal vein | 11 Tail of pancreas | 16 Hepatic artery proper, right and left branches | 20 Splenic artery |
| 2 Inferior mesenteric artery | 7 Aorta | 12 Gallbladder | 21 Left gastric artery | 22 Stomach |
| 3 Left ureter | 8 Head of pancreas | 13 Cystic duct | 22 Stomach | 23 Spleen |
| 4 Left testicular vein | 9 Superior mesenteric artery | 14 Cystic artery | 18 Left lobe of liver | |
| 5 Left kidney | 10 Duodenum | 15 Right lobe of liver | 19 Common hepatic artery | |



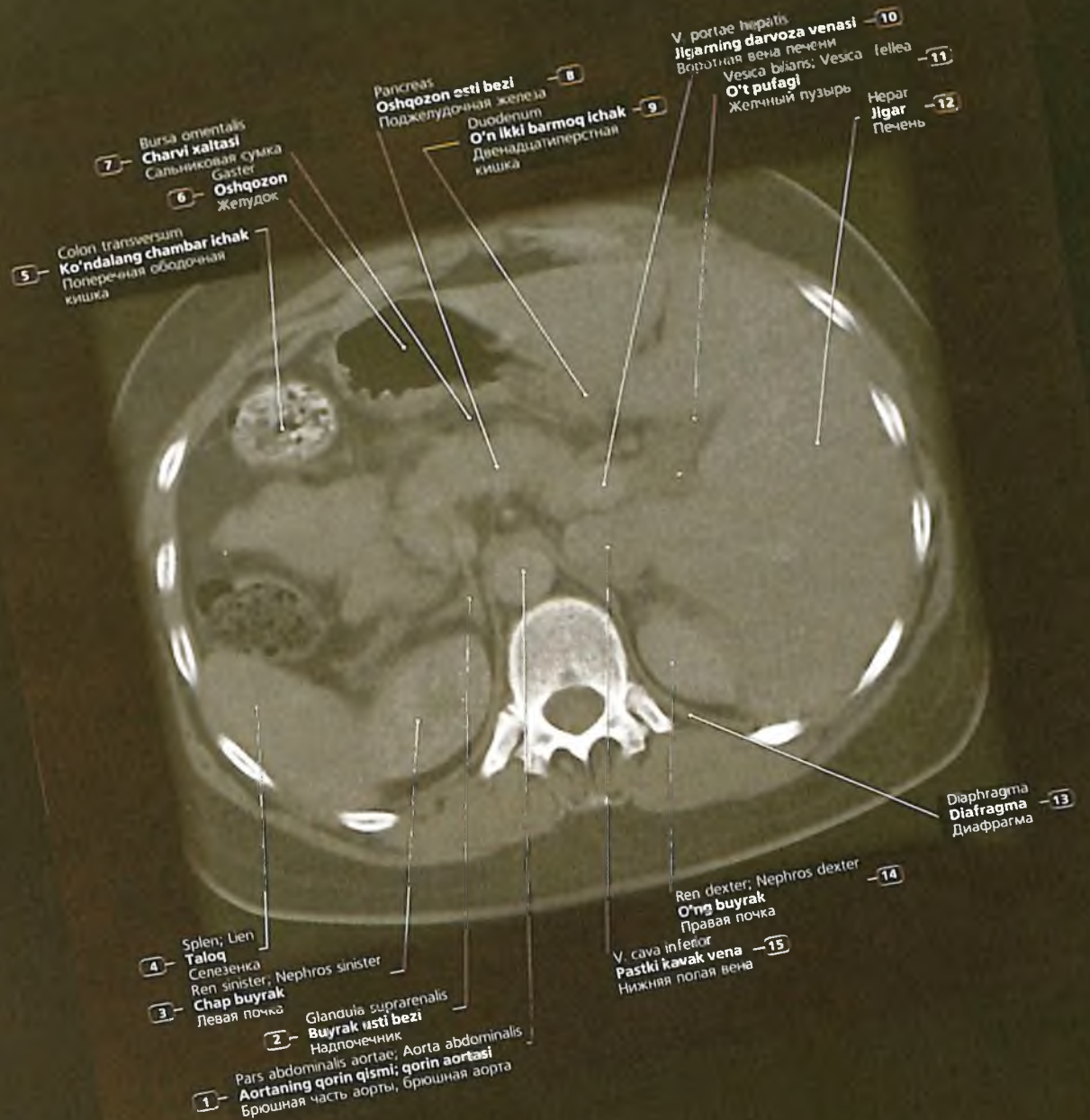
Rasm № 71. Qorin bo'shlig'ining ko'ndalang kesimi. Darvoza venasining hosil bo'lish sathi. Tananing kesimi.

Рисунок № 71. Поперечное сечение полости живота.

Уровень формирования воротной вены печени. Распил туловища.

- | | | |
|------------------------------|------------------------|-------------------------------------|
| 1. Abdominal aorta | 6. Transverse colon | 11. Diaphragm |
| 2. Pancreas | 7. Hepatic portal vein | 12. Liver |
| 3. Spleen | 8. Duodenum | 13. Right kidney |
| 4. Stomach | 9. Inferior vena cava | 14. Suprarenal gland, Adrenal gland |
| 5. Omental bursa, lesser sac | 10. Peritoneal cavity | |

OVQAT HAZM QILISH A'ZOLARI TIZIMI



Rasm № 72. Qorin bo'shlig'i ko'ndalang kesimi. Darvoza venasining hosil bo'lish sathi.
Рентген компьютер томографи.
Рентгеновская компьютерная томограмма.

- 1 Abdominal aorta
- 2 Suprarenal gland; Adrenal gland

- 4 Spleen
- 5 Transverse colon
- 6 Stomach
- 7 Omental bursa; Lesser sac

- 8 Pancreas
- 9 Duodenum
- 10 Hepatic portal vein
- 11 Gallbladder

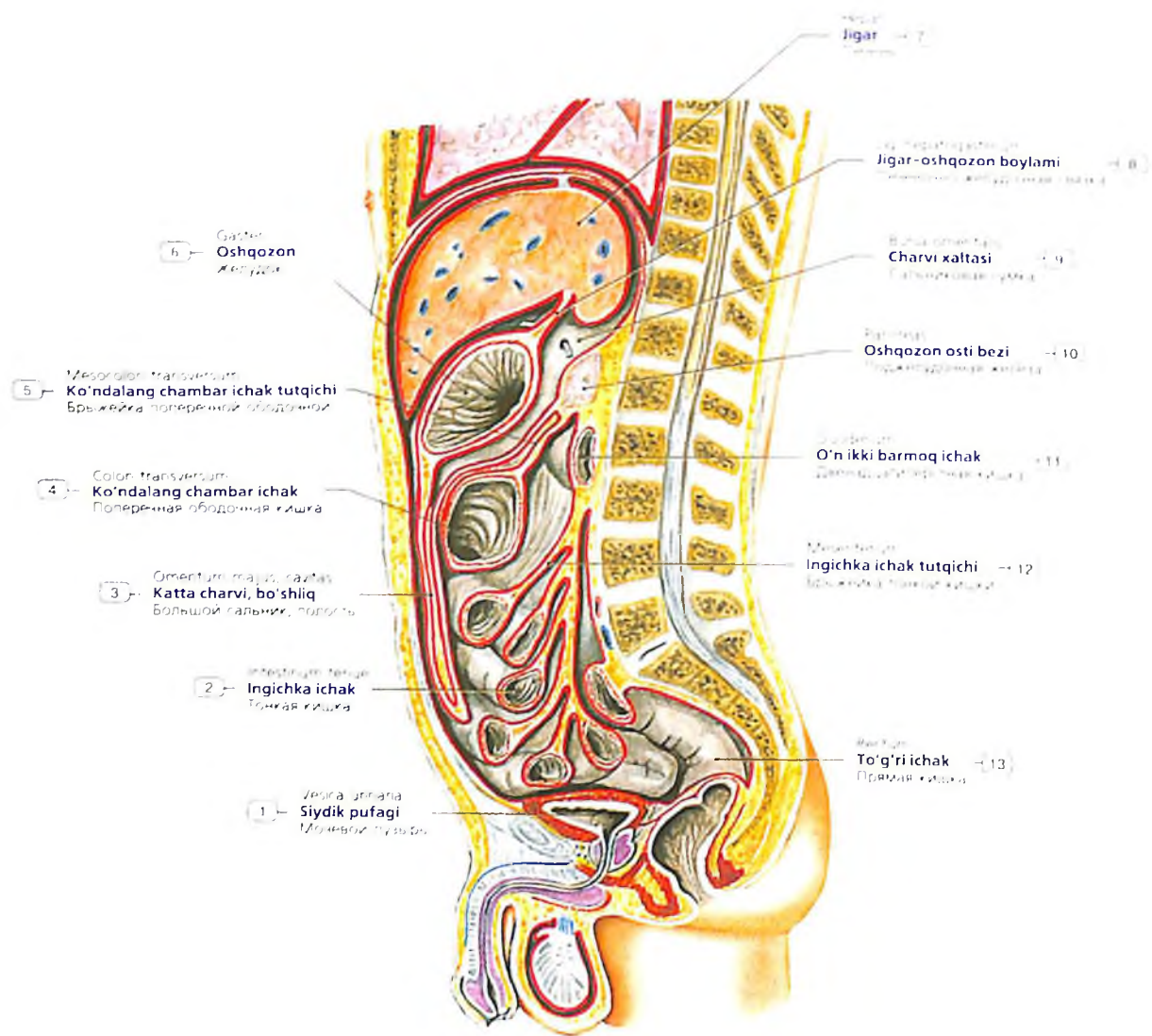
- 12 Liver
- 13 Diaphragm
- 14 Right kidney
- 15 Inferior vena

8 – jadval. Ovqat hazm qilish tizimining sfinkterli apparati
(L.L. Kolesnikovdan, o'zgartirishlar bilan)

Organ	Sfinkter	Joylashishi	Tuzilishi
Qizil o'ngach	Yuqori sfinkter	Uzüksimon tog'ay plastinkasining pastki qismi, uzüksimon halqum muskuli tasma qismi sohasida, III - IV kekirdak tog'aylari to'g'risida	Sirkulyar (aylana) muskul qavat 25 - 30 mm ga kengaygan
	Pastki sfinkter (Lerxe sfinkteri)	Qizil o'ngachning oshqozonga o'tish qismida	Uzunligi 31 mm atrofiga bo'lgan oshqozonning kichik egriligidan katta egriligiga qiyshiq pastdani yuqoriga yo'nalgan aylana muskul
Oshqozon	Kardial qovuzloq (Galvetsiya qovuzlog'i)	Oshqozonning kardial o'ymasi burchagidan oshqozonning kichik egriligi bo'ylab	Kengligi 6 - 21 mm bo'lgan qiyshiq mushak tutamlari shaklida
	Pilonik sfinkter	Oshqozonni o'n ikki barmoq ichakka o'tish joyida	Sirkulyar mushak qavatning qalinlashishi hisobiga
O'n ikki barmoq ichak	Bulboduodenal sfinkter	Postpilonik sfinkter, o'n ikki barmoq ichak poyozchasini ichakning qolgan qismlaridan ajratib turadi	Ichak sirkulyar qavatining qalinlashuvi hisobiga
	Medioduodenal sfinkter (Kapandji sfinkteri)	O'n ikki barmoq ichak tushuvchi qismining o'rta uchdan bir qismida	Ichak sirkulyar qavatining qalinlashuvi hisobiga
	Oksner sfinkteri	O'n ikki barmoq ichak pastki gorizontal qismida, umumiy o't yo'lining quyilish joyini o'rab oladi	Ichak sirkulyar qavatining qalinlashuvi hisobiga
	Supralateral sfinkter	Fater so'rg'ichining ustki qismida, umumiy o't yo'lini quyilish joyidan 2 sm yuqorida	Ichak sirkulyar qavatining qalinlashuvi hisobiga
	Prepapilyar sfinkter	Katta duodenal so'rg'ich proyeksiyalanadigan sohada	Sirkulyar mushak qatlamining 2-6 sm kenglikda qalinlashib tortilishi hisobiga
	Infrapapilyar sfinkter	Umumiy o't va me'da osti bezi yo'llarining quyilish joyidan 3-10 sm pastroqda	Kengligi 2-2,5 sm bo'lgan sirkulyar mushak tolalari qalinlashuvi hisobiga
Yo'g'on ichak	Ileosekal klapan (qopqoq), (Baugin klapani, qopqog'i)	Yonbosh ichak oxirining ko'r ichakka 2,5-5 sm gacha kirishi (invaginatsiyasi) hisobiga hosil bo'ladi. Ikkita lab (yuqorigi va pastki) bilan chegaralangan teshik bo'lib, lablar yuganchalar bilan tutashgan	Qopqoq to'qimasi ichida sirkulyar mushak tolalari (ichki anatomik sfinkter) mavjud. Har bir lab tashqaridan shilliq qavat bilan o'ralgan sirkulyar mushak tutamlaridan iborat. Yuganchalar esa silliq mushakdan tuzilgan
	Ko'r ichak - ko'tariluvchi chambar ichak sfinkteri (Buzi sfinkteri)	Ko'r va ko'tariluvchi chambar ichak chegarasida	sirkulyar mushak qavatining qalinlashishi hisobiga
	Ko'tariluvchi chambar ichak sfinkteri (Girsh sfinkteri)	Ko'taruvchi chambar ichakning o'rta qismida	sirkulyar mushak qavatining qalinlashishi hisobiga
	Chambar ichak chap bukilmasi sfinkteri	Chambar ichakning taloq bukilmasi sohasida	sirkulyar mushak qavatining qalinlashishi hisobiga
	Tushuvchi chambar ichak - sigmasimon sfinkteri (Balli sfinkteri)	Tushuvchi chambar ichakning sigmasimon chambar ichakka o'tish sohasida	sirkulyar ba'zan bo'ylama mushak qavatlarining qalinlashishi hisobiga
	Sigmasimon chambar ichak sfinkteri	Sigmasimon chambar ichakning taxminan o'rta qismida	sirkulyar ba'zan bo'ylama mushak qavatlarining qalinlashishi hisobiga
	Sigmasimon to'g'ri ichak sfinkteri (O'berna - Pirogov - Mut'e sfinkteri)	Sigmasimon chambar ichagning to'g'ri ichakka o'tish zonasining ko'tarilgan joyida	sirkulyar ba'zan bo'ylama mushak qavatlarining qalinlashishi hisobiga
	To'g'ri ichakning ichki sfinkteri	To'g'ri ichakning oraliq egriligi sohasida	sirkulyar mushak qavatining qalinlashishi hisobiga. Sfinkterning qalinligi 5 mm
	Orqa peshovning tashqi sfinkteri	Orqa peshovni ko'taruvchi mushak qismi hisobiga	
O't yo'llari	O't pufagi bo'yni sfinkteri	O't pufagi bo'ynini pufak nayiga o'tish sohasida	sirkulyar mushak tutamlari hisobiga
	Umumiy o't yo'lining sfinkteri	Nayni to'g'ridan-to'g'ri ampulaga o'tish joyida	sirkulyar mushak tutamlari hisobiga
	Ampula sfinkteri (oshqozon osti bezi - jigar sfinkteri)	Ampulani o'rab oladi	sirkulyar mushak tutamlari hisobiga
	Pankreatik yo'l sfinkteri	Nayni oxirgi qismini ampulaga tushishidan oldin o'rab oladi	sirkulyar mushak tutamlari hisobiga

9 – jadval. Qorin bo'shlig'i, qorin parda

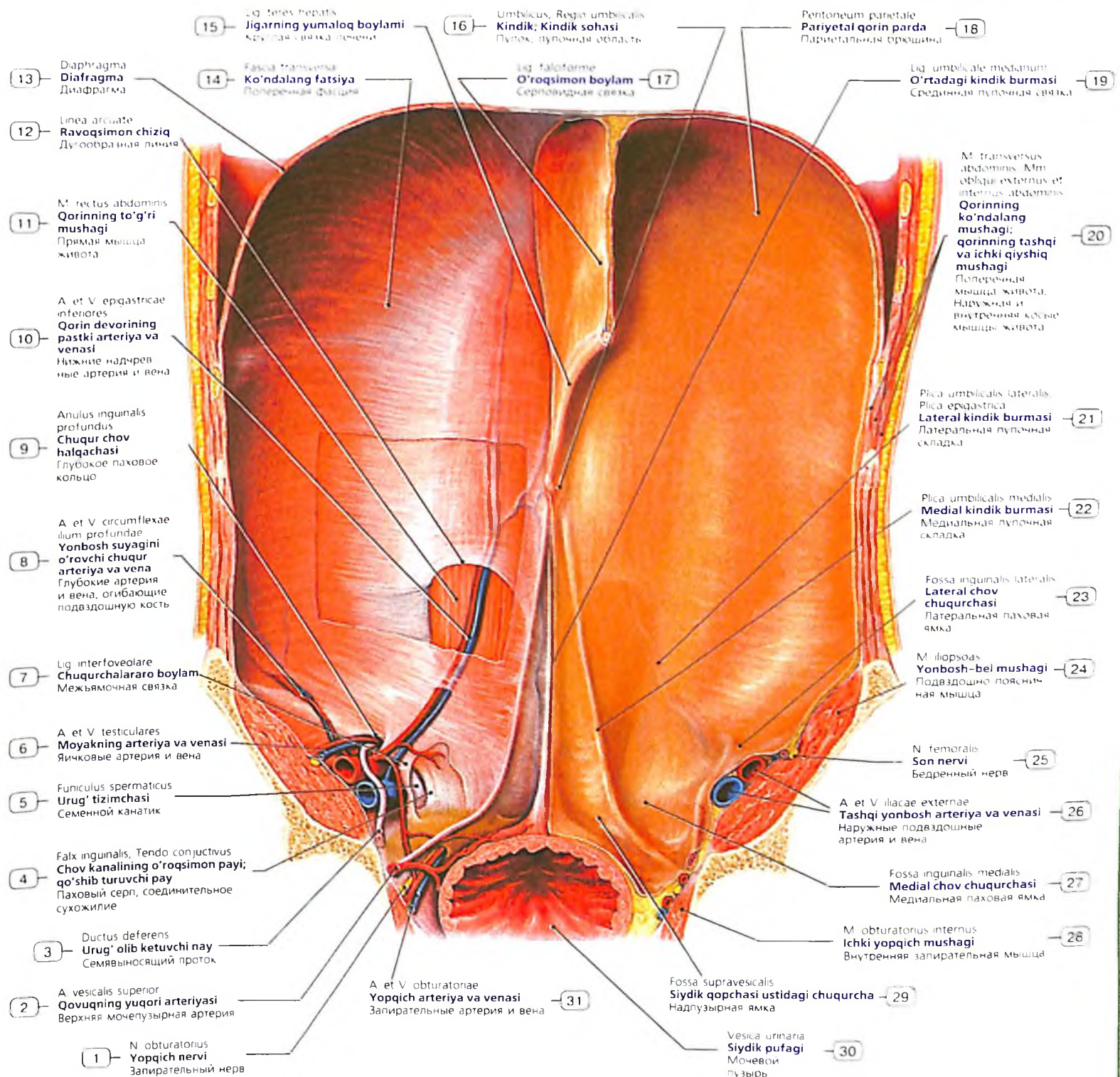
Qorin bo'shlig'i	Organlar, qorinparda burmalari, boylamlari	Chuqurchalar, qopchalar
Parietal qorin parda	O'rta kindik burmasi	Pufak usti chuqurchalari (o'ng chap)
Oldingi parietal qorin parda	Lateral kindik burmasi (juft) Medial kindik burmasi (juft) O'rta kindik burmasi (toq) Jigarning o'roqsimon boylami Jigarning tojsimon boylami Jigarning uch burchakli boylami (o'ng/chap)	Medial chov chuqurchasi (o'ng chap) Lateral chov chuqurchasi (o'ng chap)
Qorin pardaning siydik chiqaruv va jinsiy a'zolar sohasidagi qismi	To'g'ri ichak-pufak burmalari (o'ng/chap) To'g'ri ichak-bachadon burmalari (o'ng/chap)	Tog'ri ichak-pufak chuqurchasi (erkaklarda) Pufak-bachadon chuqurchasi (ayollarda) To'g'ri ichak-bachadon chuqurchasi (ayollarda)
Vitseral qorin parda	Katta charvi Oshqozon - chamber ichak boylami Oshqozon-taloq boylami Oshqozon-diafragma boylami Diafragma-taloq boylami Kichik charvi Oshqozon-jigar boylami Jigar - o'n ikki barmoqli ichak boylami Ingichka ichak tutqichi Ingichka ichak tutqichining ildizi Chambar ichak tutqichi Ko'ndalang chamber ichak tutqichi Sigmoidal ichak tutqichi	
Yuqori qavat		
Chegaralari: yuqoridan - diafragma, yon tomondan - qorin old-yon devori, pastdan - ko'ndalang chamber ichak va uning tutqichi	Qorin parda ichida joylashadi: oshqozon, jigar, taloq Qorin pardadan tashqarida joylashadi: oshqozon osti bezi, o'n ikki barmoqli ichak (piyozcha qismidan tashqari), qorin aortasi va pastki kavak vena, qorin orqa devori tomirlari, nerv tolalari, limfatik tugunlari	Jigar cho'ntagi Jigar usti yorig'i Jigar osti yorig'i Oshqozon oldi cho'ntagi Charvi cho'ntagi Yuqori va pastki charvi chuqurliklari Taloq chuqurligi Charvi teshigi (Vinslov)
Pastki qavat		
Chegaralari: yuqoridan - ko'ndalang chamber ichak, pastki tomondan - tos chanog'ini parietal qorin pardasi	Ingichka ichak, ko'r ichak, ko'tariluvchi, tushuvchi, sigmoidal chamber ichaklar Retroperitoneal tushuvchi chamber ichakning oxirgi qismi, o'n ikki barmoqli ichakning gorizonta va ko'tariluvchi qismlari; oshqozon osti bezi boshchasi pastki qismi, pastki kavak vena va aortaning bir qismi, buyraklar, siydik naylari, tomirlar, nerv tolalari, limfatik tugunlar	O'ng chamber ichak yoni egati (o'ng yon kanal) Chap chamber ichak yoni egati (chap yon kanal) Tutqich sinuslari (o'ng/chap) O'n ikki barmoqli ichakning yuqorigi va pastki chuqurliklari Yonbosh ko'r ichak yuqorigi va pastki chuqurchalari Sigmoidal ichaklararo chuqurlik



Rasm № 73. Ichki a'zolarning qorin pardaga nisbatan joylashishi, tananing o'rta (sagittal) kesimi (chizma).

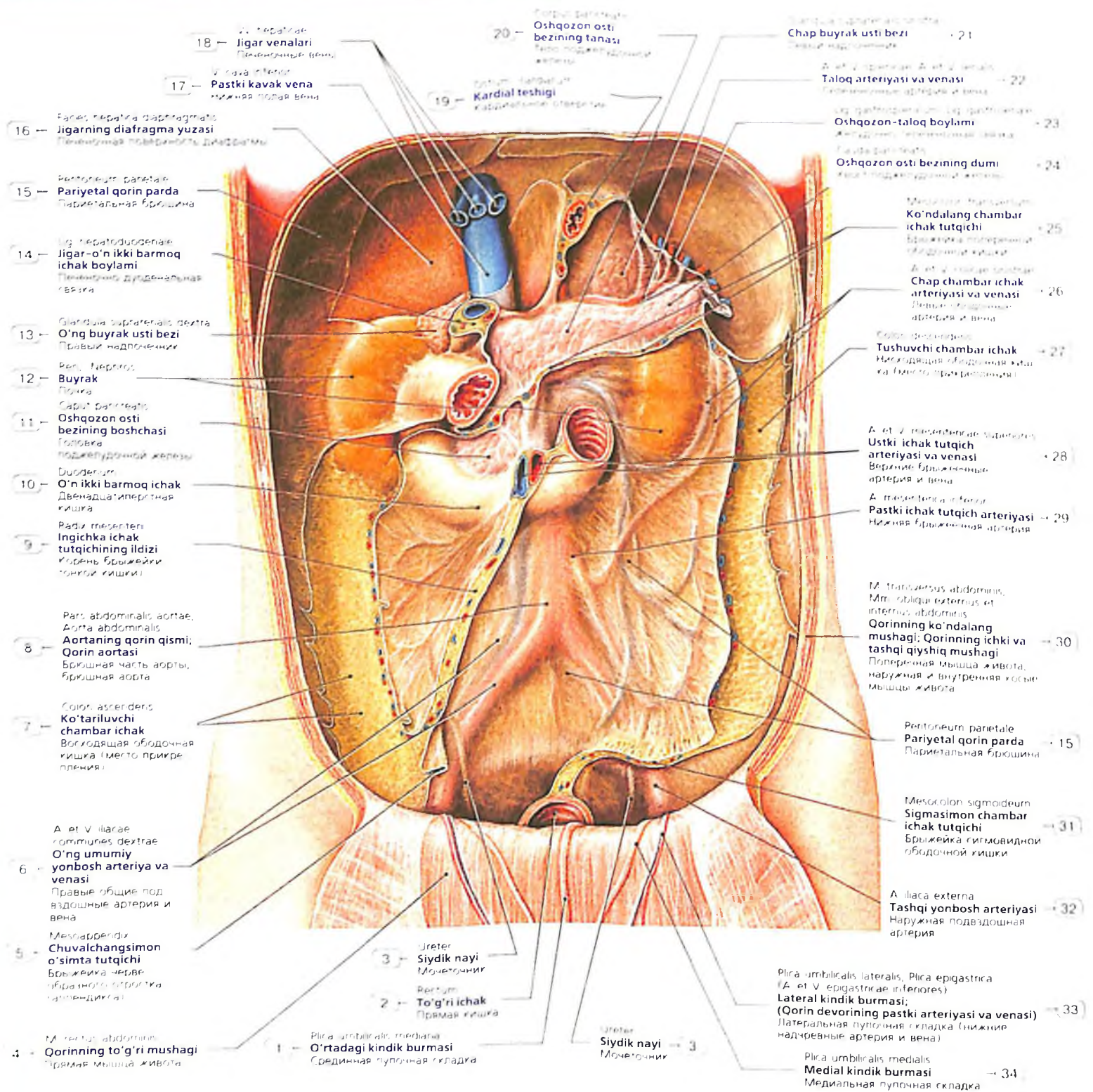
Рисунок № 73. Отношение внутренних органов к брюшине, срединный (сагиттальный) разрез туловища (схема).

- | | | |
|-----------------------------|--------------------------------|----------------|
| 1 - Urinary bladder | 6 - Stomach | 11 - Duodenum |
| 2 - Small intestine | 7 - Liver | 12 - Mesentery |
| 3 - Greater omentum, cavity | 8 - Hepatogastric ligament | 13 - Rectum |
| 4 - Transverse colon | 9 - Oriental bursa, lesser sac | |
| 5 - Transverse mesocolon | 10 - Pancreas | |



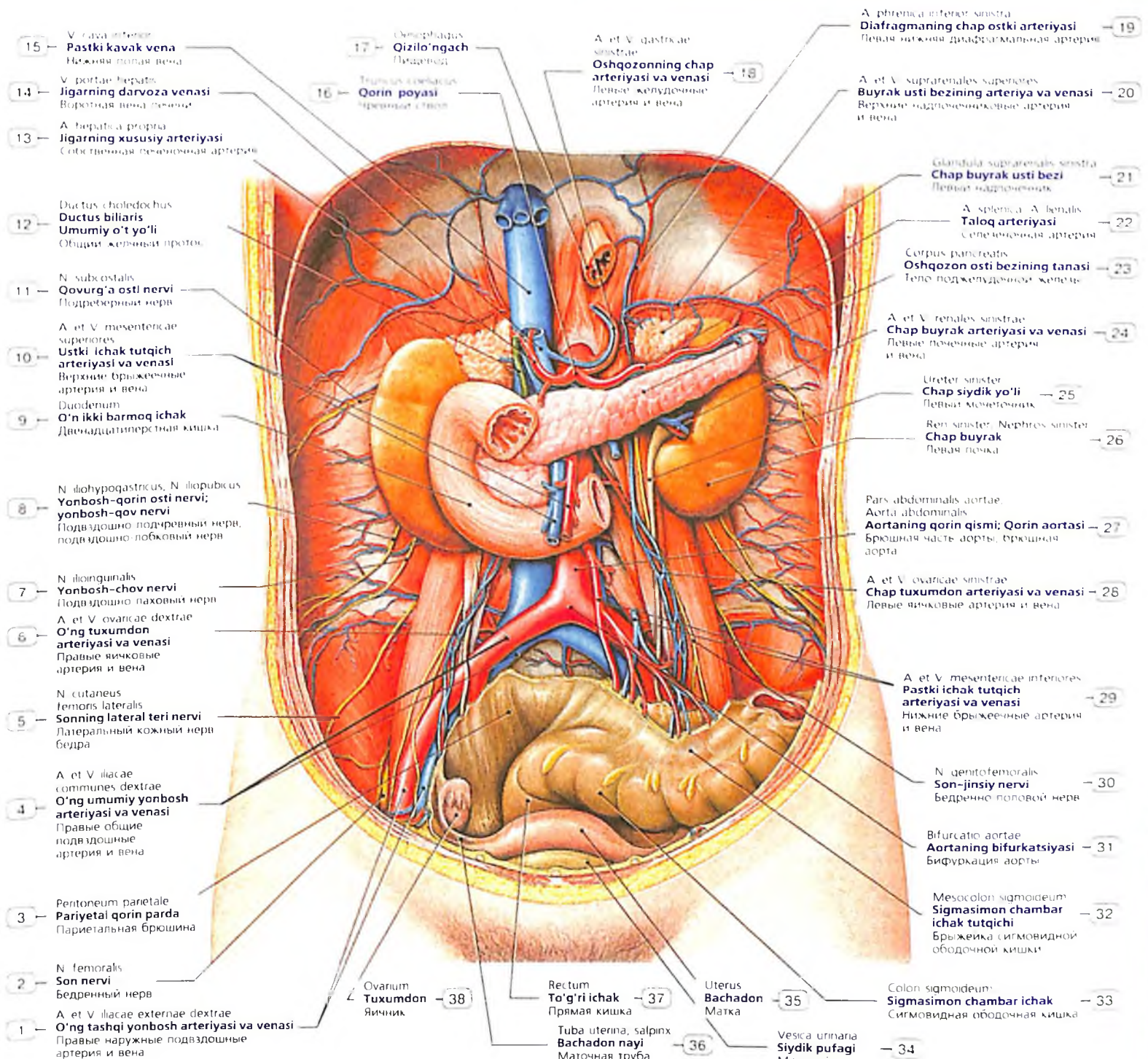
Rasm № 74. Qorin oldingi devori qorin pardasi, ichki tomondan ko'rinishi.
Рисунок № 74. Брюшина передней стенки живота, вид изнутри.

- | | | | | |
|----------------------------------|---|------------------------------|-------------------------------|-----------------------------------|
| 1 Obturator nerve | 7 Interfoveolar ligament | 13 Diaphragm | Transverse abdominal, | 26 External iliac artery and vein |
| 2 Superior vesical artery | 8 Deep circumflex iliac artery and vein | 14 Transverse fascia | External and internal oblique | 27 Medial inguinal fossa |
| 3 Ductus deferens, Vas deferens | 9 Deep inguinal ring | 15 Round ligament of liver | 21 Lateral umbilical fold, | 28 Obturator internus |
| 4 Inguinal falx, Conjoint tendon | 10 Inferior epigastric artery and vein | 16 Umbilical region | Epigastric fold | 29 Suprapubic fossa |
| 5 Spermatic cord | 11 Rectus abdominis | 17 Falciform ligament | 22 Medial umbilical fold | 30 Urinary bladder |
| 6 Testicular artery and vein | 12 Arcuate line | 18 Parietal peritoneum | 23 Lateral inguinal fossa | 31 Obturator artery and vein |
| | | 19 Median umbilical ligament | 24 Iliopsoas | |
| | | 20 Transversus abdominis | 25 Femoral nerve | |



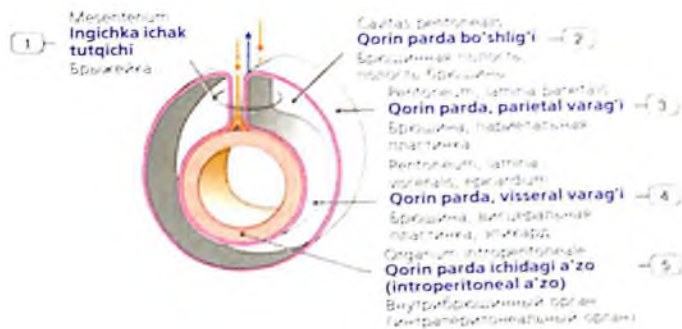
Rasm № 75. Qorin orqa devori qorin pardasi, ichkaridan ko'rinishi.
Рисунок № 75. Брюшина задней стенки живота, вид изнутри.

- | | | | | |
|---------------------------------|---|---|--|---|
| 1. Medial umbilical fold | 10. Duodenum | 18. Hepatic veins | 26. Left colic artery and vein | 32. External iliac artery |
| 2. Pteron | 11. Head of pancreas | 19. Cardial orifice | 27. Descending colon | 33. Lateral umbilical fold, Epigastric fold (inferior epigastric artery and vein) |
| 3. Ureter | 12. Kidney | 20. Body of pancreas | 28. Superior mesenteric artery and vein | 34. Medial umbilical fold |
| 4. Pectoralis abdominis | 13. Right suprarenal gland, Right adrenal gland | 21. Left suprarenal gland, Left adrenal gland | 29. Inferior mesenteric artery | |
| 5. Mesocarpus | 14. Hepatoduodenal ligament | 22. Splenic artery and vein | 30. Transversus abdominis, transverse abdominal, External and Internal oblique | |
| 6. Common iliac artery and vein | 15. Parietal peritoneum | 23. Gastrosplenic ligament | 31. Sigmoid mesocolon | |
| 7. Ascending colon | 16. Hepatic surface of diaphragm | 24. Tail of pancreas | | |
| 8. Abdominal aorta | 17. Inferior vena cava | 25. Transverse mesocolon | | |



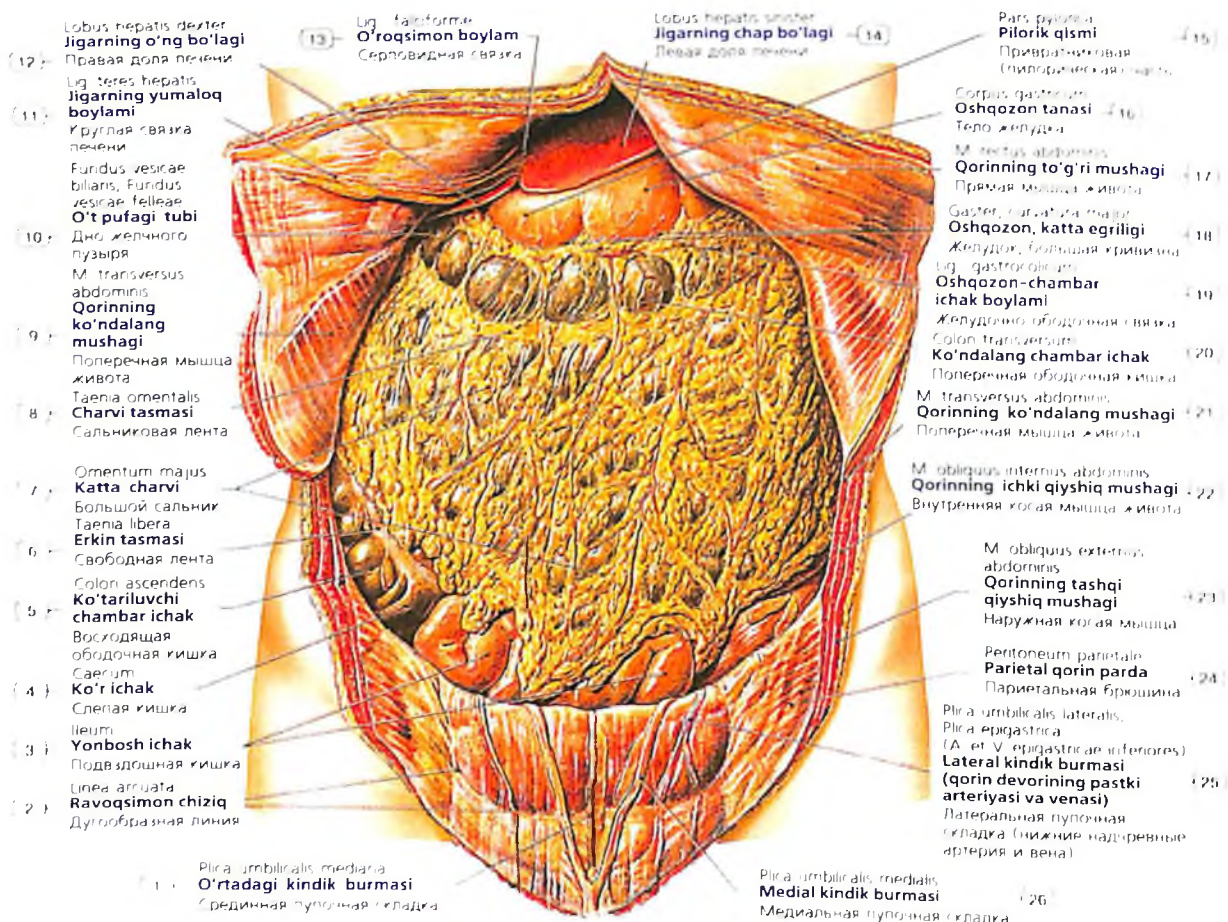
Rasm № 76. Qorin parda orti bo'shlig'i, oldindan ko'rinishi.
Рисунок № 76. Забрюшинное пространство, вид спереди.

- | | | | | |
|---|--|--|--|----------------------|
| 1 Right external iliac artery and vein | 7 Ilio inguinal | 15 Inferior vena cava | 23 Body of pancreas | 32 Sigmoid mesocolon |
| 2 Femoral nerve | 8 Iliohypogastric nerve, Iliopubic nerve | 16 Coeliac trunk | 24 Left renal artery and vein | 33 Sigmoid colon |
| 3 Parietal peritoneum | 9 Duodenum | 17 Oesophagus | 25 Left ureter | 34 Urinary bladder |
| 4 Right common iliac artery and vein | 10 Superior mesenteric artery and vein | 18 Left gastric artery and vein | 26 Left kidney | 35 Uterus |
| 5 Lateral cutaneous nerve of thigh, Lateral femoral cutaneous nerve | 11 Subcostal nerve | 19 Left inferior phrenic artery and vein | 27 Abdominal aorta | 36 Uterine tube |
| 6 Right ovarian artery and vein | 12 Bile duct | 20 Superior suprarenal artery and vein | 28 Left ovarian artery and vein | 37 Rectum |
| | 13 Hepatic artery proper | 21 Left suprarenal gland, Left adrenal gland | 29 Inferior mesenteric artery and vein | 38 Ovary |
| | 14 Hepatic portal vein | 22 Splenic artery | 30 Genitofemoral nerve | |
| | | | 31 Aortic bifurcation | |



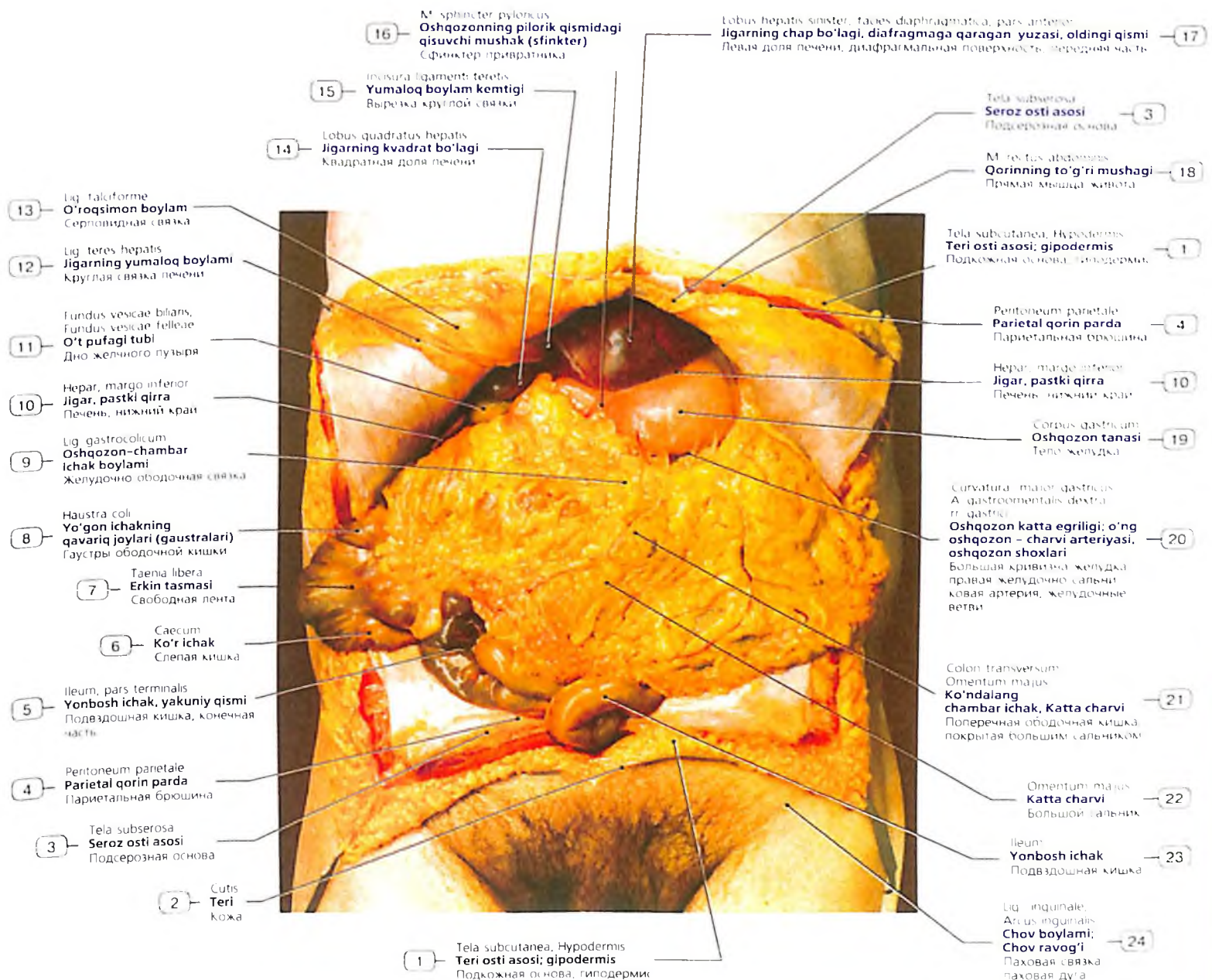
Rasm № 77. A'zolarning qorin parda bilan o'ralishi (chizma).
Рисунок № 77. Внутрив брюшинное расположение органов (схема).

- | | | |
|---------------------|------------------------------|------------------------|
| 1 Mesentery | 3 Peritoneum, parietal layer | epicardium |
| 2 Peritoneal cavity | 4 Peritoneum, visceral layer | 5 Intrapertoneal organ |



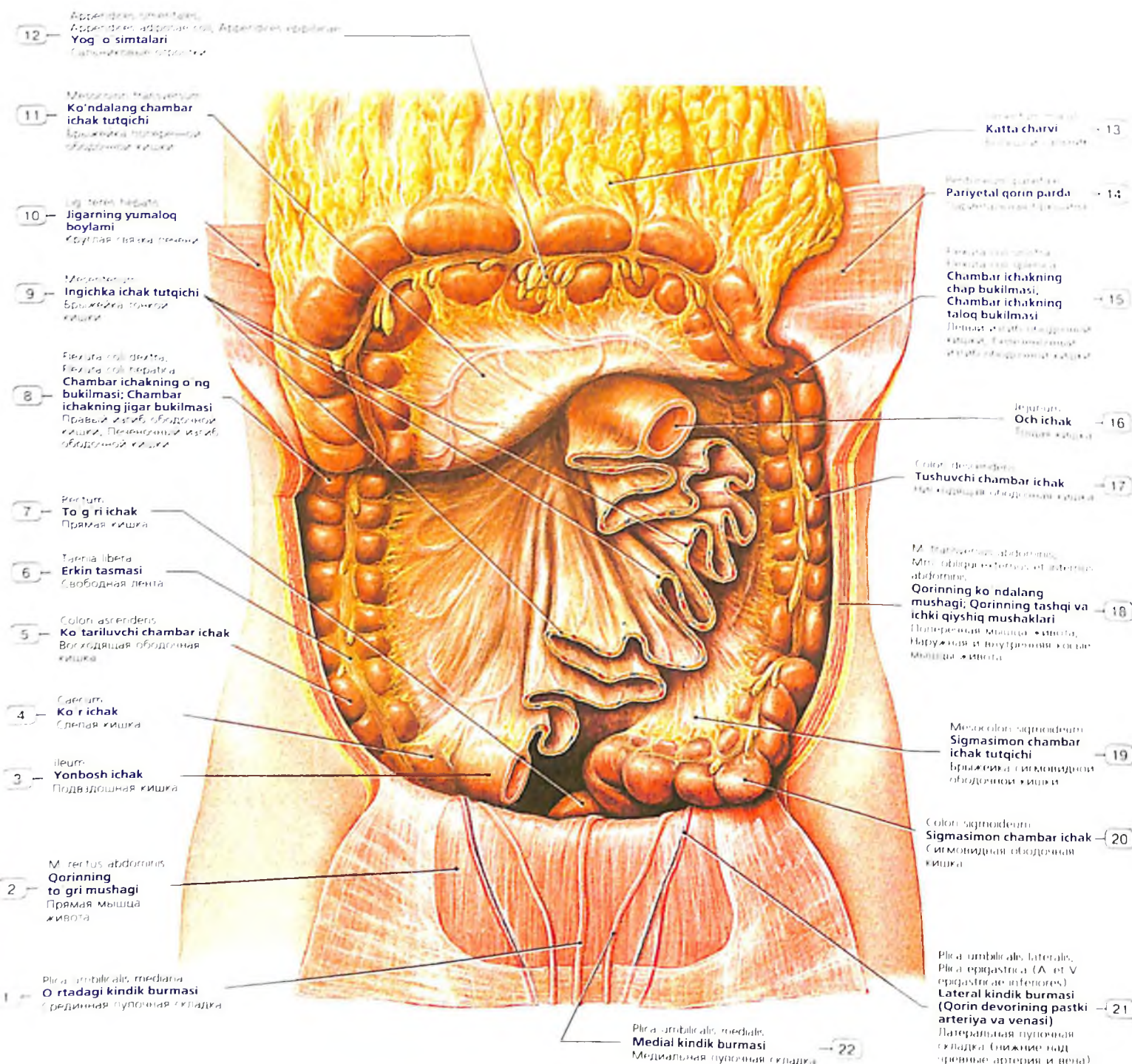
Rasm № 78. Katta charvi.
Рисунок № 78. Большой сальник.

- | | | | |
|-------------------------|----------------------------|-------------------------------|-----------------------------|
| 1 Median umbilical fold | 9 Transversus abdominis, | 16 Body of stomach | 23 External oblique |
| 2 Arcuate line | Transverse abdominal | 17 Rectus abdominis | 24 Parietal peritoneum |
| 3 Uterus | 10 Transverse abdominal | 18 Stomach, greater curvature | 25 Lateral umbilical fold, |
| 4 Spleen | 11 Fundus of gallbladder | 19 Gastrocolic ligament | Epigastric fold (inferior |
| 5 Ascending colon | 12 Round ligament of liver | 20 Transverse colon | epigastric artery and vein) |
| 6 Free taenia | 13 Falxiform ligament | 21 Transversus abdominis, | 26 Medial umbilical fold |
| 7 Greater omentum | 14 Left lobe of liver | transverse abdominal | |
| 8 Greater taenia | 15 Pyloric part | 22 Internal oblique | |



Rasm № 79. Katta charvi (fiksatsiya qilinmagan tabiiy ho'l preparatdan olingan rasm).
Рисунок № 79. Большой сальник (фотография нефиксированного натурального препарата).

- | | | | |
|------------------------------|-------------------------------|-------------------------|------------------------------|
| 1 Subcutaneous tissue | 9 Gastrocolic ligament | 17 Left lobe of liver, | Right gastroepiploic artery, |
| 2 Skin | 10 Liver, inferior border | diaphragmatic surface, | gastric branches |
| 3 Subserosa, subserous layer | 11 Fundus of gallbladder | anterior part | 21 Transverse colon, Greater |
| 4 Parietal peritoneum | 12 Round ligament of liver | 18 Rectus abdominis | omentum |
| 5 Ileum, terminal ileum | 13 Falciform ligament | 19 Body of stomach | 22 Greater omentum |
| 6 Caecum | 14 Quadrate lobe of liver | 20 Greater curvature of | 23 Ileum |
| 7 Free taenia | 15 Notch for ligamentum teres | stomach, right gastro- | 24 Ileum inguinal ligament |
| 8 Haustra of colon | 16 Pyloric sphincter | omental artery. | |



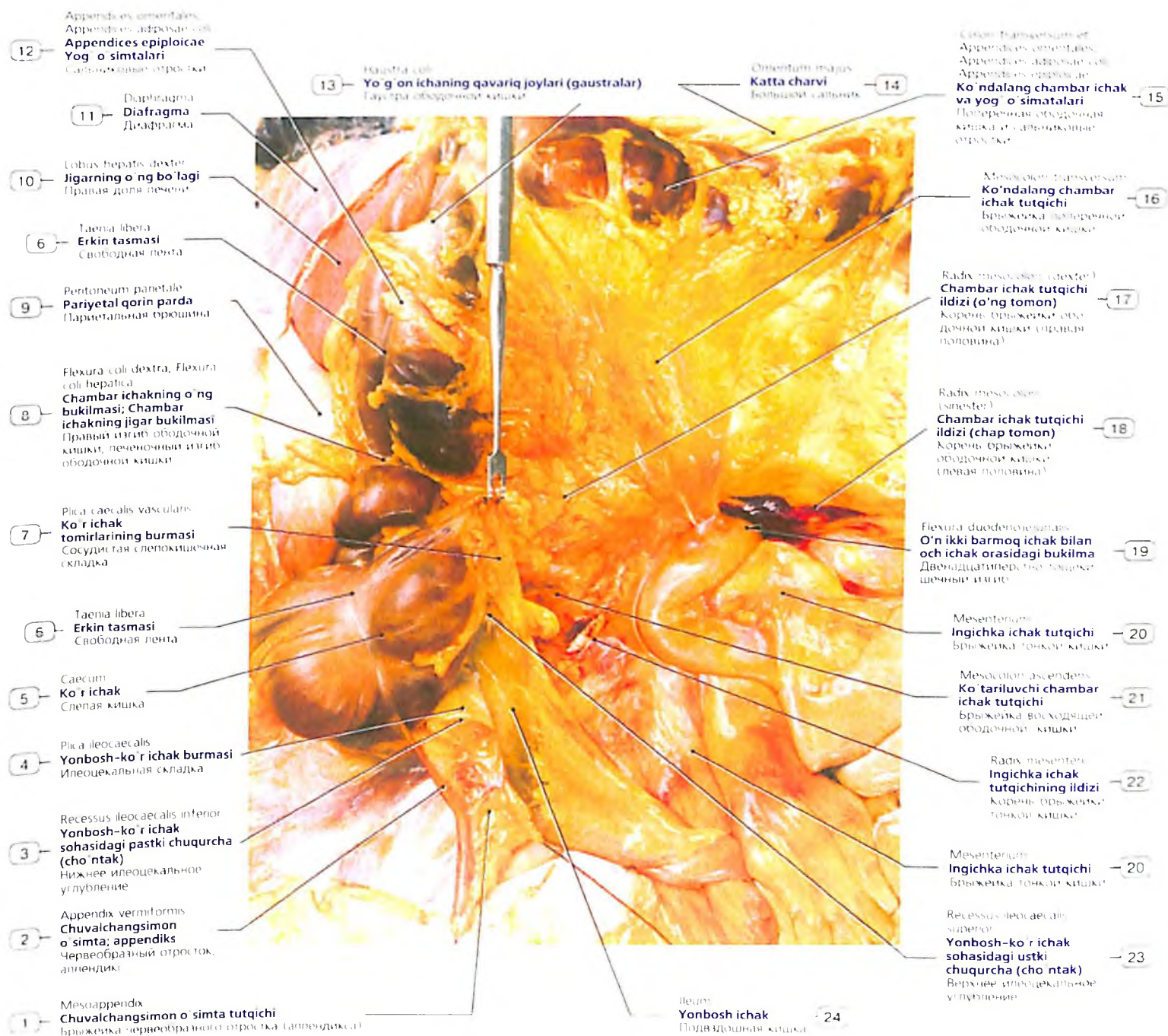
Rasm № 80. Ingichka ichak tutqich ildizi.
Рисунок № 80. Корень брыжейки тонкой кишки.

- 1 Median umbilical fold
- 2 Rectus abdominis
- 3 Ileum
- 4 Caecum
- 5 Ascending colon
- 6 Free ligament
- 7 Rectum
- 8 Right colic flexure

- 9 Mesentery
- 10 Round ligament of liver
- 11 Transverse mesocolon
- 12 Appendices, of colon
- 13 Greater omentum
- 14 Parietal peritoneum

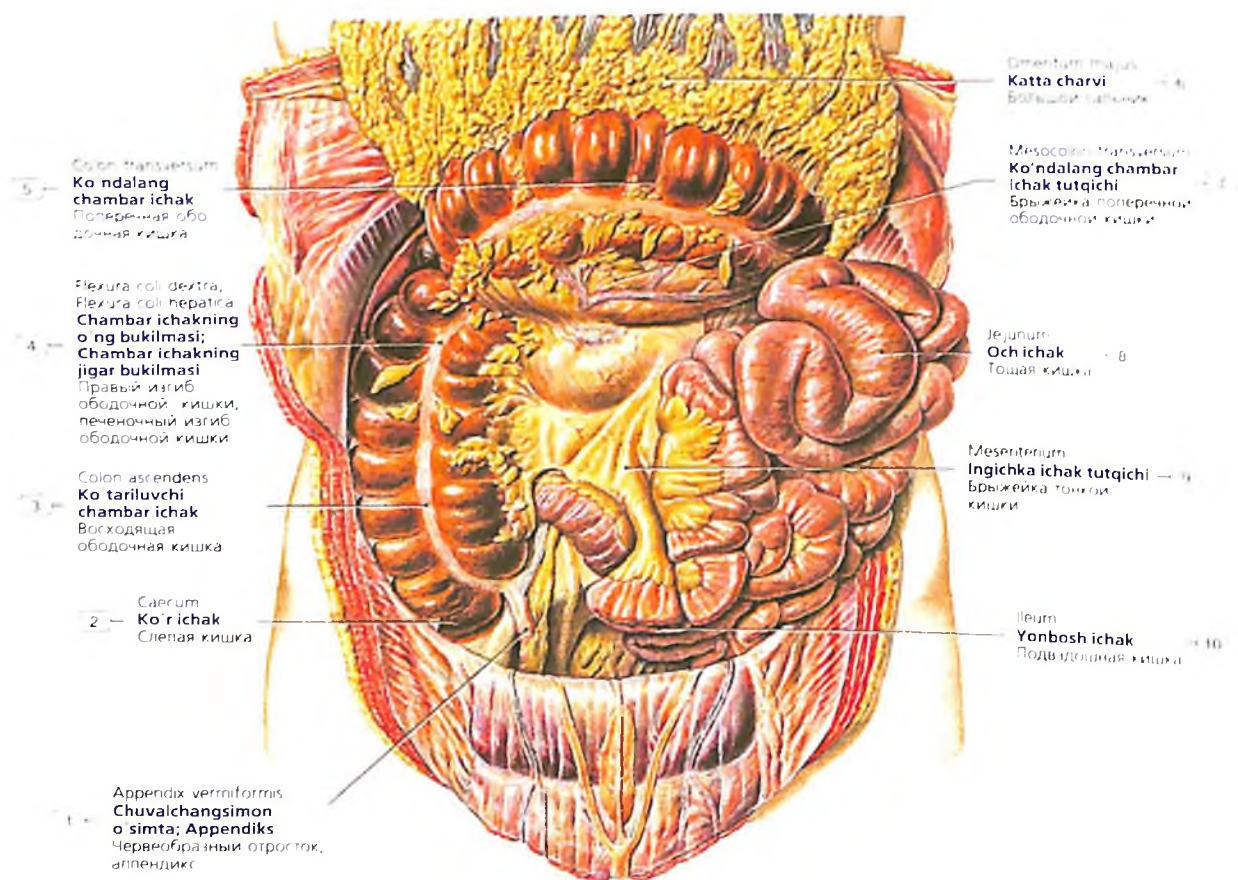
- 15 Left colic flexure, Splenic flexure
- 16 Jejunum
- 17 Ileocecal junction
- 18 Transverse abdominal, External oblique, Internal oblique

- 19 Sigmoid mesocolon
- 20 Sigmoid colon
- 21 Lateral umbilical fold, epigastric artery and vein
- 22 Medial umbilical fold



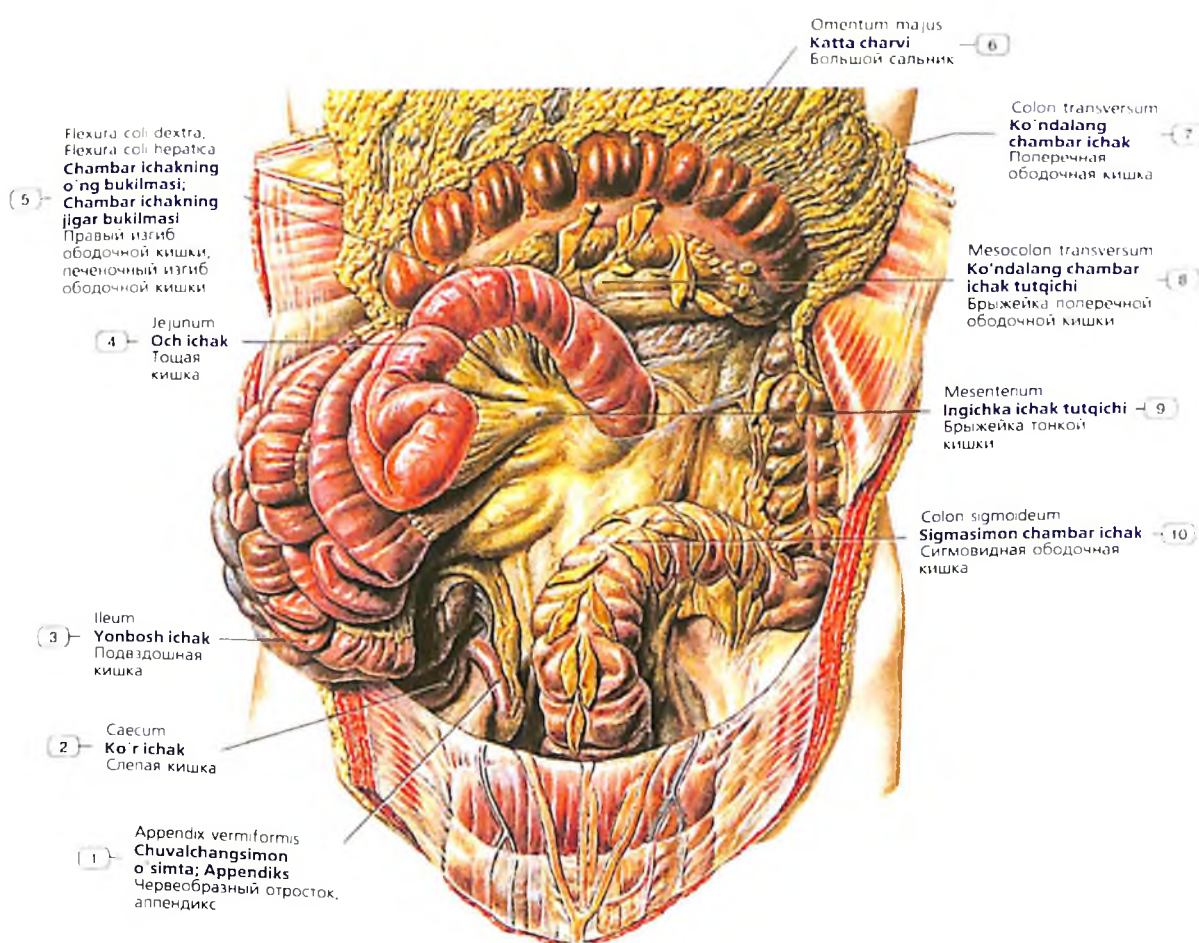
Rasm № 81. Ingichka ichak tutqich ildizi (fiksatsiya qilinmagan tabiiy ho'l preparatdan olingan surat)
Рисунок № 81. Корень брыжейки тонкой кишки (фотография нефиксированного натурального препарата)

- | | | | |
|--------------------------------|--|---|-------------------------------|
| 1 Meso appendix | 8 Right colic flexure, Hepatic flexure | 14 Greater omentum | 20 Mesentery |
| 2 Appendix, Vermiform appendix | 9 Parietal peritoneum | 15 Transverse colon and Omental appendices, Fatty appendices of colon | 21 Ascending mesocolon |
| 3 Inferior ileocaecal recess | 10 Right lobe of liver | 16 Transverse | 22 Root of mesentery |
| 4 Ileocaecal fold | 11 Diaphragm | 17 Root of mesocolon (right) | 23 Superior ileocaecal recess |
| 5 Caecum | 12 Omental appendices, Fatty appendices of colon | 18 Root of mesocolon (left) | 24 Ileum |
| 6 Free taenia | 13 Haustra of colon | 19 Duodenojejunal flexure | |



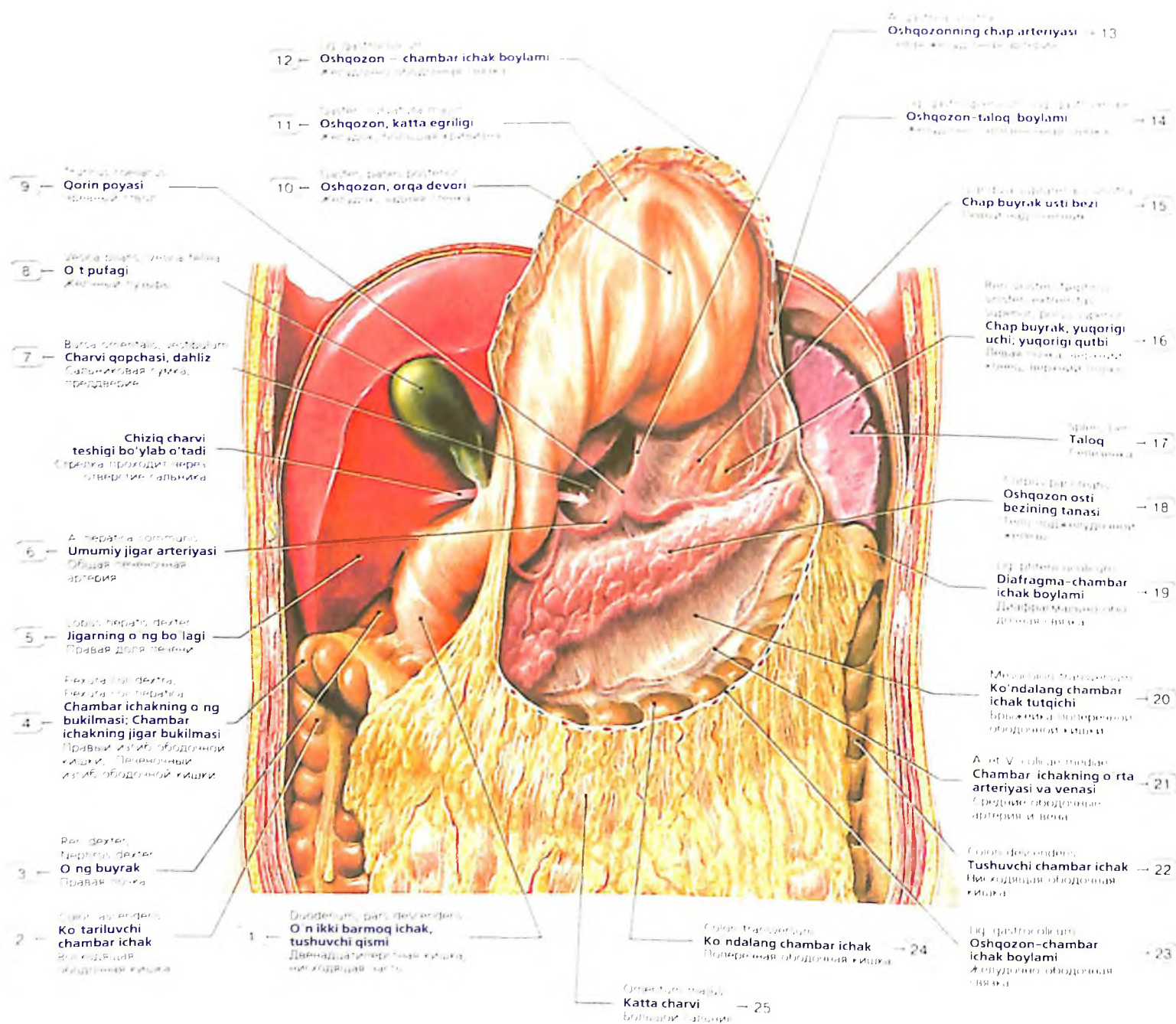
Rasm № 82. O'ng tutqich bo'shlig'i (sinusi).
Рисунок № 82. Правый брыжеечный синус.

- | | | |
|------------------------|--|------------------------|
| 1 Appendix Vermiformis | 4 Right colic flexure, Hepatic flexure | 7 Transverse mesocolon |
| 2 Caecum | 5 Transverse colon | 8 Jejunum |
| 3 Ascending colon | 6 Mesocolon transversum | 9 Mesenterium |
| | | 10 Ileum |



Rasm № 83. Chap tutqich (bo'shlig'i) sinusi.
Рисунок № 83. Левый брыжеечный синус.

- | | | |
|--------------------------------|--|------------------------|
| 1 Appendix, Vermiform appendix | 4 Jejunum | 7 Transverse colon |
| 2 Caecum | 5 Right colic flexure, Hepatic flexure | 8 Transverse mesocolon |
| 3 Ileum | 6 Greater omentum | 9 Mesentery |
| | | 10 Sigmoid colon |



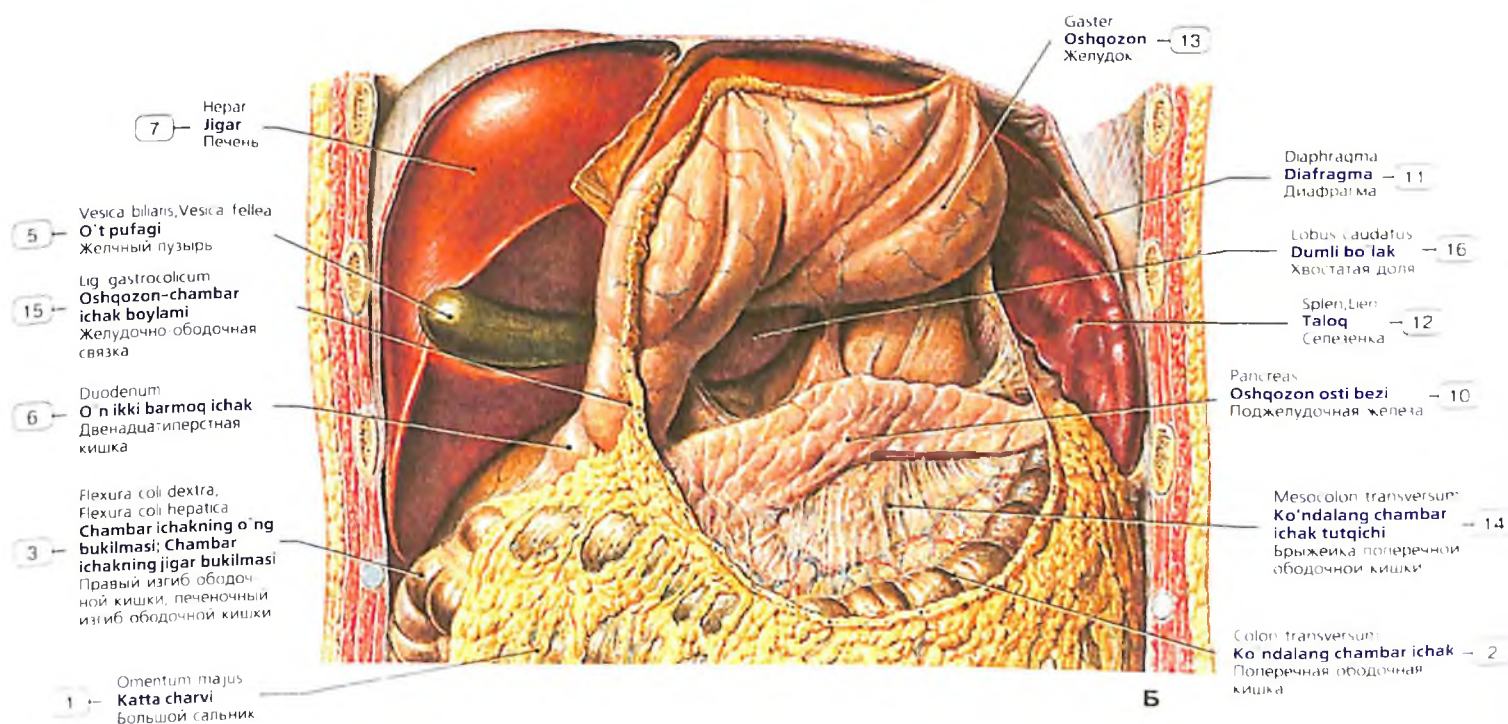
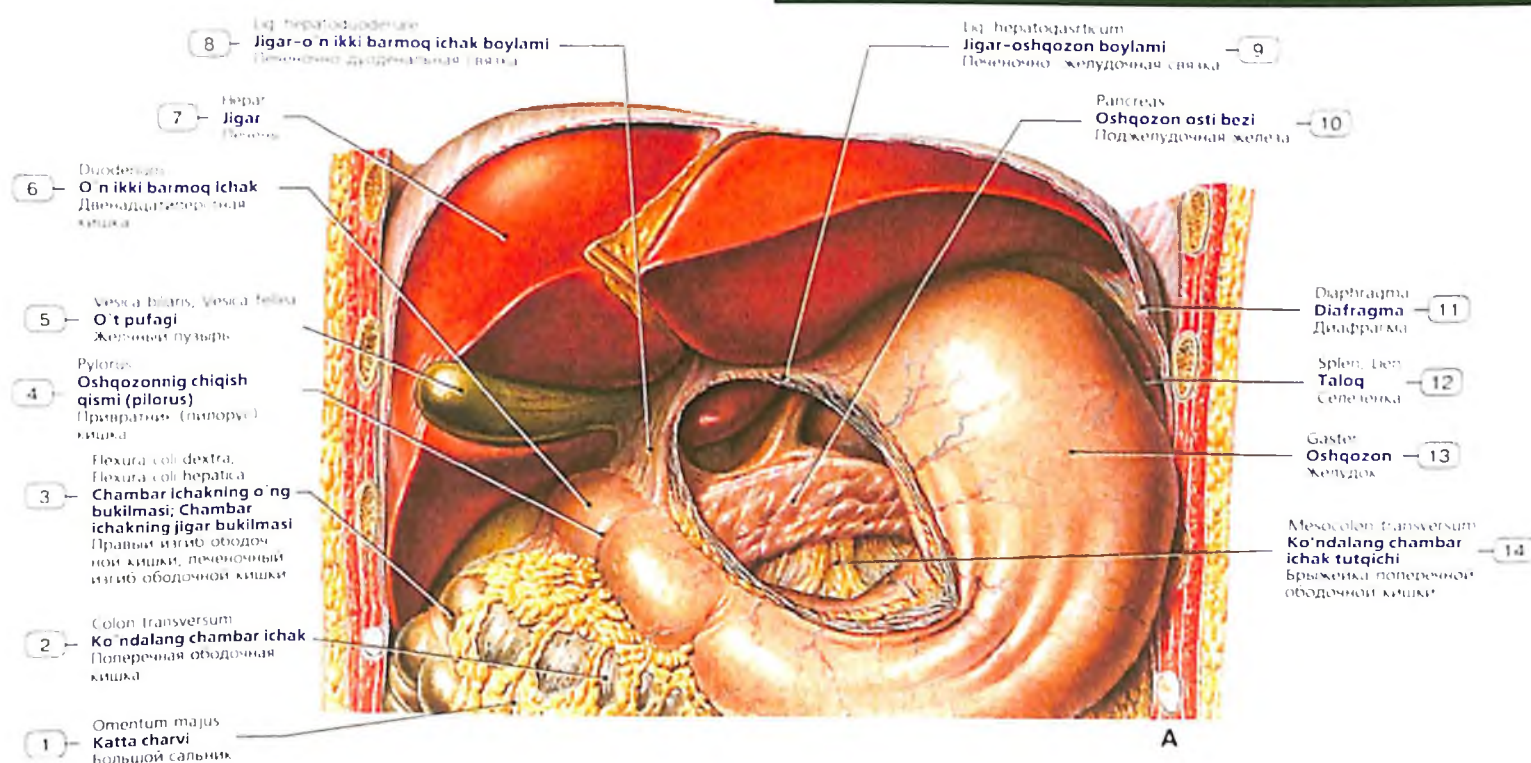
Rasm № 84. Charvi qopchasi, katta charvi kesilgan, oshqozon yuqoriga ko'tarilgan.
Рисунок № 84. Сальниковая сумка, большой сальник отрезан, желудок отвернут кверху.

1. Duodenum, pars descendens
2. Right kidney, superior pole
3. Right kidney, inferior pole
4. Right kidney, superior pole
5. Right kidney, inferior pole
6. Right kidney, superior pole
7. Right kidney, inferior pole
8. Right kidney, superior pole
9. Right kidney, inferior pole
10. Right kidney, superior pole
11. Right kidney, inferior pole
12. Right kidney, superior pole
13. Right kidney, inferior pole
14. Right kidney, superior pole
15. Right kidney, inferior pole
16. Right kidney, superior pole
17. Right kidney, inferior pole
18. Right kidney, superior pole
19. Right kidney, inferior pole
20. Right kidney, superior pole
21. Right kidney, inferior pole
22. Right kidney, superior pole
23. Right kidney, inferior pole
24. Right kidney, superior pole
25. Right kidney, inferior pole

1. Duodenum, pars descendens
2. Right kidney, superior pole
3. Right kidney, inferior pole
4. Right kidney, superior pole
5. Right kidney, inferior pole
6. Right kidney, superior pole
7. Right kidney, inferior pole
8. Right kidney, superior pole
9. Right kidney, inferior pole
10. Right kidney, superior pole
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12. Right kidney, superior pole
13. Right kidney, inferior pole
14. Right kidney, superior pole
15. Right kidney, inferior pole
16. Right kidney, superior pole
17. Right kidney, inferior pole
18. Right kidney, superior pole
19. Right kidney, inferior pole
20. Right kidney, superior pole
21. Right kidney, inferior pole
22. Right kidney, superior pole
23. Right kidney, inferior pole
24. Right kidney, superior pole
25. Right kidney, inferior pole

15. Left suprarenal gland, left adrenal gland
16. Left kidney, superior pole, superior extremity
17. Spleen
18. Body of pancreas
19. Minor omentum
20. Transverse mesocolon

21. Middle colic artery and vein
22. Descending colon
23. Gastrocolic ligament
24. Transverse colon
25. Greater omentum



Rasm № 85. Charvi qopchasi. Kichik charvi kesilgandan keyin (A), oshqozon-chambar ichak boylami kesilgandan keyin (B).
Рисунок № 85. Сальниковая сумка. После рассечения малого сальника (А), после рассечения желудочно-ободочной связки (Б).

- | | | | |
|--|---------------------------|-------------------------|----------------------------|
| 1 Greater omentum | 5 Gallbladder | 10 Pancreas | 15 Gastroduodenal ligament |
| 2 Transverse colon | 6 Duodenum | 11 Diaphragm | 16 Caudate lobe |
| 3 Right colic flexure, Hepatic flexure | 7 Liver | 12 Spleen | |
| 4 Pylorus | 8 Hepatoduodenal ligament | 13 Stomach | |
| | 9 Hepatogastric ligament | 14 Transverse mesocolon | |

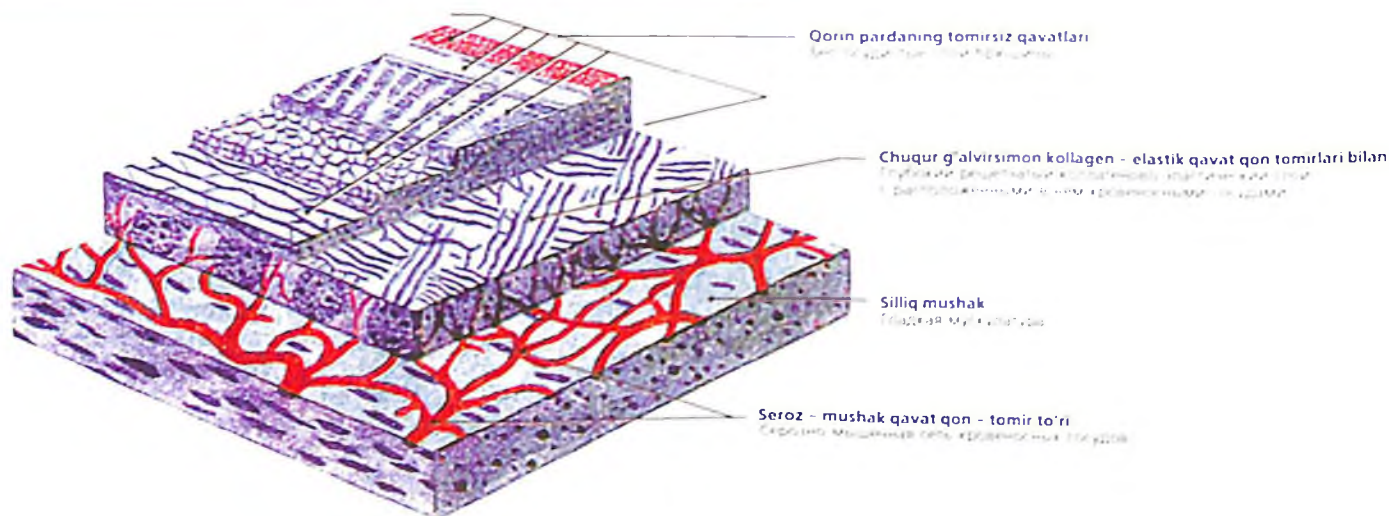
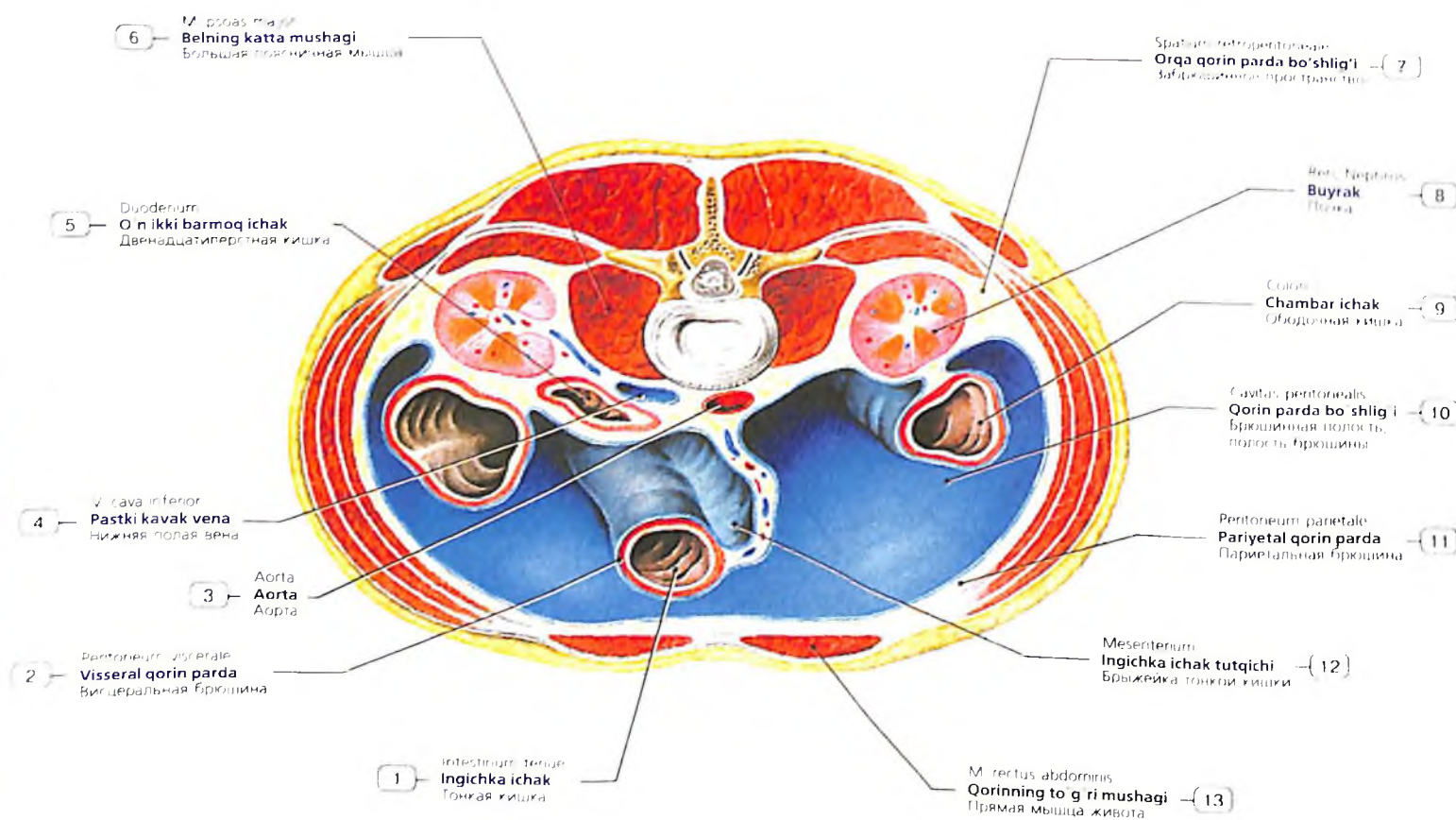
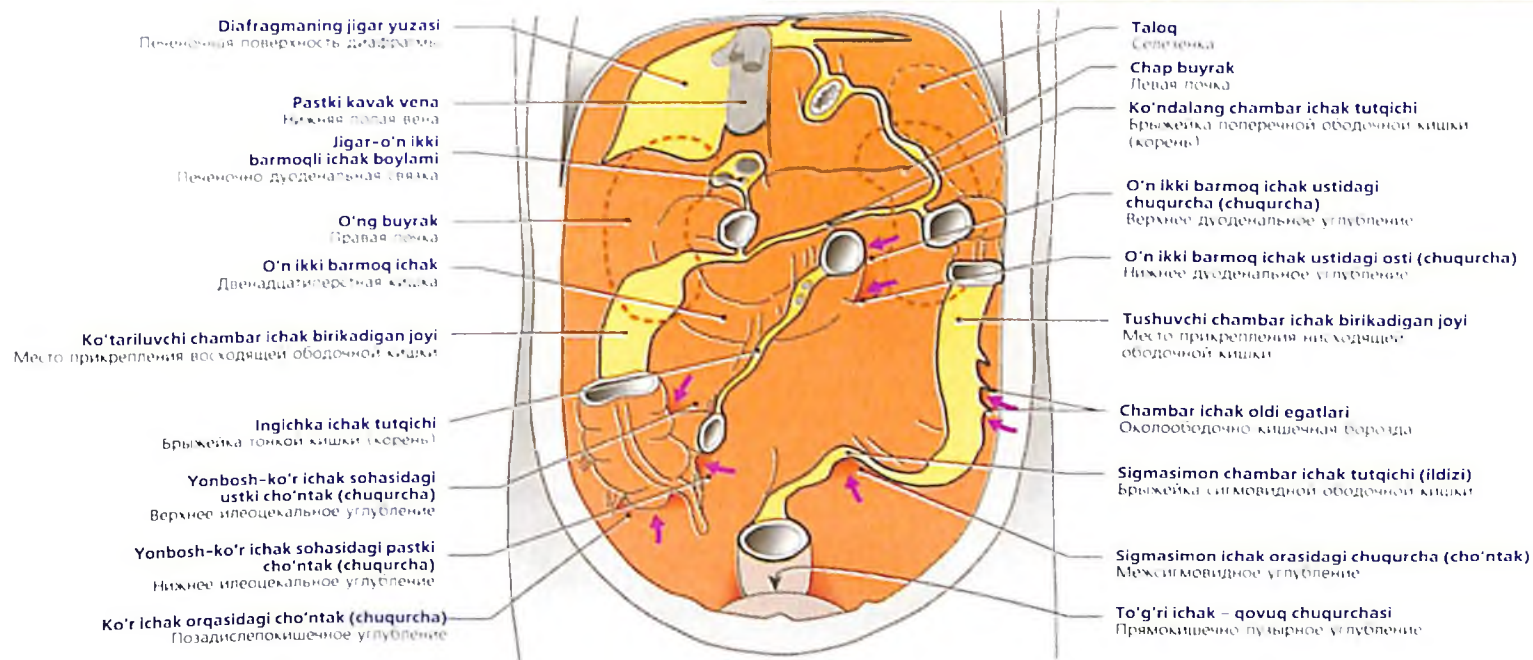


Рисунок № 86. Строение брюшины (схема).
Rasm № 86. Qorin parda tuzilishi.RR



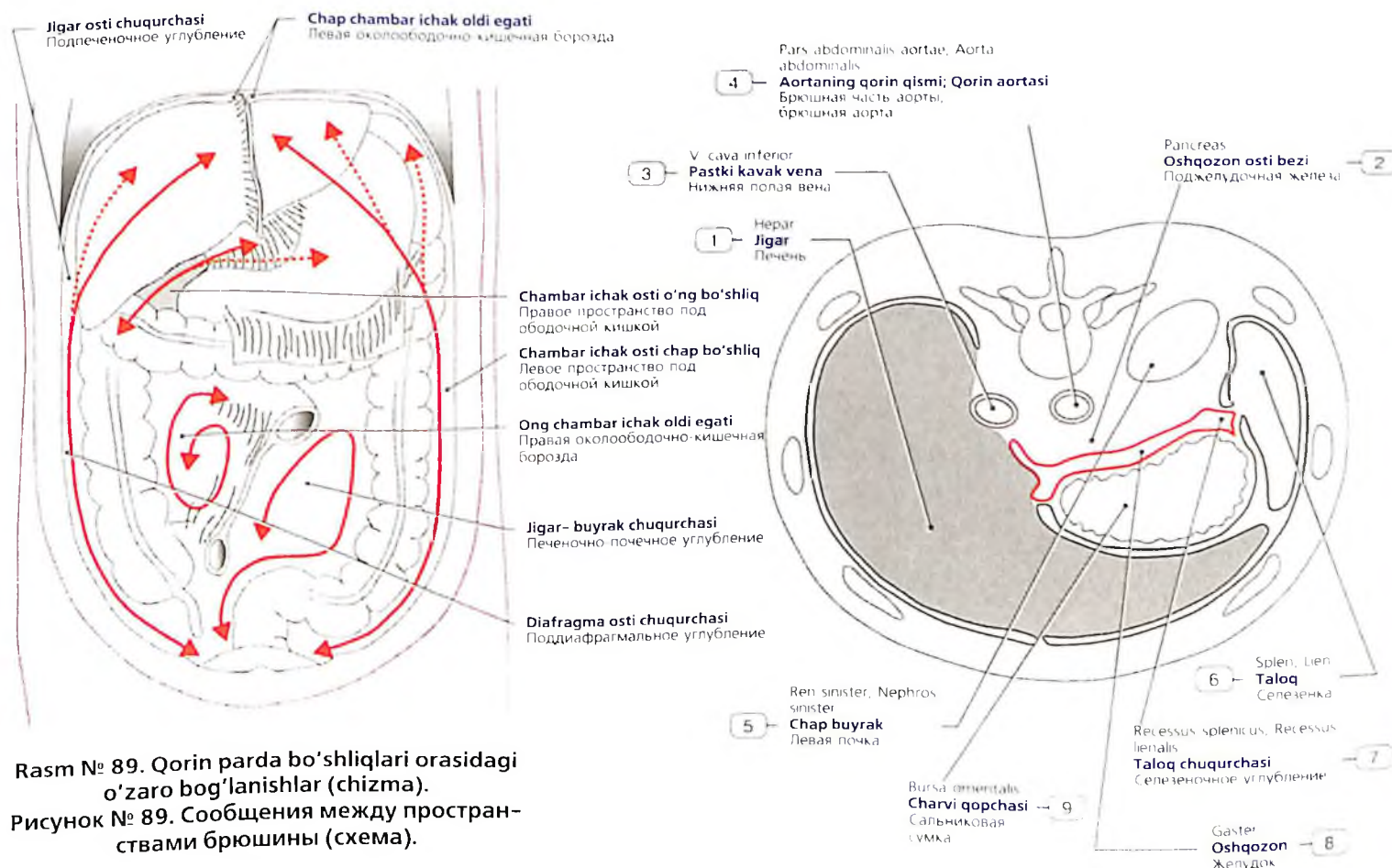
Rasm № 87. Qorin bo'shlig'ida joylashgan a'zolar, II va III bel umurtqalari orasidan o'tkazilgan ko'ndalang kesim (chizma).
Рисунок № 87. Брюшная полость и расположенные в ней органы, горизонтальный (поперечный) распил туловища между телами II и III поясничных позвонков (схема).

- | | | |
|------------------------|--------------------------|-------------------------|
| 1. Small intestine | 6. Psoas major | 11. Parietal peritoneum |
| 2. Visceral peritoneum | 7. Retroperitoneal space | 12. Mesentery |
| 3. Aorta | 8. Kidney | 13. Rectus abdominis |
| 4. Inferior vena cava | 9. Cecum | |
| 5. Duodenum | 10. Peritoneal cavity | |



Rasm № 88. O'n ikki barmoq ichak ostidagi (chuqurcha)

рисунок № 88. Карманы и углубления брюшинной полости и таза мужчины, вид изнутри, спереди (схема).

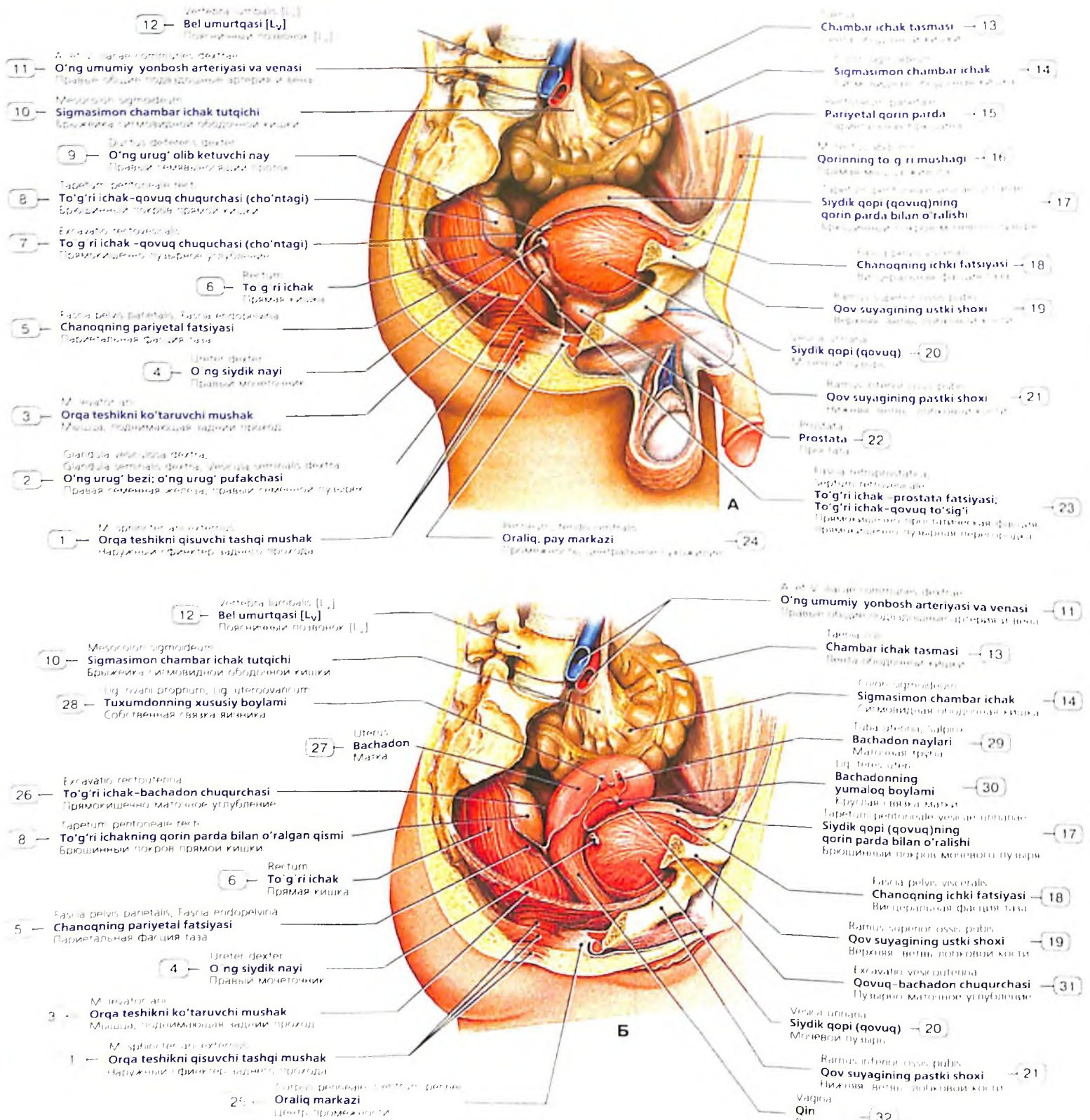


Rasm № 89. Qorin parda bo'shliqlari orasidagi o'zaro bog'lanishlar (chizma).

Рисунок № 89. Сообщения между пространствами брюшины (схема).

Rasm № 90. Tananing XII ko'krak va I bel umurtqalari sohasidan charvi qopchasi orqali ko'ndalang kesmasi, yuqoridan ko'rinishi (chizma). Рисунок № 90. Поперечный разрез туловища на уровне ThXII/LI позвонков через сальниковую сумку, вид сверху (схема).

- | | | |
|----------------------|-------------------|-----------------------------|
| 1 Liver | 4 Abdominal aorta | 7 Splenic recess |
| 2 Pancreas | 5 Left kidney | 8 Omental bursa, Lesser sac |
| 3 Inferior vena cava | 6 Spleen | 9 Stomach |



Rasm № 91. Qorin pardaning siydik chiqaruv va jinsiy a'zolar sohasidagi qismi (A – erkaklarda; B – ayollarda).
Рисунок № 91. Мочеполовая брюшина (А – мужчины; Б – женщины).

- | | | | | |
|--------------------------------|----------------------------------|------------------------------------|---------------------------|------------------------------|
| 1. External anal sphincter | 2. Recto-vesical pouch | 13. Taenia coli | 20. Urinary bladder | 27. Uterus |
| 2. Right internal iliac artery | 3. Peritoneal covering of rectum | 14. Sigmoid colon | 21. Inferior pubic ramus | 28. Ligament of ovary |
| 3. Right ureter | 4. Right quater deferens, Right | 15. Parietal peritoneum | 22. Prostate | 29. Uterine tube |
| 4. Right ovary | 5. Right quater deferens, Right | 16. Recto-abdominal | 23. Rectoprostatic fascia | 30. Round ligament of uterus |
| 5. Right internal iliac vein | 6. Right quater deferens, Right | 17. Peritoneal covering of urinary | 24. Rectovesical septum | 31. Vesico-uterine pouch |
| 6. Rectum | 7. Sigmoid mesocolon | 18. bladder | 25. Perineal body | 32. Vagina |
| | 8. Right quater deferens, Right | 19. Superior pubic ramus | | |
| | 9. Chamber ichak tasmasi | | | |



RESPIRATORY SYSTEM

**NAFAS A'ZOLARI
TIZIMI**

**ДЫХАТЕЛЬНАЯ
СИСТЕМА**

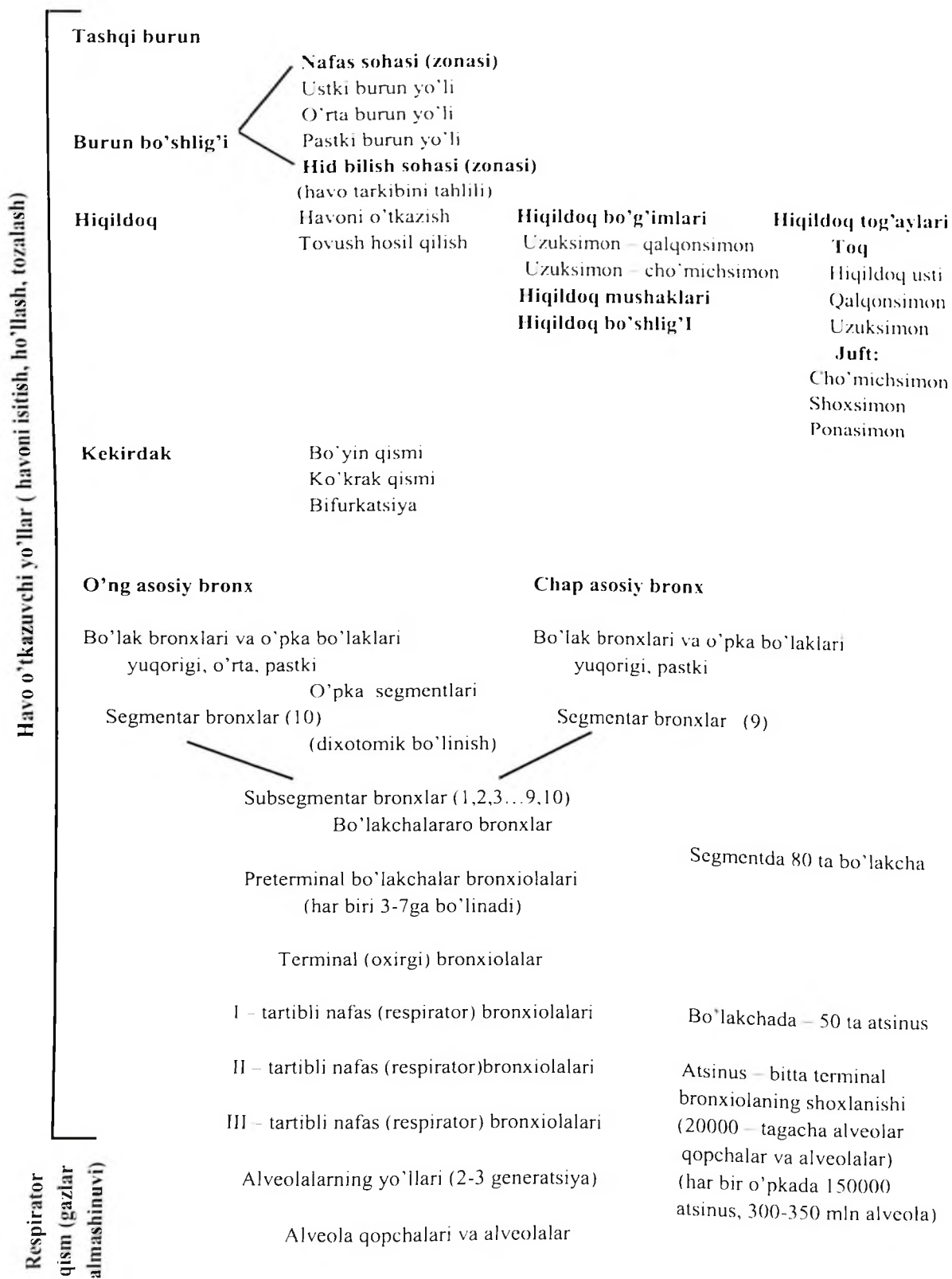


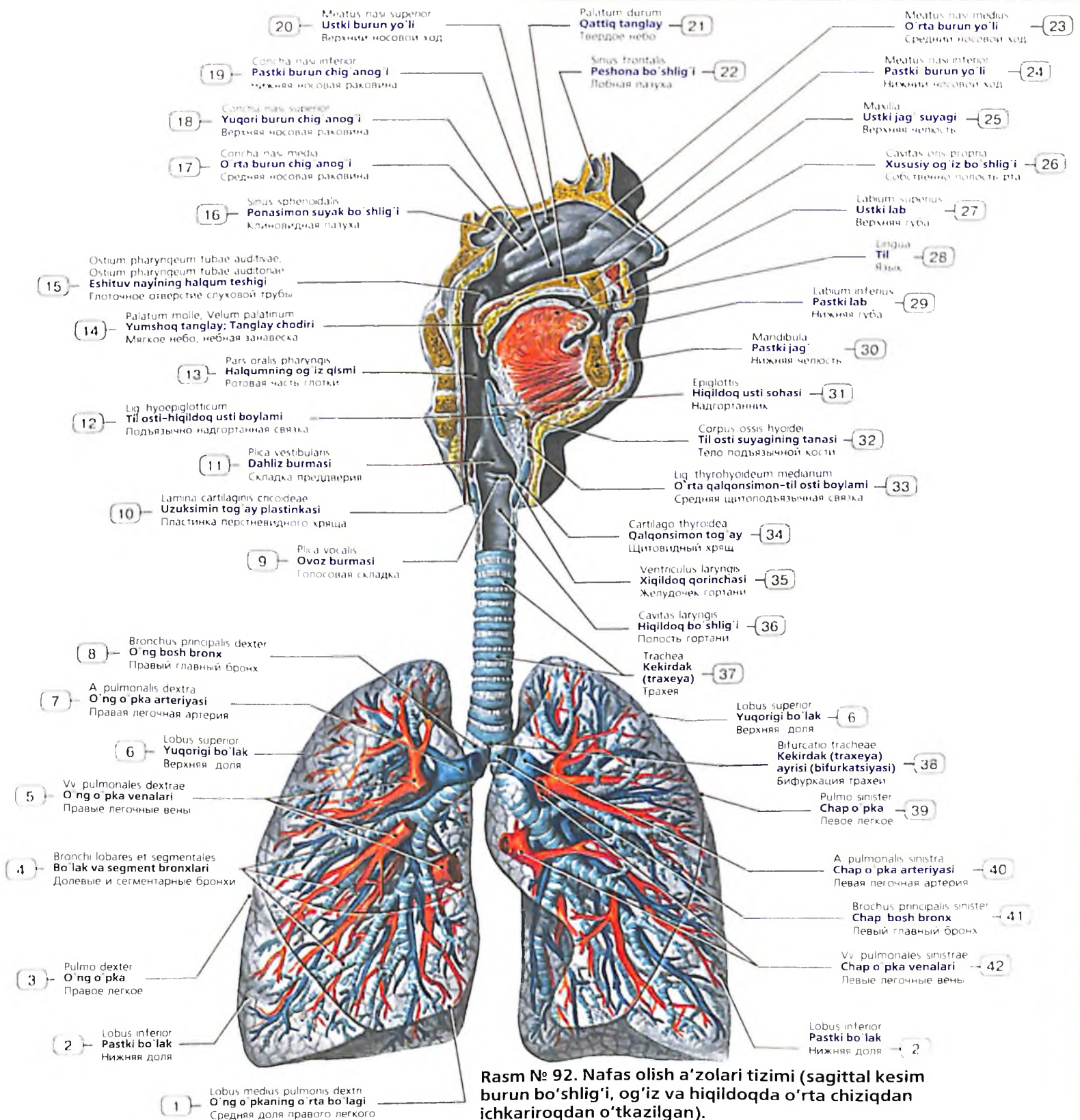
10-jadval. Nafas olish tizimi

NAFAS OLISH TIZIMI QISMLARI

ORGAN

TARKIBI





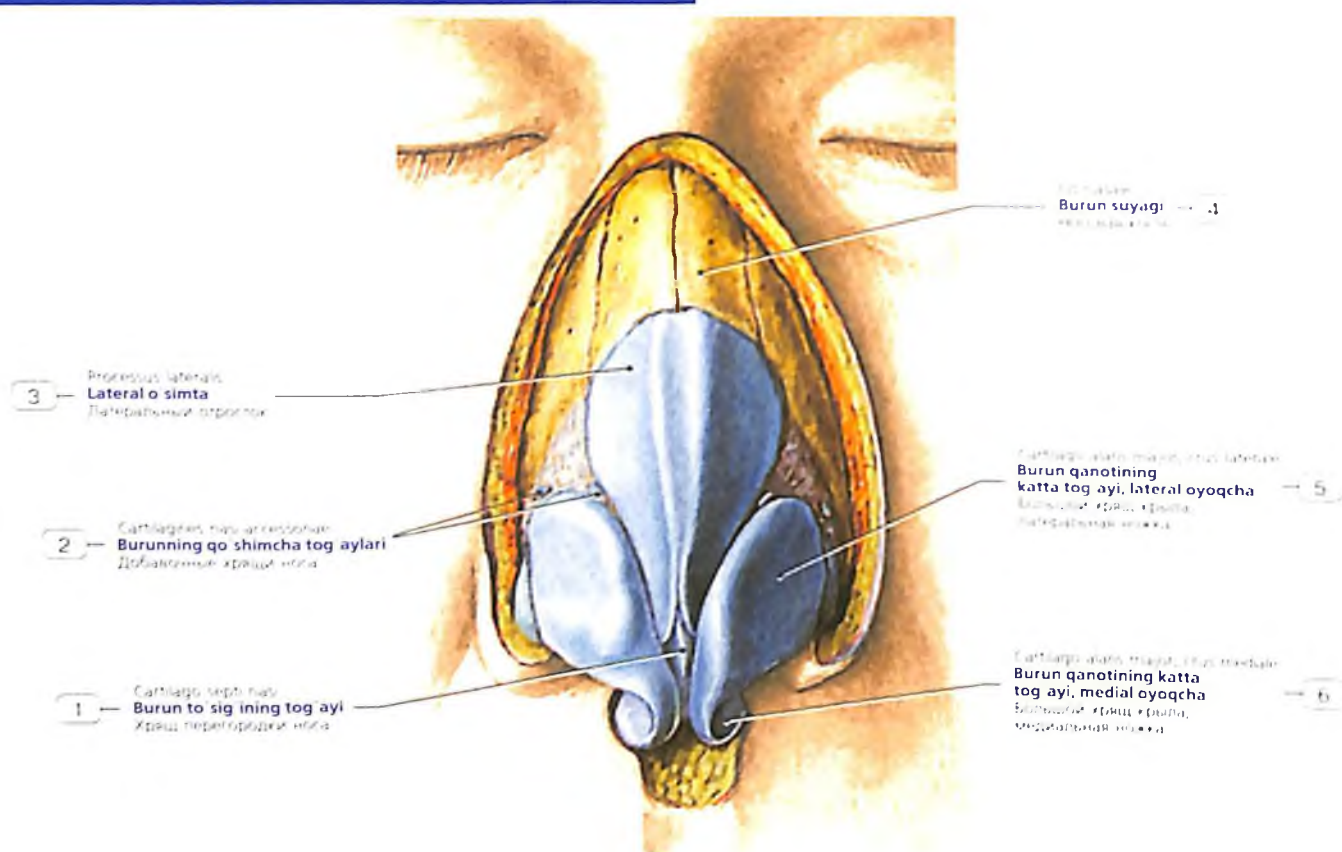
Rasm № 92. Nafas olish a'zolari tizimi (sagittal kesim burun bo'shlig'i, og'iz va hiqildoqda o'rta chiziqdan ichkariroqdan o'tkazilgan).

Рисунок № 92. Дыхательная система (сагиттальный разрез полостей носа, рта и гортани, немного отступая от срединной плоскости).

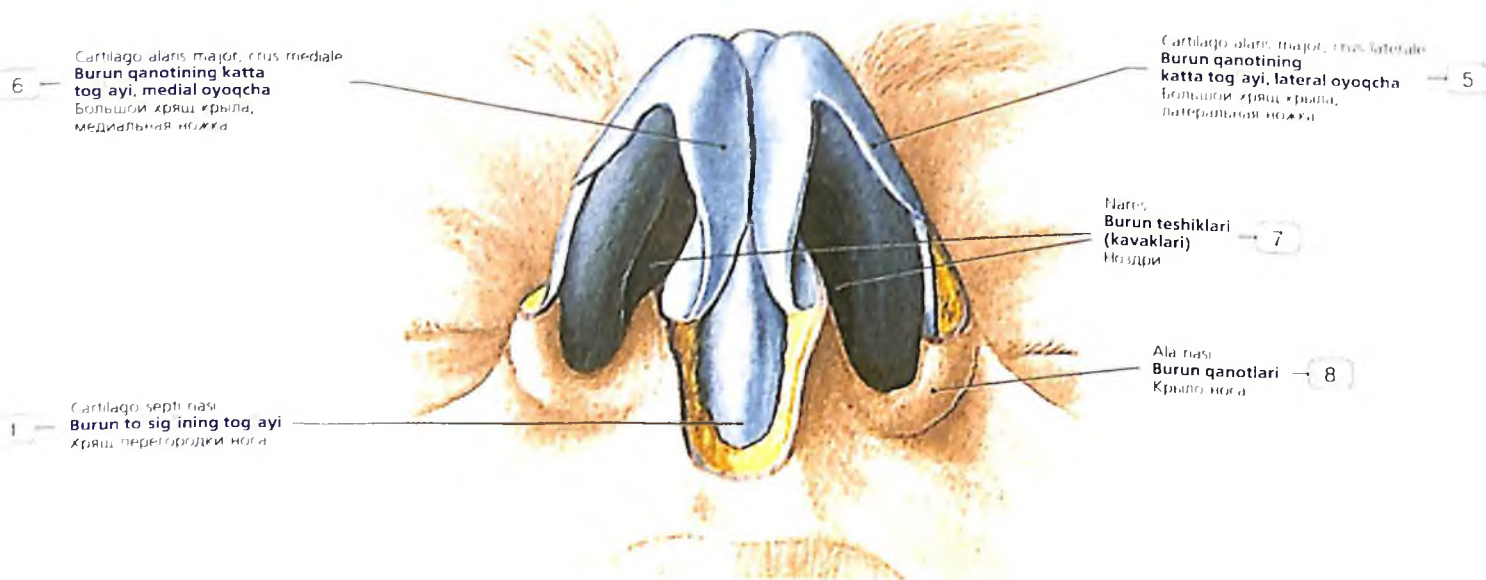
- | | |
|-------------------------------|--|
| 1 Middle lobe of right lung | 10 Lamina of cricoid cartilage |
| 2 Inferior lobe, Lower lobe | 11 Vestibular fold |
| 3 Right lung | 12 Hyo epiglottic ligament |
| 4 Lobar and segmental bronchi | 13 Oropharynx |
| 5 Right pulmonary veins | 14 Soft palate |
| 6 Superior lobe, Upper lobe | 15 Pharyngeal opening of auditory tube |
| 7 Right pulmonary artery | 16 Sphenoidal sinus |
| 8 Right main bronchus | 17 Middle nasal concha |
| 9 Vocal fold | |

- | | |
|--------------------------|-------------------------------|
| 18 Superior nasal concha | 27 Upper lip |
| 19 Inferior nasal concha | 28 Tongue |
| 20 Superior nasal meatus | 29 Lower lip |
| 21 Hard palate | 30 Mandible |
| 22 Frontal sinus | 31 Epiglottis |
| 23 Middle nasal meatus | 32 Body of hyoid bone |
| 24 Inferior nasal meatus | 33 Median thyrohyoid ligament |
| 25 Maxilla | 34 Thyroid cartilage |
| 26 Oral cavity, proper | 35 Laryngeal ventricle |

- | |
|--------------------------|
| 36 Laryngeal cavity |
| 37 Trachea |
| 38 Tracheal bifurcation |
| 39 Left lung |
| 40 Left pulmonary artery |
| 41 Left main bronchus |
| 42 Left pulmonary veins |



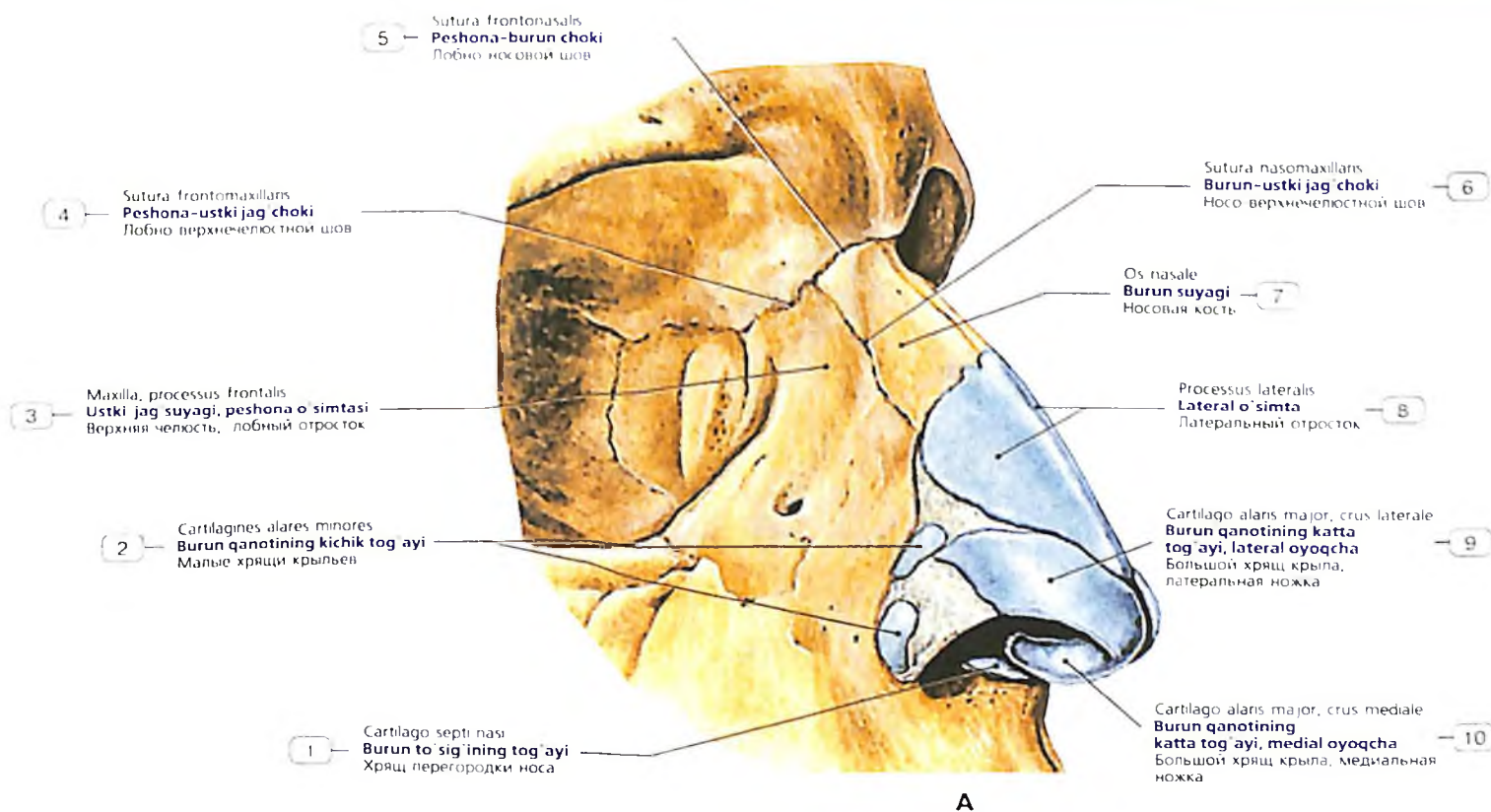
A



B

Rasm № 93. Tashqi burun (A – old tomondan ko'rinishi; B – burun tog' aylari, old tomondan).
Рисунок № 93. Наружный нос (А – вид спереди; Б – хрящи носа, вид спереди).

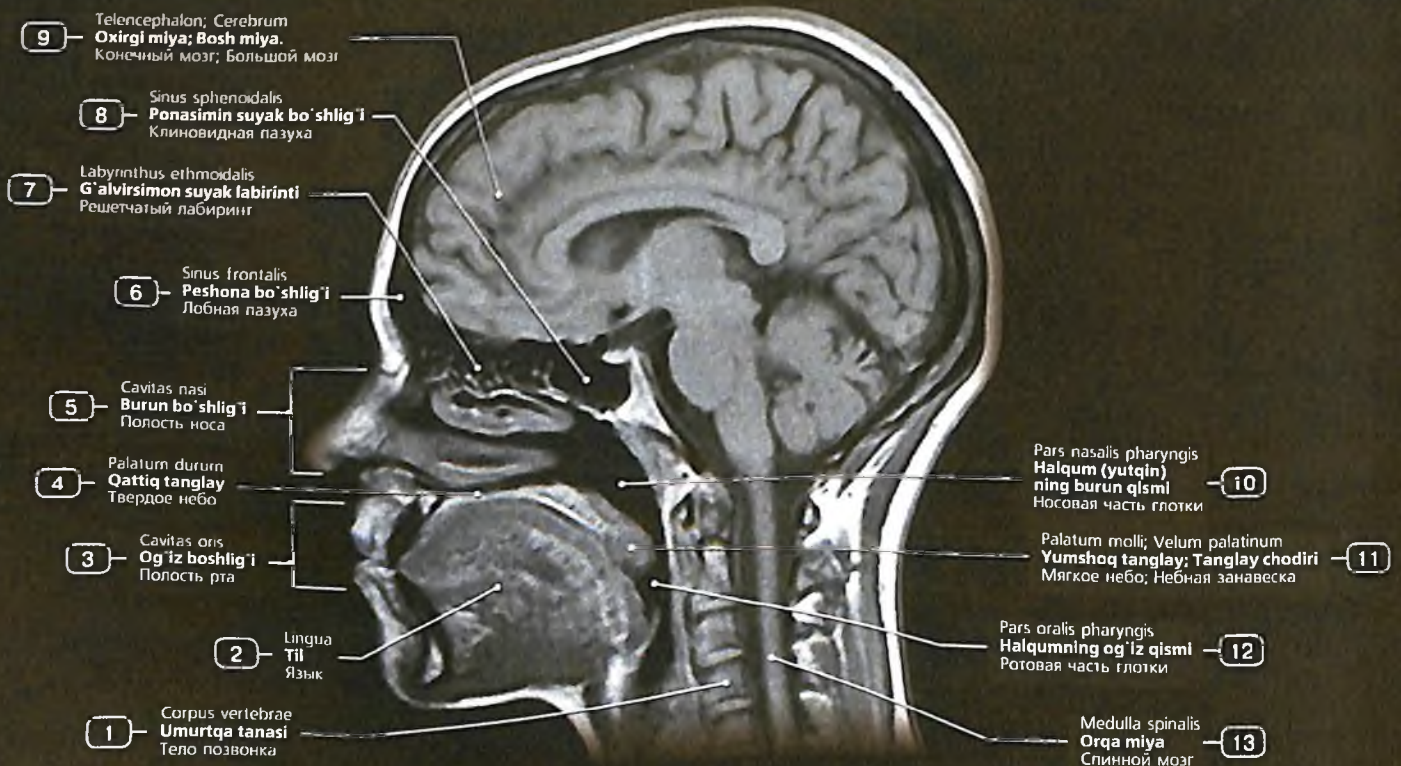
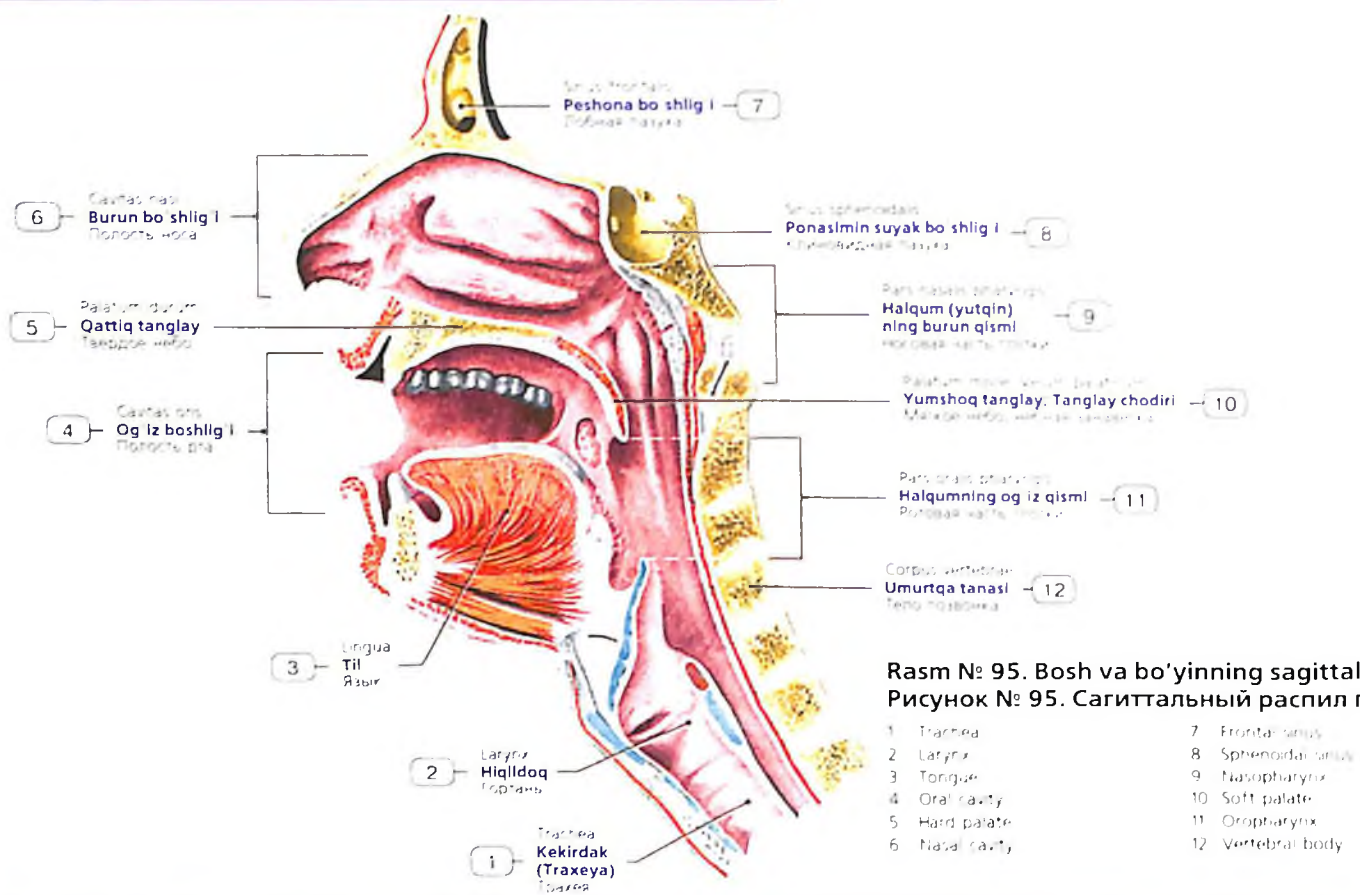
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|------------------------------|---------------------------------------|--------------------------------------|----------------|
| 1. Septal nasal cartilage | 4. Nasal bone | 6. Major alar cartilage, medial crus | 8. Ala of nose |
| 2. Accessory nasal cartilage | 5. Major alar cartilage, lateral crus | 7. Nares, Nostrils | |
| 3. Lateral process | | | |

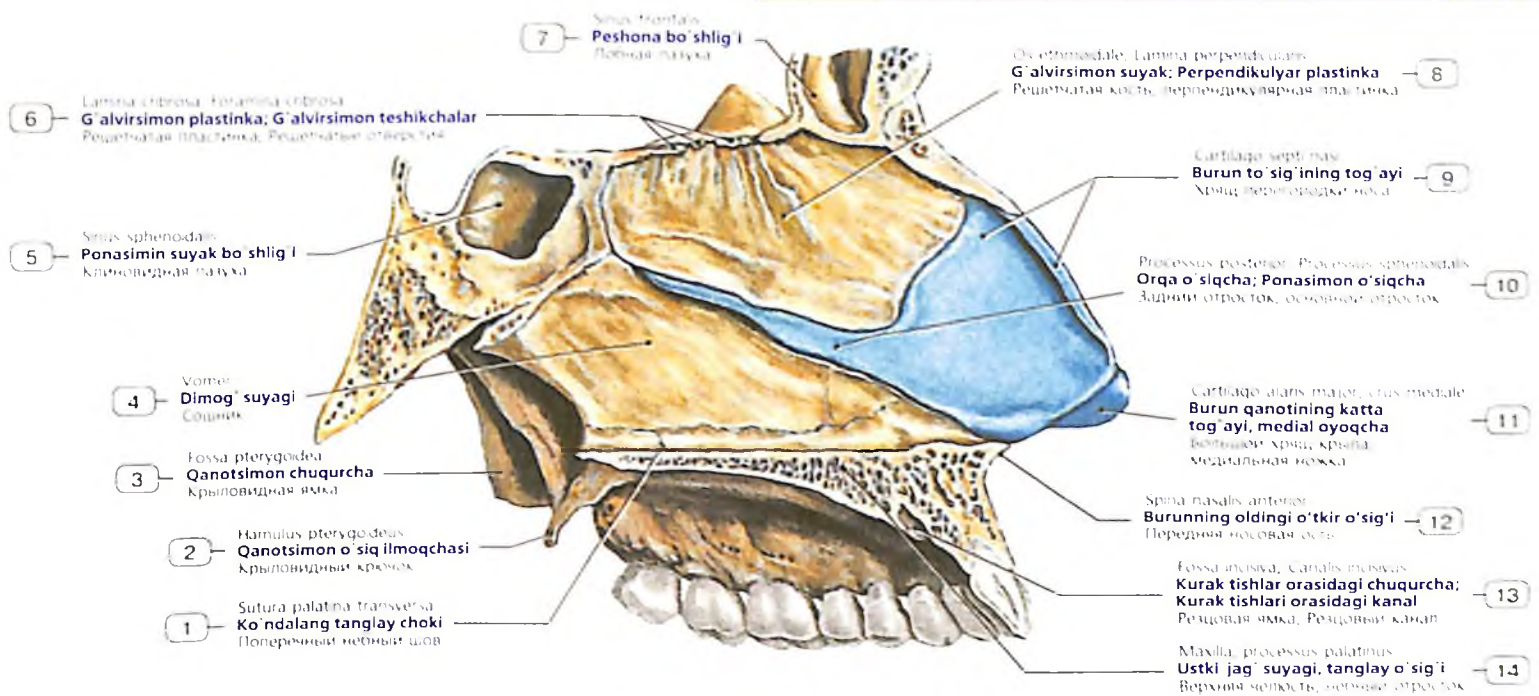


Rasm № 94. Tashqi burun (A – yon tomondan ko'rinishi; B – yuz sohasining yon proyeksiyadagi rentgenogrammasi).
Рисунок № 94. Наружный нос (А – вид сбоку; Б – рентгенограмма области лица в боковой проекции).

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|----------------------------|------------------------|--------------------------------------|
| 1 Septal nasal cartilage | 5 Frontonasal suture | 9 Major alar cartilage, lateral crus |
| 2 Minor alar cartilages | 6 Nasomaxillary suture | 10 Major alar cartilage, medial crus |
| 3 Maxilla, frontal process | 7 Nasal bone | |
| 4 Frontomaxillary suture | 8 Lateral process | |

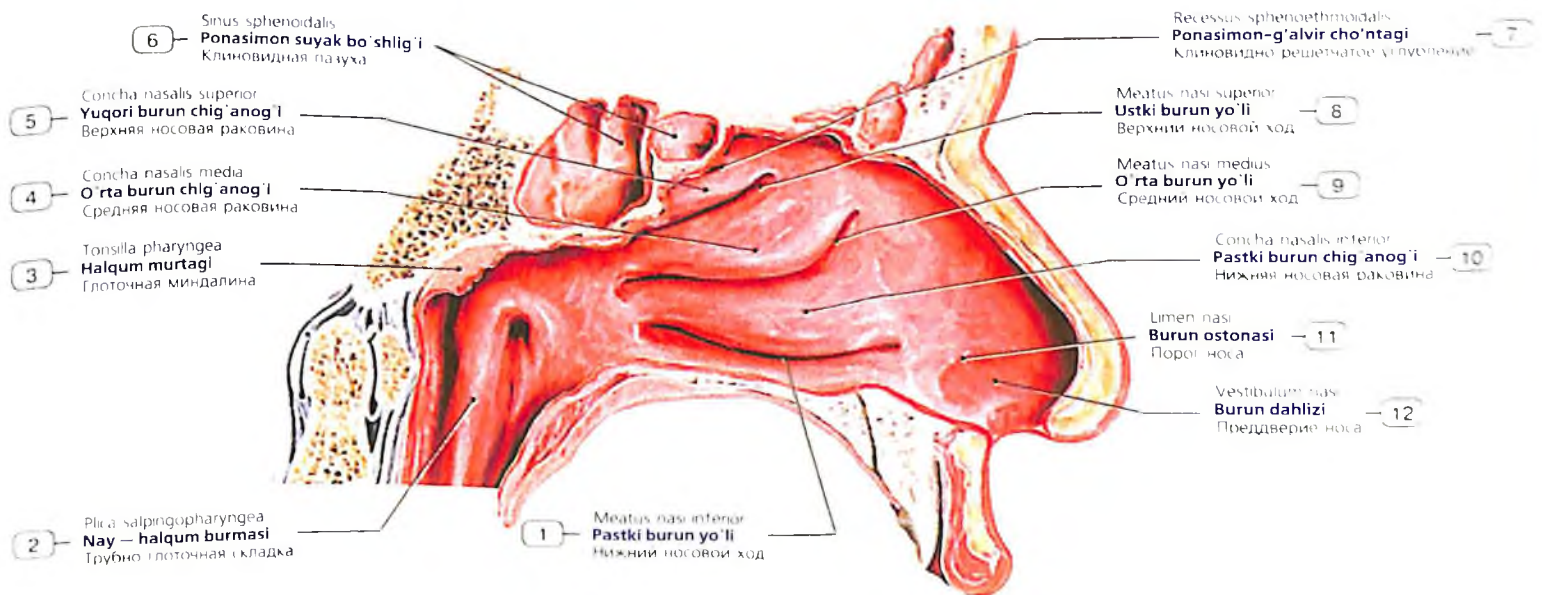
ДЫХАТЕЛЬНАЯ СИСТЕМА





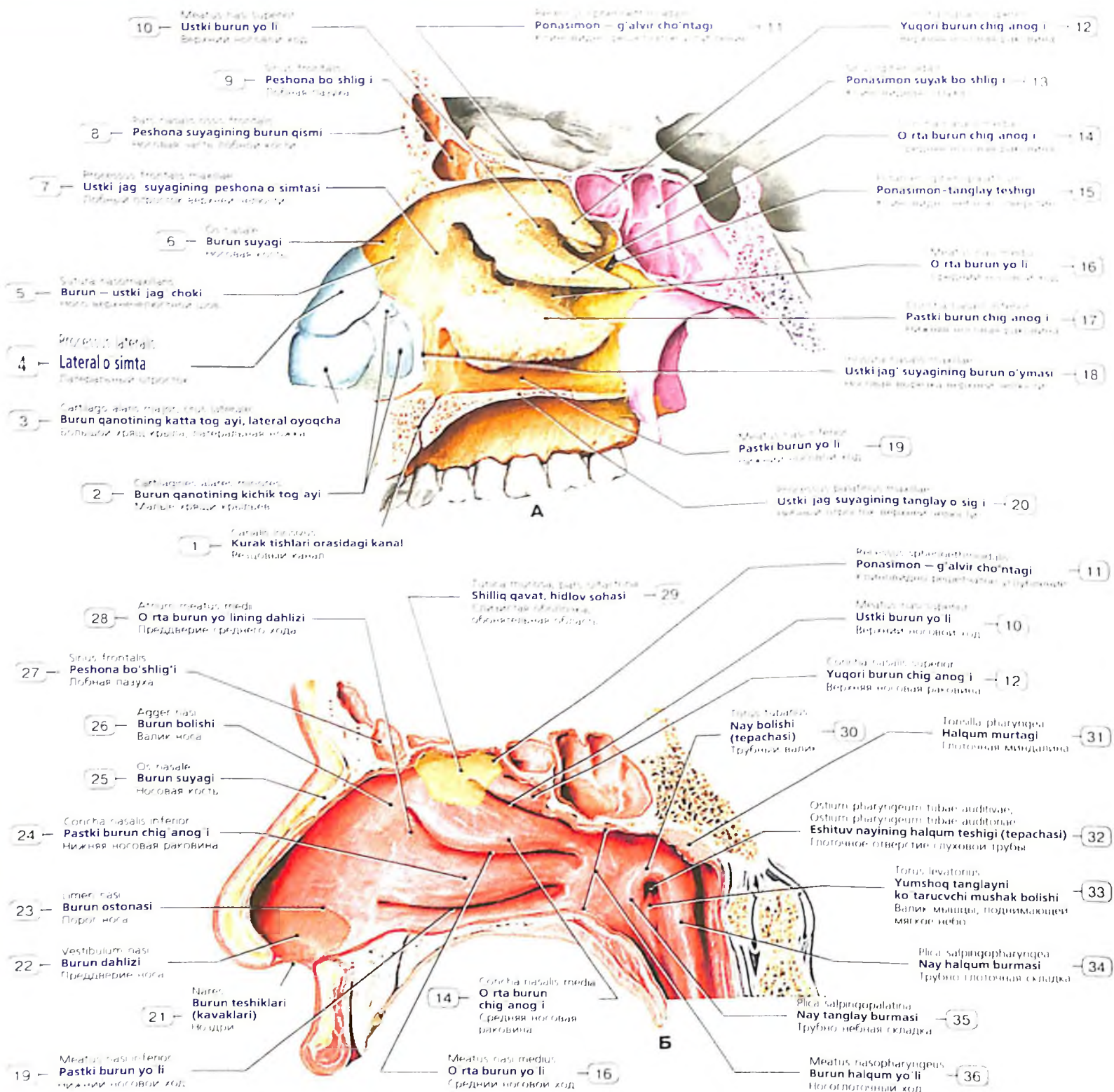
Rasm № 97. Burun to'sig'i (burun shilliq qavati olib tashlangan).
Рисунок № 97. Перегородка носа (слизистая оболочка удалена).

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|------------------------------|--|--|------------------------------------|
| 1 Transverse palatine suture | 6 Cribriform plate, Cribriform foramina | 9 Septal nasal cartilage | 12 Anterior nasal spine |
| 2 Pterygoid hamulus | 7 Frontal sinus | 10 Posterior process, Sphenoid process | 13 Incisive fossa, Incisive canals |
| 3 Pterygoid fossa | 8 Ethmoid, Ethmoidal bone, perpendicular plate | 11 Major alar cartilage, medial crus | 14 Maxilla, palatine process |
| 4 Vomer | | | |
| 5 Sphenoidal sinus | | | |



Rasm № 98. Burun bo'shligining lateral devori.
Рисунок № 98. Латеральная стенка полости носа.

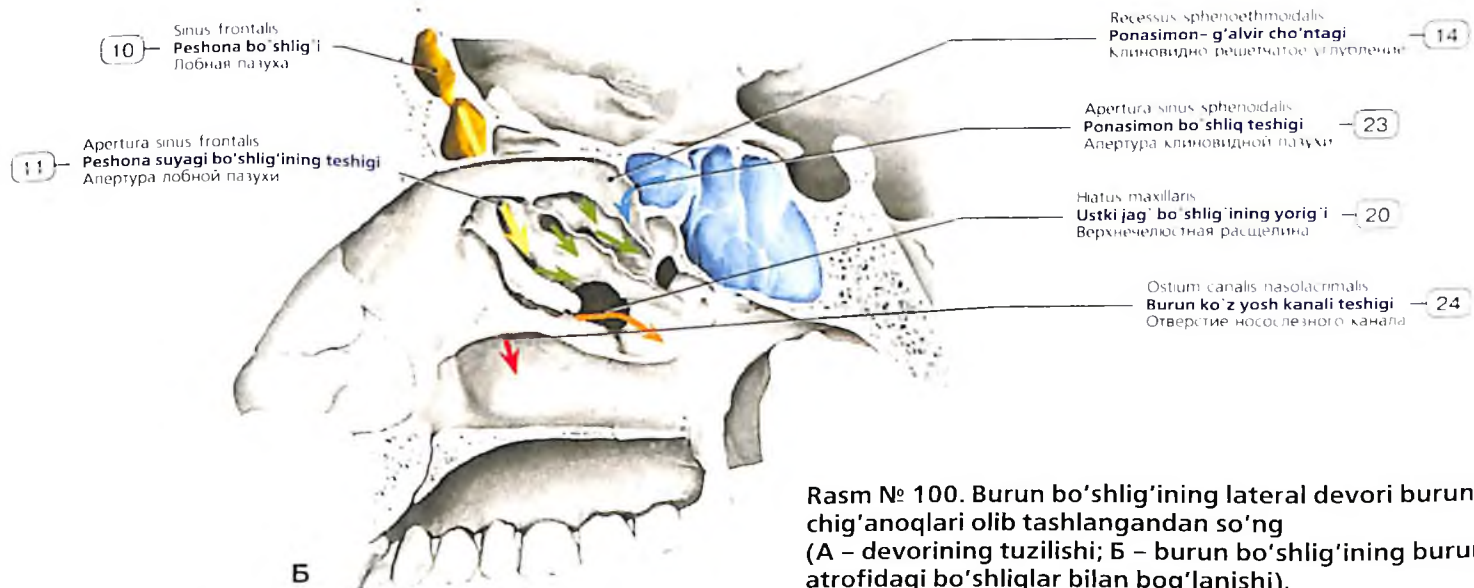
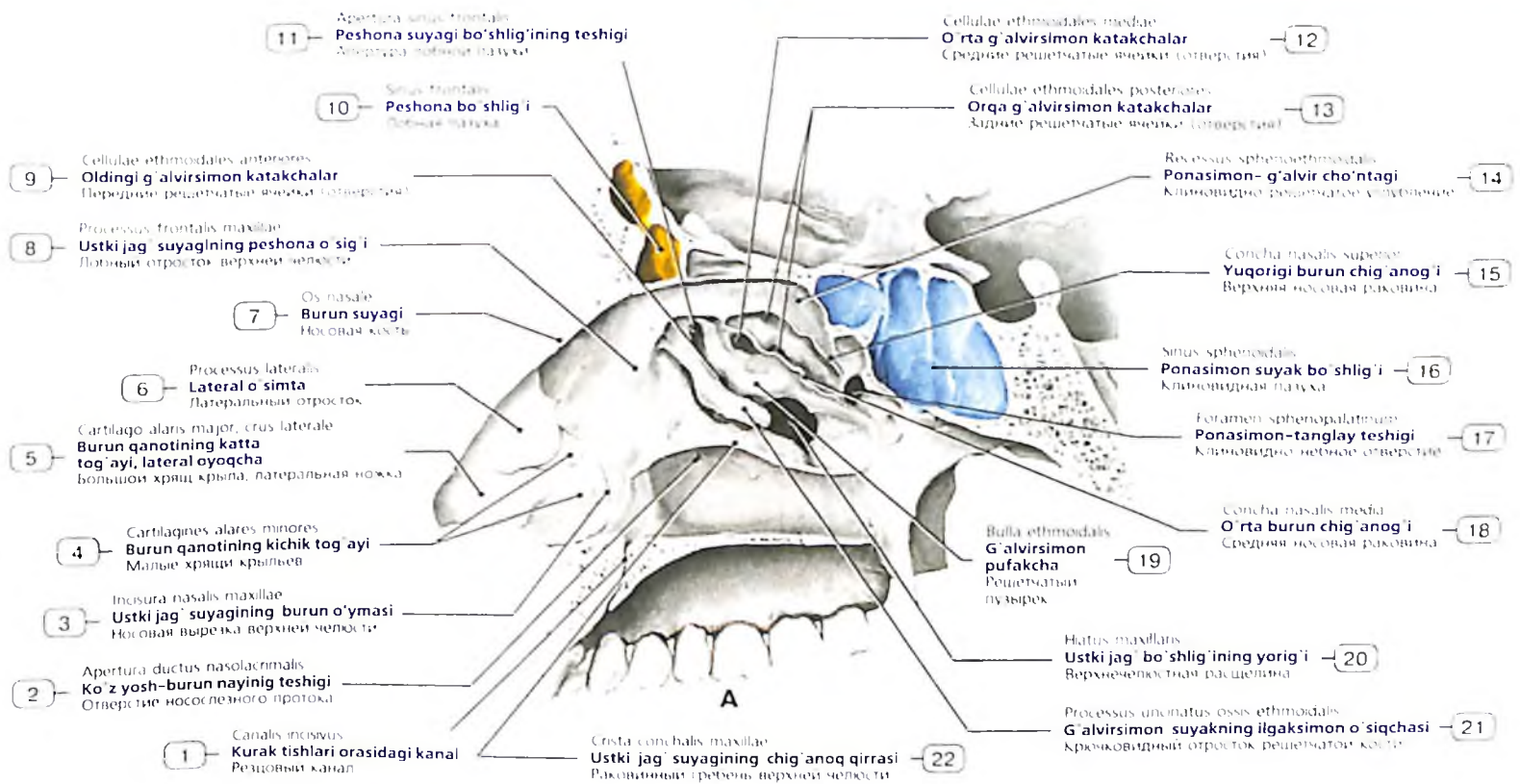
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|---------------------------|-------------------------|---------------------------|--------------------------|
| 1 Inferior nasal meatus | 4 Middle nasal concha | 7 Sphenoeethmoidal recess | 10 Inferior nasal concha |
| 2 Salpingopharyngeal fold | 5 Superior nasal concha | 8 Superior nasal meatus | 11 Limen nasi |
| 3 Pharyngeal tonsil | 6 Sphenoidal sinus | 9 Middle nasal meatus | 12 Nasal vestibule |



Rasm № 99. Burun bo'shlig'ining lateral devori: (A – burun bo'shlig'i lateral devorining suyak–tog'ay qismi; B – burun bo'shlig'i shilliq qavati re'lefi).

Рисунок № 99. Латеральная стенка полости носа: (А – костно-хрящевая основа латеральной стенки полости носа; Б – рельеф слизистой оболочки полости носа).

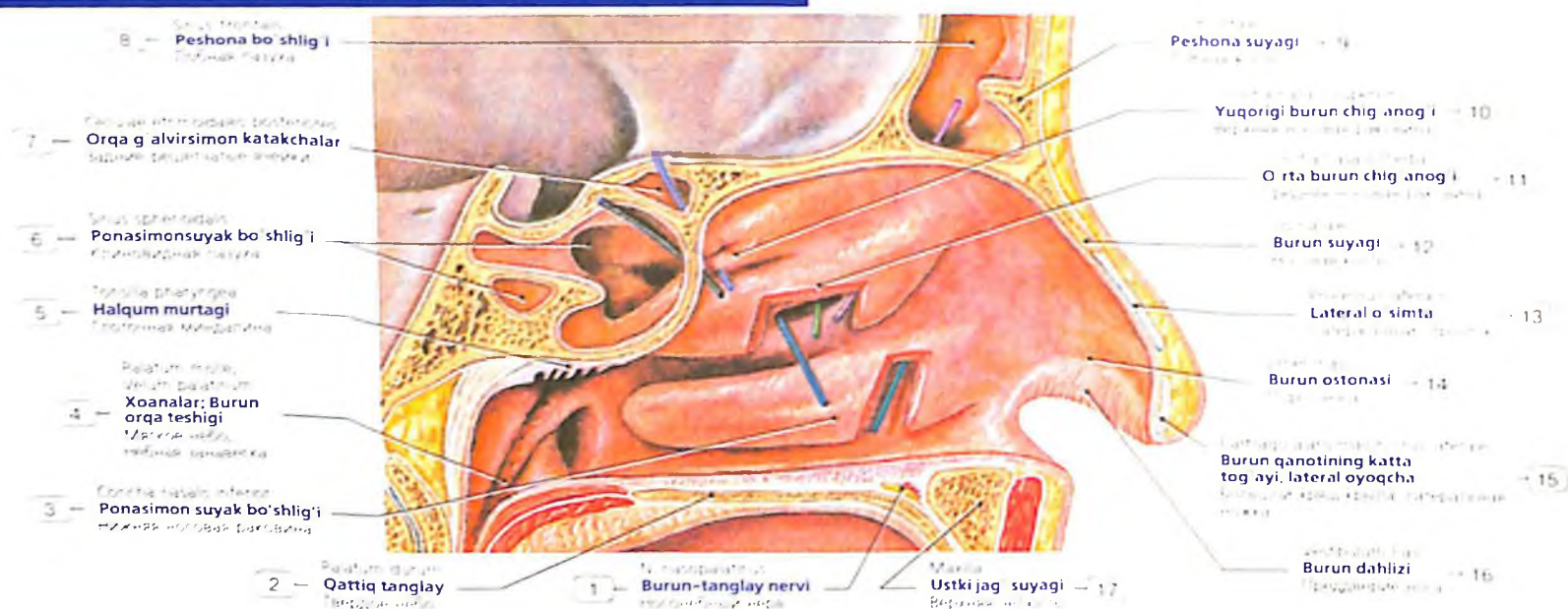
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|--|-------------------------------|---------------------------------|---|-----------------------------|
| 1. Maxilla anterior cartilages | 8. Nasal part of frontal bone | 16. Middle nasal meatus | 24. Inferior nasal concha | 31. Pharyngeal tonsil |
| 2. Maxilla anterior cartilages | 9. Frontal sinus | 17. Inferior nasal concha | 25. Nasal bone | 32. Pharyngeal opening |
| 3. Maxilla anterior cartilages (lateral) | 10. Superior nasal meatus | 18. Nasal notch of maxilla | 26. Agger nasi | 33. Torus levatorius |
| 4. Superior process | 11. Sphenoid ethmoidal recess | 19. Inferior nasal meatus | 27. Frontal sinus | 34. Salpingopharyngeal fold |
| 5. Superior maxillary cartilages | 12. Superior nasal concha | 20. Palatine process of maxilla | 28. Atrium of middle meatus | 35. Salpingopalatine fold |
| 6. Nasal bone | 13. Sphenoidal sinus | 21. Nares, Nostrils | 29. Mucosa, Mucous membrane, olfactory region | 36. Nasopharyngeal meatus |
| 7. Maxilla posterior of maxilla | 14. Middle nasal concha | 22. Nasal vestibule | 30. Torus tubarius | |
| | 15. Sphenopalatine foramen | 23. Uner nose | | |



Rasm № 100. Burun bo'shlig'ining lateral devori burun chig'anoqlari olib tashlangandan so'ng (A – devorining tuzilishi; B – burun bo'shlig'ining burun atrofıdagi bo'shliqlar bilan bog'lanishi).
Рисунок № 100. Латеральная стенка полости носа после удаления носовых раковин (A – строение стенки; B – сообщения околоносовых пазух с полостью носа).

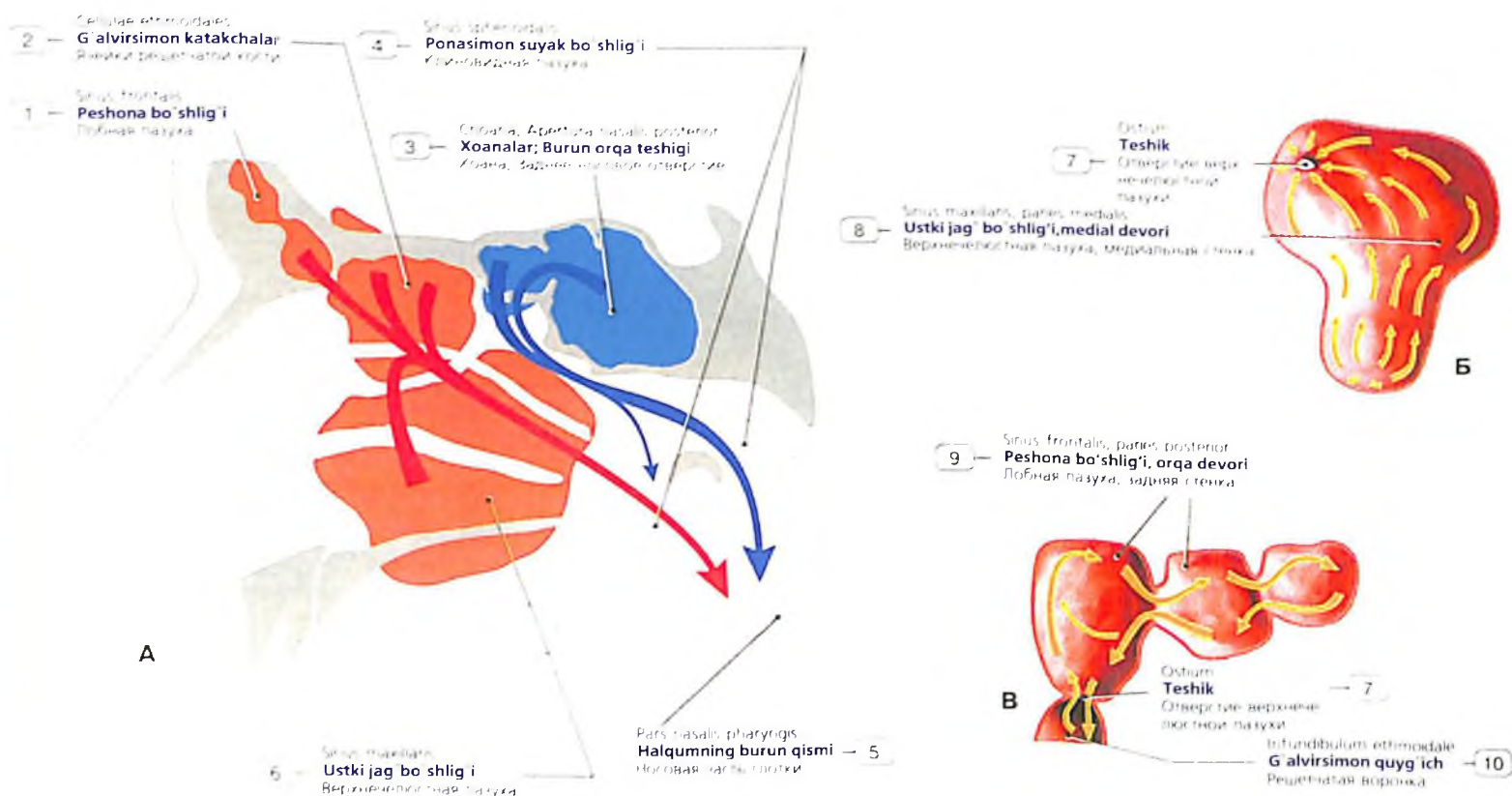
- **Ponasimon suyak bo'shlig'i** — ponasimon-g'alvir cho'ntagiga ochiladi
Клиновидная пазуха открывается в клиновидно-решетчатое углубление
- **G'alvirsimon suyakning orqa katakchalari** yuqori burun yo'liga ochiladi;
G'alvirsimon suyakning oldingi va o'rta katakchalari o'rta burun yo'liga ochiladi
Задние решетчатые ямки открываются в верхний носовой ход, передние и средние решетчатые ямки открываются в средний носовой ход
- **Ustki jag' bo'shlig'i o'rta burun yo'liga ochiladi**
Верхнечелюстная пазуха открывается в средний носовой ход
- **Peshona bo'shlig'i o'rta burun yo'liga ochiladi**
Лобная пазуха открывается в средний носовой ход
- **Burun ko'z yosh kanali** pastki burun yo'liga ochiladi
Носослезный проток открывается в нижний носовой ход

- 1 Incisive canals
- 2 Opening of nasolacrimal duct
- 3 Nasal notch of maxilla
- 4 Minor alar cartilages
- 5 Major alar cartilage, lateral crus
- 6 Lateral process
- 7 Nasal bone
- 8 Frontal process of maxilla
- 9 Anterior ethmoidal cells
- 10 Frontal sinus
- 11 Opening of frontal sinus
- 12 Middle ethmoidal cells
- 13 Posterior ethmoidal cells
- 14 Sphenothymal recess
- 15 Superior nasal concha
- 16 Sphenoidal sinus
- 17 Sphenopalatine foramen
- 18 Middle nasal concha
- 19 Ethmoidal bulla
- 20 Maxillary hiatus
- 21 Uncinate process of ethmoidal bone
- 22 Conchal crest of maxilla
- 23 Opening of sphenoidal sinus
- 24 Opening of nasolacrimal canal



Rasm № 101. Burun bo'shlig'ining aloqa yo'llari.
Рисунок № 101. Сообщения носовой полости.

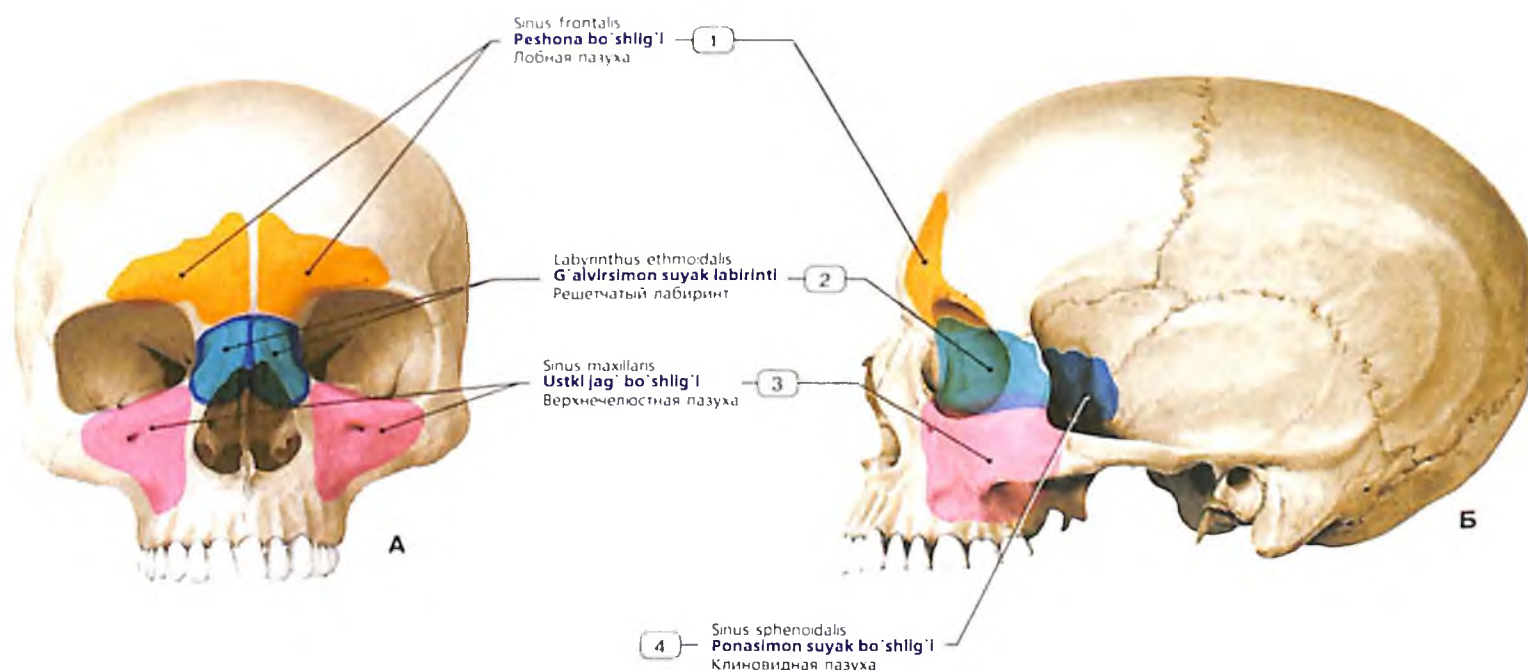
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|--------------------------|-------------------------------|-------------------------|
| 1. Nasopalatine nerve | 6. Superior nasal concha | 11. Middle nasal concha |
| 2. Hard palate | 7. Superior ethmoidal foramen | 12. Middle nasal concha |
| 3. Inferior nasal concha | 8. Superior nasal concha | 13. Middle nasal concha |
| 4. Soft palate | 9. Middle nasal concha | 14. Middle nasal concha |
| 5. Pharyngeal tonsil | 10. Middle nasal concha | 15. Middle nasal concha |



Rasm № 102. Kalla suyagidagi burun atrofi bo'shliqlarini drenajlash [A – bo'shliqlar joylashuvi; B, B – suyuqlikni ritmik yo'naltirish, (B) yuqori jag' va (B) peshona bo'shliqlari] (chizma).

Рисунок № 102. Дренаж околоносовых пазух черепа [A – расположение пазух; Б, В – направление ритмических движений ресничек и жидкости, текущей в верхнечелюстную (Б) и лобную (В) пазухи] (схемы).

- | | | | |
|--------------------------|------------------------------------|---------------------------------|----------------------------------|
| 1. Frontal sinus | 4. Chorda posterior nasal aperture | 6. Maxillary sinus | 9. Frontal sinus, posterior wall |
| 2. Superior nasal concha | 5. Nasopharynx | 7. Orifice | 10. Ethmoidal infundibulum |
| 3. Superior nasal concha | | 8. Maxillary sinus, medial wall | |



Rasm № 103. Kalla suyagi havo saqlavchi suyaklari bo'shliqlari (burun atrofidagi bo'shliqlar) (ranglar bilan ajratilgan) (A – oldindan ko'rinishi; B – yon tomondan ko'rinishi, chap tomon; B – peshona va ustki jag' bo'shliqlarining yoshga oid o'zgarishlari; Г – havo saqlovchi bo'shliqlarning kalladagi proyeksiyasi).

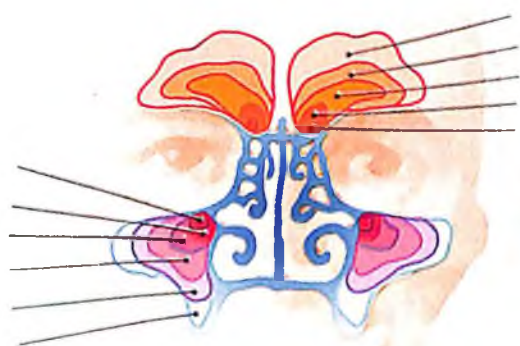
Рисунок № 103. Пазухи воздухоносных костей черепа (околоносовые пазухи) (выделены цветом) (А – вид спереди; Б – вид сбоку, слева; В – возрастные изменения лобной и верхнечелюстной пазух; Г – проекции воздухоносных пазух черепа).

1 Frontal sinus

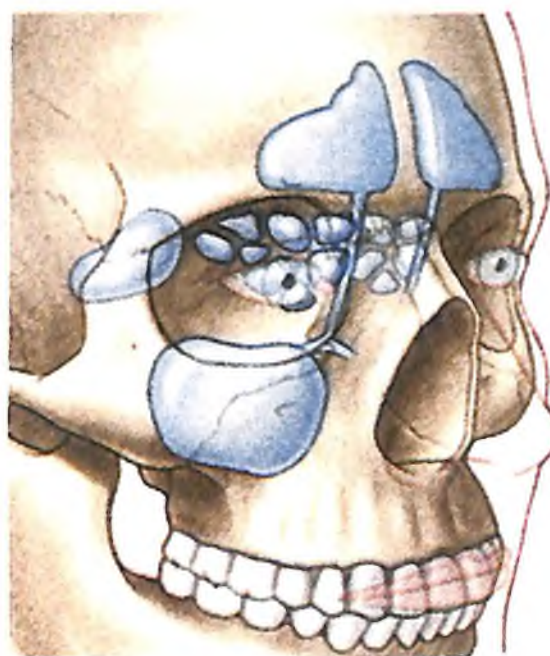
2 Ethmoidal labyrinth

3 Maxillary sinus

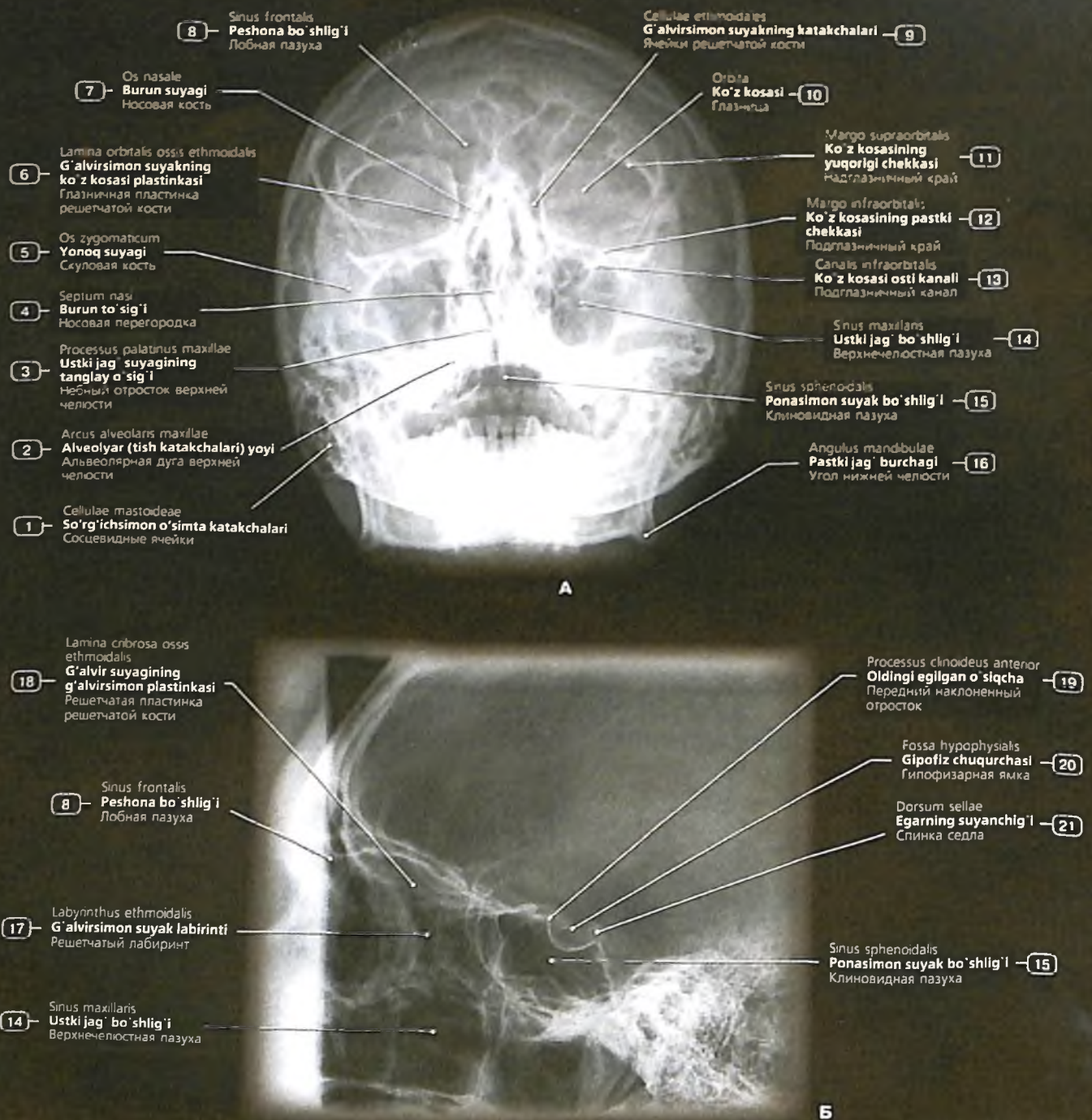
4 Sphenoidal sinus



В



Г



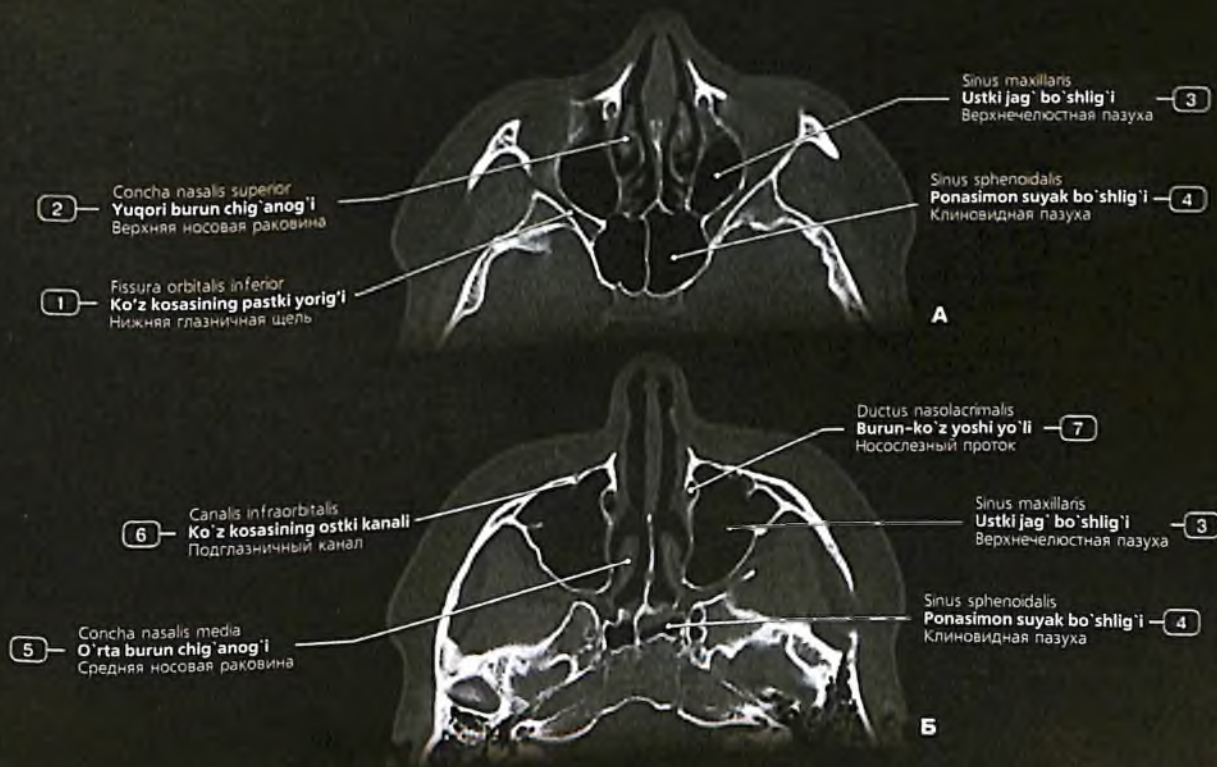
Rasm № 104. Burun atrofidagi bo'shliqlarning rentgen tasviri (A – burun atrofidagi bo'shliqlar rentgenogrammasi; B – ponasimon suyak bo'shlig'i va turk egarining rentgenogrammasi, yon proyeksiya).
Рисунок № 104. Околоносовые пазухи в рентгеновском изображении (А – рентгенограмма околоносовых пазух, прямая проекция; Б – прицельная рентгенограмма клиновидной пазухи и турецкого седла, боковая проекция).

- | | | | |
|-------------------------------|-------------------------|-------------------------|---------------------------------|
| 1 Mastoid cells | 7 Ethmoidal bone | 12 Infra-orbital margin | 18 Cribriform plate of ethmoid; |
| 2 Alveolar arch of maxilla | 8 Nasal bone | 13 Infra-orbital canal | Ethmoidal bone |
| 3 Palatine process of maxilla | 9 Frontal sinus | 14 Maxillary sinus | 19 Anterior clinoid process |
| 4 Nasal septum | 10 Ethmoidal cells | 15 Sphenoidal sinus | 20 Hypophysial fossa |
| 5 Zygomatic bone | 11 Orbit | 16 Angle of mandible | 21 Dorsum sellae |
| 6 Orbital plate of ethmoid; | 12 Supra-orbital margin | 17 Ethmoidal labyrinth | |



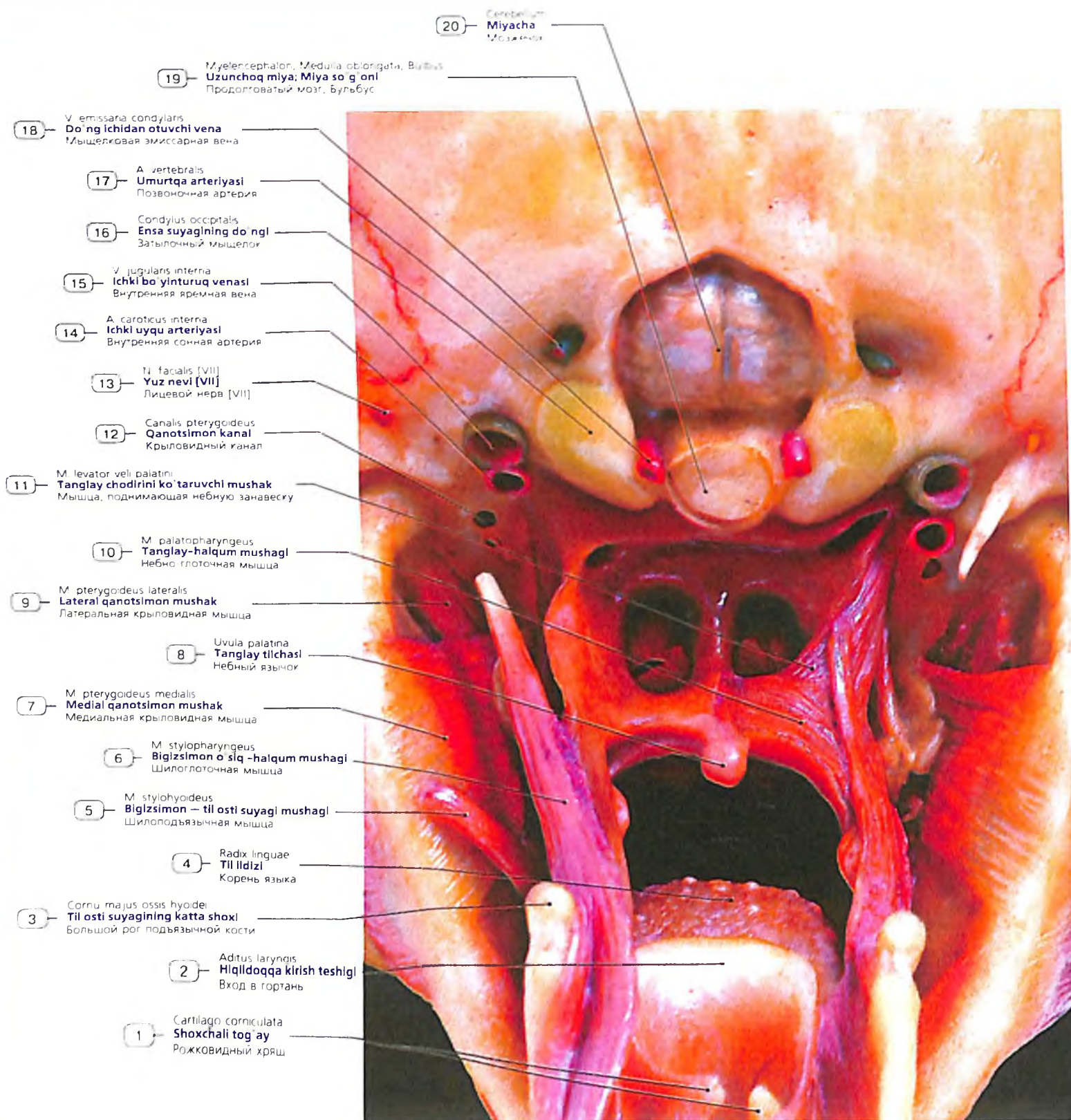
Rasm № 105. Burun bo'shlig'i va atrofidagi bo'shliqlar. Kompyuter tomogrammasi. Frontal kesim.
Рисунок № 105. Полость носа и околоносовые пазухи. Компьютерная томограмма. Фронтальный срез.

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|-------------------------|---|---|-------------------------|
| 1 Inferior nasal meatus | 4 Orbital plate of ethmoid;
Ethmoidal bone | 6 Cribiform plate of ethmoid;
Ethmoidal bone | 8 Maxillary sinus |
| 2 Vomer | 5 Ethmoidal labyrinth | 7 Middle nasal meatus | 9 Inferior nasal concha |
| 3 Middle nasal concha | | | |



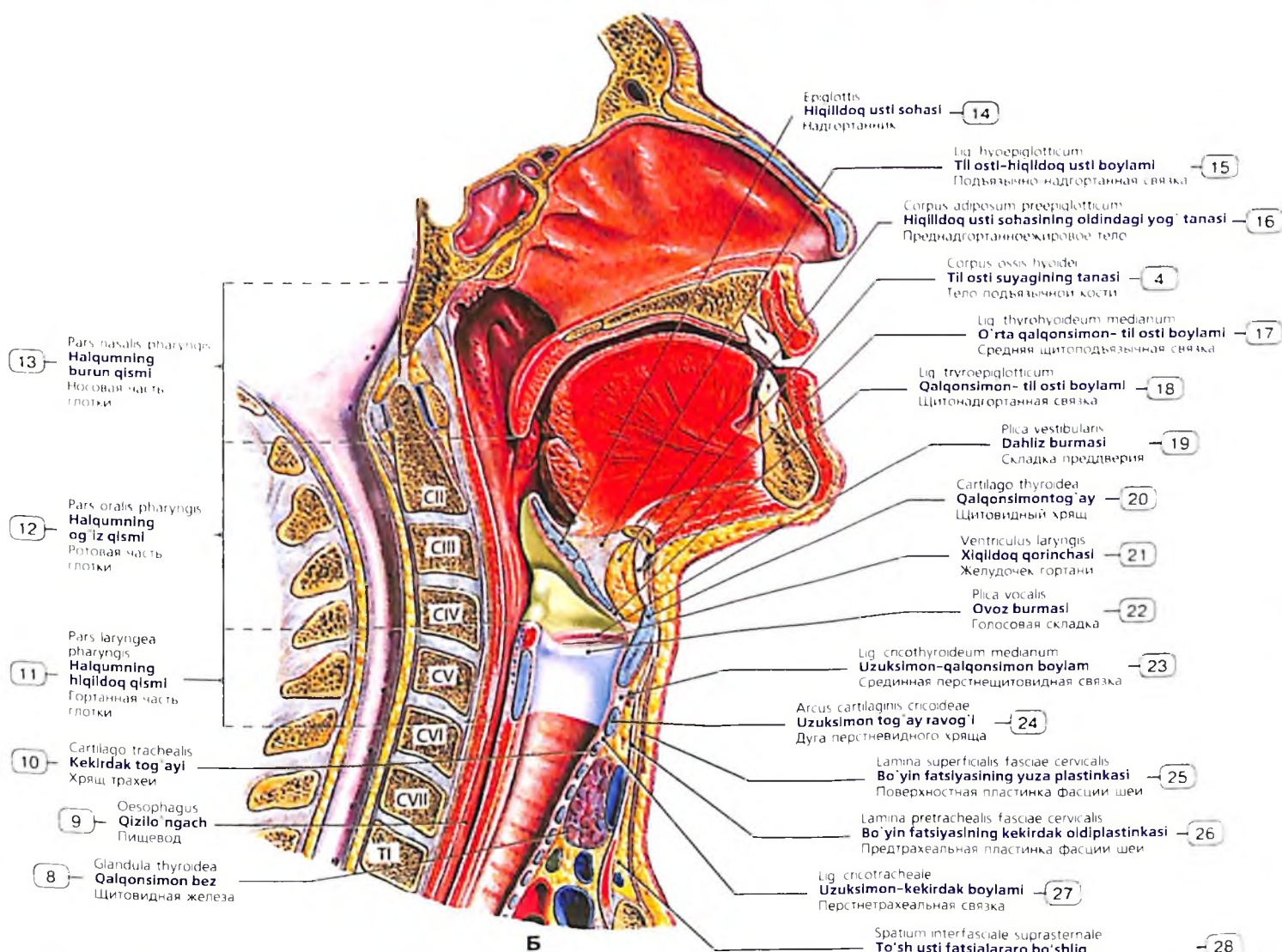
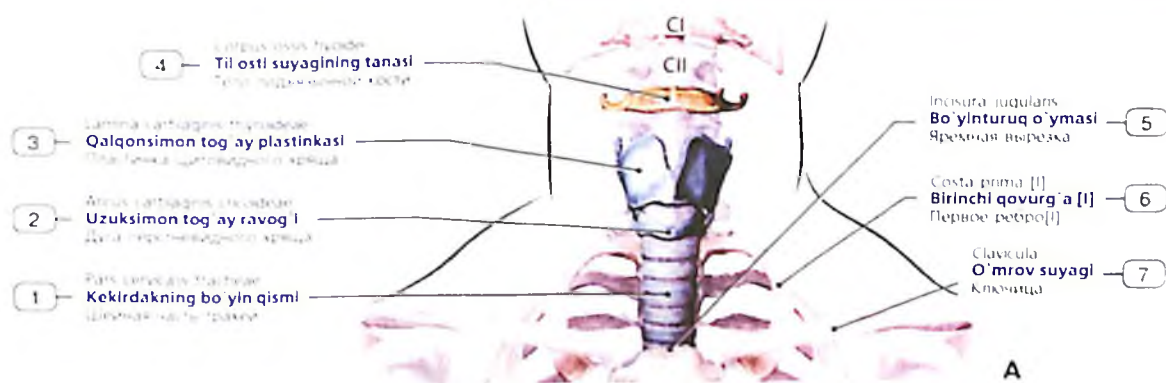
Rasm № 106. Burun bo'shlig'i atrofidagi bo'shliqlar. Kompyuter tomogrammasi. Gorizontal (aksial) kesim
(A – yuqori burun yo'li sohasi; B – o'rta burun yo'li sohasi).
Рисунок № 106. Полость носа и околоносовые пазухи. Компьютерная томограмма. Горизонтальный
(аксиальный) срез (A – уровень верхнего носового хода; B – уровень среднего носового хода).

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|----------------------------|--------------------|-----------------------|---------------------|
| 1 Inferior orbital fissure | 3 Maxillary sinus | 5 Middle nasal concha | 7 Nasolacrimal duct |
| 2 Superior nasal concha | 4 Sphenoidal sinus | 6 Infra-orbital canal | |



Rasm № 107. Halqum, burun va og'iz qismi, orqa tomondan ko'rinishi (mumdan tayyorlangan model).
Рисунок № 107. Глотка, носовой и ротовой отделы, вид сзади (восковая модель).

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|-------------------------------|---------------------------|-----------------------------|---|
| 1. Corniculate cartilage | 7. Medial pterygoid | 13. Facial nerv [VII] | 19. Myelencephalon, Medulla oblongata, Bulb |
| 2. Laryngeal inlet | 8. Uvula | 14. Internal carotid artery | 20. Cerebellum |
| 3. Greater horn of hyoid bone | 9. Lateral pterygoid | 15. Internal jugular vein | |
| 4. Root of tongue | 10. Palatopharyngeus | 16. Occipital condyle | |
| 5. Stylohyoid | 11. Levator veli palatini | 17. Vertebral artery | |
| 6. Stylopharyngeus | 12. Pterygoid canal | 18. Condylar emissary vein | |

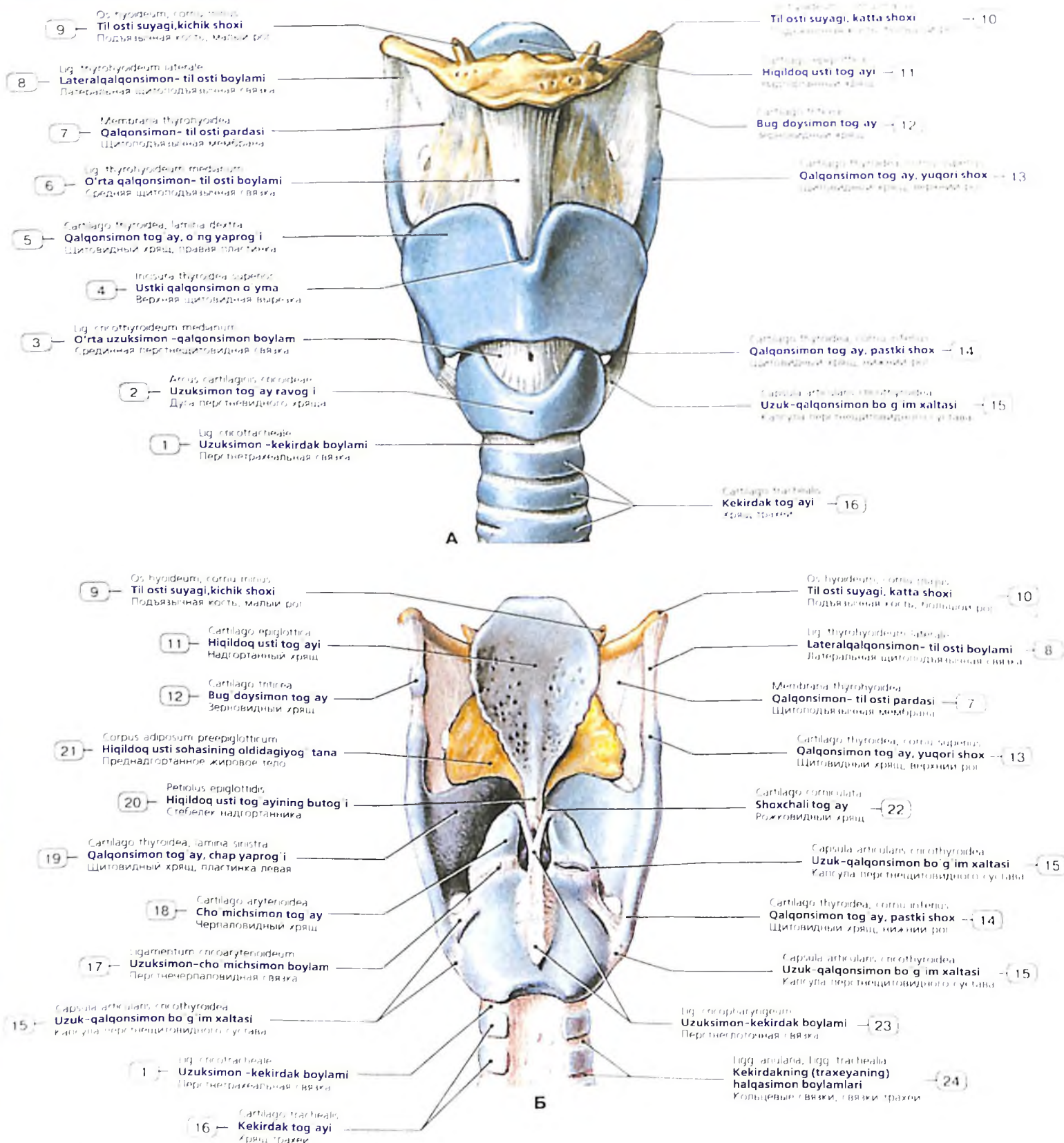


- ☐ Vestibulum laryngis
- ☐ Ventriculus laryngis
- ☐ Cavitas infraglottica

Rasm № 108. Hiqildoq va kekirdakning bo'yin qismi topografiyasi (A – hiqildoq skeletotopiyasi; old tomondan ko'rinishi; B – bosh va bo'yin sagittal kesimida halqum va hiqildoqning topografiyasi).

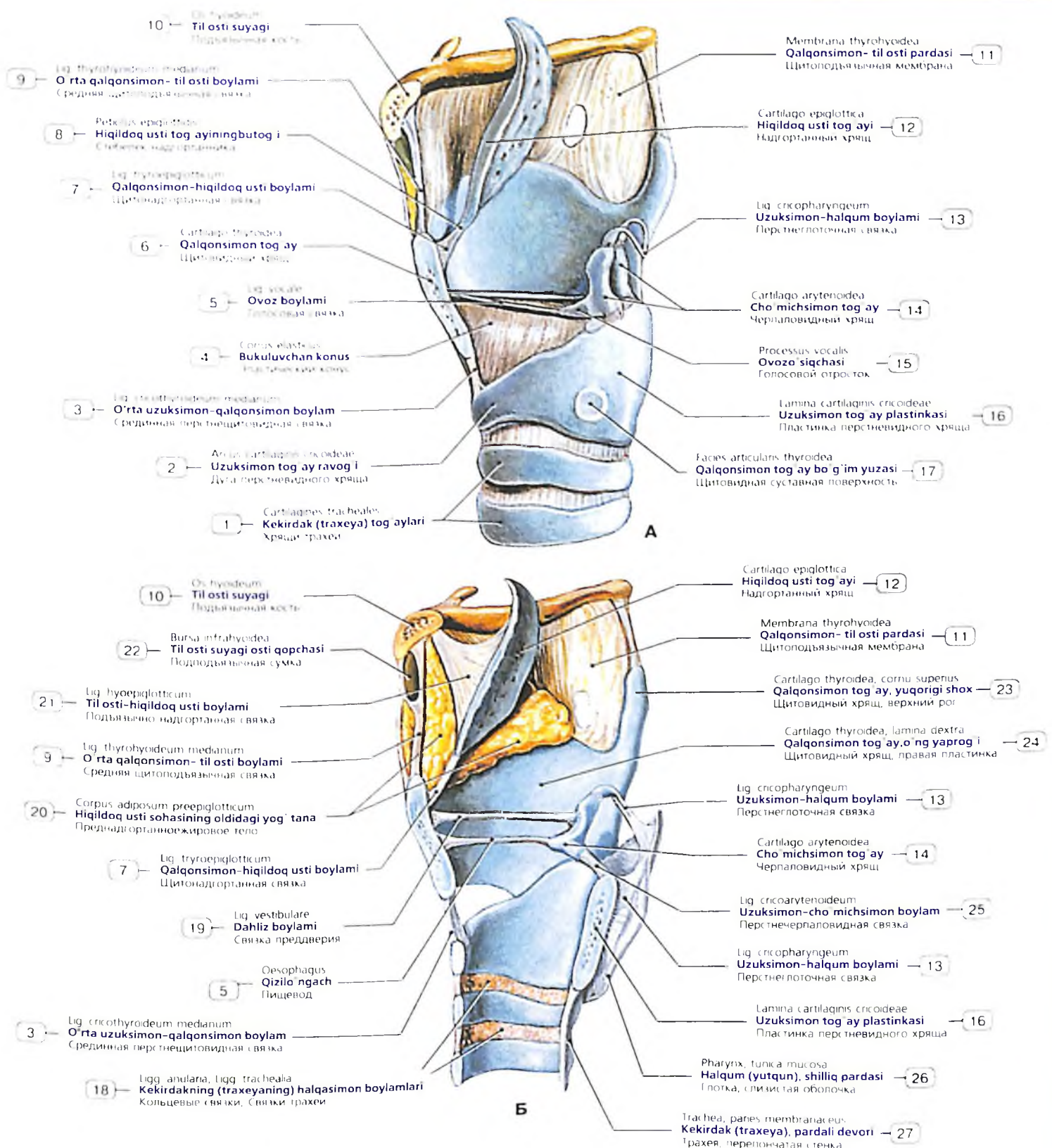
Рисунок № 108. Топография гортани и шейной части трахеи (А – скелетотопия гортани, вид спереди; Б – топография глотки и гортани на сагитальном распиле головы и шеи).

- | | | | | |
|-------------------------------------|--------------------------------|-------------------------------|---|---|
| 1 Cervical part of trachea | 7 Clavicle | 13 Nasopharynx | 20 Thyroid cartilage | 26 Pretracheal layer of cervical fascia |
| 2 Arch of cricoid cartilage | 8 Thyroid gland | 14 Epiglottis | 21 Laryngeal ventricle | 27 Cricotracheal ligament |
| 3 Lamina of thyroid cartilage | 9 Oesophagus | 15 Hyoepiglottic ligament | 22 Vocal fold | 28 Suprasternal interfascial space |
| 4 Body of hyoid bone | 10 Tracheal cartilage | 16 Preepiglottic fat body | 23 Median cricothyroid ligament | |
| 5 Jugular notch, Suprasternal notch | 11 Laryngopharynx, Hypopharynx | 17 Median thyrohyoid ligament | 24 Arch of cricoid cartilage | |
| 6 First rib [I] | 12 Oropharynx | 18 Thyroepiglottic ligament | 25 Superficial layer of cervical fascia | |
| | | 19 Vestibular fold | | |



Rasm № 109. Hiqildoq tog'aylarining bo'g'im va boylamlari. (A – old tomon ko'rinishi; B – orqa tomondan ko'rinishi).
Рисунок № 109. Суставы и связки хрящей гортани (А – вид спереди; Б – вид сзади).

- | | | | | |
|---------------------------------------|--------------------------------|--------------------------------------|------------------------------------|------------------------------|
| 1. Lig. cricothyroideum | 6. Lig. thyrohyoideum medianum | 11. Epiglottic cartilage | 16. Capsule of cricothyroid joint | 21. Pre epiglottic fat body |
| 2. Arcus cartilagineus cricoideus | 7. Thyrohyoid membrane | 12. Intercricoid cartilage | 17. Cricoarytenoid ligament | 22. Corniculate cartilage |
| 3. Lig. cricothyroideum medianum | 8. Lateral thyrohyoid ligament | 13. Thyroid cartilage, superior horn | 18. Arytenoid cartilage | 23. Cricopharyngeal ligament |
| 4. Incisura thyroidea superior | 9. Hyoid bone, lesser horn | 14. Thyroid cartilage, inferior horn | 19. Thyroid cartilage, left lamina | 24. Annular ligaments |
| 5. Cartilago thyroidea, lamina dextra | 10. Hyoid bone, greater horn | | 20. Peak of epiglottis | |

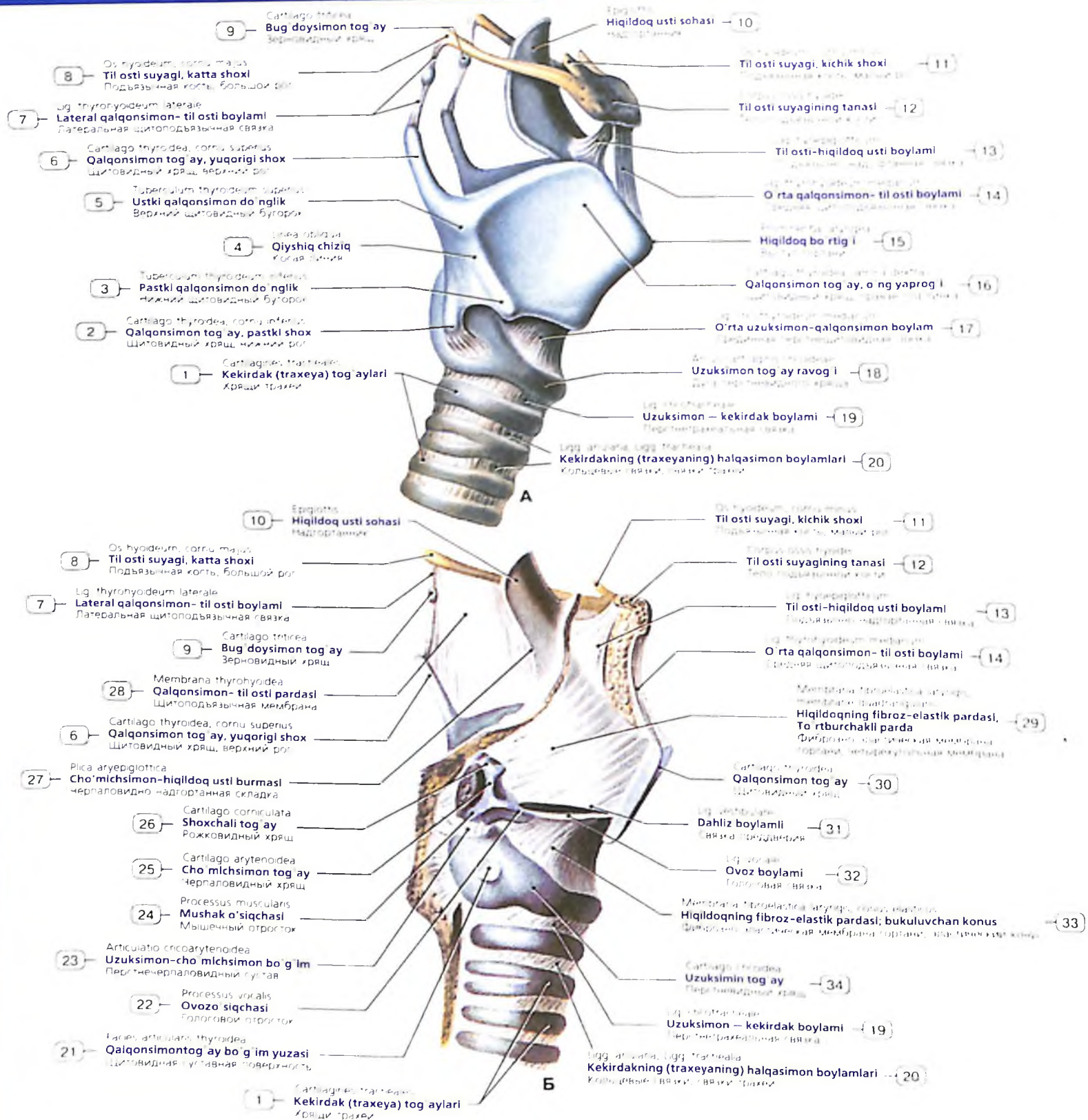


Rasm № 110. Hiqildoq tog'aylarning boylamlari (A – yon tomondan ko'rinishi; B – ichki tomondan ko'rinishi, hiqildoqning sagittal kesimi).

Рисунок № 110. Связки хрящей гортани (А – вид сбоку; Б – вид изнутри, сагиттальный разрез гортани).

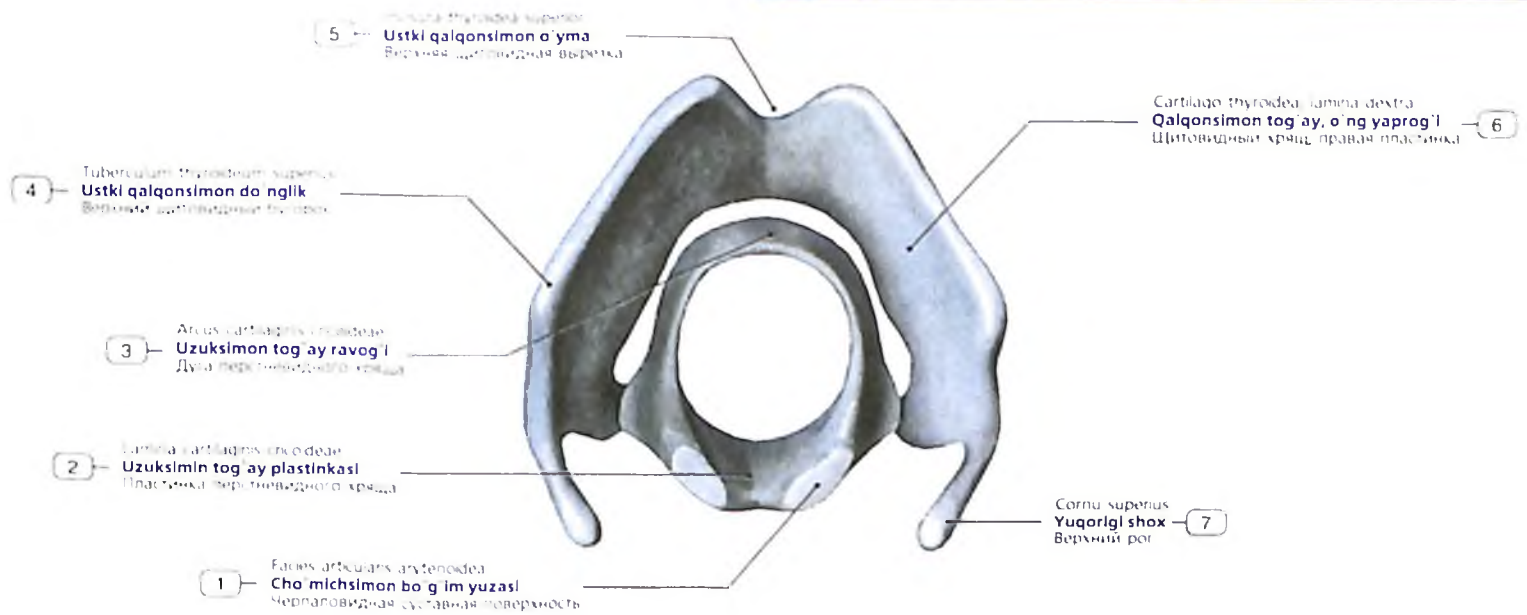
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|---|-------------------------------|---------------------------------|--------------------------------------|--------------------------------------|
| 1. Tracheal cartilages | 6. Thyroid cartilage | 13. Cricopharyngeal ligament | 20. Pre epiglottic fat body | 25. Crico arytenoid ligament |
| 2. Arch of cricoid cartilage | 7. Thyro epiglottic ligament | 14. Arytenoid cartilage | 21. Hyo epiglottic ligament | 26. Pharynx, mucosa, mucous membrane |
| 3. Median cricothyroid ligament | 8. Stalk of epiglottis | 15. Vocal process | 22. Infrahyoid bursa | 27. Trachea, membranous wall |
| 4. Conus elasticus, Cricovocal membrane | 9. Median thyrohyoid ligament | 16. Lamina of cricoid cartilage | 23. Thyroid cartilage, superior horn | |
| 5. Vocal ligament | 10. Hyoid bone | 17. Thyroid articular surface | 24. Thyroid cartilage, right lamina | |
| | 11. Thyrohyoid membrane | 18. Anular ligaments | | |
| | 12. Epiglottic cartilage | 19. Vestibular ligament | | |

ДЫХАТЕЛЬНАЯ СИСТЕМА



Rasm № 111. Hiqildoq boylamlari (A – yon tomondan ko'rinishi; B – ichki tomondan ko'rinishi).
Рисунок № 111. Связки гортани (А – вид сбоку; Б – вид изнутри).

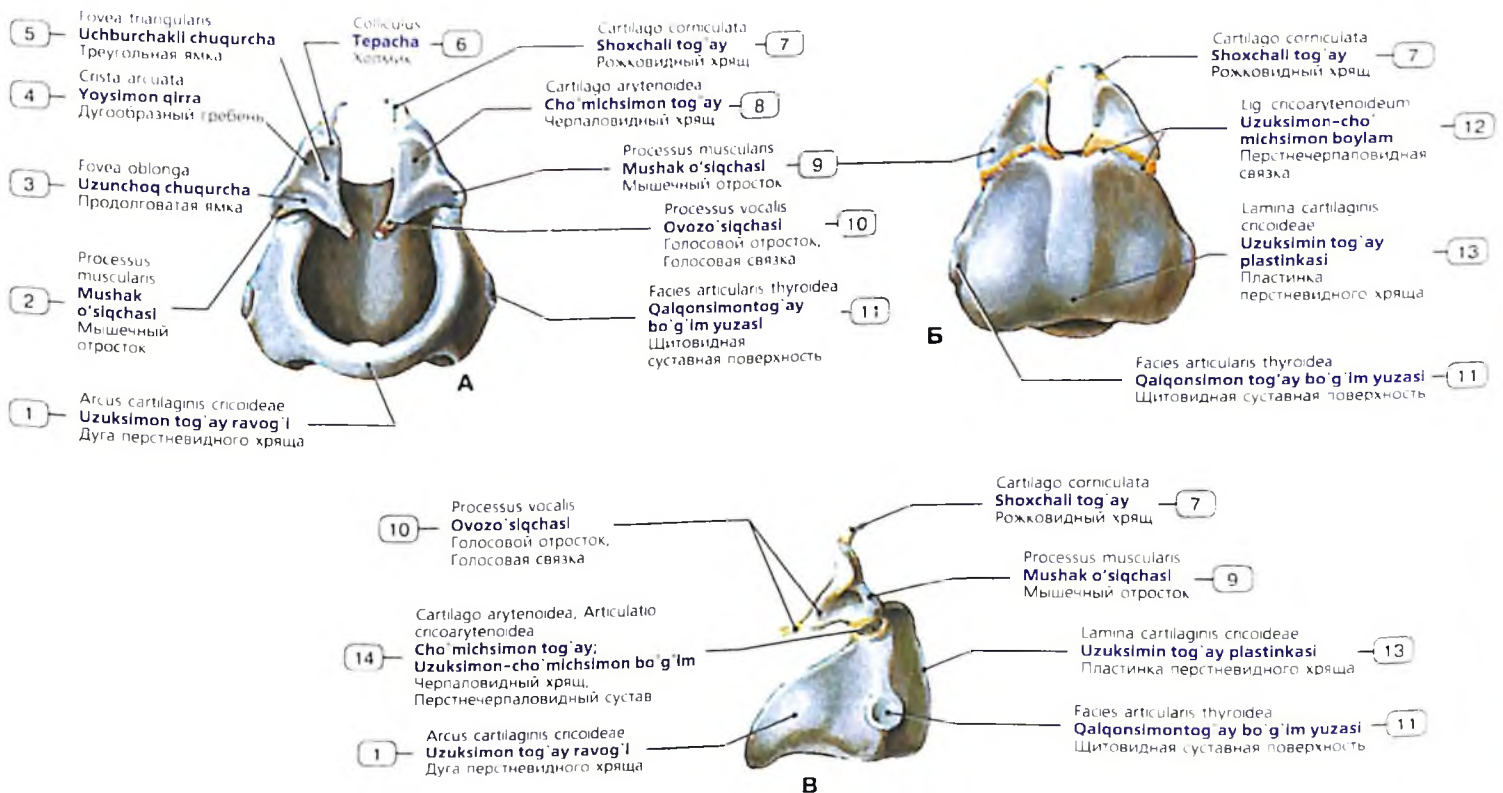
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|--|----------------------------------|---|---|
| 1. Tracheal cartilages | 8. Hyoid bone, greater horn | 14. Muscular process | 31. Vestibular ligament |
| 2. Thyroid cartilage, inferior horn | 9. Tritieal cartilage | 15. Arytenoid cartilage | 32. Vocal ligament |
| 3. Cuneiform ligament | 10. Epiglottis | 16. Corniculate cartilage | 33. Epithyroid elastic membrane of larynx, conus elasticus, cricothyroid membrane |
| 4. Ligament of thyrohyoid, lateral | 11. Hyoid bone, lesser horn | 17. Ary epiglottic fold | 34. Cricoid cartilage |
| 5. Tuberculum thyroideum superius | 12. Body of hyoid bone | 18. Thyroid membrane | |
| 6. Cartilago thyroidea, cornu superius | 13. Hyo epiglottic ligament | 19. Fibro elastic membrane of larynx, quadrangular membrane | |
| 7. Lig. thyrohyoideum laterale | 14. Median cricothyroid ligament | 20. Thyroid cartilage | |
| | 15. Ary epiglottic fold | | |
| | 16. Median cricothyroid ligament | | |
| | 17. Thyroid cartilage, right | | |



Rasm № 112. Uzuksimon va qalqonsimon tog'ay, yuqori tomondan ko'rinishi

Рисунок № 112. Перстневидный и щитовидный хрящи, вид сверху.

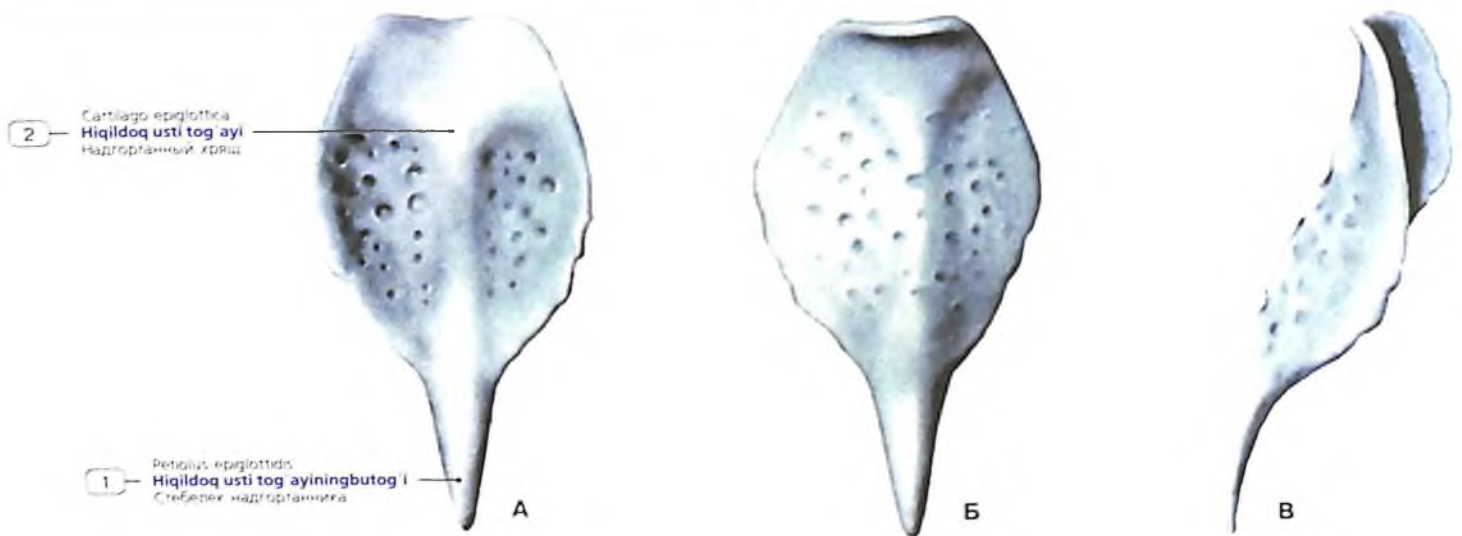
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|-------------------------------|-----------------------------|----------------------------|-----------------|
| 1 Arytenoid articular surface | 3 Arch of cricoid cartilage | 5 Superior thyroid notch | lamina |
| 2 Lamina of cricoid cartilage | 4 Superior thyroid tubercle | 6 Thyroid cartilage, right | 7 Superior horn |



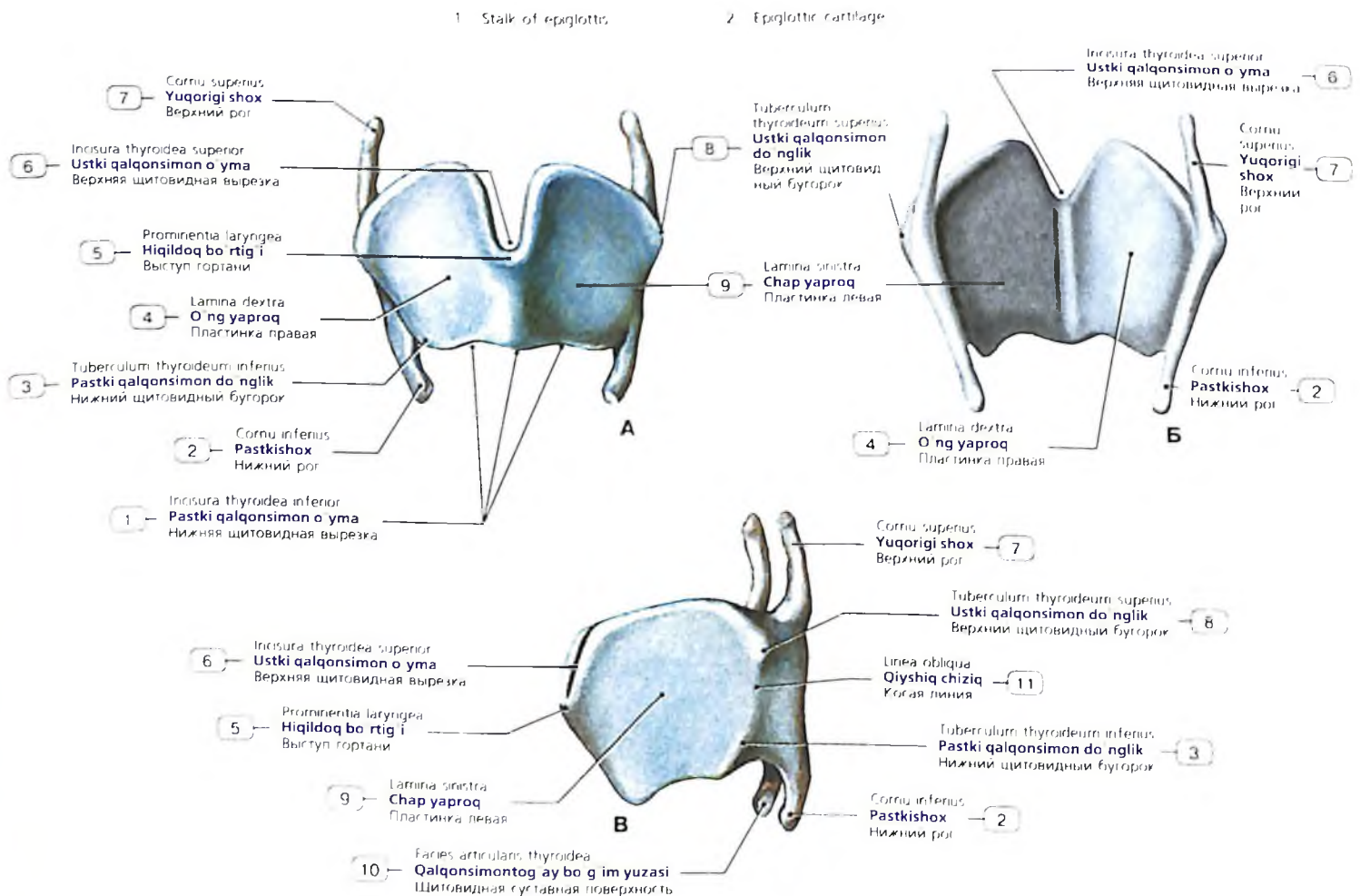
Rasm № 113. Cho'michsimon, uzuksimon va qalqonsimon tog'aylarning bog'liqligi (A – orqa tomondan ko'rinishi; B – oldindan ko'rinishi; B – yon tomondan ko'rinishi).

Рисунок № 113. Взаимоотношения черпаловидного, перстневидного и щитовидного хрящей (A – вид сзади; B – вид спереди; B – вид сбоку).

- | | | | |
|-----------------------------|-------------------------|----------------------------------|--|
| 1 Arch of cricoid cartilage | 5 Triangular fovea | 9 Muscular process | 12 Crico arytenoid ligament |
| 2 Muscular process | 6 Colliculus | 10 Vocal process, Vocal ligament | 13 Lamina of cricoid cartilage |
| 3 Oblong fovea | 7 Corniculate cartilage | 11 Thyroid articular surface | 14 Arytenoid cartilage, Cricoarytenoid joint |
| 4 Arcuate crest | 8 Arytenoid cartilage | | |

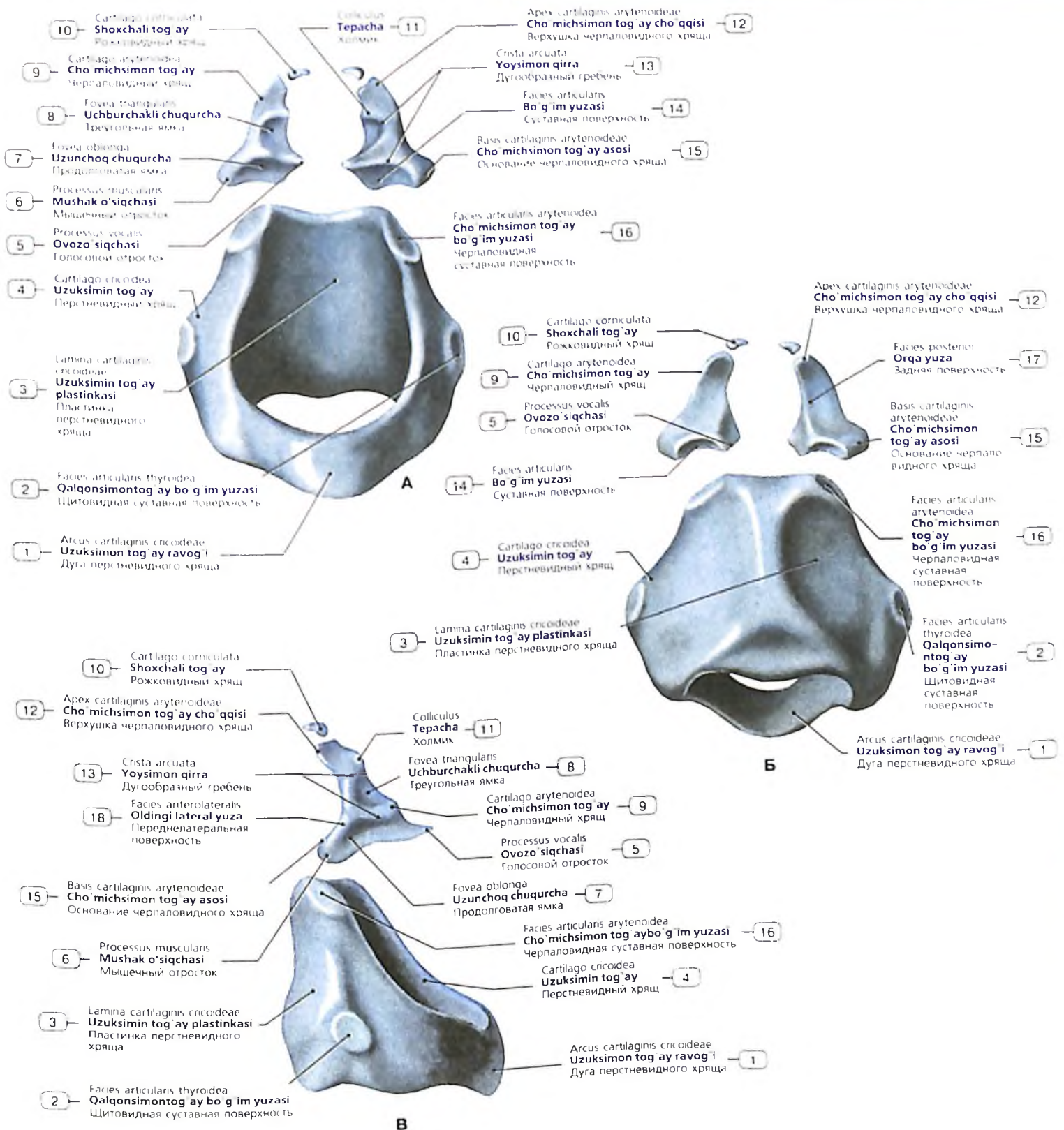


Rasm № 114. Hiqildoq usti sohasi (A – orqa tomondan ko'rinishi; B – old tomondan ko'rinishi; V – yon tomondan ko'rinishi).
Рисунок № 114. Надгортанник (А – вид сзади; Б – вид спереди; В – вид сбоку).



Rasm № 115. Qalqonsimon tog'ay (A – old tomondan ko'rinishi; B – orqa tomondan ko'rinishi; V – yon tomondan ko'rinishi).
Рисунок № 115. Щитовидный хрящ (А – вид спереди; Б – вид сзади; В – вид сбоку).

- | | | | |
|------------------------------|---------------------------|------------------------------|-------------------------------|
| 1. Inferior thyroid notch | 4. Right lamina | 7. Superior horn | 10. Thyroid articular surface |
| 2. Inferior horn | 5. Laryngeal prominence | 8. Superior thyroid tubercle | 11. Oblique line |
| 3. Inferior thyroid tubercle | 6. Superior thyroid notch | 9. Left lamina | |



Rasm № 116. Cho'michsimon, uzuksimon va qalqonsimon tog'ay (A – orqa tomondan ko'rinishi; B – old tomondan ko'rinishi; B – yon tomondan ko'rinishi).

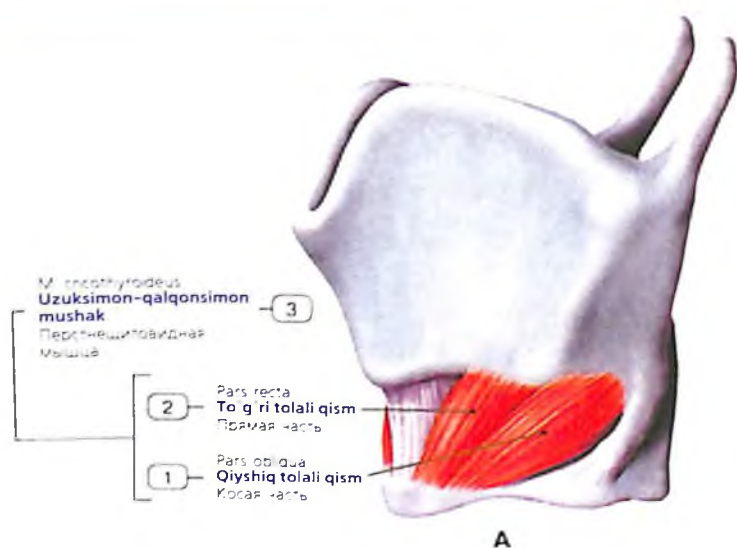
Рисунок № 116. Черпаловидный, перстневидный и щитовидный хрящи (A – вид сзади; B – вид спереди; B – вид сбоку).

- 1 Arch of cricoid cartilage
- 2 Thyroid articular surface
- 3 Lamina of cricoid cartilage
- 4 Cricoid cartilage
- 5 Vocal process

- 6 Muscular process
- 7 Oblong fovea
- 8 Triangular fovea
- 9 Arytenoid cartilage
- 10 Corniculate cartilage

- 11 Colliculus
- 12 Apex of arytenoid cartilage
- 13 Arcuate crest
- 14 Articular surface
- 15 Base of arytenoid cartilage

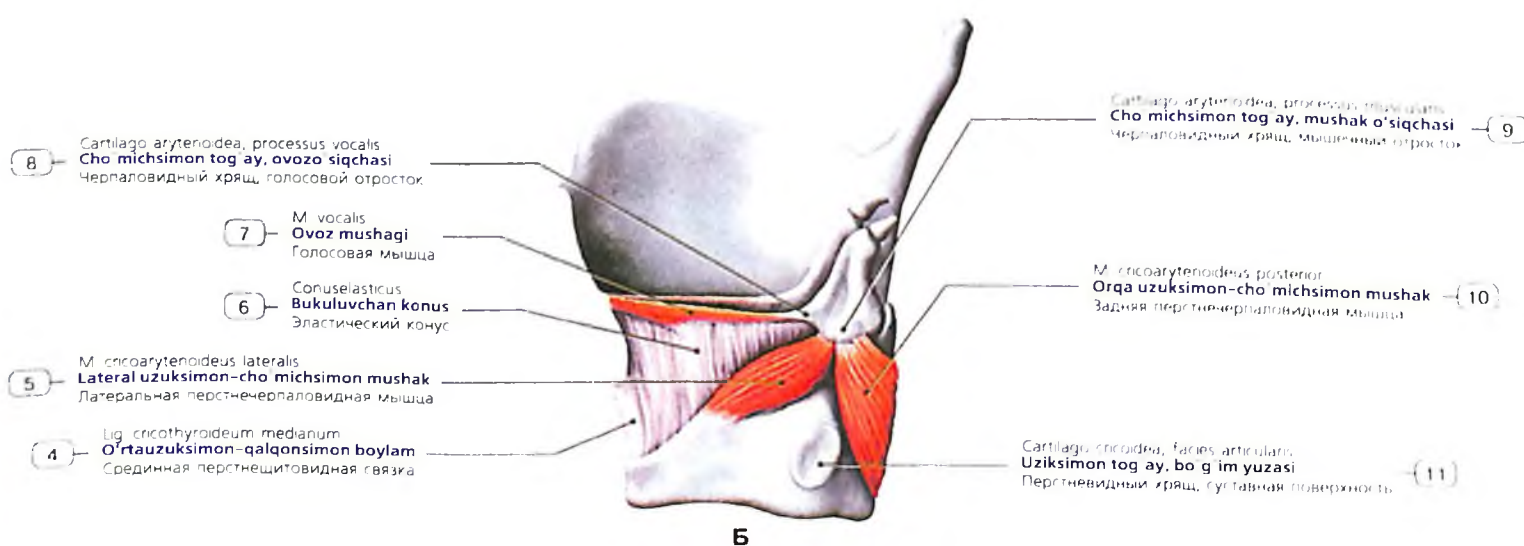
- 16 Arytenoid articular surface
- 17 Posterior surface
- 18 Anterolateral surface



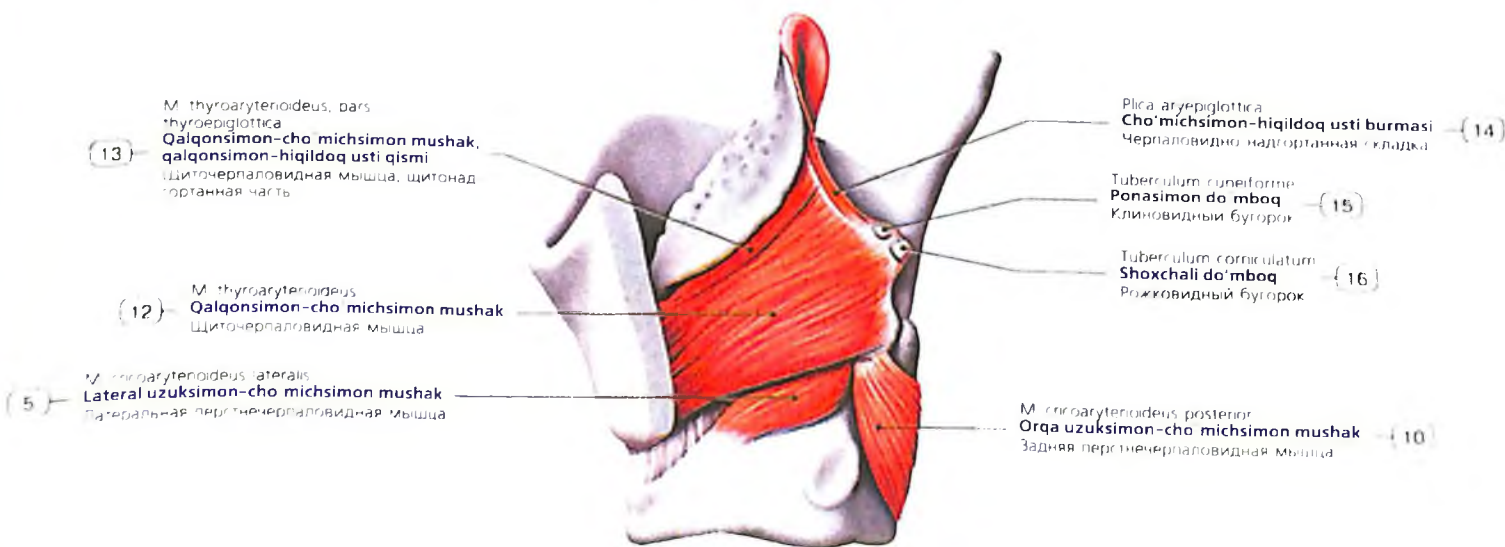
Rasm № 117. Hiqildoq mushaklari (A – uzuksimon-qalqonsimon mushak, yon tomondan ko'rinishi; B – hiqildoq mushaklarining ichki tomondan ko'rinishi; qalqonsimon tog'ayning chap yarmi olib tashlangan; B – hiqildoq mushaklarining ichki tomondan ko'rinishi, qalqonsimon tog'ayning chap yarmi hiqildoq usti tog'ayi va qalqonsimon-cho'michsimon mushak ko'rinishi uchun to'liq olib tashlangan).

Рисунок № 117. Мышцы гортани (А – перстнещитовидная мышца, вид сбоку; Б – мышцы гортани, вид изнутри, левая половина щитовидного хряща удалена; В – мышцы гортани, вид изнутри, левая половина щитовидного хряща почти полностью удалена для демонстрации надгортанника и наружной части щиточерпаловидной мышцы).

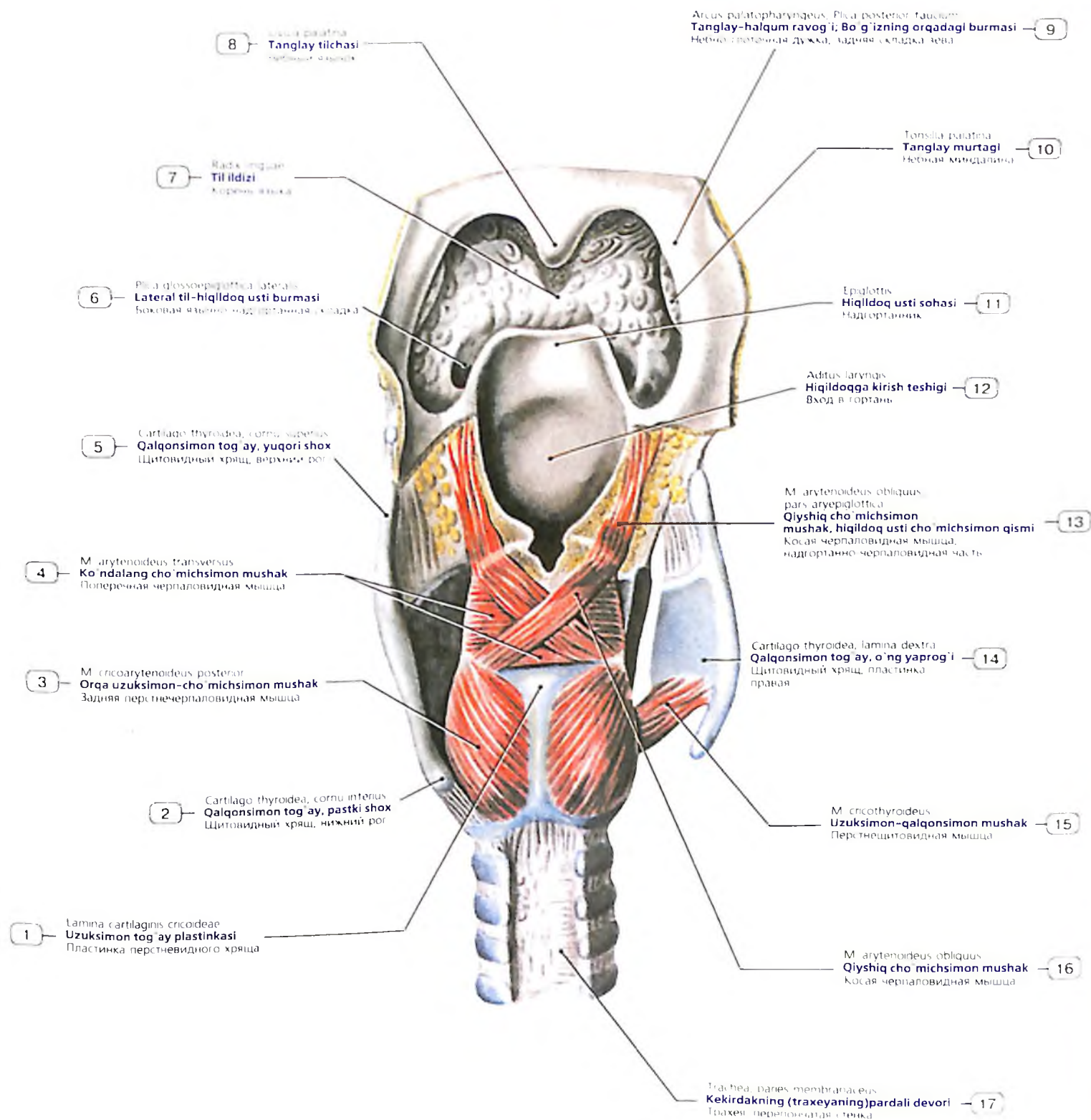
- | | |
|--|---|
| 1 Oblique part | 9 Arytenoid cartilage, muscular process |
| 2 Straight part | 10 Posterior cricoarytenoid |
| 3 = 1+2 – Cricothyroid | 11 Cricoid cartilage articular surface |
| 4 Median cricothyroid ligament | 12 Thyroarytenoid |
| 5 Lateral cricoarytenoid | 13 Thyroarytenoid, thyroepiglottic part |
| 6 Conus elasticus, Cricovocal membrane | 14 Aryepiglottic fold |
| 7 Vocalis | 15 Cuneiform tubercle |
| 8 Arytenoid cartilage, vocal process | 16 Corniculate tubercle |



Б

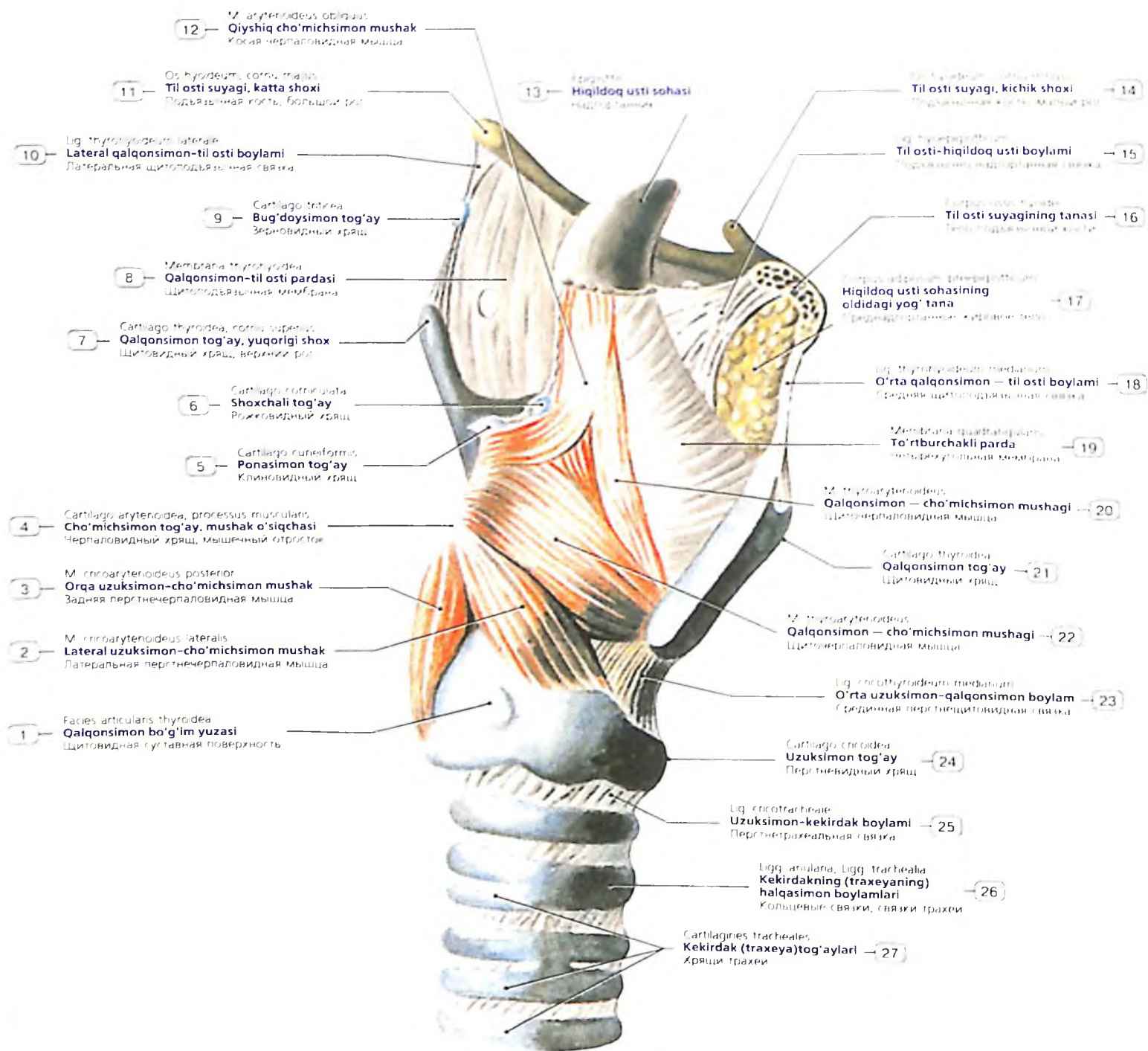


В



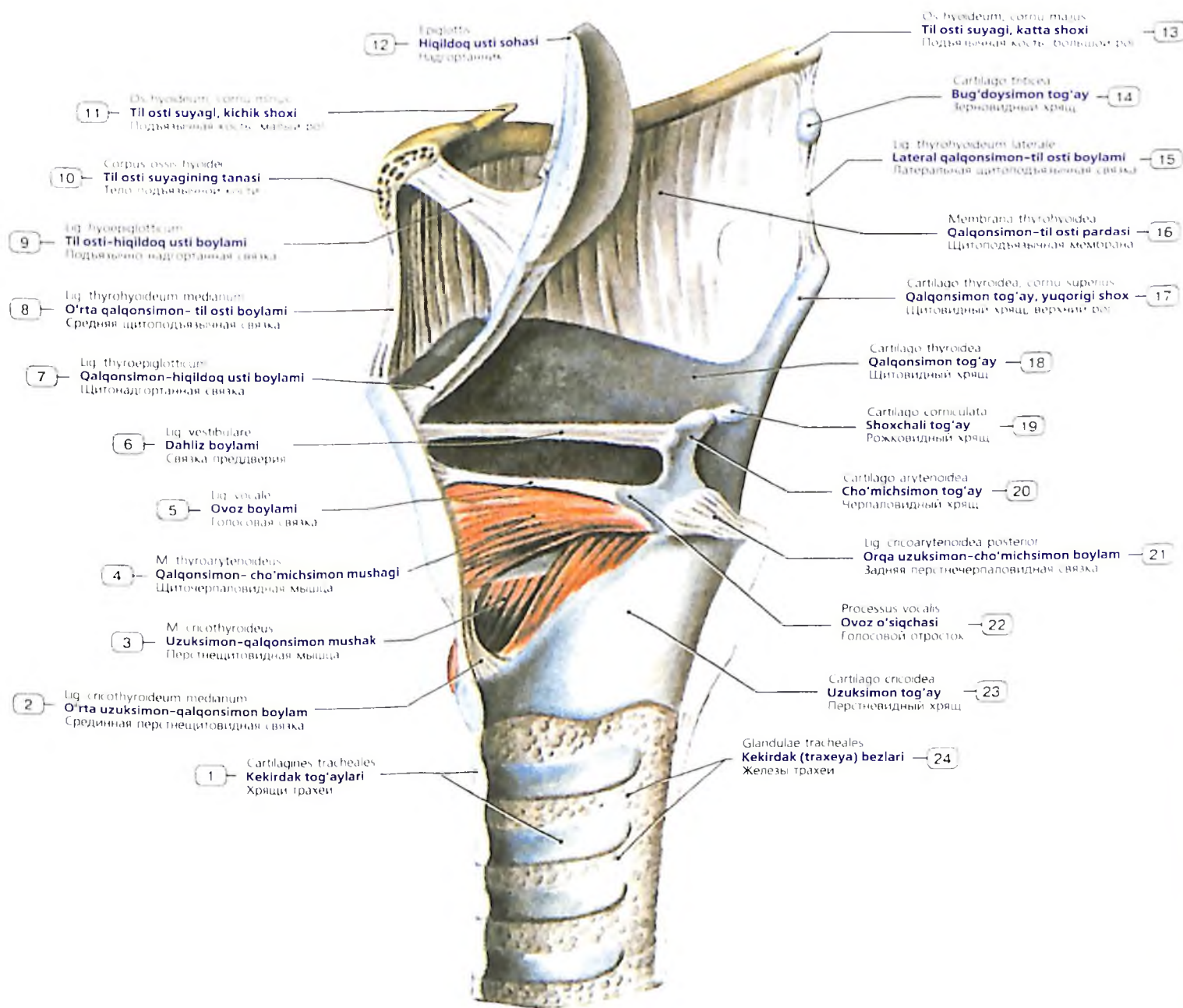
Rasm № 118. Hiqldoq mushaklarining orqa tomondan ko'rinishi.
Рисунок № 118. Мышцы гортани, вид сзади.

- | | | | |
|------------------------------------|---|---|-----------------------------|
| 1 Lamina of cricoid cartilage | horn | 10 Palatine tonsil | lamina |
| 2 Thyroid cartilage, inferior horn | 6 Lateral glosso epiglottic fold | 11 Epiglottis | 15 Cricothyroid |
| 3 Posterior crico arytenoid | 7 Root of tongue | 12 Laryngeal inlet | 16 Oblique arytenoid |
| 4 Transverse arytenoid | 8 Uvula | 13 Oblique arytenoid, ary epiglottic part | 17 Trachea, membranous wall |
| 5 Thyroid cartilage, superior | 9 Palatopharyngeal arch, Posterior pillar of fauces | 14 Thyroid cartilage, right | |



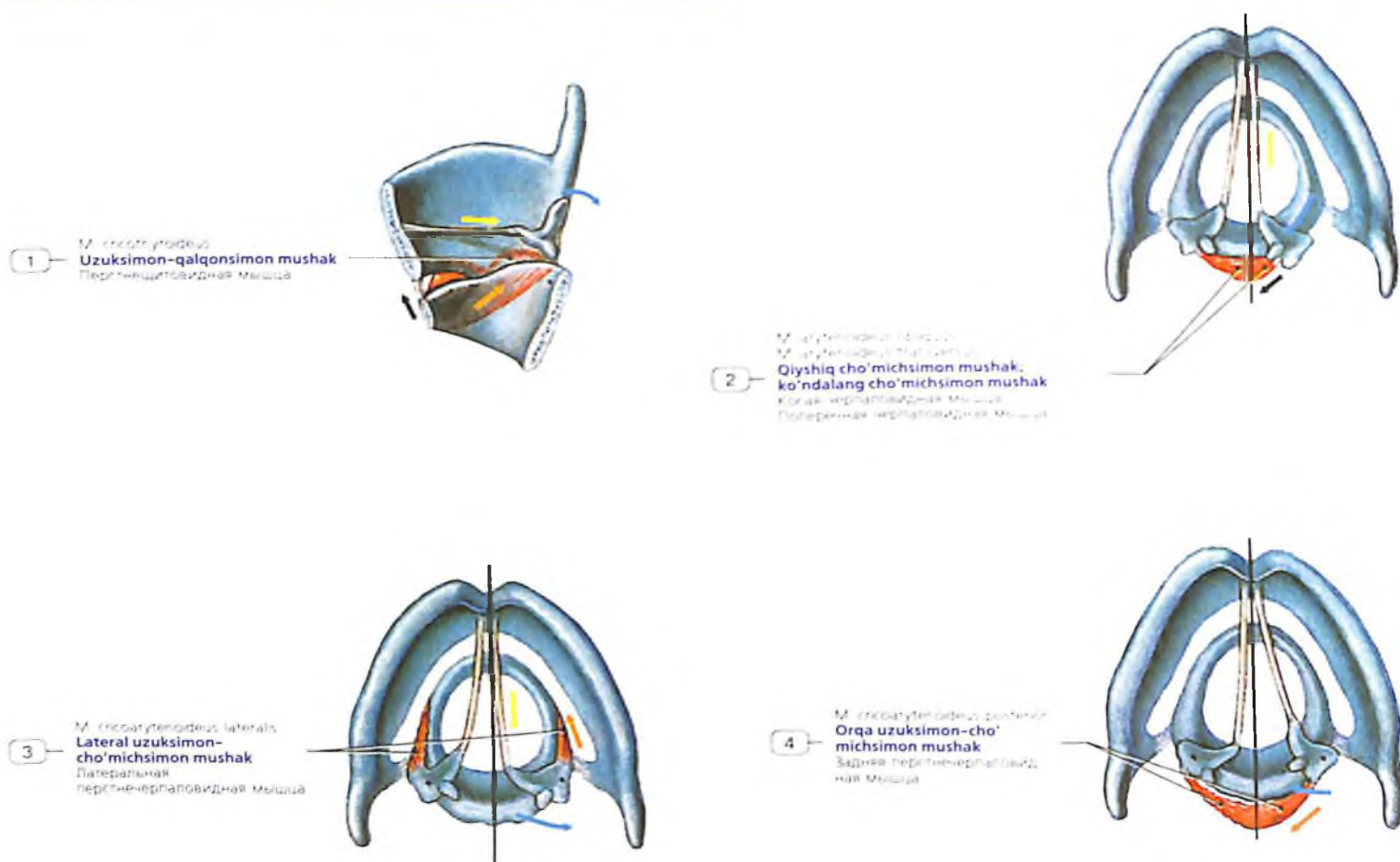
Rasm № 119. Hiqildoq mushaklari, yon tomondan ko'rinishi.
Рисунок № 119. Мышцы гортани, вид сбоку.

- | | | | |
|-----------------------------|------------------------------------|-----------------------------|---------------------------------|
| 1 Thyroid articular surface | 6 Corniculate cartilage | 11 Hyoid bone, greater horn | 17 Pre epiglottic fat body |
| 2 Lateral cricothyroid | 7 Thyroid cartilage, superior horn | 12 Oblique arytenoid | 18 Median thyrohyoid ligament |
| 3 Posterior cricothyroid | 8 Thyrohyoid membrane | 13 Epiglottis | 19 Quadrangular membrane |
| 4 Arytenoid cartilage | 9 Cricoid cartilage | 14 Hyoid bone, lesser horn | 20 Thyroarytenoid |
| 5 Cricoid process | 10 Lateral thyrohyoid ligament | 15 Hyoepiglottic ligament | 21 Thyroid cartilage |
| | | 16 Body of hyoid bone | 22 Thyroarytenoid |
| | | | 23 Median cricothyroid ligament |
| | | | 24 Cricoid cartilage |
| | | | 25 Cricotracheal ligament |
| | | | 26 Annular ligaments |
| | | | 27 Tracheal cartilages |



Rasm № 120. Hiqildoq mushaklari, ichkaridan ko'rinishi, hiqildoqning sagittal kesimi.
Рисунок № 120. Мышцы гортани, вид изнутри, сагиттальный разрез гортани.

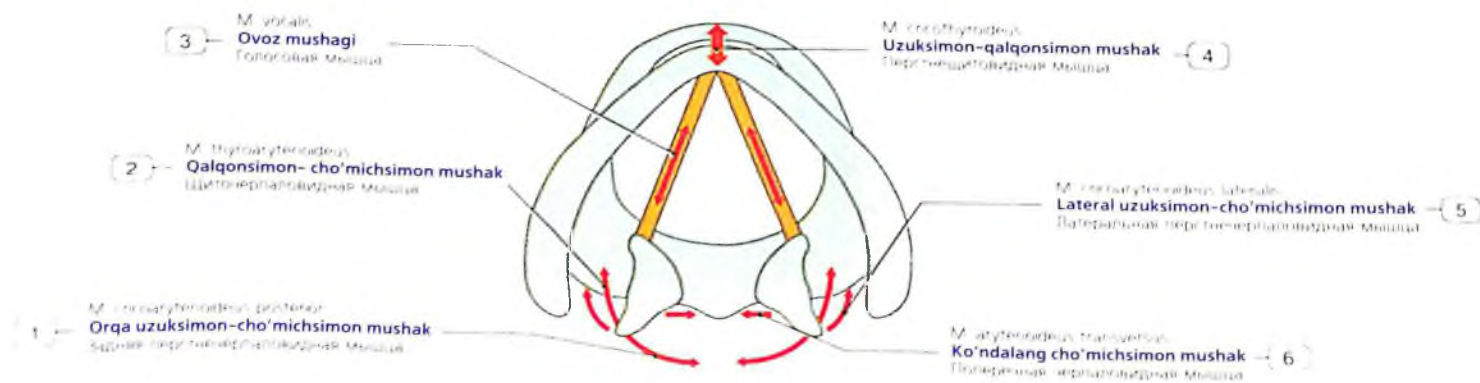
- | | | | |
|--------------------------------|------------------------------|---------------------------------------|----------------------|
| 1 Tracheal cartilages | 6 Vestibular ligament | 12 Epiglottis | 22 Vocal process |
| 2 Median cricothyroid ligament | 7 Thyro epiglottic ligament | 13 Hyoid bone, greater horn | 23 Cricoid cartilage |
| 3 Cricothyroid | 8 Median thyrohyoid ligament | 14 Triticeal cartilage | 24 Tracheal glands |
| 4 Thyro arytenoid | 9 Hyo epiglottic ligament | 15 Lateral thyrohyoid ligament | |
| 5 Vocal ligament | 10 Body of hyoid bone | 16 Thyrohyoid membrane | |
| | 11 Hyoid bone, lesser horn | 17 Thyroid cartilage, superior horn | |
| | | 18 Thyroid cartilage | |
| | | 19 Corniculate cartilage | |
| | | 20 Arytenoid cartilage | |
| | | 21 Posterior crico arytenoid ligament | |



Rasm № 121. Hiqildoq mushaklarining vazifasi (chizma).

Рисунок № 121. Функция мышц гортани (схема).

- | | | |
|----------------------|--------------------------|----------------------------|
| 1 Cricothyroid | Transverse arytenoid | 4 Posterior cricoarytenoid |
| 2 Oblique arytenoid, | 3 Lateral cricoarytenoid | |



Rasm № 122. Hiqildoq mushaklarining vazifasi (chizma).

Рисунок № 122. Функция мышц гортани (схема).

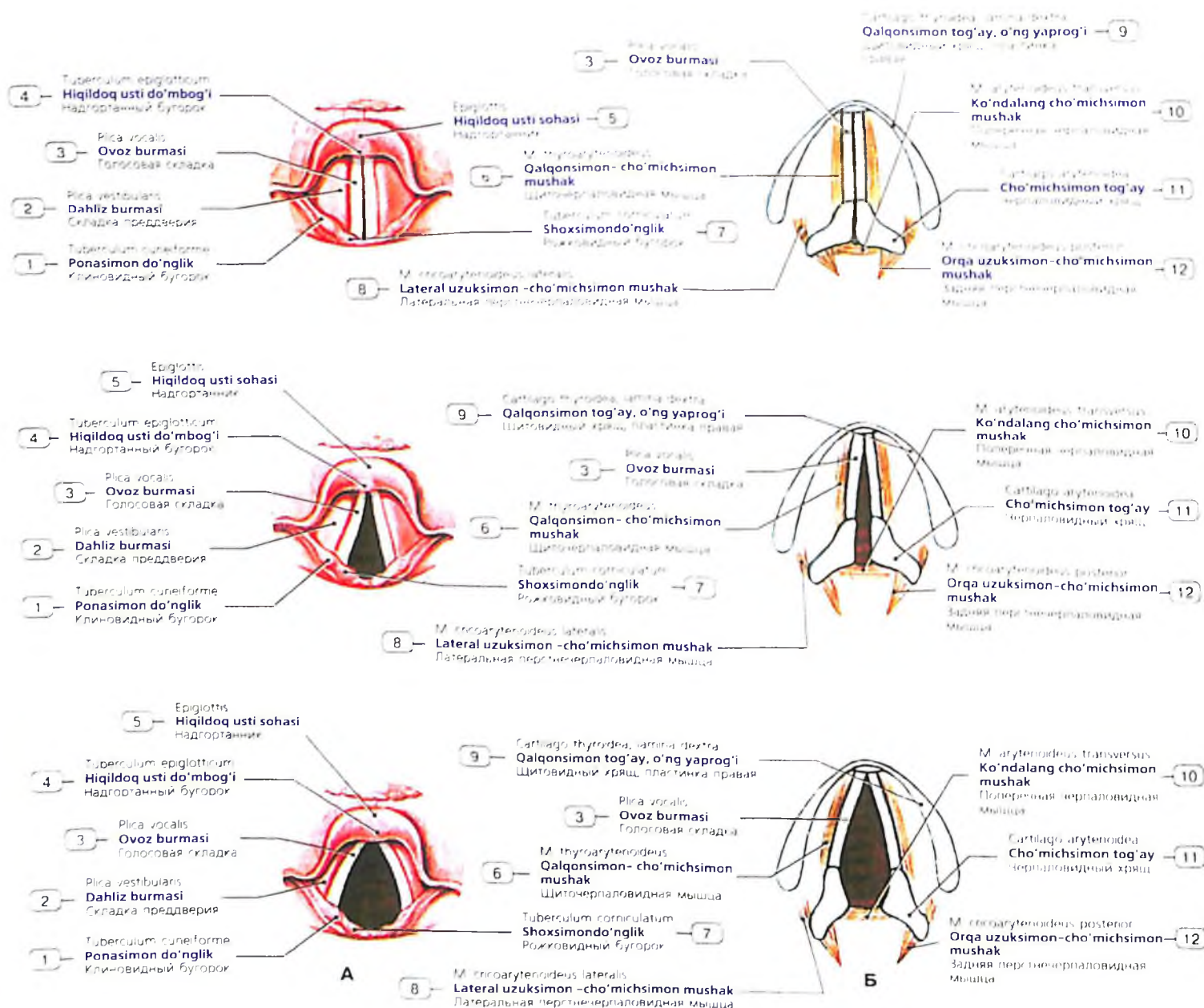
- | | | |
|----------------------------|----------------|--------------------------|
| 1 Posterior cricoarytenoid | 4 Vocalis | 5 Lateral cricoarytenoid |
| 2 Transverse arytenoid | 3 Cricothyroid | 6 Transverse arytenoid |

11-jadval. Hiqildoq bo'g'imlari

Nomlanishi	Bo'g'im yuzasi	Harakat o'qi	Vazifasi
Uzuksimon-qalqonsimon bo'g'im, juft	Qalqonsimon tog'ayning pastki shoxi, uzuksimon tog'ayning bo'g'im yuzasi	Bir o'qli (frontal o'q)	Qalqonsimon tog'ayni oldinga egadi (qalqonsimon tog'ay va cho'michsimon tog'ay o'rtasidagi burchakni kattalashtiradi) va avvalgi holatiga qaytadi
Uzuksimon-cho'michsimon bo'g'im	Cho'michsimon tog'ayning botiqli bo'g'im yuzasi, uzuksimon tog'ayning bo'rtli bo'g'im yuzasi	Bir o'qli (vertikal o'q)	Cho'michsimon tog'ayni ichkariga buradi - ovoz o'simtasini ovoz boylami bilan yaqinlashtiradi, ovoz yorig'ini kichraytiradi Tashqariga bolsa ovoz o'simtalari bir biridan uzoqlashadi (ovoz yorig'ini kengaytiradi)

12-jadval. Hiqildoq mushaklari

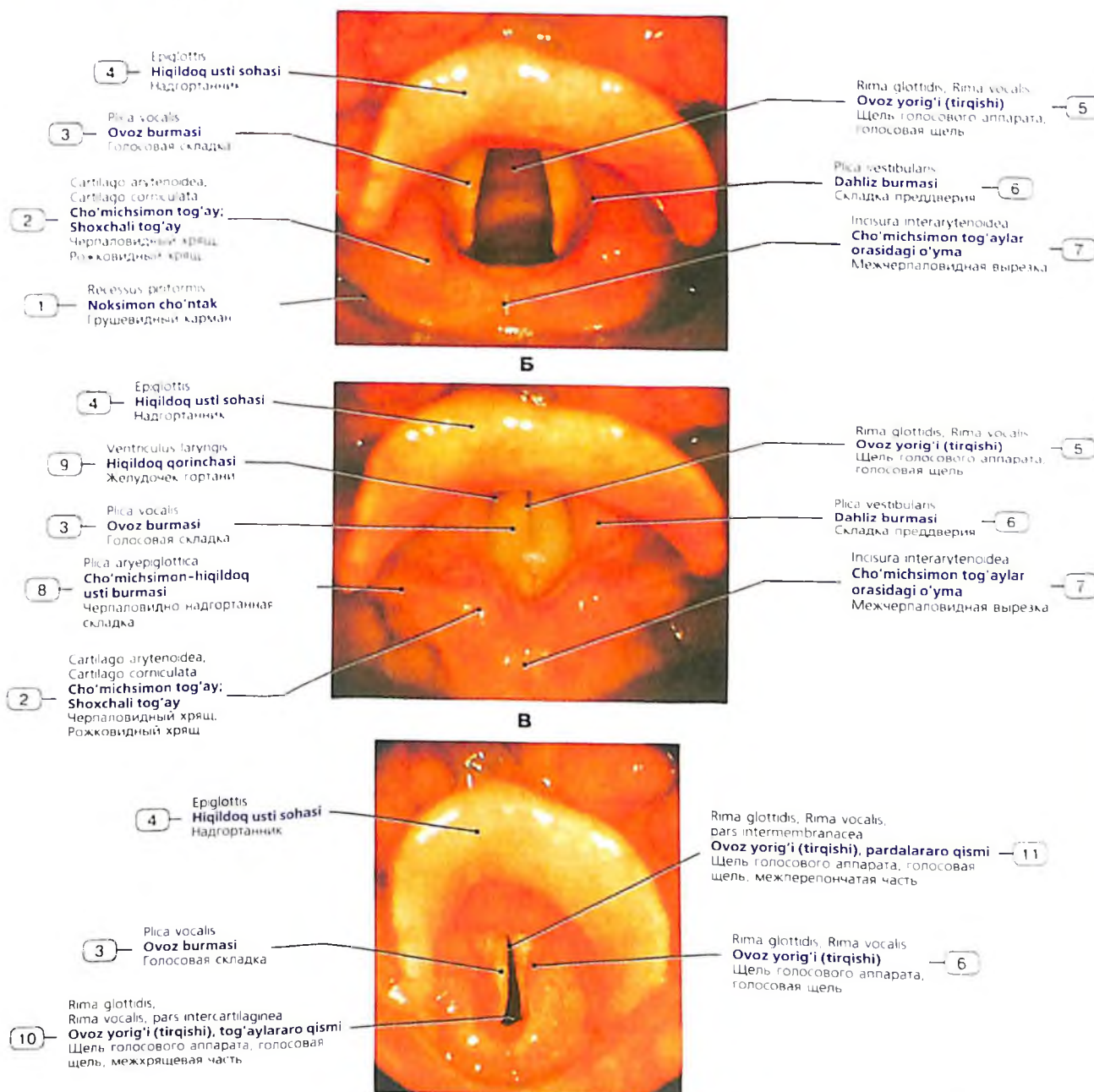
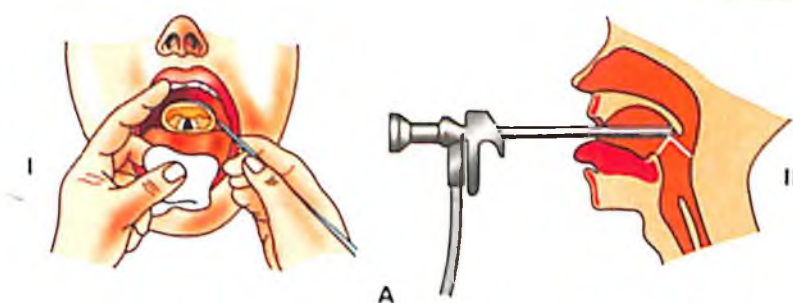
Nomlanishi	Boshlanishi	Birikishi	Vazifasi	Innervatsiyasi
Ovoz boylamini taranglashtiruvchi mushaklar				
Uzuksimon-qalqonsimon mushak	Uzuksimon tog'ayning oldingi yuzasidan	Qalqonsimon tog'ayning pastki plastinkasi, qirrası va pastki shoxiga	Qalqonsimon tog'ayni oldinga tortadi (uni taranglashtiradi)	Yuqori hiqildoq nervi (10-juft bosh miya nervining shoxi)
Ovoz mushagi	Qalqonsimon tog'ayning burchagi va uzuksimon tog'ayning ovoz o'simtasidan	Ovoz boylamiga	Ovoz boylamini oldinga va orqaga tortadi	Pastki hiqildoq nervi (10-juft bosh miya nervining shoxi)
Ovoz yorig'ini kengaytiruvchi mushaklar				
Orqa uzuk-cho'michsimon mushagi	Uzuksimon tog'ay plastinkasi orqa yuzasi	Cho'michsimon tog'ayning mushak o'simtasi	Cho'michsimon tog'ayning mushak o'simtasini orqaga tortadi, ovoz boylamini lateral tomonga buradi	Pastki hiqildoq nervi (10-juft bosh miya nervining shoxi)
Ovoz yorig'ini toraytiruvchi mushaklar				
Lateral uzuk-cho'michsimon mushak	Uzuksimon tog'ay ravog'i yuqori qirrası	Cho'michsimon tog'ayning mushak o'simtasiga	Cho'michsimon tog'ayning mushak o'simtasini oldinga tortadi, ovoz o'simtasini medial tomonga buradi	Pastki hiqildoq nervi (10-juft bosh miya nervining shoxi)
Ko'ndalang cho'michsimon mushak, toq	Cho'michsimon tog'ayning orqasida yotadi va uning lateral qanotlariga birikadi		O'ng va chap cho'michsimon tog'aylarni bir-biriga yaqinlashtiradi	Pastki hiqildoq nervi (10-juft bosh miya nervining shoxi)
Qiyshiq cho'michsimon mushak	Cho'michsimon tog'ayning mushak o'simtasidan	Qarama-qarshidagi cho'michsimon tog'ayning cho'qqisiga	O'ng va chap cho'michsimon tog'aylarni bir-biriga yaqinlashtiradi	Pastki hiqildoq nervi (10-juft bosh miya nervining shoxi)
Cho'michsimon-hiqildoq usti mushagi	Oldingi mushakning davomi hisoblanib, cho'michsimon-hiqildoq usti burmasi orqali o'tadi	Hiqildoq usti tog'ay qirrasiga	Hiqildoq usti tog'ayni orqaga tortadi va hiqildoqqa kirishni yopadi	Pastki hiqildoq nervi (10-juft bosh miya nervining shoxi)



Rasm № 123. Hiqildoqning turli funksional holatlarida ovoz boylamlarining joylashuvi, yuqoridan ko'rinishi [A – laringoskopiya ko'rinishi; B – ovoz burmalari boylamlari, ovoz yorig'i va cho'michsimon tog'ayning o'zaro joylashuvi] (chizma).

Рисунок № 123. Положение голосовых связок гортани при различных ее функциональных состояниях, вид сверху [A – ларингоскопическая картина; B – взаиморасположение голосовых складок (связок), голосовой щели и черпаловидных хрящей] (схема).

- | | | | |
|-------------------------|-------------------------|------------------------------|-------------------------------|
| 1 - Epiglottis tubercle | 4 - Epiglottis tubercle | 7 - Corniculate tubercle | 10 - Transverse arytenoid |
| 2 - Vestibular fold | 5 - Epiglottis | 8 - Lateral cricoarytenoid | 11 - Arytenoid cartilage |
| 3 - Vocal fold | 6 - Thyroarytenoid | 9 - Thyroid cartilage, right | 12 - Posterior cricoarytenoid |

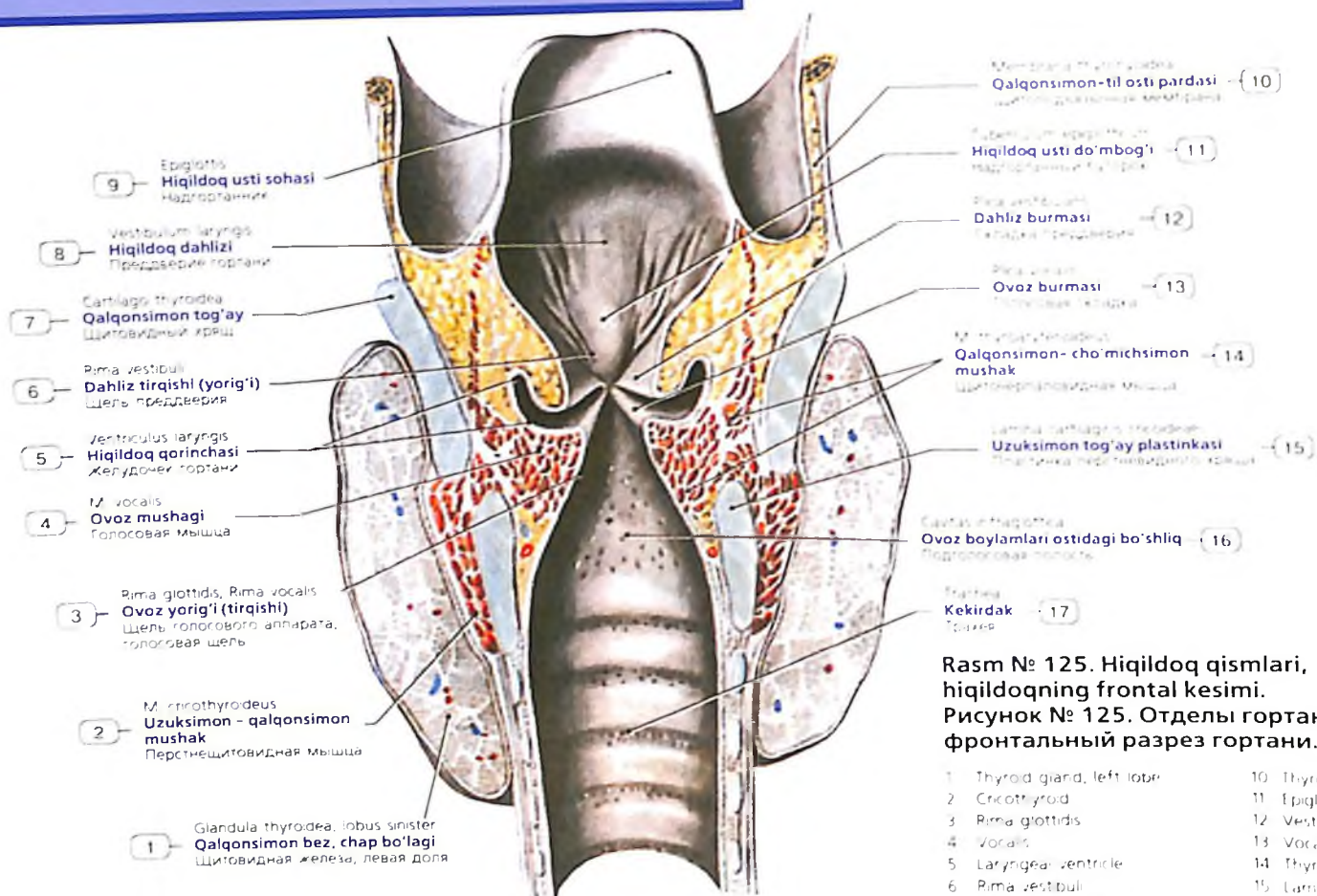


Rasm № 124. Ovoz yorig'i (A – laringoskopiya bajarish texnikasi: A I – bilvosita laringoskopiya; A II – to'g'ridan-to'g'ri endoskopik laringoskopiya; B – ovoz yorig'i ochilgan; B – ovoz boylamlari yopilgan; Г – ovoz boylamlari yuza (to'liq bo'lmagan) yopilgan).

Рисунок № 124. Голосовая щель (A – техника ларингоскопии: A I – непрямая ларингоскопия; A II – прямая эндоскопическая ларингоскопия; Б – голосовая щель открыта; В – голосовые связки сомкнуты; Г – голосовые связки слегка разомкнуты).

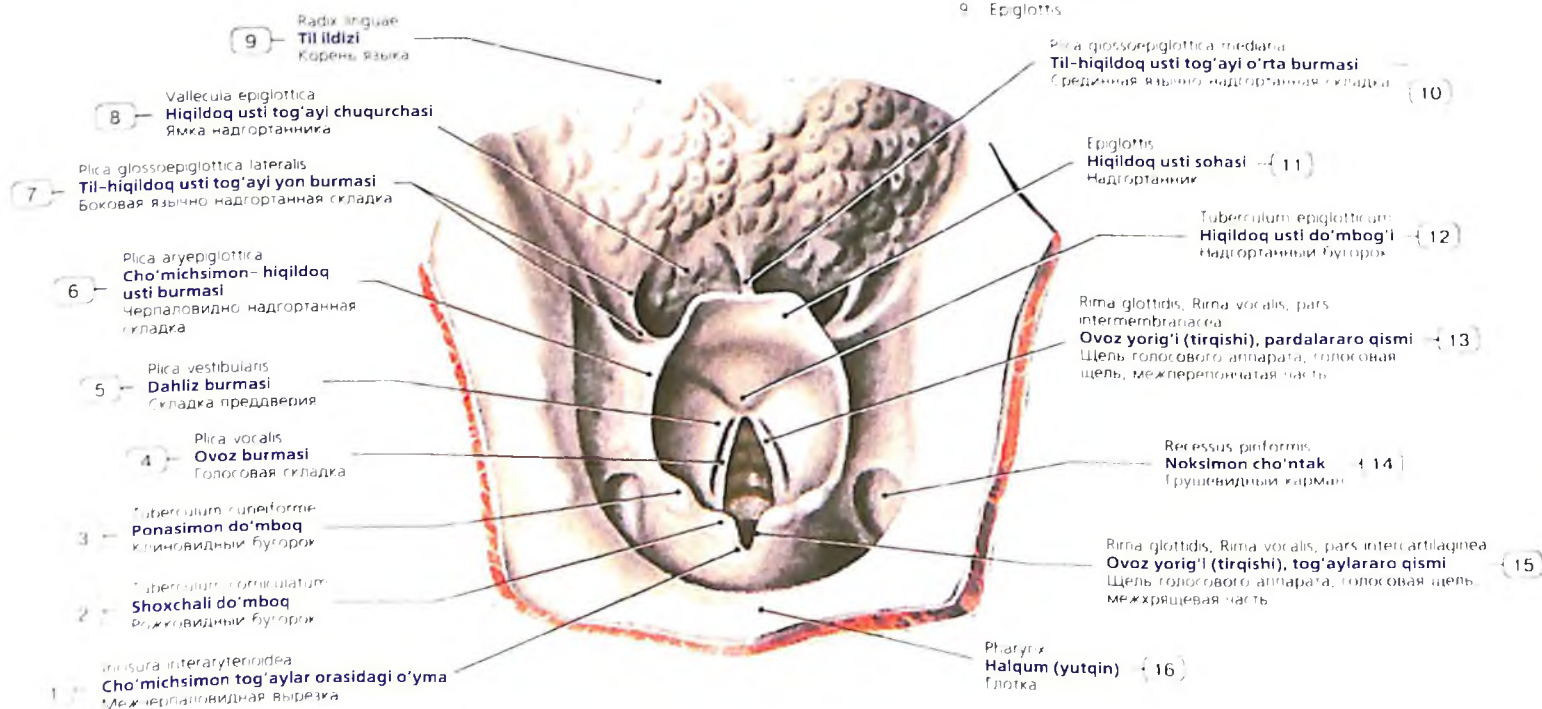
- | | | | |
|---|-------------------|------------------------|--|
| 1 Piriform fossa,
Piriform recess | 3 Vocal fold | 7 Interarytenoid notch | intercartilaginous part |
| 2 Arytenoid cartilage,
Corniculate cartilage | 4 Epiglottis | 8 Ary epiglottic fold | 11 Rima glottidis,
intermembranous part |
| | 5 Rima glottidis | 9 Laryngeal ventricle | |
| | 6 Vestibular fold | 10 Rima glottidis, | |

ДЫХАТЕЛЬНАЯ СИСТЕМА



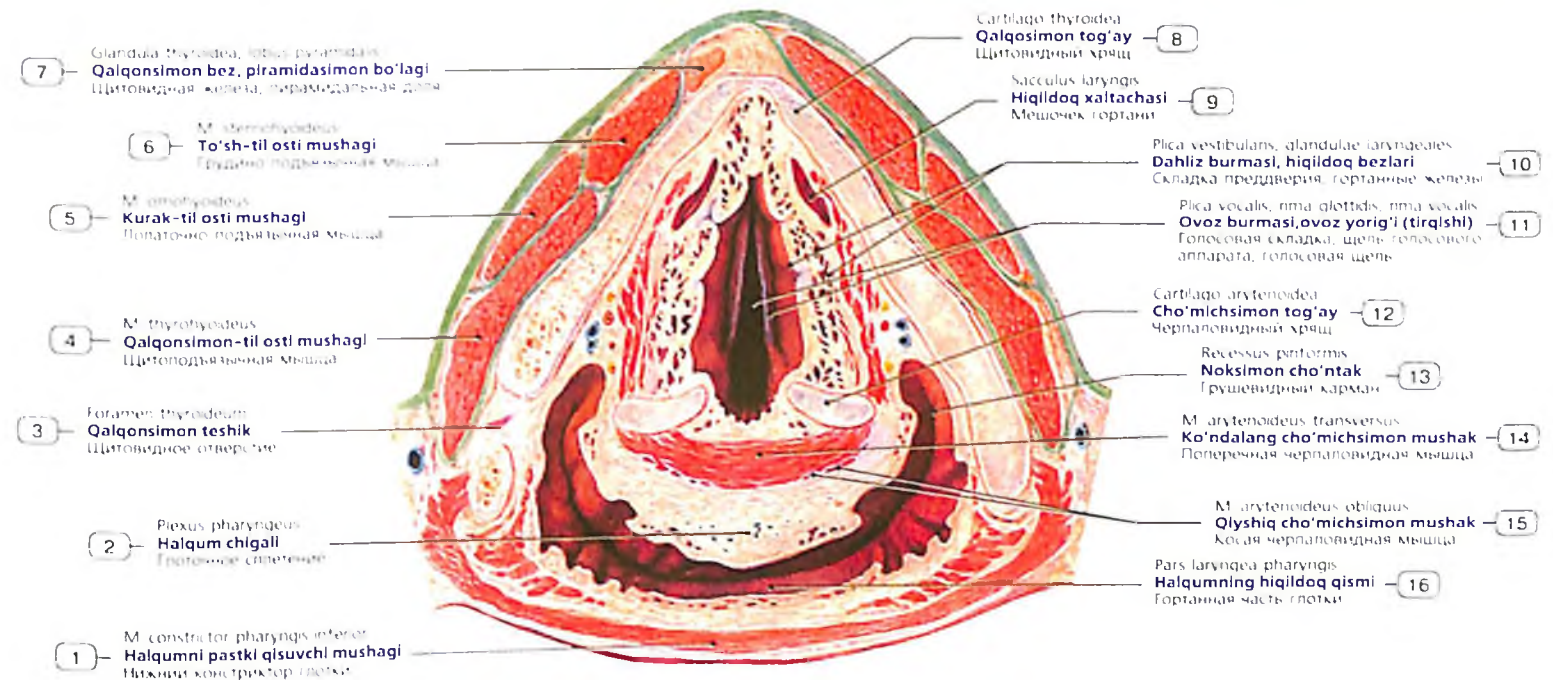
Rasm № 125. Hiqildoq qismlari, hiqildoqning frontal kesimi.
Рисунок № 125. Отделы гортани, фронтальный разрез гортани.

- | | |
|-----------------------------|---------------------------------|
| 1. Thyroid gland, left lobe | 10. Thyrohyoid membrane |
| 2. Cricothyroid | 11. Epiglottic tubercle |
| 3. Rima glottidis | 12. Vestibular fold |
| 4. Vocalis | 13. Vocal fold |
| 5. Laryngeal ventricle | 14. Thyroarytenoid |
| 6. Rima vestibuli | 15. Lamina of cricoid cartilage |
| 7. Thyroid cartilage | 16. Infraglottic cavity |
| 8. Laryngeal vestibule | 17. Trachea |
| 9. Epiglottis | |

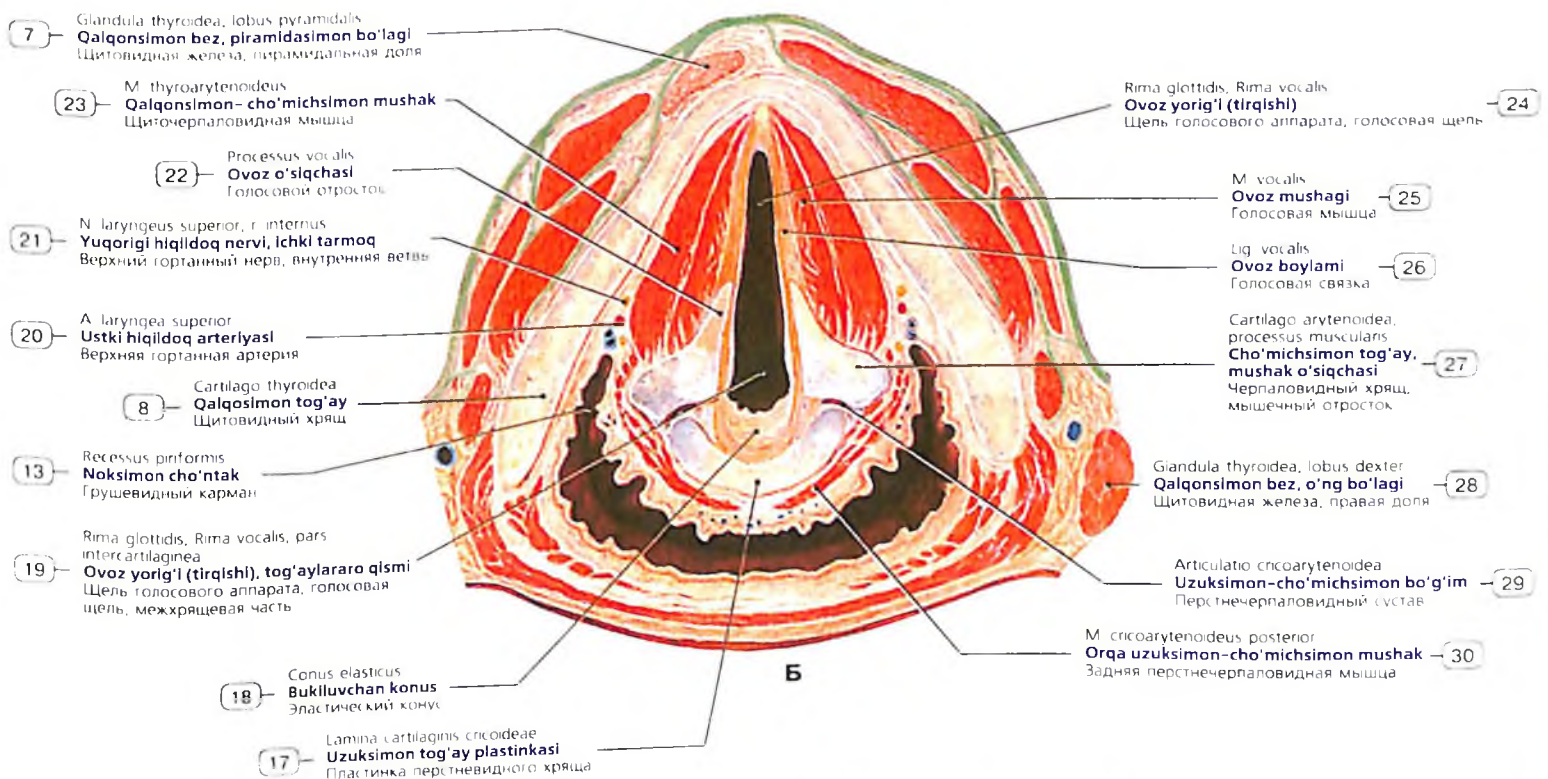


Rasm № 126. Hiqildoq dahlizi, yuqoridan ko'rinishi.
Рисунок № 126. Преддверие гортани, вид сверху.

- | | | | |
|-------------------------|----------------------------------|--|---|
| 1. Interarytenoid notch | 6. Ary epiglottic fold | 11. Epiglottis | 14. Piriform fossa, Piriform recess |
| 2. Corniculate tubercle | 7. Lateral glossoepiglottic fold | 12. Epiglottic tubercle | 15. Rima glottidis, intercartilaginous part |
| 3. Cuneiform tubercle | 8. Epiglottic vallecula | 13. Rima glottidis, intermembranous part | 16. Pharynx |
| 4. Vocal fold | 9. Root of tongue | | |
| 5. Vestibular fold | 10. Median glossoepiglottic | | |



A

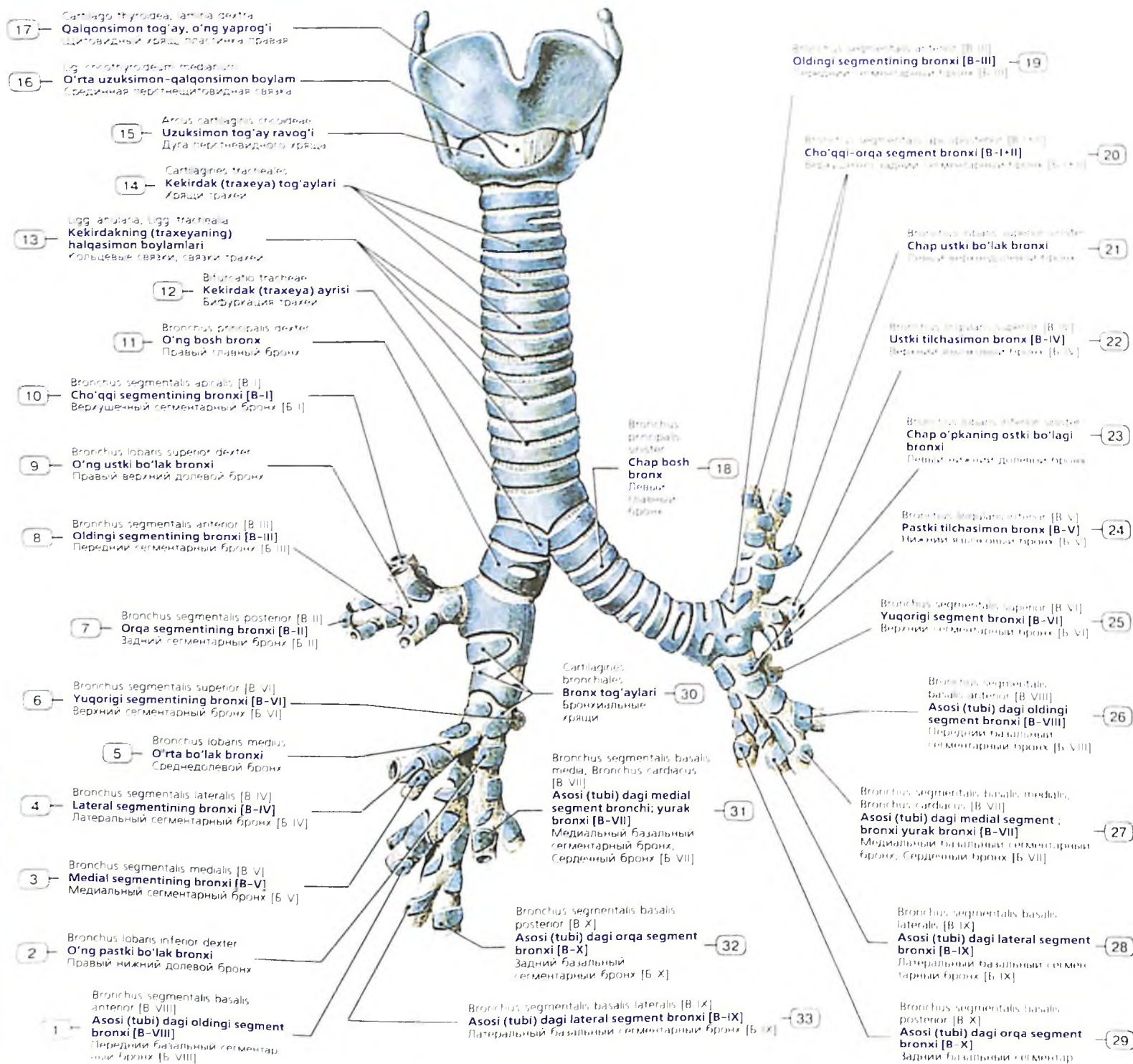


B

Rasm № 127. Hiqildoqning ko'ndalang kesimi (A – dahliz burmalari sohasida; B – ovoz burmalari sohasida) (tabiiy ho'l preparatlardan olingan rasmlar).

Рисунок № 127. Поперечный разрез гортани (А – на уровне складок преддверия; Б – на уровне голосовых складок) (фотографии натуральных препаратов).

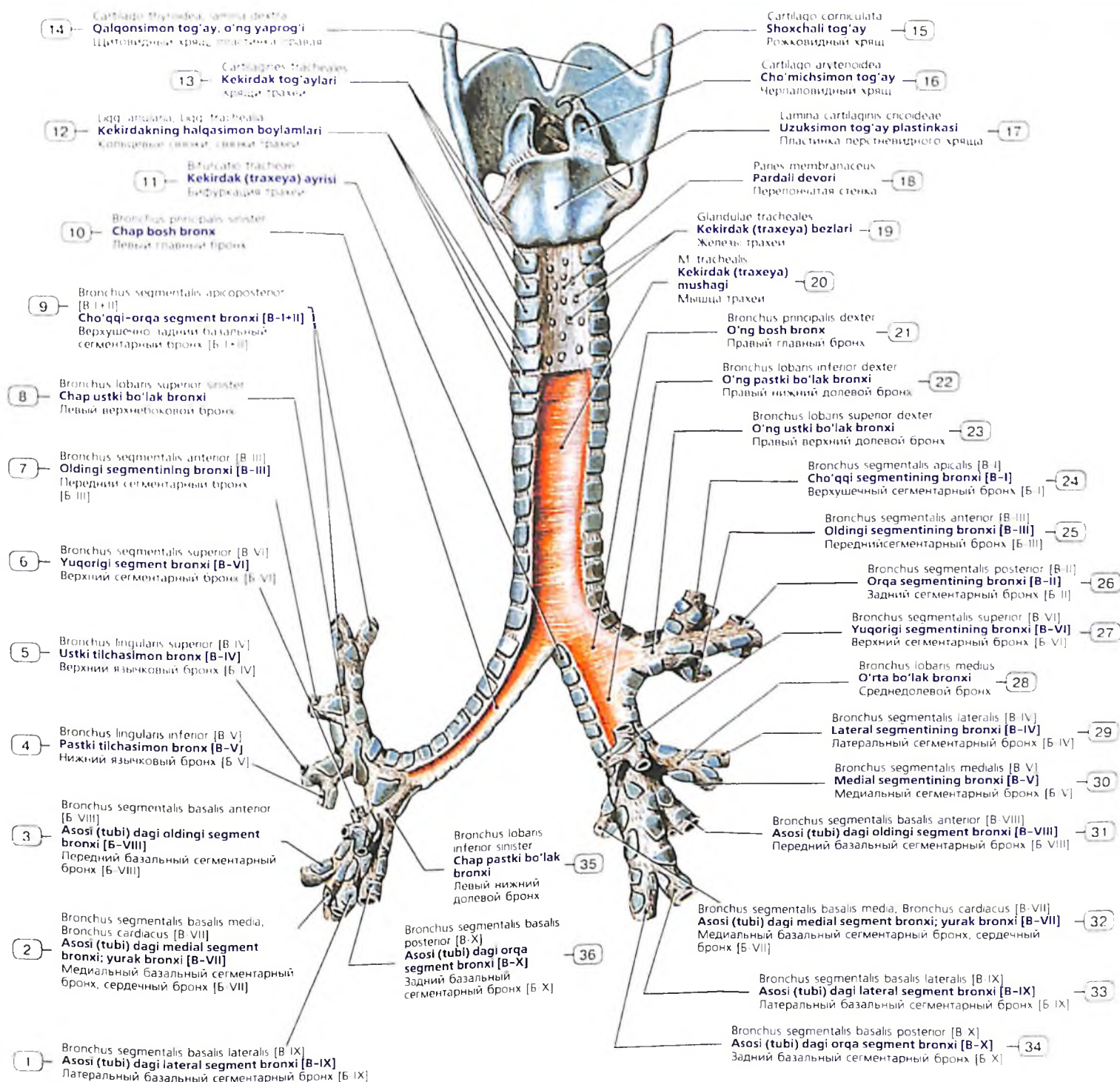
- | | | | |
|---------------------------------|--------------------------------------|--|--|
| 1 Inferior constrictor | 9 Laryngeal saccule | 16 Laryngopharynx, Hypopharynx | 21 Superior laryngeal nerve, internal branch |
| 2 Pharyngeal plexus | 10 Vestibular fold, laryngeal glands | 17 Lamina of cricoid cartilage | 22 Vocal process |
| 3 Thyroid foramen | 11 Vocal fold, rima glottidis | 18 Conus elasticus, Cricovocal membrane | 23 Thyro arytenoid |
| 4 Thyrohyoid | 12 Arytenoid cartilage | 19 Rima glottidis, intercartilaginous part | 24 Rima glottidis |
| 5 Omohyoid | 13 Piriform fossa, Piriform recess | 20 Superior laryngeal artery | 25 Vocalis |
| 6 Sternohyoid | 14 Transverse arytenoid | | 26 Vocal ligament |
| 7 Thyroid gland, pyramidal lobe | 15 Oblique arytenoid | | 27 Arytenoid cartilage, muscular process |
| 8 Thyroid cartilage | | | 28 Thyroid gland, right lobe |
| | | | 29 Crico arytenoid joint |
| | | | 30 Posterior crico arytenoid |



Rasm № 128. Kekirdak va bronxlar, oldindan ko'rinishi.

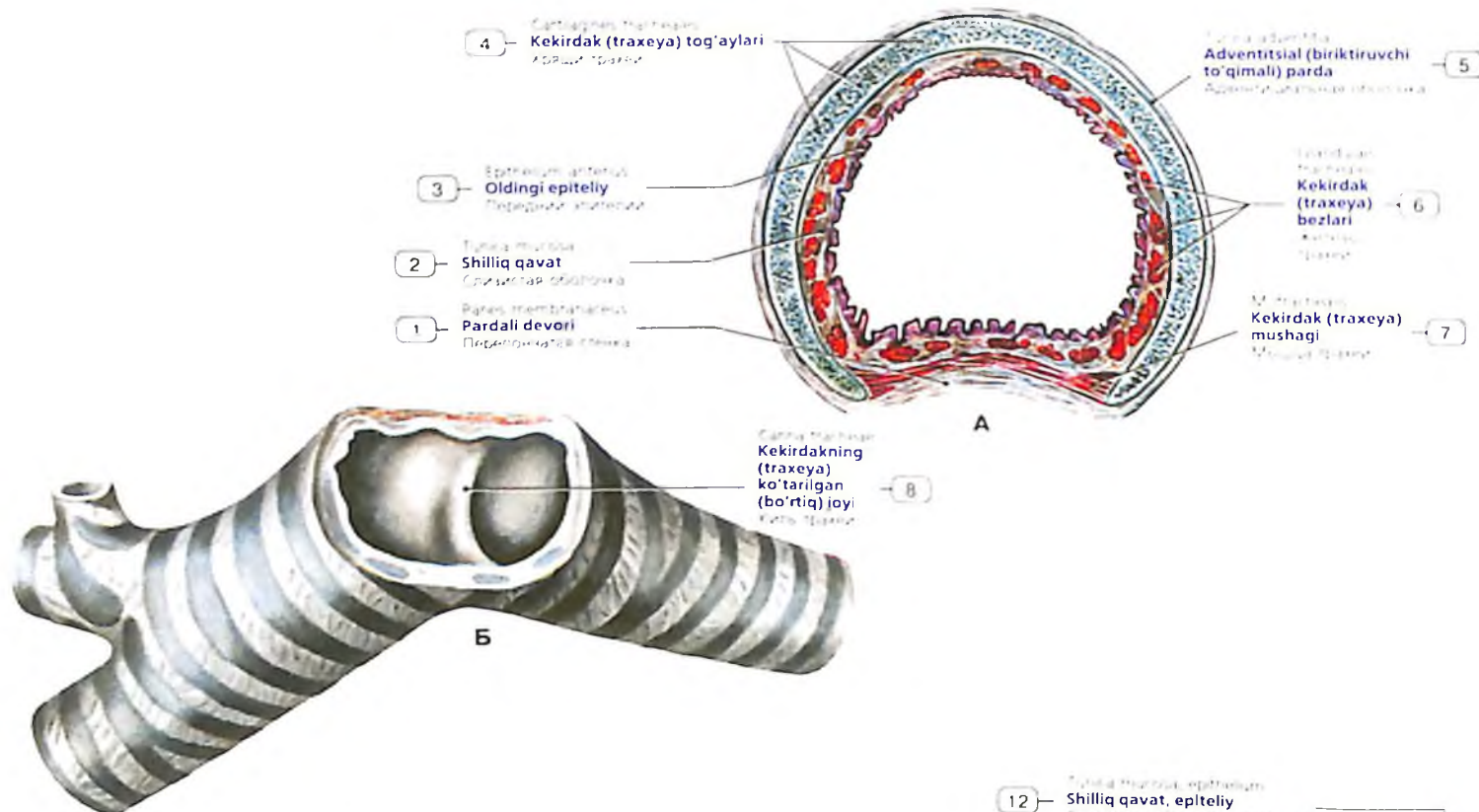
Рисунок № 128. Трахея и бронхи, вид спереди.

- | | | | | |
|--|---------------------------------------|--|---|---|
| 1 Anterior basal segmental bronchus [B-VIII] | 8 Anterior segmental bronchus [B-III] | 16 Median cricothyroid ligament | 25 Superior segmental bronchus [B-VI] | 31 Medialbasal segmental bronchus [B-VII] |
| 2 Right inferior lobar bronchus | 9 Right superior lobar bronchus | 17 Thyroid cartilage, right lamina | 26 Anterior basal segmental bronchus [B-VIII] | 32 Posterior basal segmental bronchus [B-X] |
| 3 Medial segmental bronchus [B-V] | 10 Apical segmental bronchus [B-I] | 18 Left main bronchus | 27 Medial basal segmental bronchus [B-VII] | 33 Lateral basal segmental bronchus [B-IX] |
| 4 Apical segmental bronchus [B-I] | 11 Right main bronchus | 19 Anterior segmental bronchus [B-III] | 28 Lateral basal segmental bronchus [B-IX] | |
| 5 Middle lobar bronchus | 12 Tracheal bifurcation | 20 Apicoposterior segmental bronchus [B-IV-II] | | |
| 6 Superior segmental bronchus [B-VI] | 13 Annular ligaments | 21 Superior lobar bronchus | | |
| 7 Inferior segmental bronchus [B-V] | 14 Tracheal cartilages | 22 Superior lingular bronchus [B-IV] | | |
| | 15 Arch of cricoid cartilage | 23 Left inferior lobar bronchus | | |
| | | 24 Inferior lingular bronchus [B-V] | | |



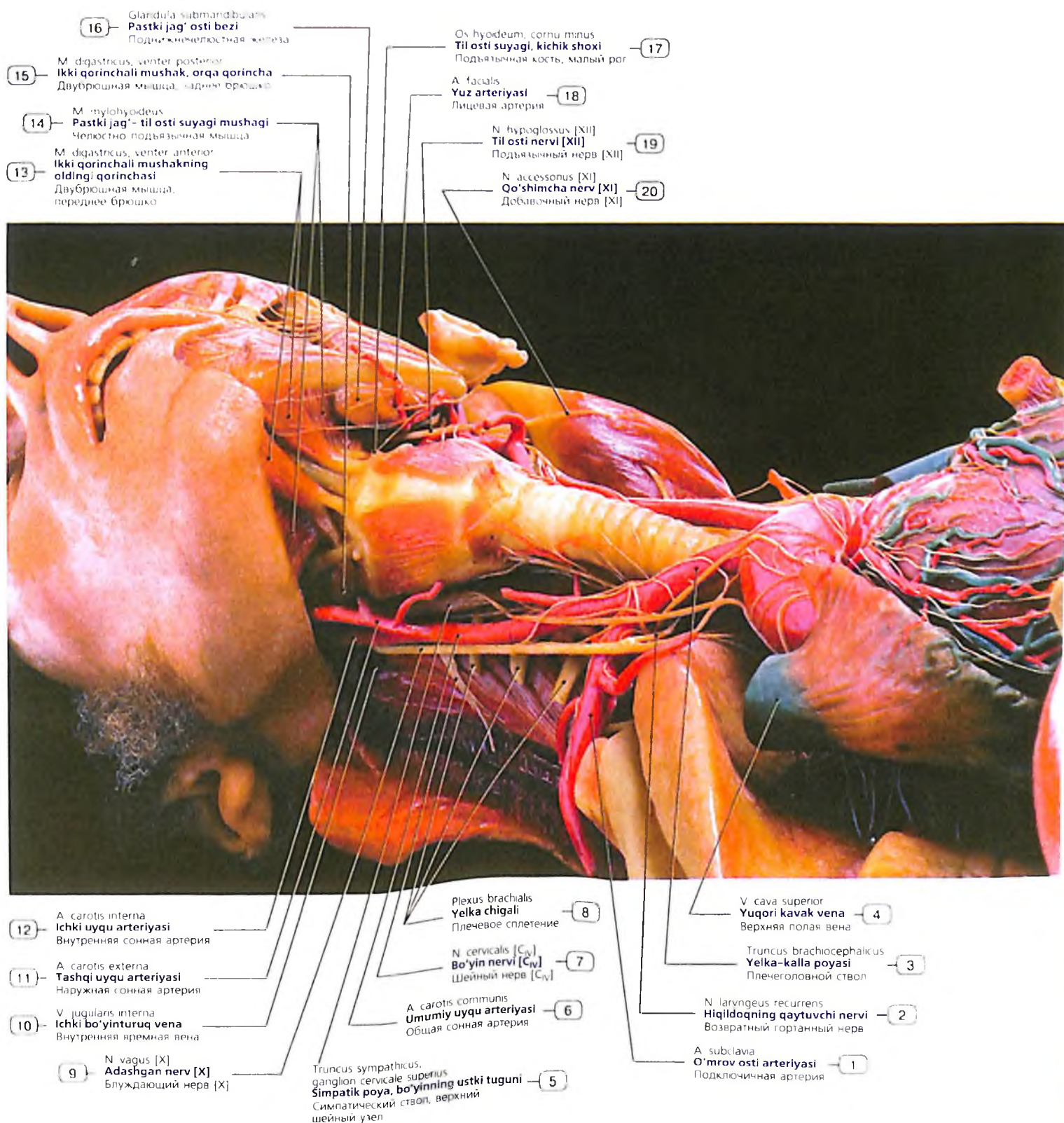
Rasm № 129. Kekirdak va bronxlar, orqadan ko'rinishi (pardali devorning bir qismi olib tashlangan).
Рисунок № 129. Трахея и бронхи, вид сзади (часть перепончатой стенки удалена).

- | | | | |
|--|--|---|---|
| 1 Lateral basal segmental bronchus [B IX] | 8 Left superior lobar bronchus | 17 Lamina of cricoid cartilage [B II] | 33 Lateral basal segmental bronchus [B IX] |
| 2 Medial basal segmental bronchus [B VII] | 9 Apicoposterior segmental bronchus [B-I+II] | 18 Membranous wall | 34 Posterior basal segmental bronchus [B X] |
| 3 Anterior basal segmental bronchus [B VIII] | 10 Left main bronchus | 19 Tracheal glands | 35 Left inferior lobar bronchus |
| 4 Inferior lingular bronchus [B V] | 11 Tracheal bifurcation | 20 Trachealis | 36 Posterior basal segmental bronchus [B X] |
| 5 Superior lingular bronchus [B IV] | 12 Anular ligaments | 21 Right main bronchus | |
| 6 Superior segmental bronchus [B VI] | 13 Tracheal cartilages | 22 Right inferior lobar bronchus | |
| 7 Anterior segmental bronchus | 14 Thyroid cartilage, right lamina | 23 Right superior lobar bronchus | |
| | 15 Corniculate cartilage | 24 Apical segmental bronchus [B I] | |
| | 16 Arytenoid cartilage | 25 Anterior segmental bronchus [B III] | |
| | | 26 Posterior segmental bronchus [B II] | |
| | | 27 Superior segmental bronchus [B VI] | |
| | | 28 Middle lobar bronchus | |
| | | 29 Lateral segmental bronchus [B IV] | |
| | | 30 Medial segmental bronchus [B V] | |
| | | 31 Anterior basal segmental bronchus [B VIII] | |
| | | 32 Medial basal segmental bronchus [B VII] | |



Rasm № 130. Kekirdak (A – ko'ndalang kesma; B – kekirdak ayrisi sohasi, kekirdakning ko'tarilgan joyi, ichkaridan ko'rinishi; B – rekonstruksiya qilingan kekirdak qismi; Г – kekirdak devori, sagittal kesim).
Рисунок № 130. Трахея (А – поперечный разрез; Б – область бифуркации трахеи, киль трахеи, вид изнутри; В – участок трахеи, реконструкция; Г – стенка трахеи, сагиттальный разрез).

- | | | |
|---------------------------|-----------------------------|-----------------------------|
| 1. Membranous wall | 7. Trachealis | membrane, epithelium |
| 2. Mucus. Mucous membrane | 8. Cartilago of trachea | 13. Proper lamina of mucosa |
| 3. Epithelium, anterior | 9. Fibrocartilaginous layer | 14. Tracheal cartilage |
| 4. Tracheal cartilage | 10. Longitudinal folds | 15. Annular ligaments |
| 5. Adventitia | 11. Annular ligaments | |
| 6. Tracheal fold | 12. Mucosa. Mucous | |

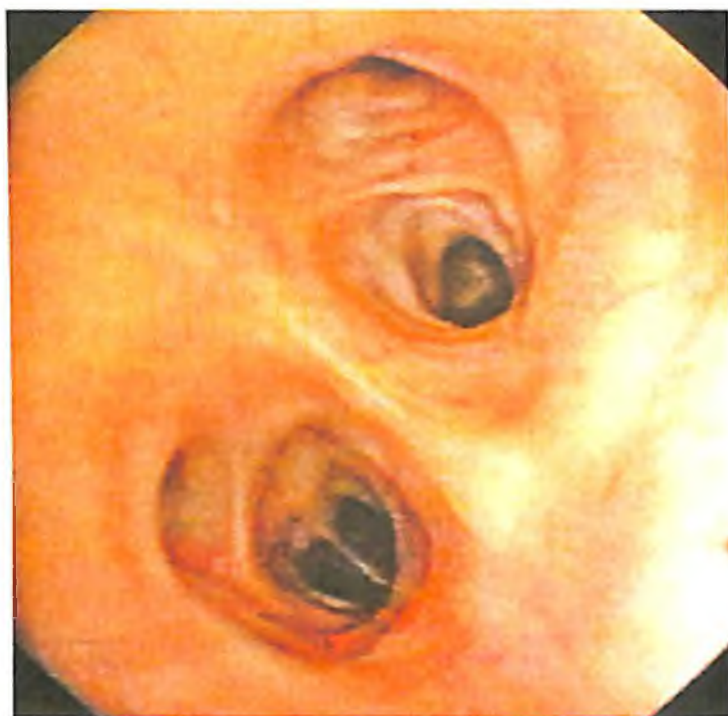


Rasm № 131. Hiqildoq va kekirdak (mumdan tayyorlangan nusxa (model)).
Рисунок № 131. Гортань и трахея (восковая модель).

- | | | | | |
|-------------------------------|-------------------------------------|----------------------------|-------------------------------|----------------------------|
| 1 Subclavian artery | cervical ganglion | 9 Vagus nerve [X] | 13 Digastric, anterior belly | 17 Hyoid bone, lesser horn |
| 2 Recurrent laryngeal nerve | 6 Common carotid artery | 10 Internal jugular vein | 14 Mylohyoid | 18 Facial artery |
| 3 Brachiocephalic trunk | 7 Cervical nerve [C _{IV}] | 11 External carotid artery | 15 Digastric, posterior belly | 19 Hypoglossal nerve [XII] |
| 4 Superior vena cava | 8 Brachial plexus | 12 Internal carotid artery | 16 Submandibular gland | 20 Accessory nerve [XI] |
| 5 Sympathetic trunk, superior | | | | |



A

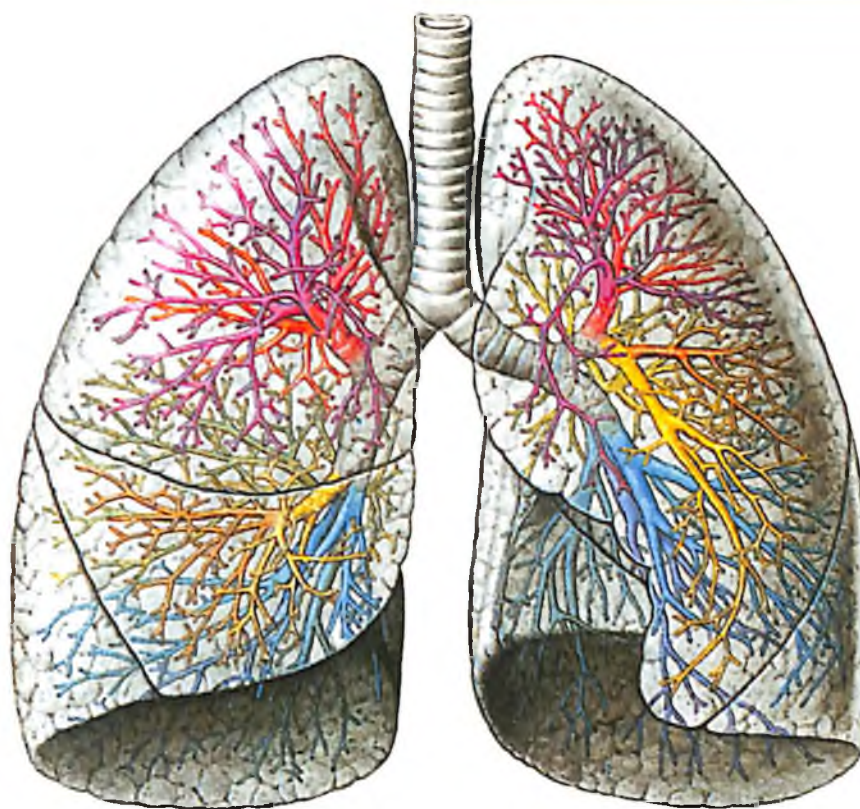


Б

Rasm № 132. Bronxoskopiya (A — kekirdakning ko'tarilgan (bo'rtiq) joyi; Б — bronxlarning tarmoqlanishi).
Рисунок № 132. Бронхоскопия (А — киль трахеи; Б — ветвление бронхов).

13-jadval. Inson o'pkasidagi bo'lak bronxlarning bo'linishi

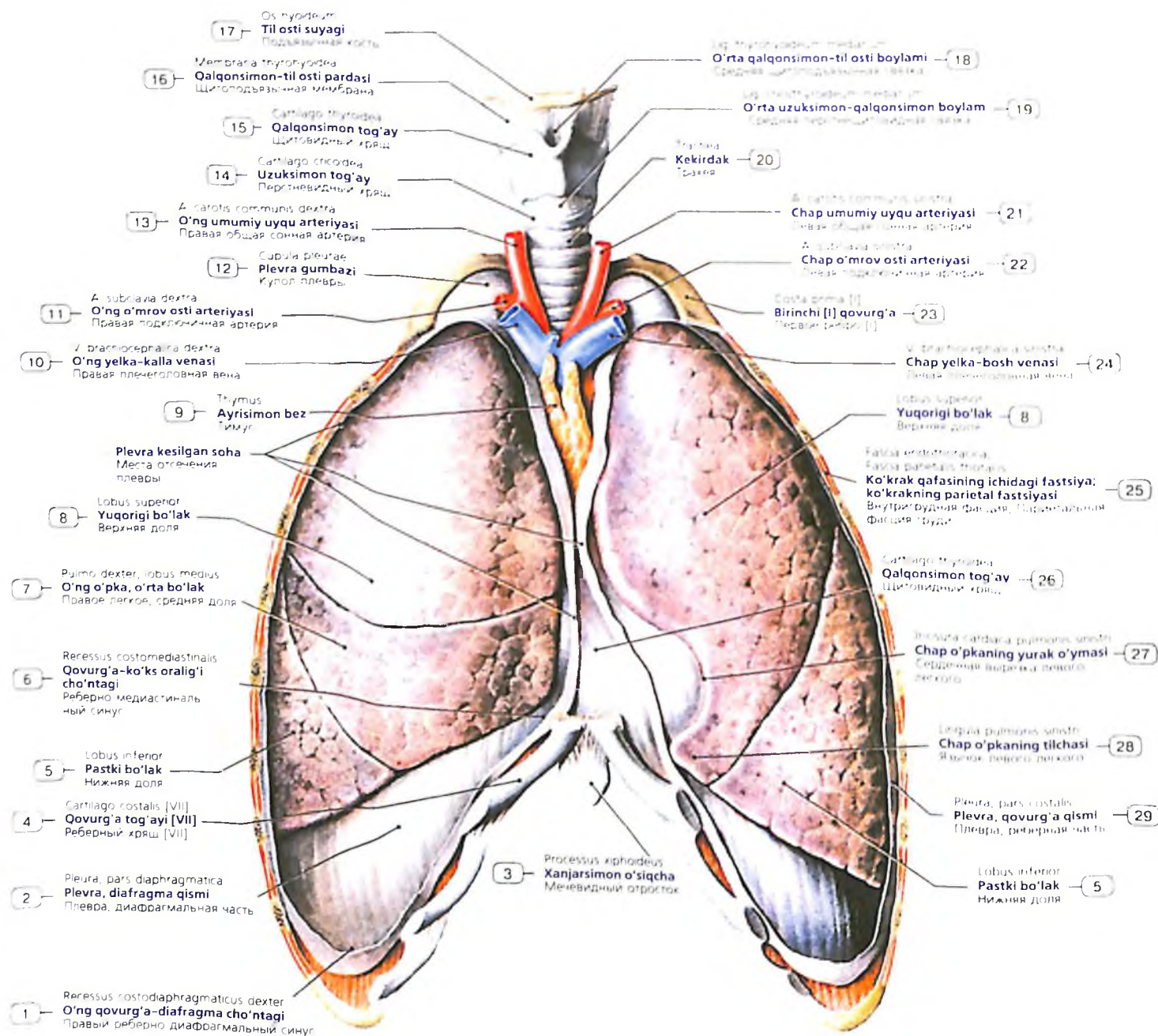
O'ng asosiy bronx		Chap asosiy bronx	
Bo'lak bronxlari	Segment bronxlari	Bo'lak bronxlari	Segment bronxlari
Yuqorigi	Apical Orqa Oldingi	Yuqorigi	Apical, Orqa Oldingi Ustki tilschasimon Pastki tilschasimon
O'rta	Lateral Medial		
Pastki	Apical (yuqorigi) Medial bazal (kardial) Oldingi bazal Lateral bazal Orqa bazal	pastki	Apical (yuqorigi) Medial bazal (kardial) Oldingi bazal Lateral bazal Orqa bazal



Rasm № 133. Bronx daraxti (chizma).
Рисунок № 133. Бронхиальное дерево (схема).

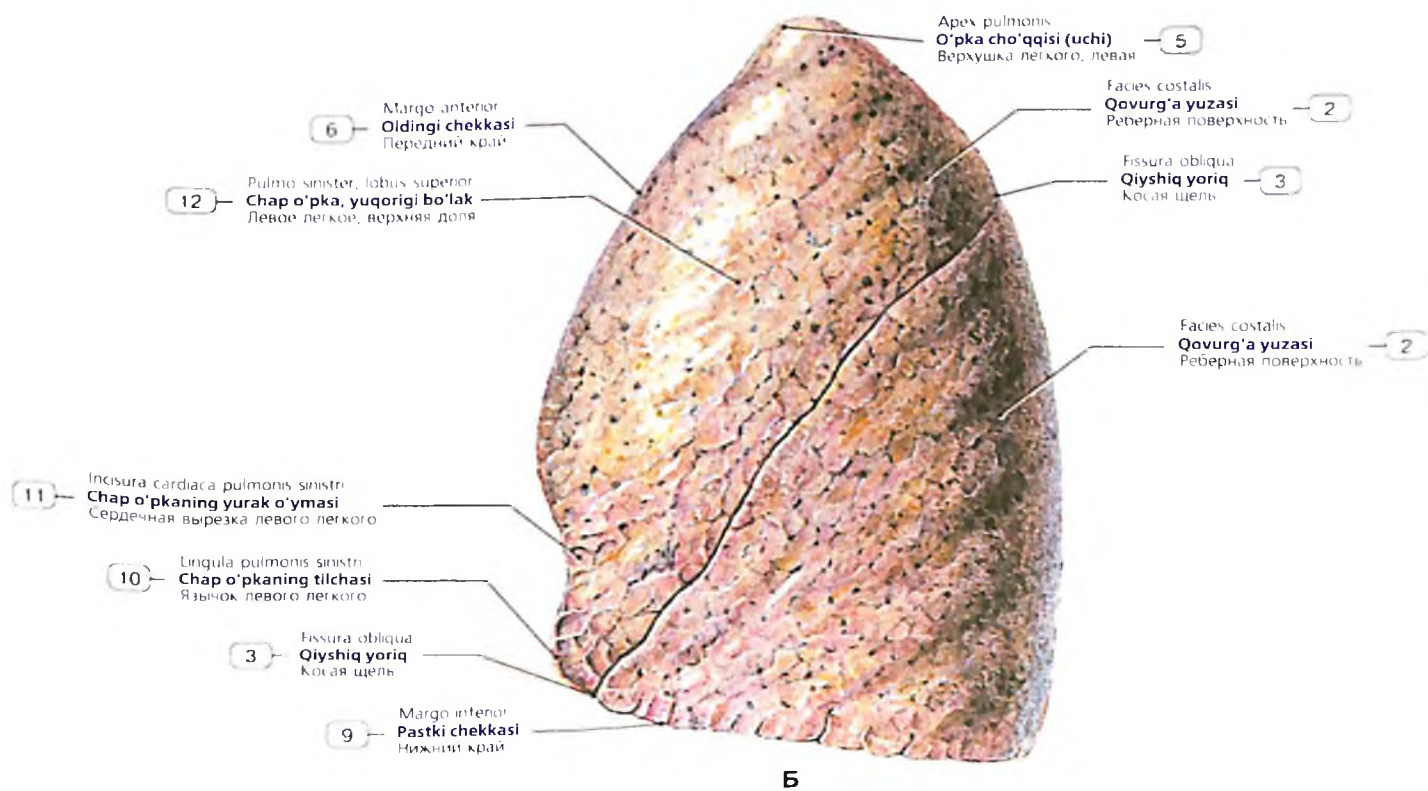
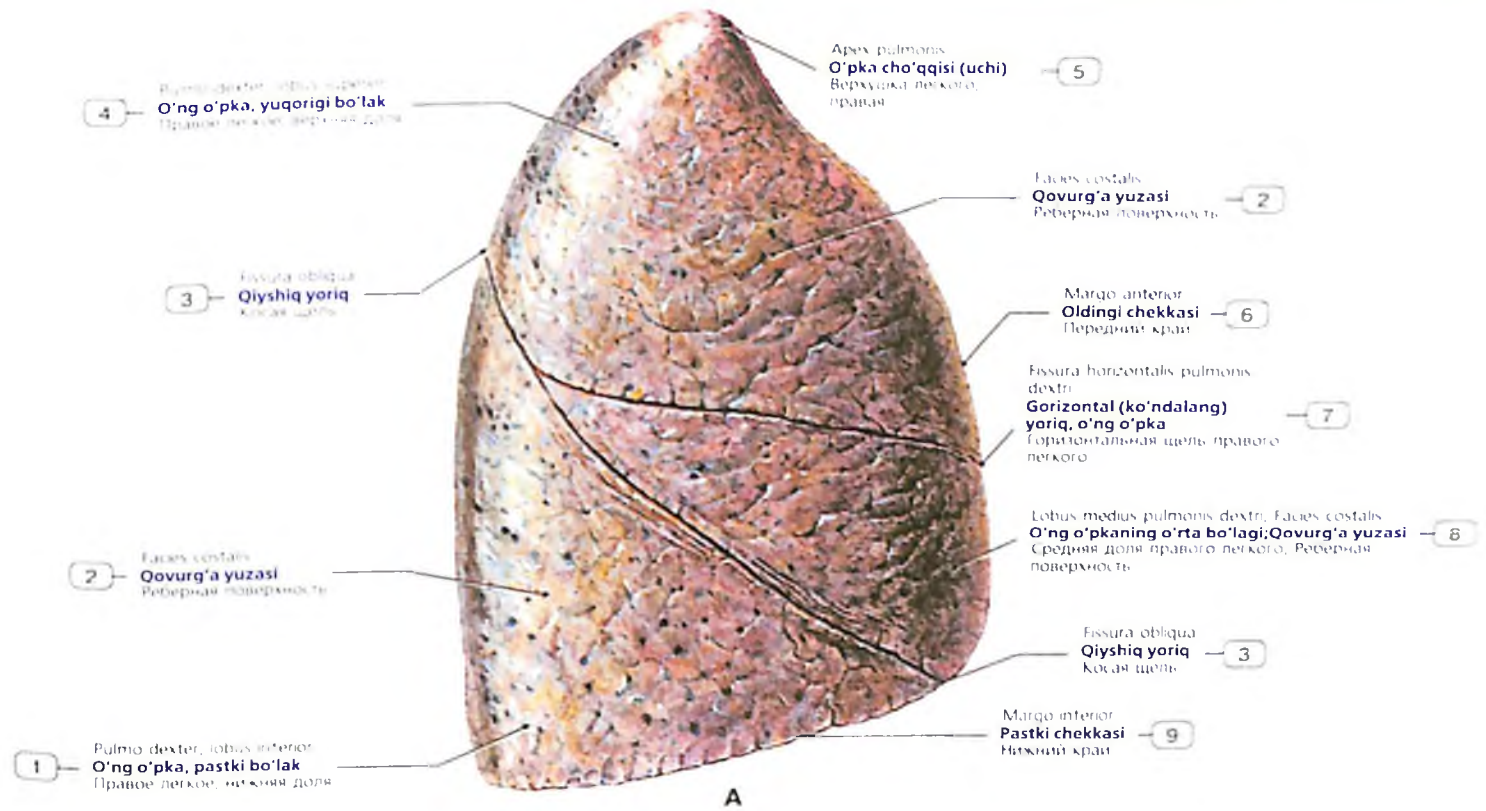


Rasm № 134. O'pkalarning hajmli shakli (S.K.Ternov bo'yicha).
Рисунок № 134. Легкие, объемный рендеринг (по С.К. Терновому).



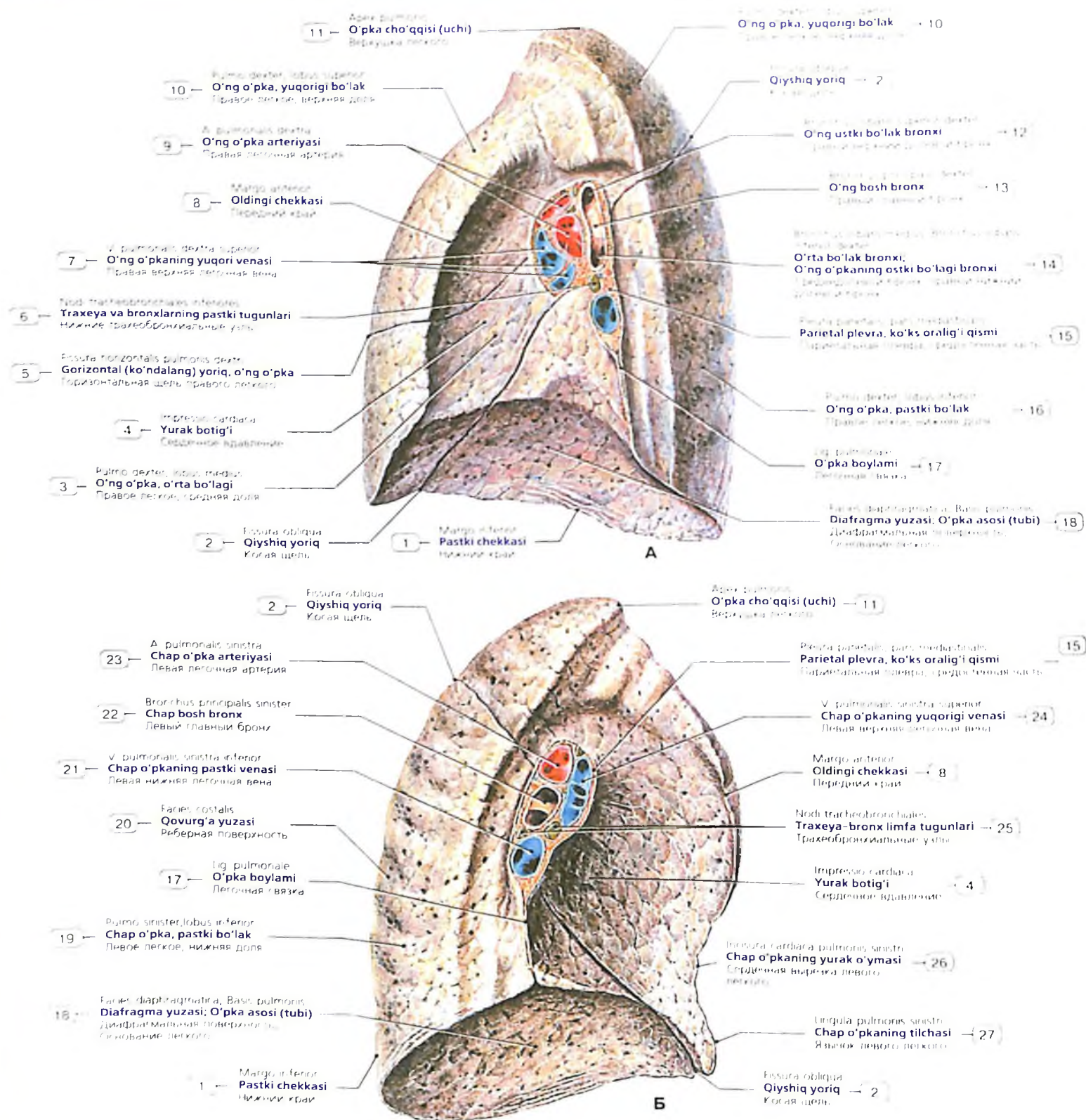
Rasm № 135. Ko'krak qafasida o'pkalarning joylashuvi, oldindan ko'rinishi.
Рисунок № 135. Легкие в грудной клетке, вид спереди.

- | | | | | |
|-----------------------------------|--|--------------------------------|------------------------------------|---|
| 1 Right costodiaphragmatic recess | 7 Right lung, middle lobe | 13 Right common carotid artery | 19 Median cricoid thyroid ligament | 25 Endothoracic fascia, Parietal fascia of thorax |
| 2 Plevra, diaphragmatic part | 8 Superior lobe, Upper lobe | 14 Cricoid cartilage | 20 Trachea | 26 Heart |
| 3 Cartilago costalis [VII] | 9 Thymus | 15 Thyroid cartilage | 21 Left common carotid artery | 27 Cardiac notch of left lung |
| 4 Costomediastinal recess | 10 Right brachiocephalic vein | 16 Thyrohyoid membrane | 22 Left subclavian artery | 28 Lingula of left lung |
| 5 Inferior lobe, Lower lobe | 11 Right subclavian artery | 17 Hyoid bone | 23 First rib [I] | 29 Plevra, costal part |
| | 12 Pericardial pleura, Dome of pleura, Plevra cupula | 18 Median thyrohyoid ligament | 24 Left brachiocephalic vein | |



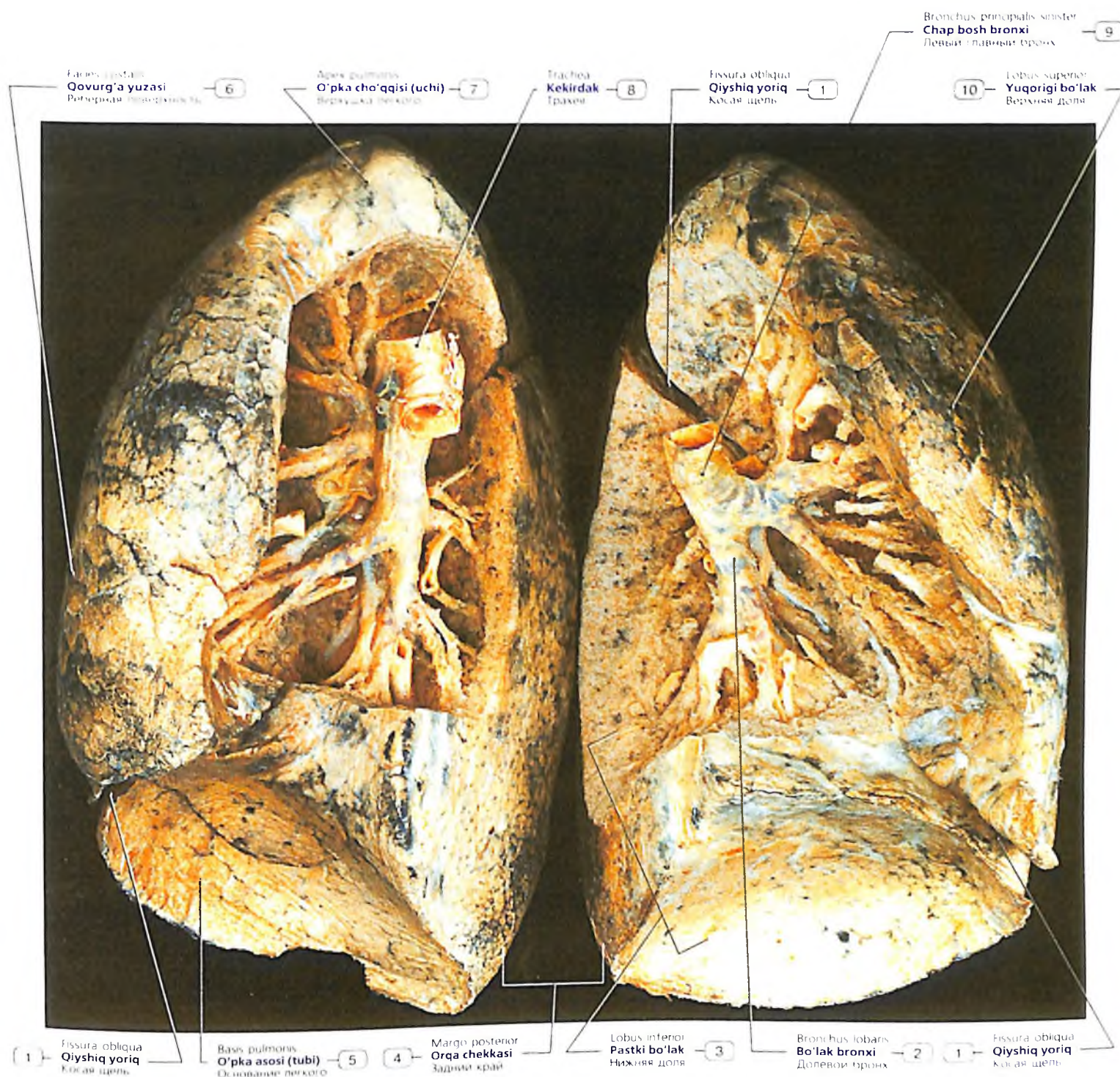
Rasm № 136. O'pkalar, qovurg'a yuzasi (A – o'ng; B – chap).
Рисунок № 136. Легкие, реберная поверхность (A – правое; B – левое).

- | | | | | |
|---|---|---|-------------------------------|---|
| 1 Right lung, inferior lobe, lower lobe | 4 Right lung, superior lobe, upper lobe | 7 Horizontal fissure of right lung | 9 Inferior border | 12 Left lung, superior lobe, upper lobe |
| 2 Costal surface | 5 Apex of lung | 8 Middle lobe of right lung, Costal surface | 10 Lingula of left lung | |
| 3 Oblique fissure | 6 Anterior border | | 11 Cardiac notch of left lung | |



Rasm № 137. O'pkalar, ko'ks oralig'i yuzasi, o'pka ildizi (A – o'ng; B – chap).
Рисунок № 137. Легкие, средостенная поверхность, корень легкого (А – правое; Б – левое).

- | | | | | |
|----------------------------|----------------------------------|---------------------------------------|---|----------------------------------|
| 1. Superior border | 7. Right superior pulmonary vein | 12. Right superior lobar bronchus | 16. Right lung, inferior lobe | 22. Left main bronchus |
| 2. Superior border | 8. Anterior border | 13. Right main bronchus | 17. Pulmonary ligament | 23. Left pulmonary artery |
| 3. Right lung, middle lobe | 9. Right pulmonary artery | 14. Middle lobar bronchus, right | 18. Diaphragmatic surface, Base of lung | 24. Left superior pulmonary vein |
| 4. Cardiac impression | 10. Right lung, superior lobe | 15. Parietal pleura, mediastinal part | 19. Left lung, inferior lobe | 25. Tracheobronchial nodes |
| 5. Superior border | 11. Apex of lung | | 20. Costal surface | 26. Cardiac notch of left lung |
| 6. Superior border | | | 21. Left inferior pulmonary vein | 27. Lingula of left lung |



Rasm № 138. O'pkalar, ko'ks oralig'i yuzasi, yirik bronxlar preparovka qilingan (tabiiy preparatdan olingan rasmi).
Рисунок № 138. Легкие, средостенная поверхность, отпрепарированы крупные бронхи (фотография натурального препарата).

- | | | | | |
|-------------------|-----------------------------|------------------|----------------|------------------------------|
| 1 Oblique fissure | 3 Inferior lobe, Lower lobe | 5 Base of lung | 7 Apex of lung | 9 Left main bronchus |
| 2 Lobar bronchus | 4 Posterior border | 6 Costal surface | 8 Trachea | 10 Superior lobe, Upper lobe |

14-jadval. Bronxial daraxtning o'pkalardagi o'zaro joylashuvi
(Xalqaro anatomik terminologiya asosida)

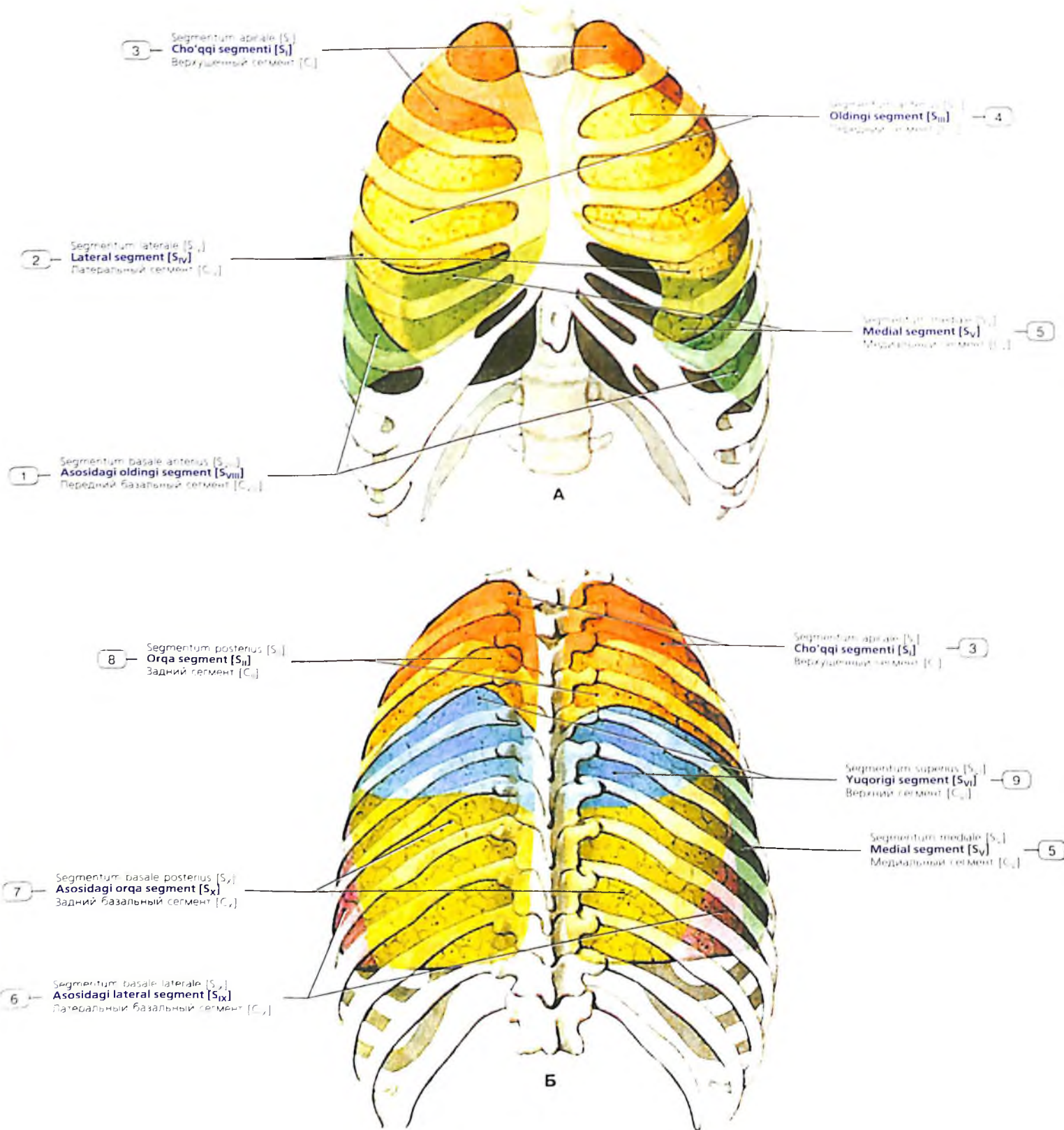
Chap o'pka

Bo'lak bronxlari va o'pka bo'laklari	Segmentar bronxlar	O'pka-bronx segmentlari
Bronchus lobaris superior sinister- Lobus superior	Cho'qqi orqa segment bronxi (bronchus segmentalis apicoposterior [BI+II])	Cho'qqi orqa segment (segmentum apicoposterius [SI+II])
	Oldingi segment bronxi (bronchus segmentalis anterior [BIII])	Oldingi segment (segmentum anterior [SIII])
	Ustki tilchasimon bronx (bronchus lingualis superior [BIV])	Yuqorigi tilchasimon segment (segmentum lingulare superior [SIV])
	Pastki tilchasimon bronx (bronchus lingualis inferior [BV])	Pastki tilchasimon segment (segmentum lingulare inferior [SV])
Bronchus lobaris inferior sinister- Lobus inferior	Yuqorigi segment bronxi (bronchus segmentalis superior [BVI])	Yuqorigi segment (segmentum superior [SVI])
	Asosidagi medial segment bronxi (bronchus segmentalis basalis medialis [cardiacus] [BVII])	Asosining medial segmenti, yurak segmenti (segmentum basale mediale [cardiacum] [SVII])
	Asosidagi oldingi segment bronxi (bronchus segmentalis basalis anterior [BVIII])	Asosining oldingi segmenti (segmentum basale anterior [SVIII])
	Asosidagi lateral segment bronxi (bronchus segmentalis basalis lateralis [BIX])	Asosining lateral segmenti (segmentum basale laterale [SIX])
	Asosidagi orqa segment bronxi (bronchus segmentalis basalis posterior [BX])	Asosining orqa segmenti (segmentum basale posterior [SX])

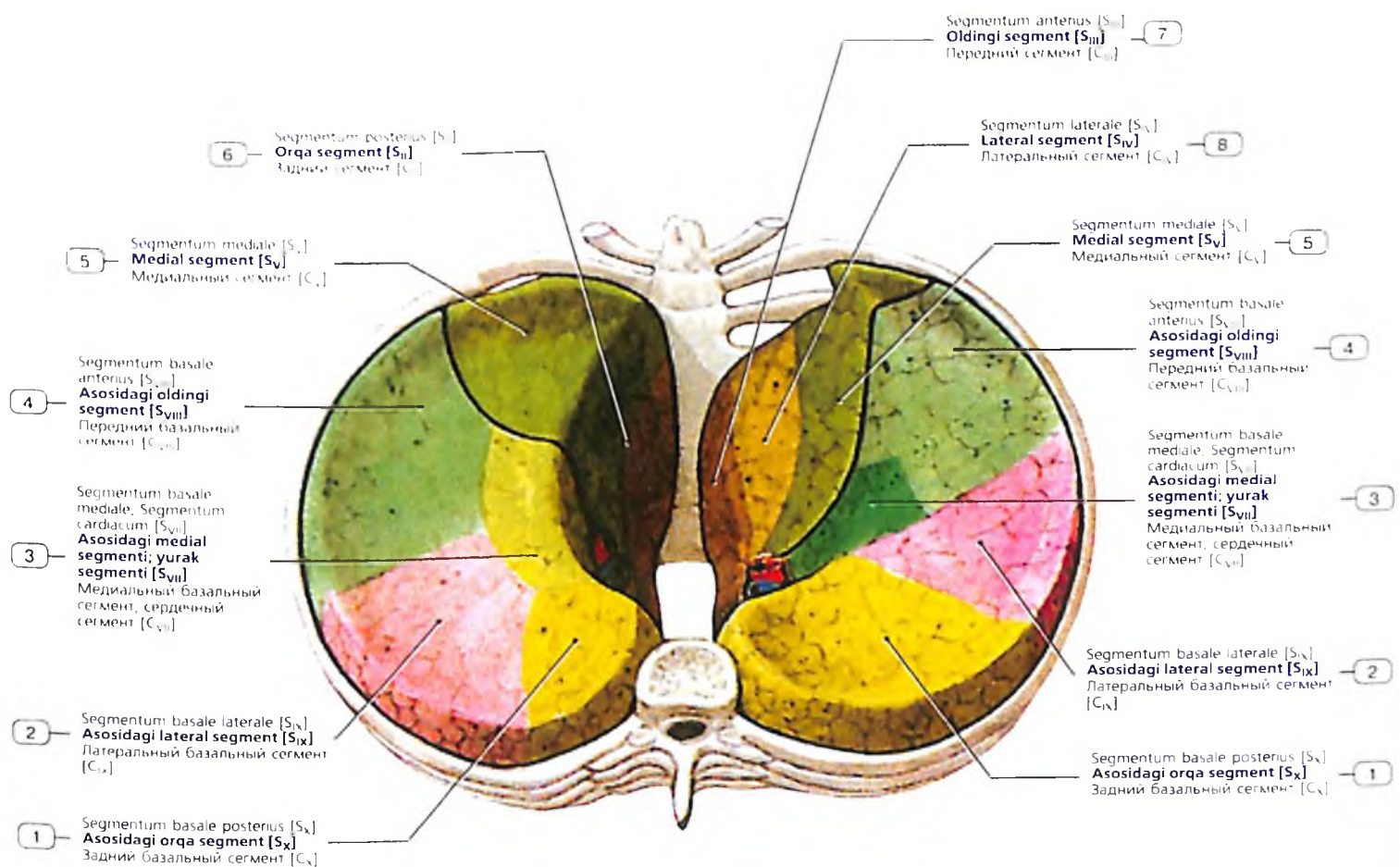
14 jadval yakuni

O'ng o'pka

Bo'lak bronxlari va o'pka bo'laklari	Segmentar bronxlar	O'pka-bronx segmentlari
Bronchus lobaris superior dexter - lobus superior	cho'qqi segmentining bronxi (bronchus segmentalis apicalis [BI])	cho'qqi segmenti (segmentum apicale [SI])
	Orqa segmentining bronxi (bronchus segmentalis posterior [BII])	Orqa segment (segmentum posterius [SII])
	oldingi segment bronxi (bronchus segmentalis anterior [BIII])	Oldingi segment (segmentum antierius [SIII])
Bronchus lobaris medius dexter - lobus medius pulmonis dextri	lateral segmentining bronxi (bronchus segmentalis lateralis [BIV])	Lateral segment (segmentum laterale [SIV])
	Medial segmentining bronxi (bronchus segmentalis medialis [BV])	Medial segment (segmentum mediale [SV])
Bronchus lobaris inferior dexter - lobus inferior	Yuqorigi segmentining bronxi (bronchus segmentalis superior [BVI])	Yuqorigi segment (segmentum superius [SVI])
	Asosidagi medial segment bronxi; yurak bronxi (bronchus segmentalis basalis medialis (cardiacus) [BVII])	Asosidagi medial segmenti; yurak segmenti (segmentum basale medialis [cardiacum] [SVII])
	Asosidagi oldingi segment bronxi (bronchus segmentalis basalis anterior [BVIII])	Asosidagi oldingi segment (segmentum basale antierius [SVIII])
	Asosidagi lateral segment bronxi (bronchus segmentalis basalis lateralis [BIX])	Asosidagi lateral segment (segmentum basale laterale [SIX])
	Asosidagi orqa segment bronxi (bronchus segmentalis basalis posterior [BX])	Asosidagi orqa segment (segmentum basale posterius [SX])



Rasm № 139. O'pka-bronx segmentlari skeletotopiyasi (A – oldindan ko'rinishi; B – orqadan ko'rinishi).
Рисунок № 139. Скелетотопия бронхолегочных сегментов (А – вид спереди; Б – вид сзади).



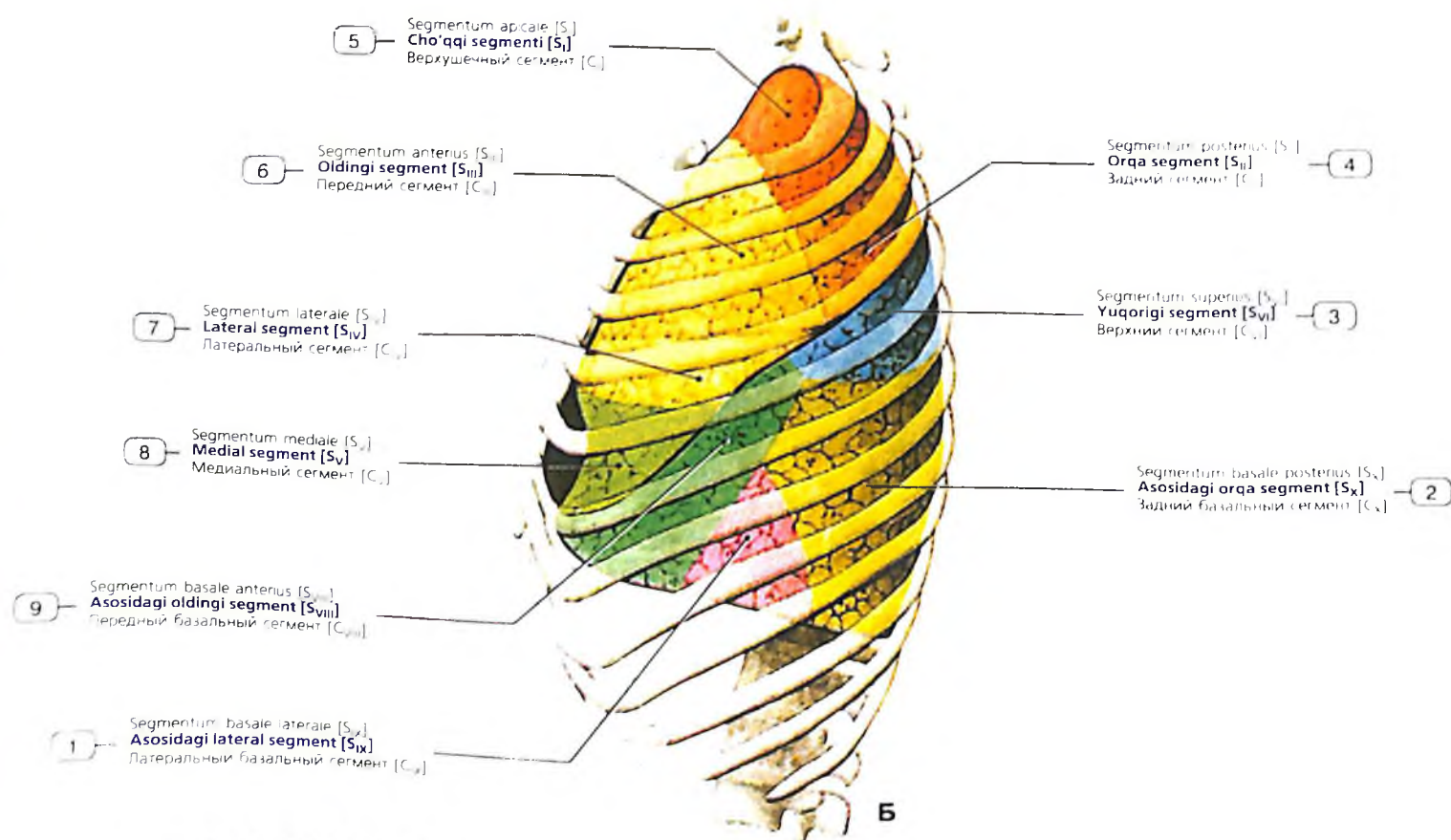
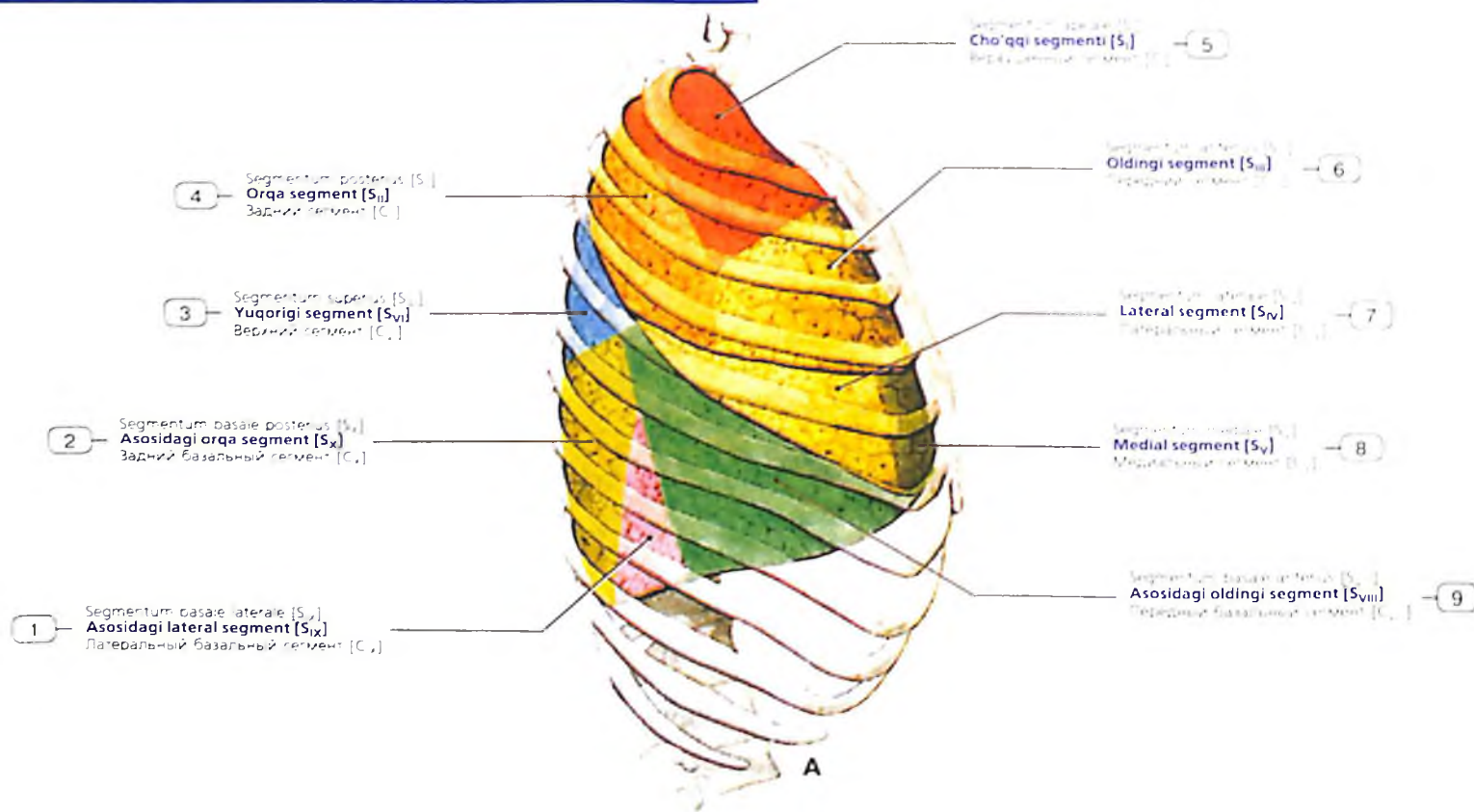
Rasm № 140. O'pka-bronx segmentlari, pastdan ko'rinishi.
Рисунок № 140. Бронхолегочные сегменты, вид снизу.

1 Posterior basal segment [S_x]
2 Lateral basal segment [S_{ix}]

3 Medial basal segment [S_{vii}]
4 Anterior basal segment [S_{viii}]

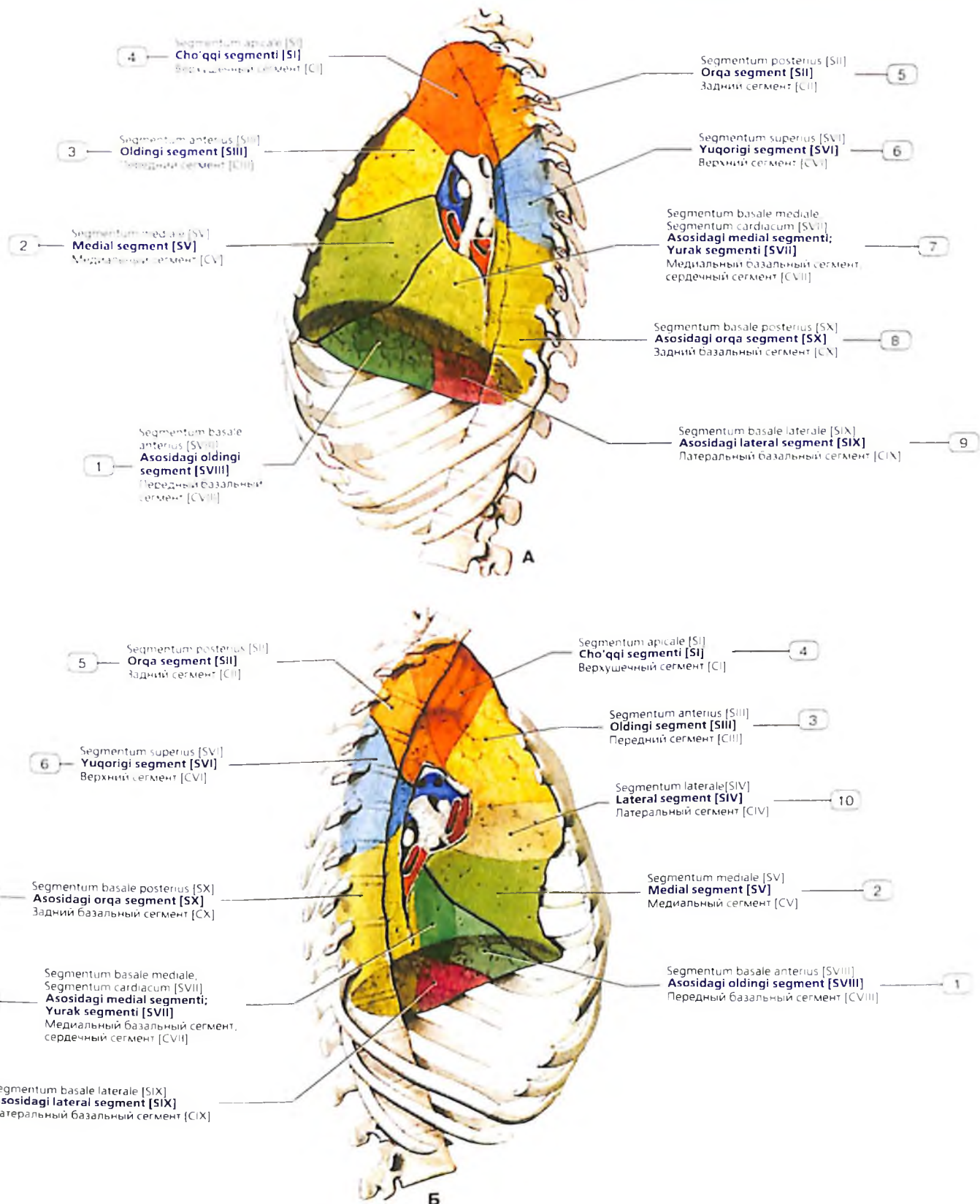
5 Medial segment [S_v]
6 Posterior segment [S_{ii}]

7 Anterior segment [S_{iii}]
8 Lateral segment [S_{iv}]



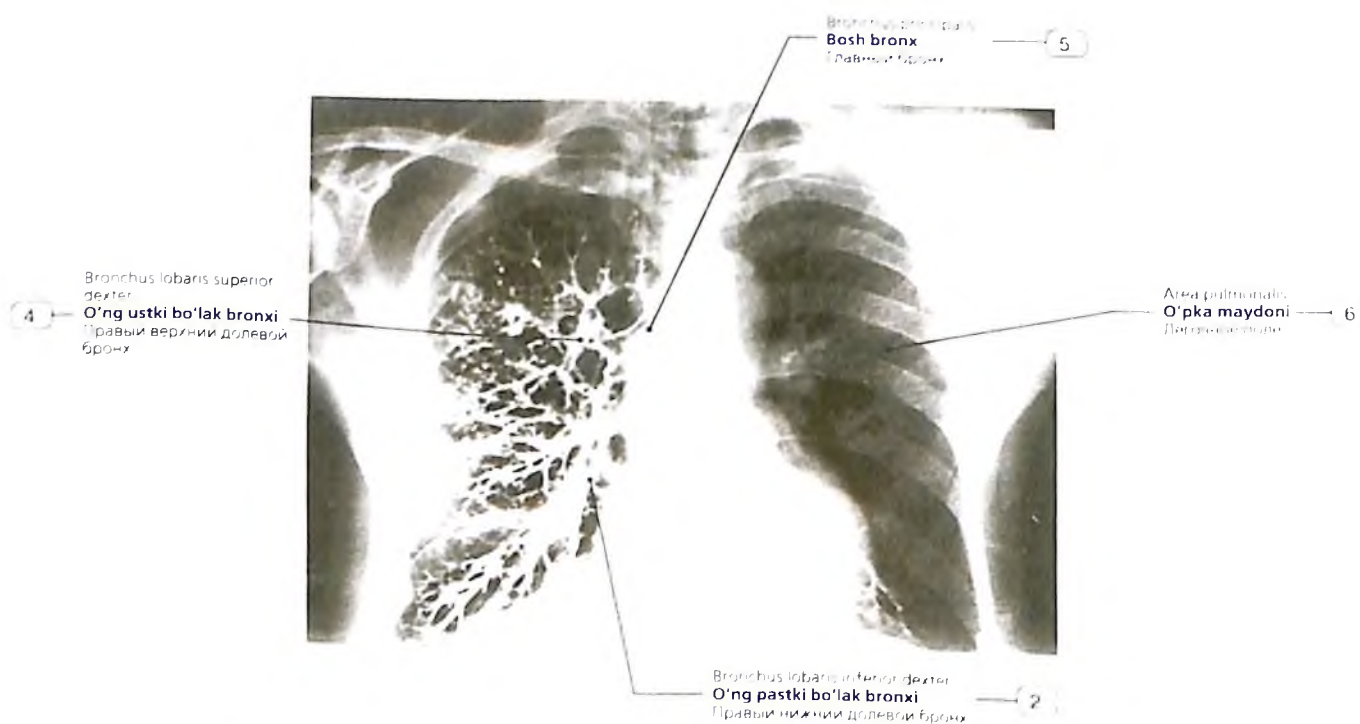
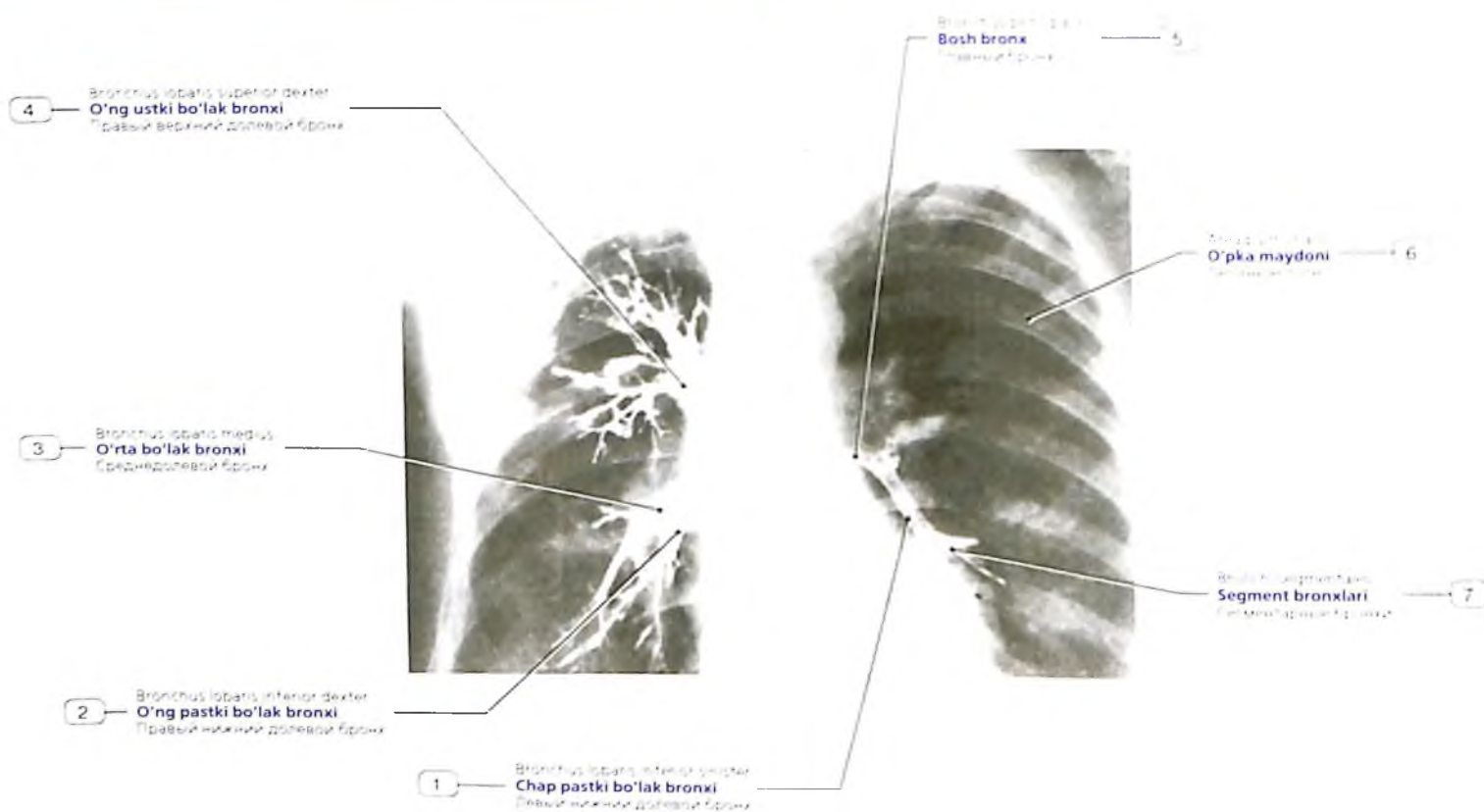
Rasm № 141. O'pka-bronx segmentlari skeletotopiyasi (A – o'ngdan ko'rinishi; B – chapdan ko'rinishi).
Рисунок № 141. Скелетотопия бронхолегочных сегментов (А – вид справа; Б – вид слева).

- | | | | | |
|--|--|--------------------------------------|-------------------------------------|--|
| 1. Lateral basal segment [S_{IX}] | 3. Superior segment [S_{VI}] | 5. Apical segment [S_I] | 7. Lateral segment [S_{IV}] | 9. Anterior basal segment [S_{VIII}] |
| 2. Posterior basal segment [S_X] | 4. Posterior segment [S_{III}] | 6. Anterior segment [S_{II}] | 8. Medial segment [S_V] | |



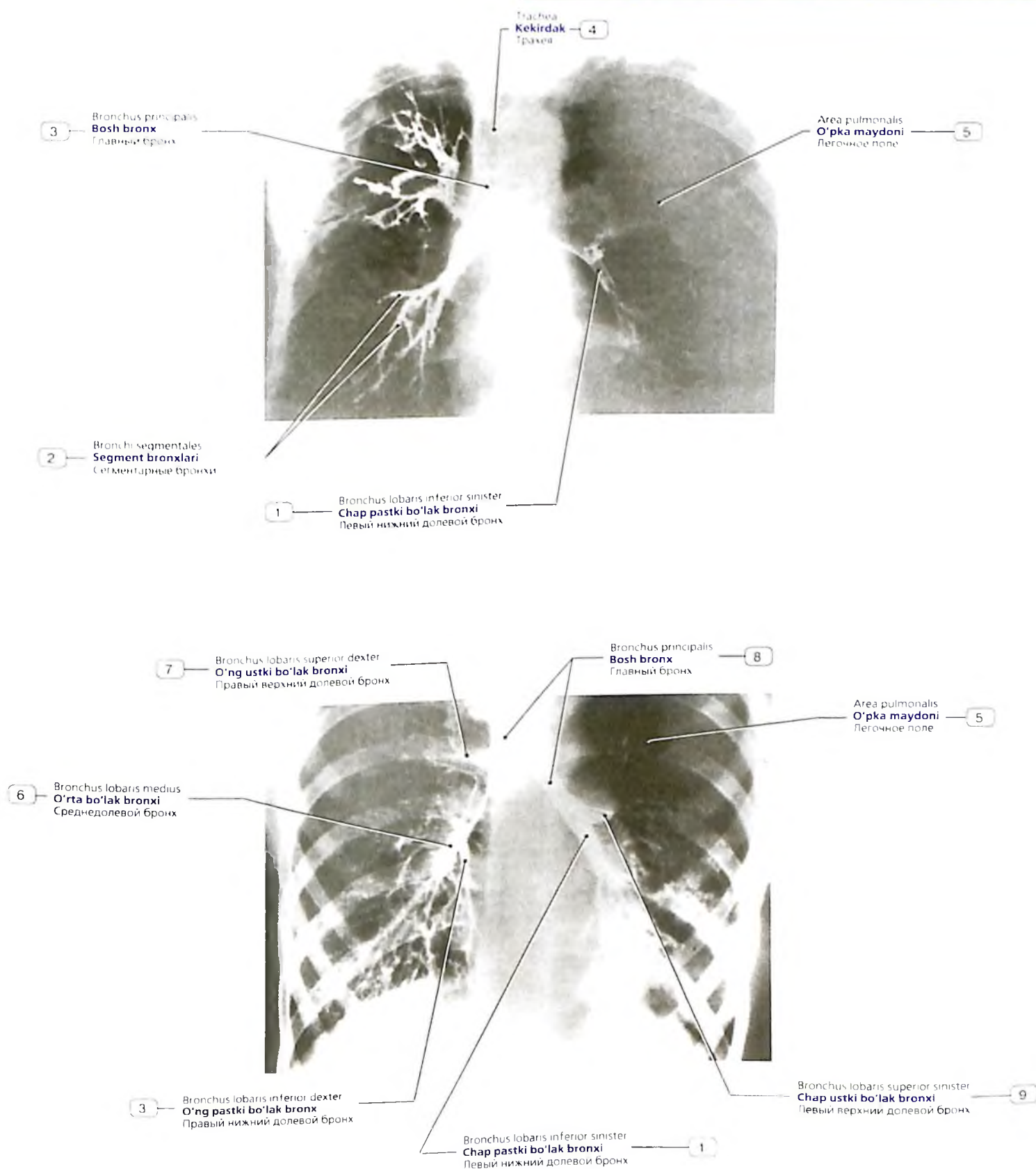
Rasm № 142. O'pka-bronx segmentlari
(A — o'ng o'pka, medial tomondan ko'rinishi; B — chap o'pka, medial tomondan ko'rinishi).
Рисунок № 142. Бронхолегочные сегменты
(A — правое легкое; вид с медиальной стороны; B — левое легкое, вид с медиальной стороны).

- | | | | | |
|----------------------------------|---------------------------|---------------------------|--------------------------------|-------------------------------|
| 1 Anterior basal segment [SVIII] | 3 Anterior segment [SIII] | 5 Posterior segment [SII] | 7 Medial basal segment [SVII] | 9 Lateral basal segment [SIX] |
| 2 Medial segment [SV] | 4 Apical segment [SI] | 6 Superior segment [SVI] | 8 Posterior basal segment [SX] | 10 Lateral segment [SIV] |



Rasm № 143. Bronx daraxti anatomiyasi (bronxiografiya), to'g'ri proyeksiya (V.I.Filimonov va hammualliflar bo'yicha).
Рисунок № 144. Анатомия бронхиального дерева (bronxiografiya), прямая проекция (по В.И. Филимонову и соавт.).

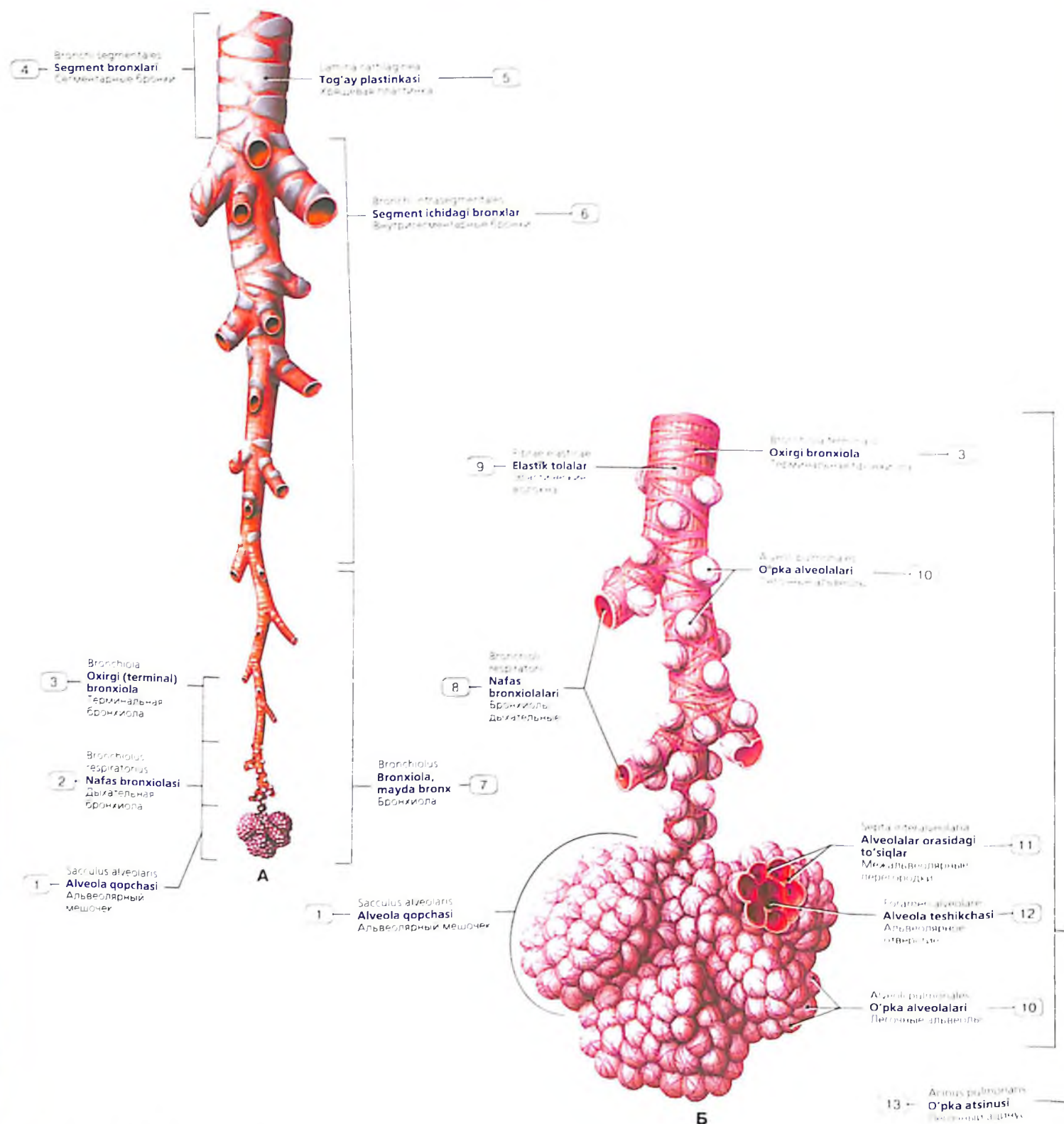
1. Bronchus lobaris superior dexter (O'ng ustki bo'lak bronxi) 2. Bronchus lobaris inferior dexter (O'ng pastki bo'lak bronxi) 3. Bosh bronx (Tashbronx) 4. Area pulmonalis (O'pka maydoni) 5. Bronchus lobaris superior dexter (O'ng ustki bo'lak bronxi) 6. Bronchus lobaris inferior dexter (O'ng pastki bo'lak bronxi) 7. Segment bronxlari (Segmental bronxlar)



Rasm № 143. Bronx daraxti anatomiyasi (bronxiografiya), to'g'ri proyeksiya (V.I.Filimonov va hammualliflar bo'yicha).

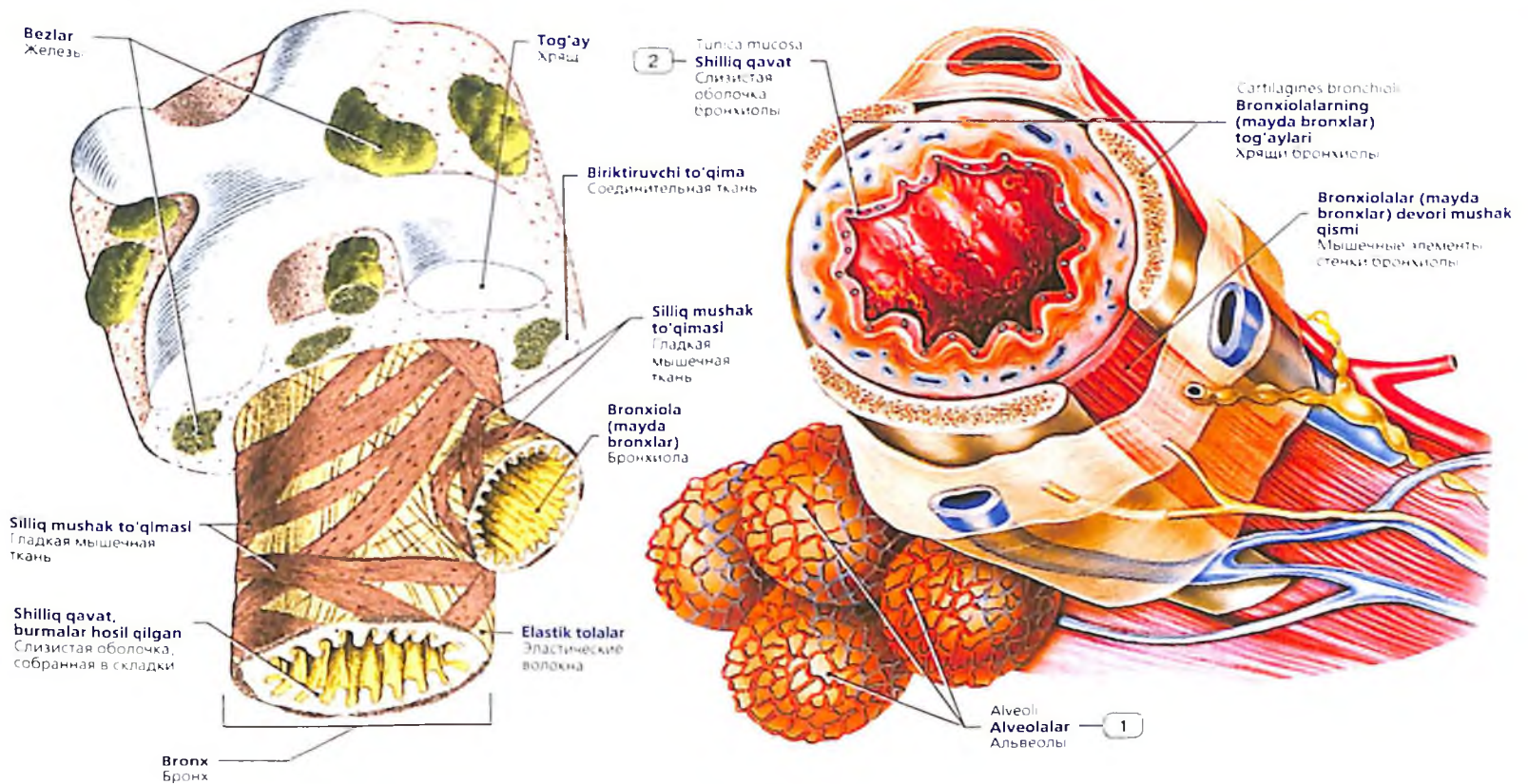
Рисунок № 144. Анатомия бронхиального дерева (bronхиография), прямая проекция (по В.И. Филимонову и соавт.).

- | | | | | |
|---------------------------------|----------------------------------|--------------------------|----------------------------------|---------------------------------|
| 1. Left inferior lobar bronchus | 3. Right inferior lobar bronchus | 5. Pulmonary area | 7. Right superior lobar bronchus | 9. Left superior lobar bronchus |
| 2. Segmental bronchi | 4. Trachea | 6. Middle lobar bronchus | 8. Main bronchus | |



Rasm № 142. Segment bronxlari va ularning tarmoqlari (A — umumiy ko'rinishi; B — nafas bronxiolalarining tarmoqlanishi).
Рисунок № 145. Сегментарный бронх и его ветви (А — общий вид; Б — разветвления дыхательной бронхиолы).

- | | | |
|--|--|---|
| 1 Alveolar sac (Альвеолярный мешочек) | 6 Intrasegmental bronch (Внутрисегментарный бронх) | 11 Inter-alveolar septa (Межальвеолярные перегородки) |
| 2 Respiratory bronchiole (Дыхательная бронхиола) | 7 Bronchiole (Бронхиола) | 12 Alveolar foramen (Альвеолярное отверстие) |
| 3 Terminal bronchiole (Терминальная бронхиола) | 8 Respiratory bronchioles (Дыхательные бронхиолы) | 13 Pulmonary sinus (Пulmonary sinus) |
| 4 Segmental bronch (Сегментарный бронх) | 9 Elastic fibers (Эластичные волокна) | |
| 5 Cartilaginous plate (Хрящевая пластинка) | 10 Respiratory alveoli (Дыхательные альвеолы) | |



Rasm № 146. Bronxning tuzilishi (rekonstruksiya) (L.K. Junkeyra, J. Karneyro bo'yicha).
Рисунок № 146. Строение бронха (реконструкция) (по Л.К. Жункейра, Ж. Карнейро).

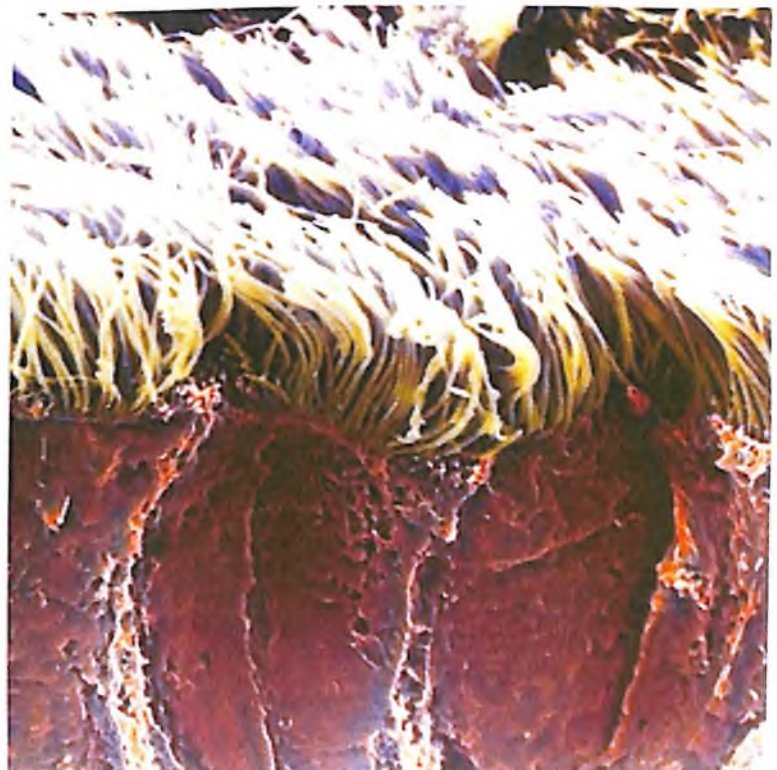
Rasm № 147. Bronxiola (mayda bronxlar) va alveolar.
Рисунок № 147. Бронхиола и альвеолы.

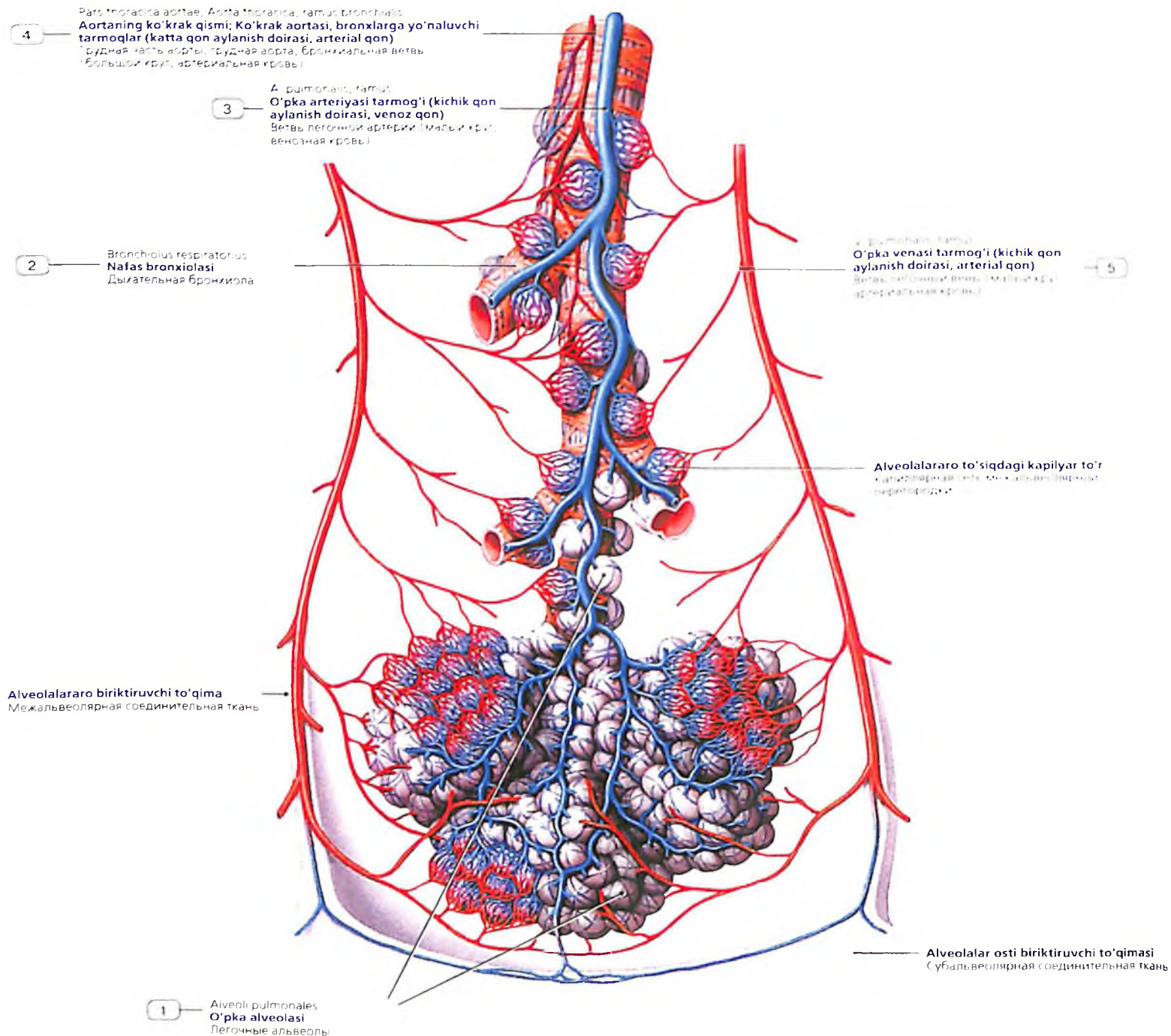
1 Alveoli

2 Mucosa, Mucous membrane

Rasm № 148. Bronxiolalar (mayda bronxlar).
Рисунок № 148. Бронхиолы.

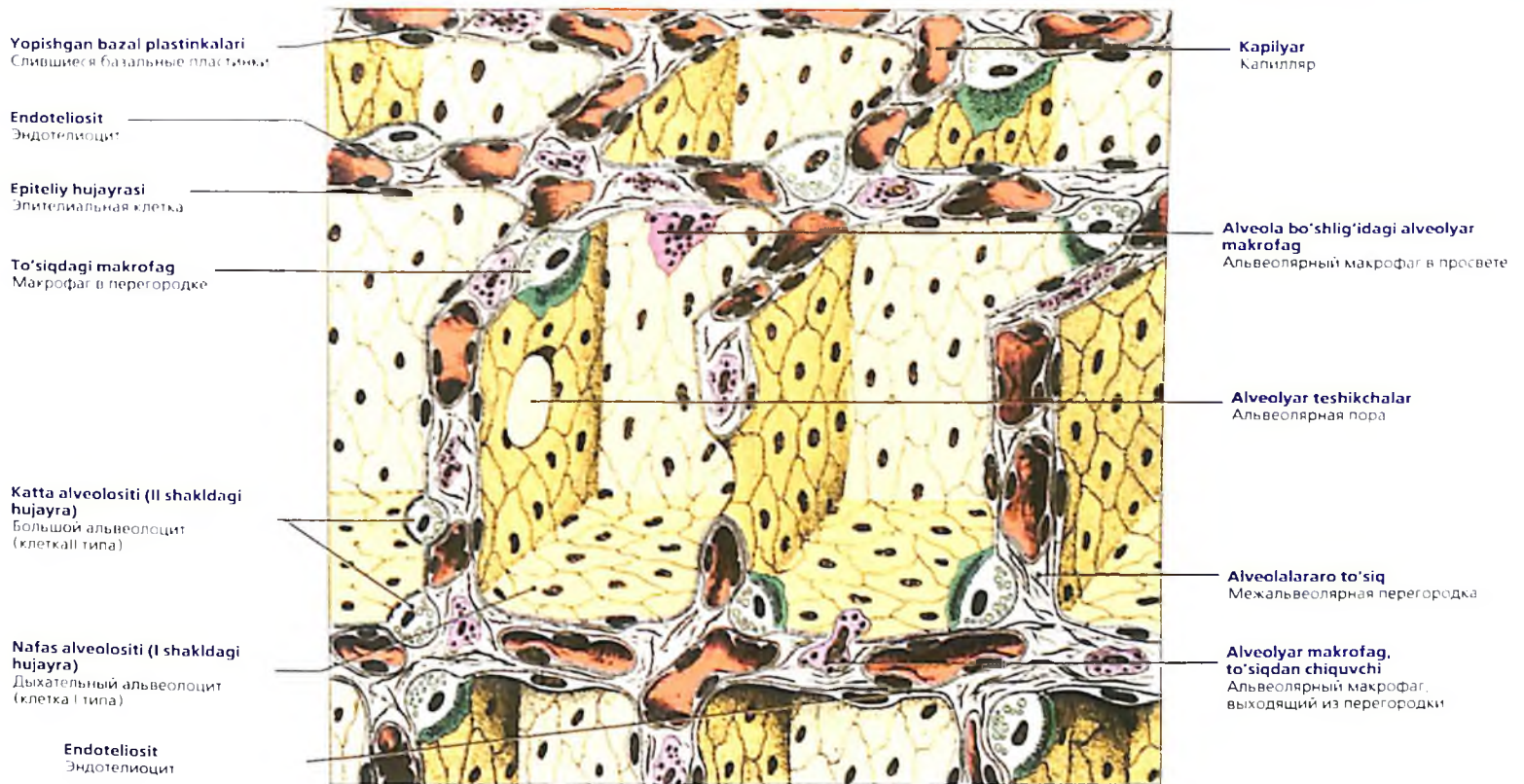
Rasm № 149. Bronxdagi kiprikli epiteliy.
Рисунок № 149. Бронхиальный ресничный эпителий.



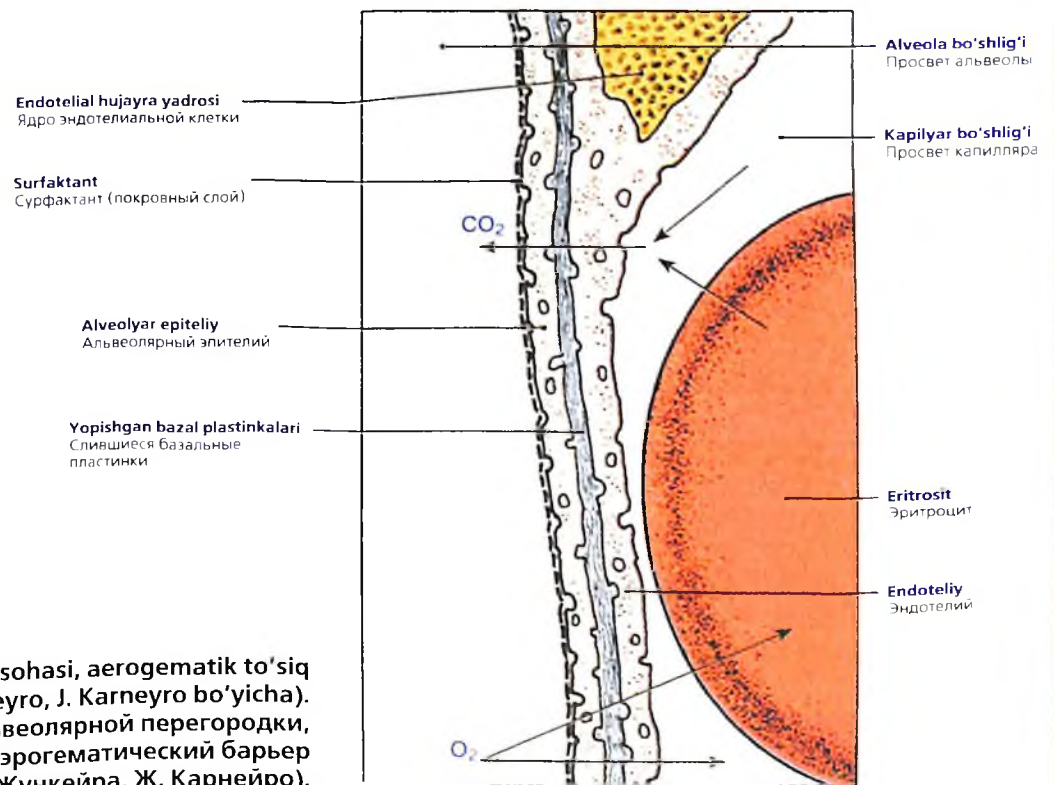


Rasm № 150. O'pka atsinusining qon bilan ta'minlanishi (chizma).
Рисунок № 150. Кровоснабжение легочного ацинуса (схема).

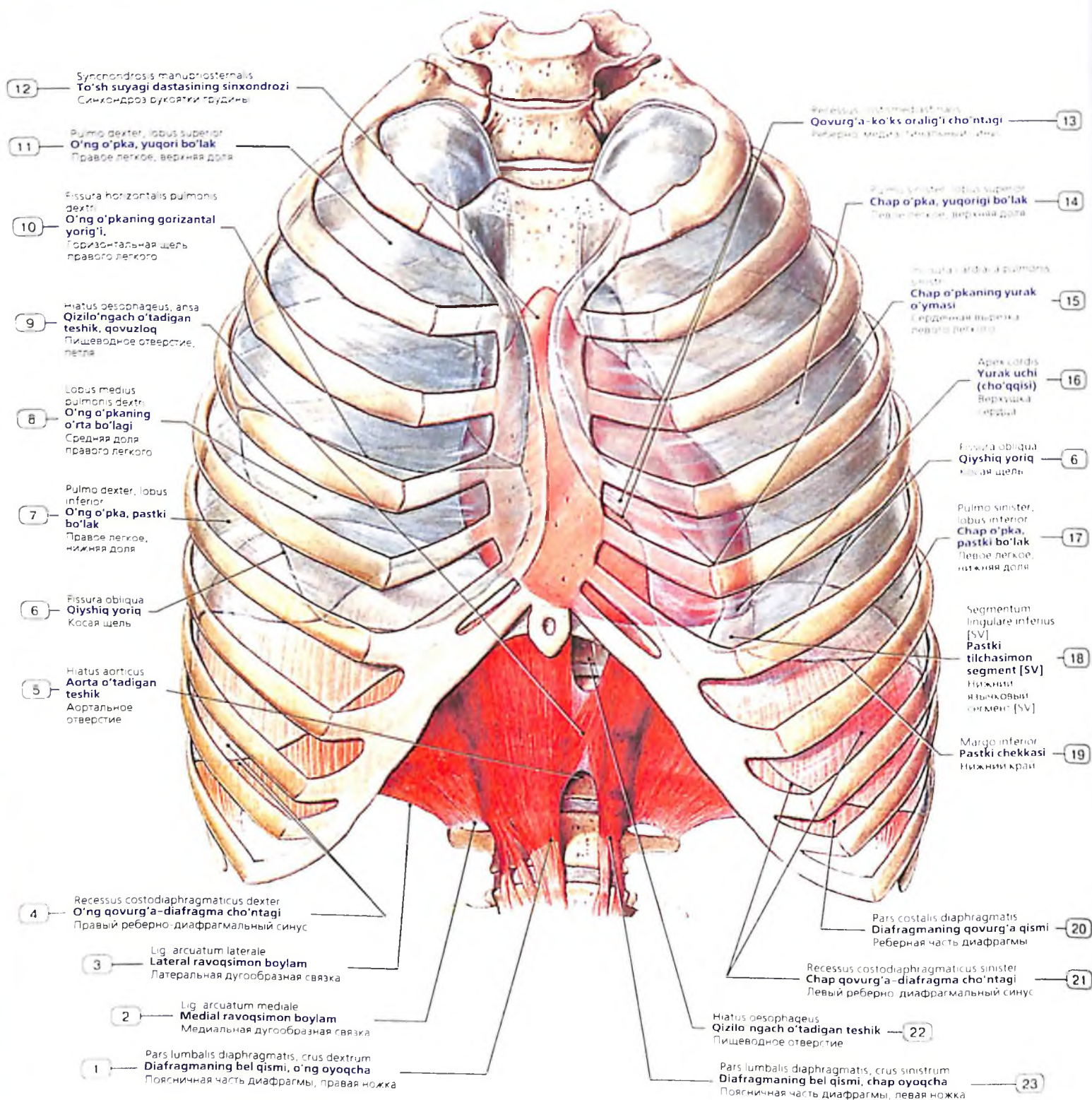
- | | |
|----------------------------|------------------------------------|
| 1 Pulmonary alveolus | 4 Thoracic aorta, bronchial branch |
| 2 Respiratory bronchioles | 5 Pulmonary vein, branch |
| 3 Pulmonary artery, branch | |



Rasm № 151. O'pka alveolalari, uch o'lchamli rekonstruksiya (chizma) (L.K.Junkeyro, J.Karneyro bo'yicha).
Рисунок № 151. Легочные альвеолы, трехмерная реконструкция (схема) (по Л.К. Жункейра, Ж. Карнейро).

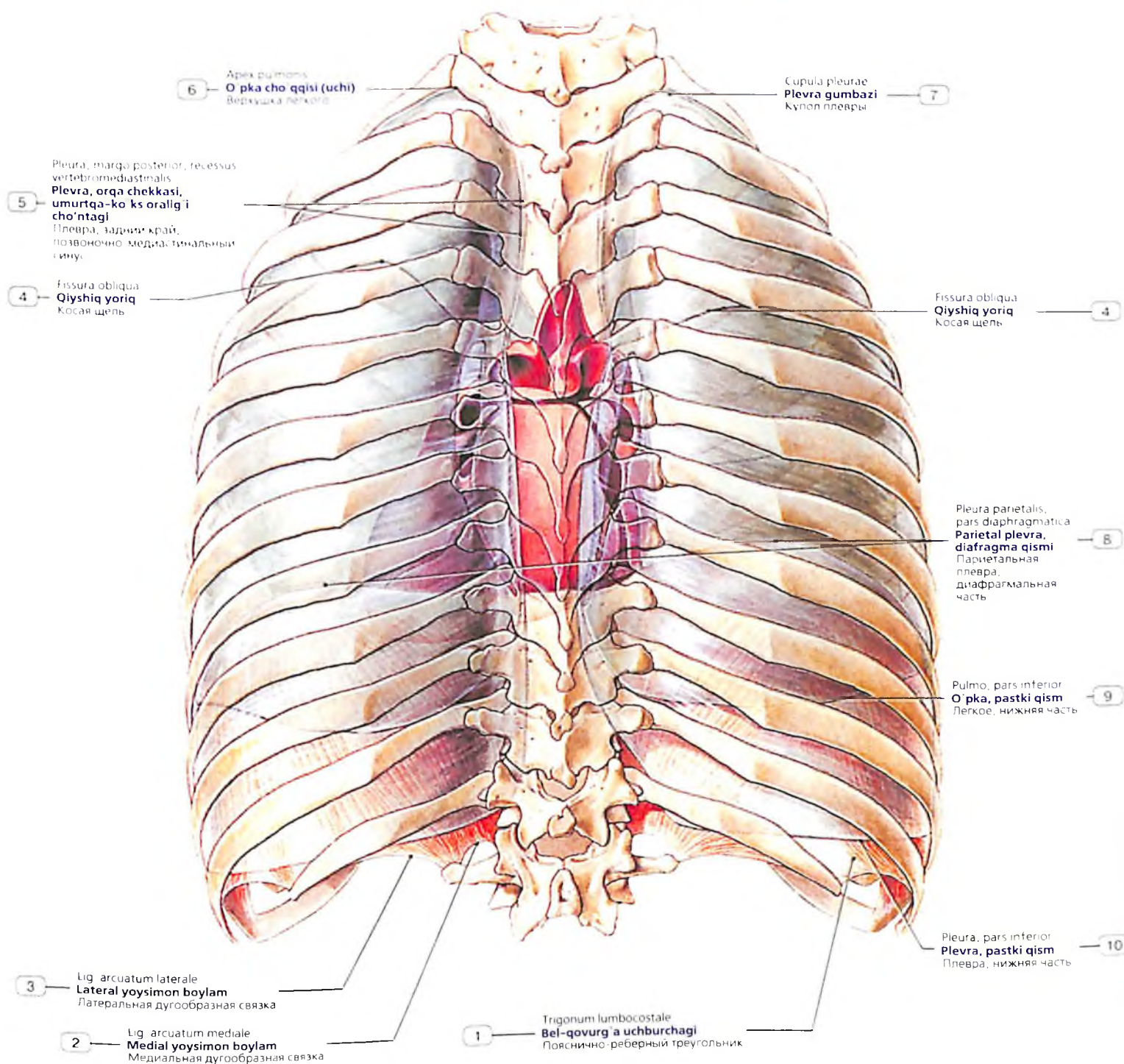


Rasm № 152. Alveolalararo to'siq sohasi, aerogematik to'siq (L.K. Junkeyro, J. Karneyro bo'yicha).
Рисунок № 152. Участок межальвеолярной перегородки, аэрогематический барьер (по Л.К. Жункейра, Ж. Карнейро).



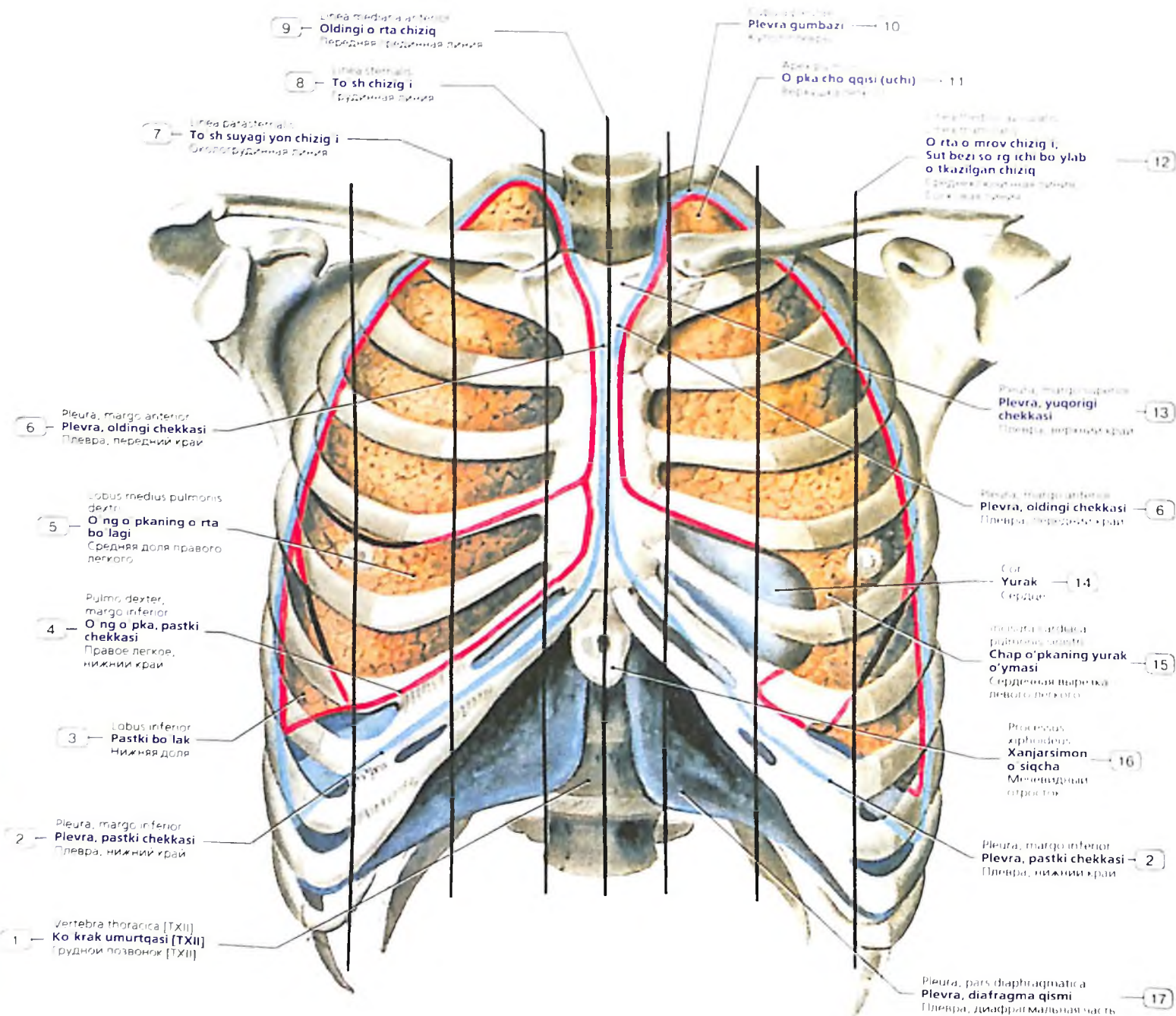
Rasm № 153. Plevra bo'shlig'idagi o'pkalar, oldindan ko'rinishi.
Рисунок № 153. Легкие в плевральных полостях, вид спереди.

- | | | | |
|-----------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|
| 1 Lumbal part, right crus | 7 Right lung, inferior lobe | 13 Costomediastinal recess | 19 Inferior border |
| 2 Media: arcuate ligament | 8 Middle lobe of right lung | 14 Left lung, superior lobe | 20 Costal part |
| 3 Lateral arcuate ligament | 9 Oesophageal hiatus, loop | 15 Cardiac notch of left lung | 21 Left costodiaphragmatic recess |
| 4 Right costodiaphragmatic recess | 10 Horizontal fissure of right lung | 16 Apex of heart | 22 Oesophageal hiatus |
| 5 Aortic hiatus | 11 Right lung, superior lobe | 17 Left lung, inferior lobe | 23 Lumbal part, left crus |
| 6 Cardiac fissure | 12 Manubriosternal synchondrosis | 18 Inferior lingular segment [SV] | |



Rasm № 154. Plevra bo'shlig'idagi o'pkalar, orqadan ko'rinishi.
Рисунок № 154. Легкие в плевральных полостях, вид сзади.

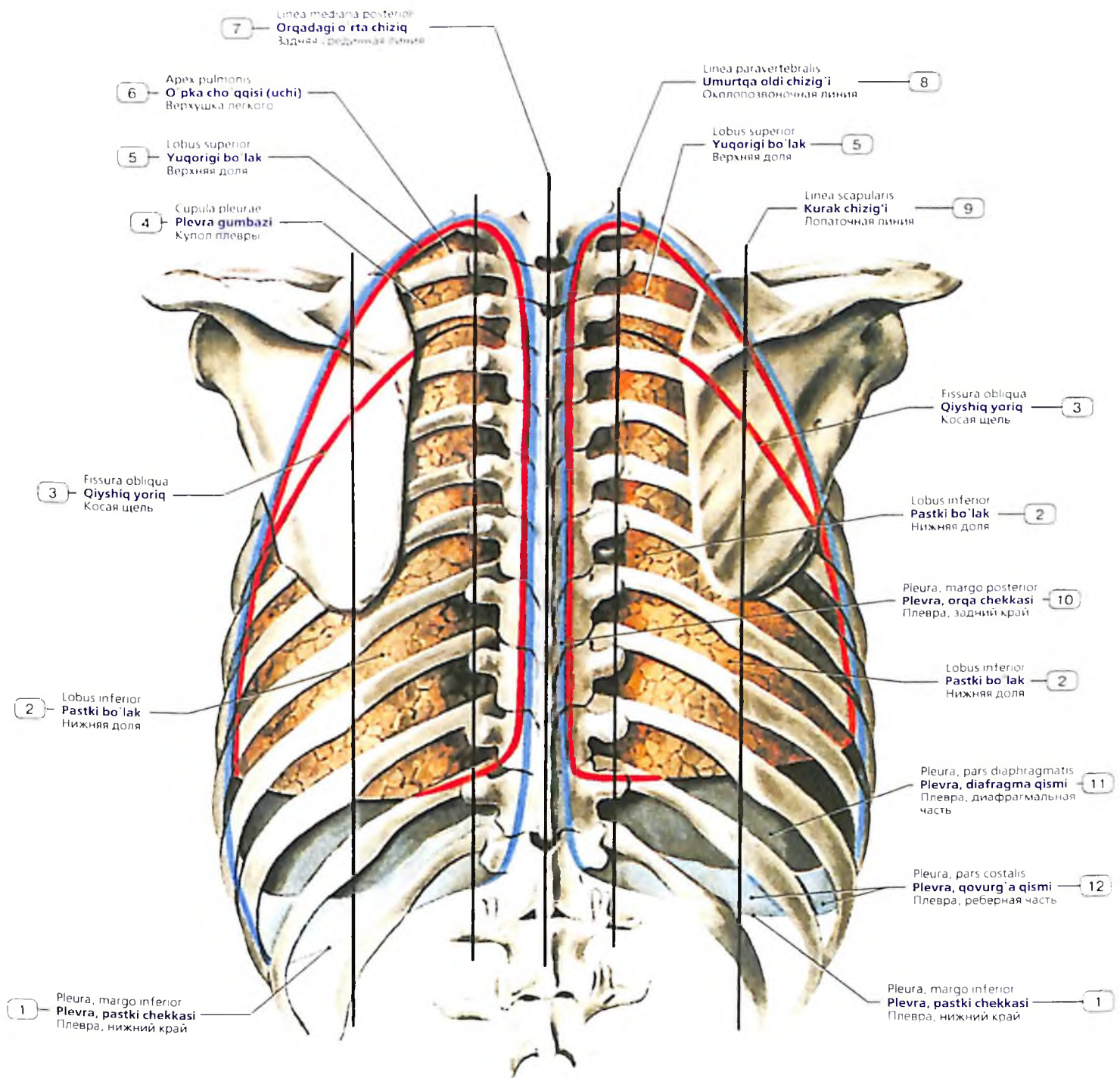
- | | | | |
|---|--|----|---|
| 1 | Lumbocostal triangle | 6 | Apex of lung |
| 2 | Medial arcuate ligament | 7 | Cervical pleura, Dome of pleura, Pleural cupula |
| 3 | Lateral arcuate ligament | 8 | Parietal pleura, diaphragmatic part |
| 4 | Oblique fissure | 9 | Lung, inferior part |
| 5 | Pleura, posterior border, vertebromediastinal recess | 10 | Pleura, inferior part |



Rasm № 155. O'pkalar va plevranning chegaralari, oldindan ko'rinishi.
Рисунок № 155. Границы легких и плевры, вид спереди.

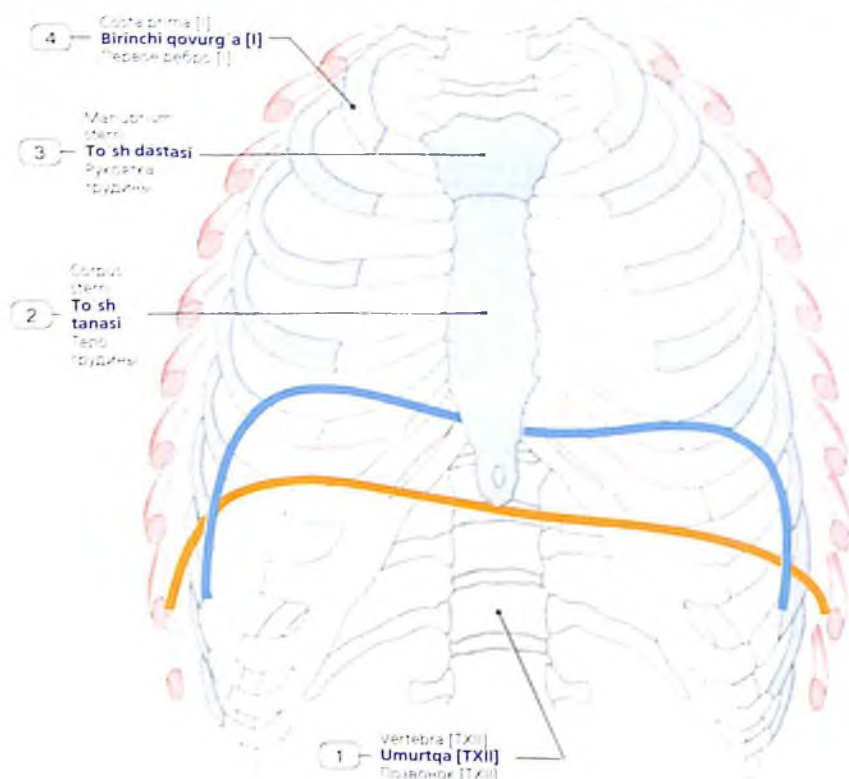
- 7 Parasternal line
- 8 Sternal line
- 9 Anterior median line
- 10 Cervical pleura, Dome of pleura, Pleural cupula
- 11 Apex of lung
- 12 Midclavicular line, Mamillary line, Nipple line

- 13 Pleura, superior border
- 14 Heart
- 15 Cardiac notch of left lung
- 16 Xiphoid process
- 17 Pleura, diaphragmatic part



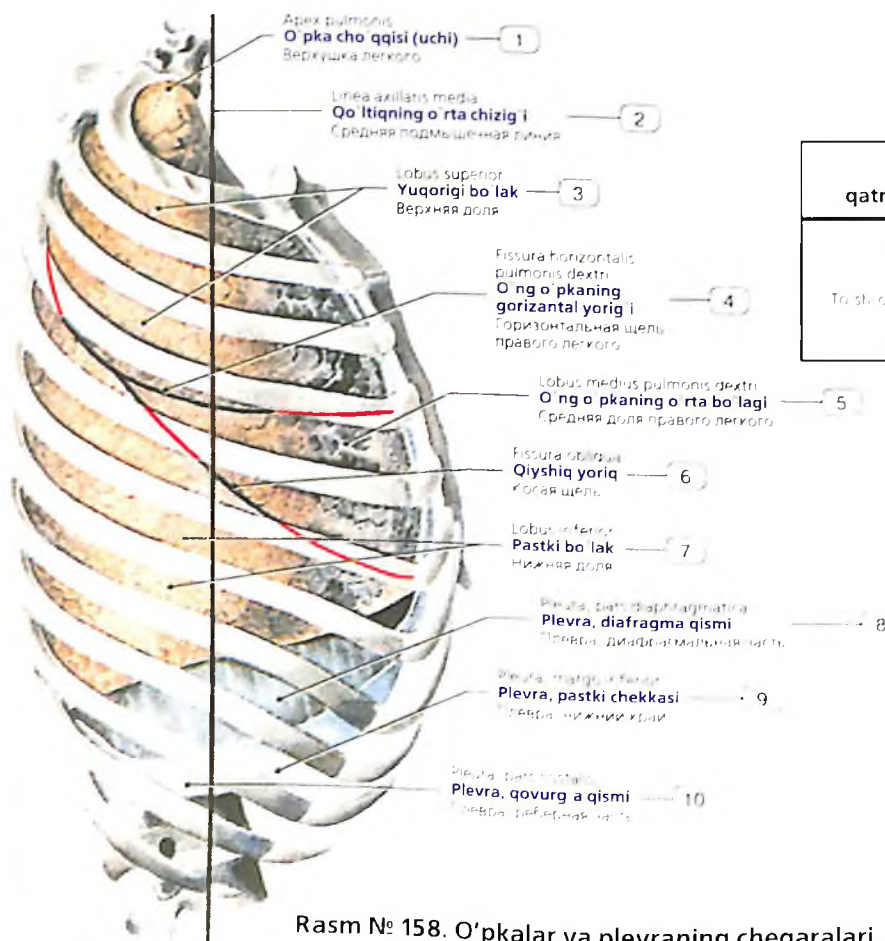
Rasm № 156. O'pkalar va plevraning chegaralari, orqadan ko'rinishi.
Рисунок № 156. Границы легких и плевры, вид сзади.

- | | |
|---|-------------------------------|
| 1 Pleura, inferior border | 7 Posterior median line |
| 2 Inferior lobe, Lower lobe | 8 Paravertebral line |
| 3 Oblique fissure | 9 Scapular line |
| 4 Cervical pleura, Dome of pleura, Pleural cupula | 10 Pleura, posterior border |
| 5 Superior lobe, Upper lobe | 11 Pleura, diaphragmatic part |
| 6 Apex of lung | 12 Pleura, costal part |



Rasm № 157. Nafas olish va chiqarish aktida plevra chegaralarining o'zgarishi (ko'k chiziq — qovurg'alar havorangda — diafragma, va ko'krak qafasi nafas chiqarish aktida, sabzirang chiziq — qovurg'alar pushti rangda — diafragma, va ko'krak qafasi nafas olish aktida).
Рисунок № 157. Изменение границ плевры при вдохе и выдохе (синяя линия — ребра голубого цвета — диафрагма и грудная клетка, в момент выдоха; оранжевая линия — ребра розового цвета — диафрагма и грудная клетка, в момент вдоха).

- 1 Vertebra [T12]
- 2 Body of sternum
- 3 Manubrium of sternum
- 4 First rib [I]

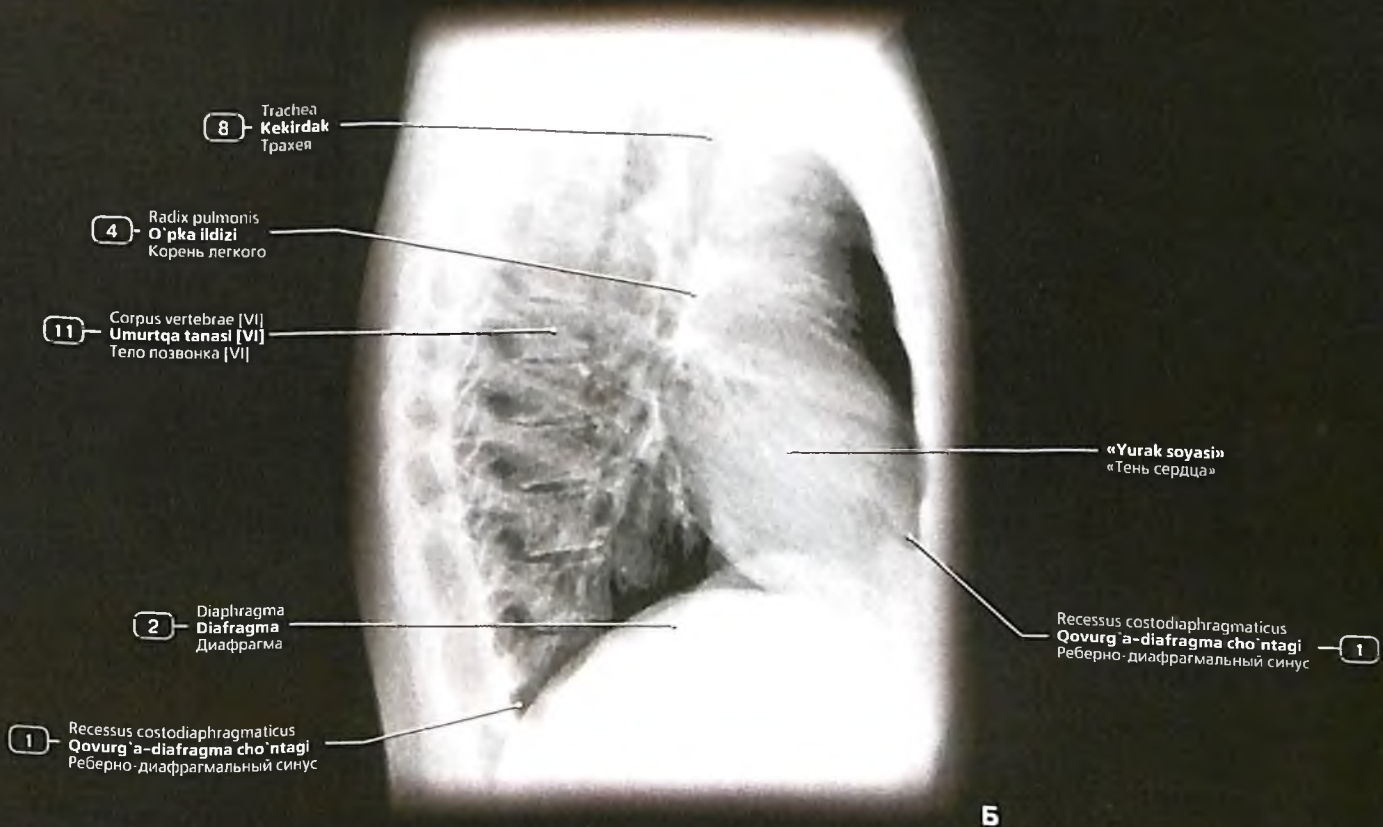
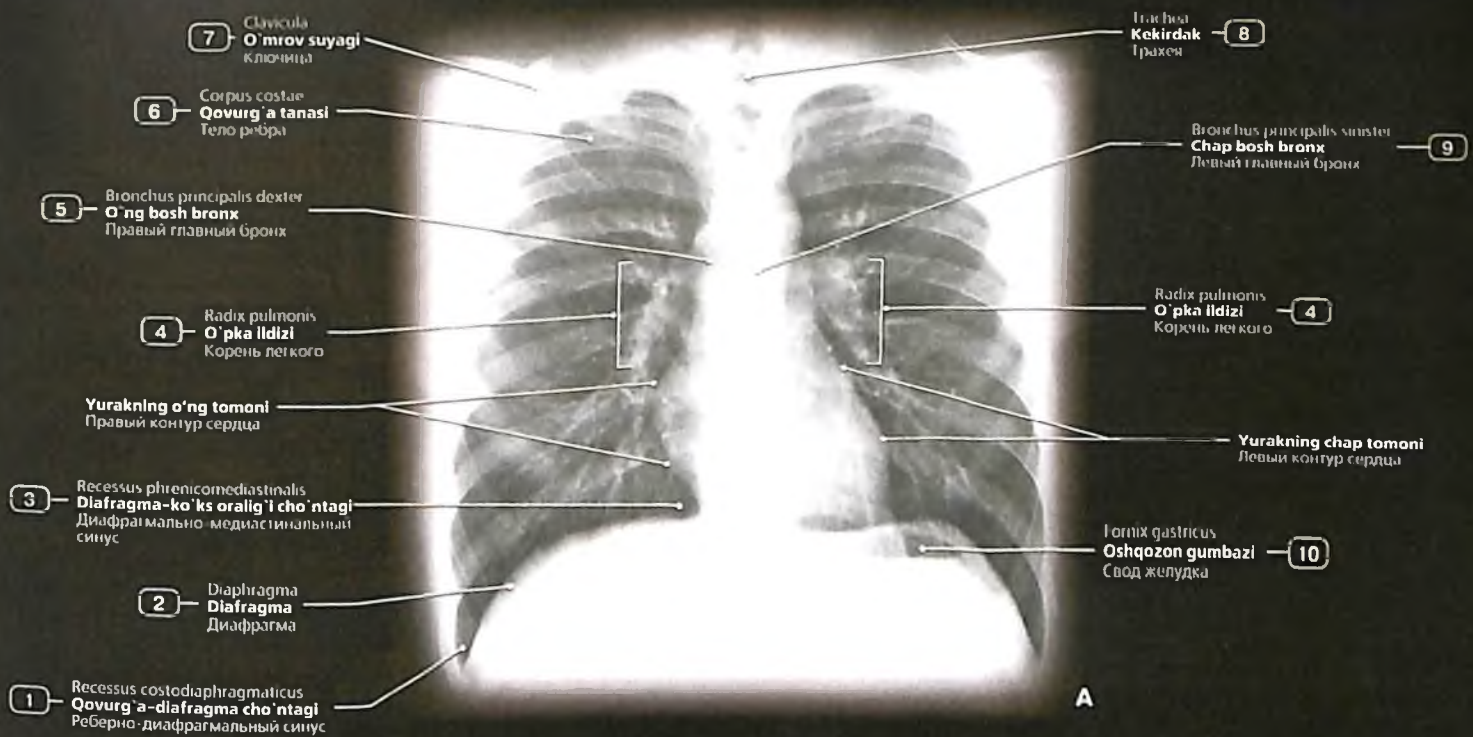


15-jadval. Nafasmushaklari

Nafas olishda qatnashadigan mushaklar	Nafas chiqarishda qatnashadigan mushaklar
Qovurg'alararo tashqi; Diafragma; Narvonimich; To'sh o'rtasidagi ichki mushaq; Kattako'krak mushaq; Kichikko'krak mushaq.	Qovurg'alararo ichki; Diafragma; Qovurg'alararo mushaklari; Kattako'krak mushaq; Kichikko'krak mushaq.

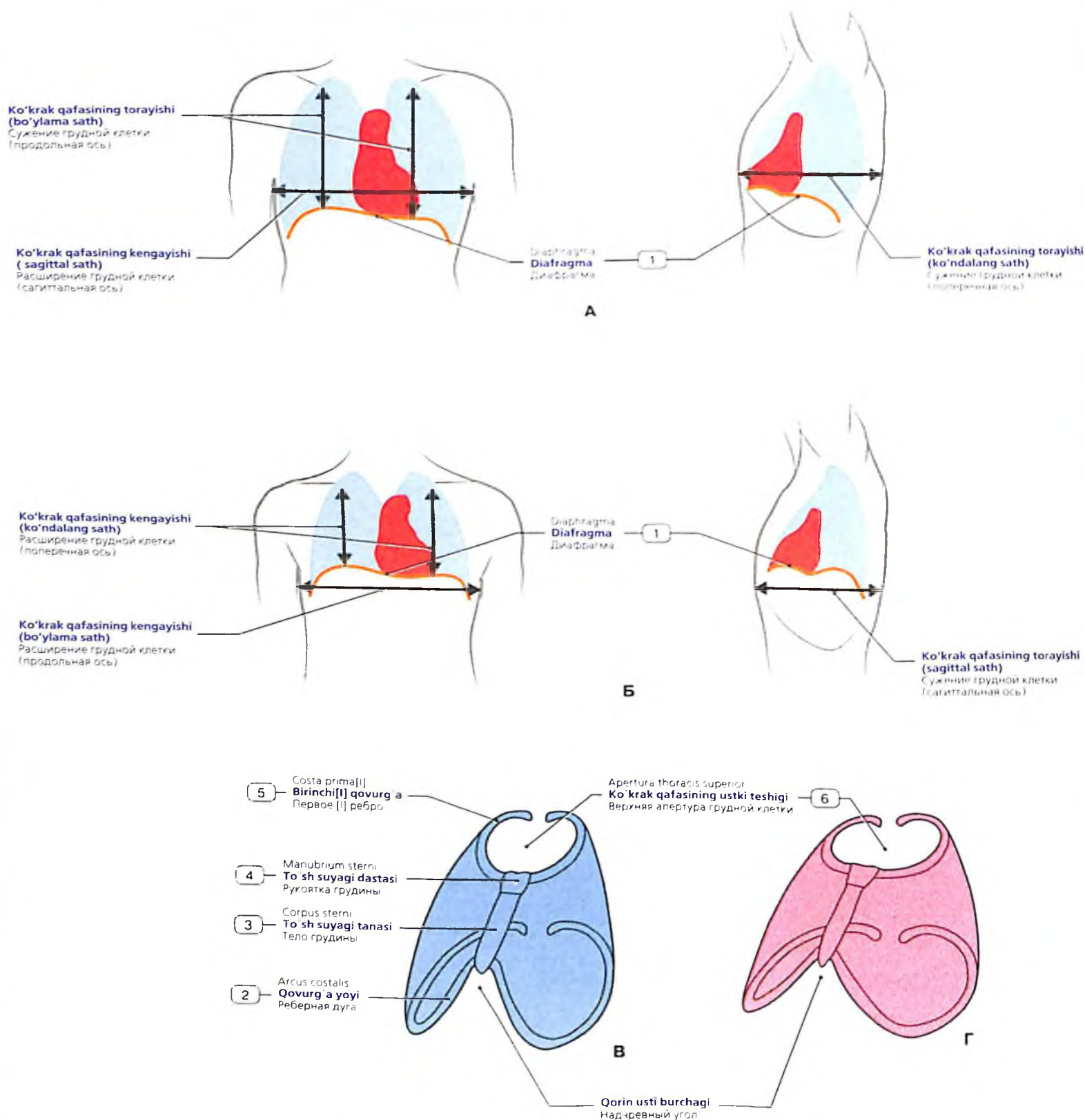
Rasm № 158. O'pkalar va plevraning chegaralari, yon tomondan ko'rinishi.
Рисунок № 158. Границы легких и плевры, вид сбоку.

- 1 Apex pulmonis
- 2 Linea axillaris media
- 3 Lobus superior
- 4 Fissura horizontalis right lung
- 5 Lobus medius right lung
- 6 Fissura obliqua
- 7 Lobus inferior
- 8 Plevra, diafragma part
- 9 Plevra, inferior part
- 10 Plevra, costal part



Rasm № 159. Ko'krak qafasi rentgenogrammasi. Old-orqa (A) va yon (B) proyeksiyalar (A.Y. Vasil'yev bo'yicha).
Рисунок № 159. Рентгенограмма грудной полости. Переднезадняя (А) и боковая (Б) проекции (по А.Ю. Васильеву).

- | | | | |
|-----------------------------|-----------------------------|----------------------|-----------------------|
| 1 Costodiaphragmatic recess | 4 Root of lung | 7 Clavicle | 10 Fornix of stomach |
| 2 Diaphragm | 5 Right main bronchus | 8 Trachea | 11 Vertebra body [VI] |
| 3 Phrenicomedastinal recess | 6 Body of rib; Shaft of rib | 9 Left main bronchus | |



Rasm № 160. Nafas akti mexanikasi [A — nafas olishda ko'krak qafasining kengayishi; B — nafas chiqarishda ko'krak qafasining torayishi; B, Г — nafas olishda (B) va nafas chiqarishda (Г) epigastral burchakning o'zgarishi].
Рисунок № 160. Механика дыхания [A — расширение грудной клетки при вдохе; Б — сужение грудной клетки при выдохе; В, Г — изменение надчревного угла при выдохе (В) и при вдохе (Г)].

1 - Diaphragm
2 - Costal margin / Costal arch

3 - Body of sternum
4 - Manubrium of sternum

5 - First rib[i]
6 - Superior thoracic aperture, Thoracic inlet



URINARY SYSTEM

SIYDIK AYIRISH
A'ZOLARI

МОЧЕВАЯ СИСТЕМА



16-jadval. Siydik ayiruv a'zolari tizimi

SIYDIK AYIRISH A'ZOLARI

TUZILISHI:

VAZIFASI:

Siydik hosil bo'lishi

Buyrak
Nefron
Malpigi tanachalari (kapsula atrofidagi
ajoyib arterial to'r)

Birlamchi siydik filtratsiyasi

Nefronning proksimal qismi

Qayta so'rilish jarayoni: 85% suv va natriy
ioni, oqsil, glukoza, aminokislotalar,
magniy va kaltsiy ionlari, fosfor va
bikarbonatlar, askorbin kislota, sulfatlar;
filtrat izotonik bo'lib qoladi

Genli qovuzlog'ining tushuvchi qismi

Suvning so'rilishi

Qovuzloq (aylanasimon segment)

Filtrat gipertonik bo'lib qoladi

Genli qovuzlog'ining ko'tariluvchi
qismi

Tashqariga natriy va xlor ionlari ajraladi,
ichkariga esa suv va mochevina so'riladi.

Distal to'g'ri kanalchalar

Tashqariga natriy va xlor ionlari ajraladi
filtrat gipotonik bo'ladi.

Nefronning distal qismi

Suv va natriy, magniy va kaltsiy ionlari
tashqariga ajraladi. Siydik izotonik bo'ladi

Siydik yig'uvchi kanalchalar

Suvning so'rilishi davom etadi

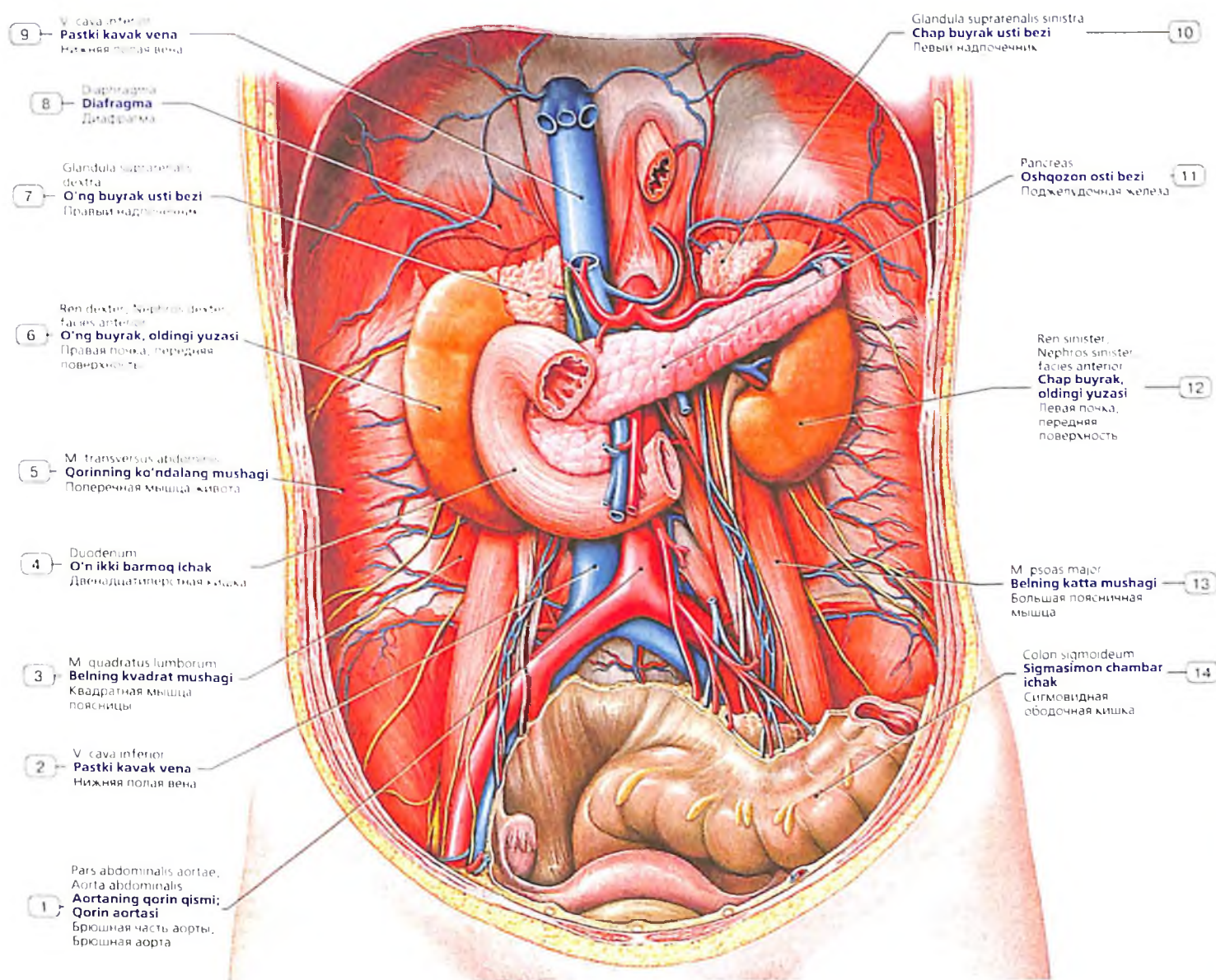
Siydik chiqarilishi

Buyrakning kichik kosachalari
Buyrakning katta kosachalari
Buyrak jomi
Siydik nayi
Siydik pufagi
Siydik chiqaruv kanali

Ayollar

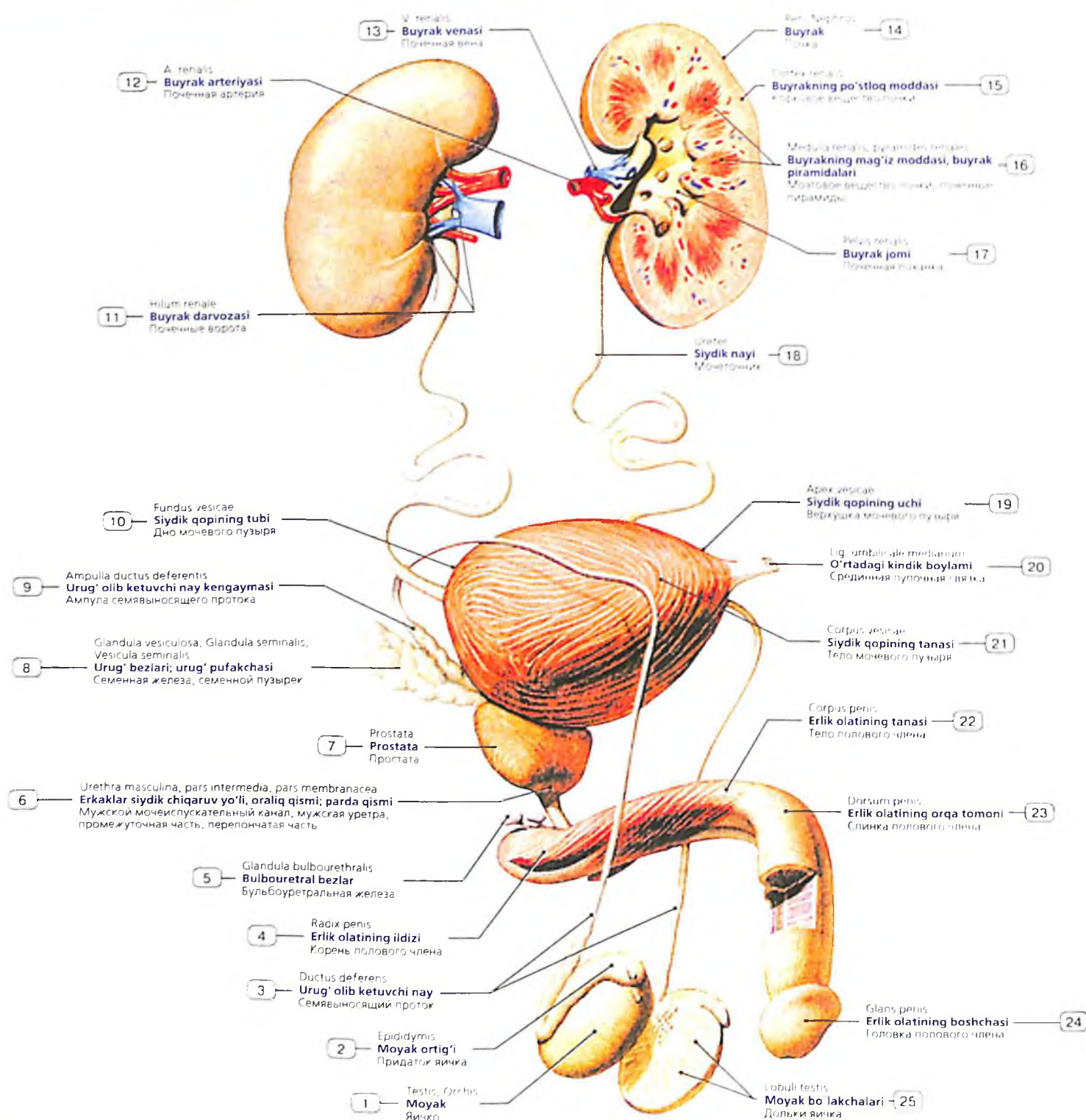
Erkaklar – erkaklar jinsiy (tanosil) a'zolari jadvaliga qarang

Ayollar siydik chiqaruv nayi (ayollar uretrasi)	Ayollar siydik chiqaruv nayining ichki teshigi	
	Ayollar siydik chiqaruv nayining tashqi teshigi	
	Mushak qavati	
	Shilliq qavat	Burmalar Siydik chiqaruv yo'lining ko'lchasi Siydik chiqaruv yo'lining qirrasi



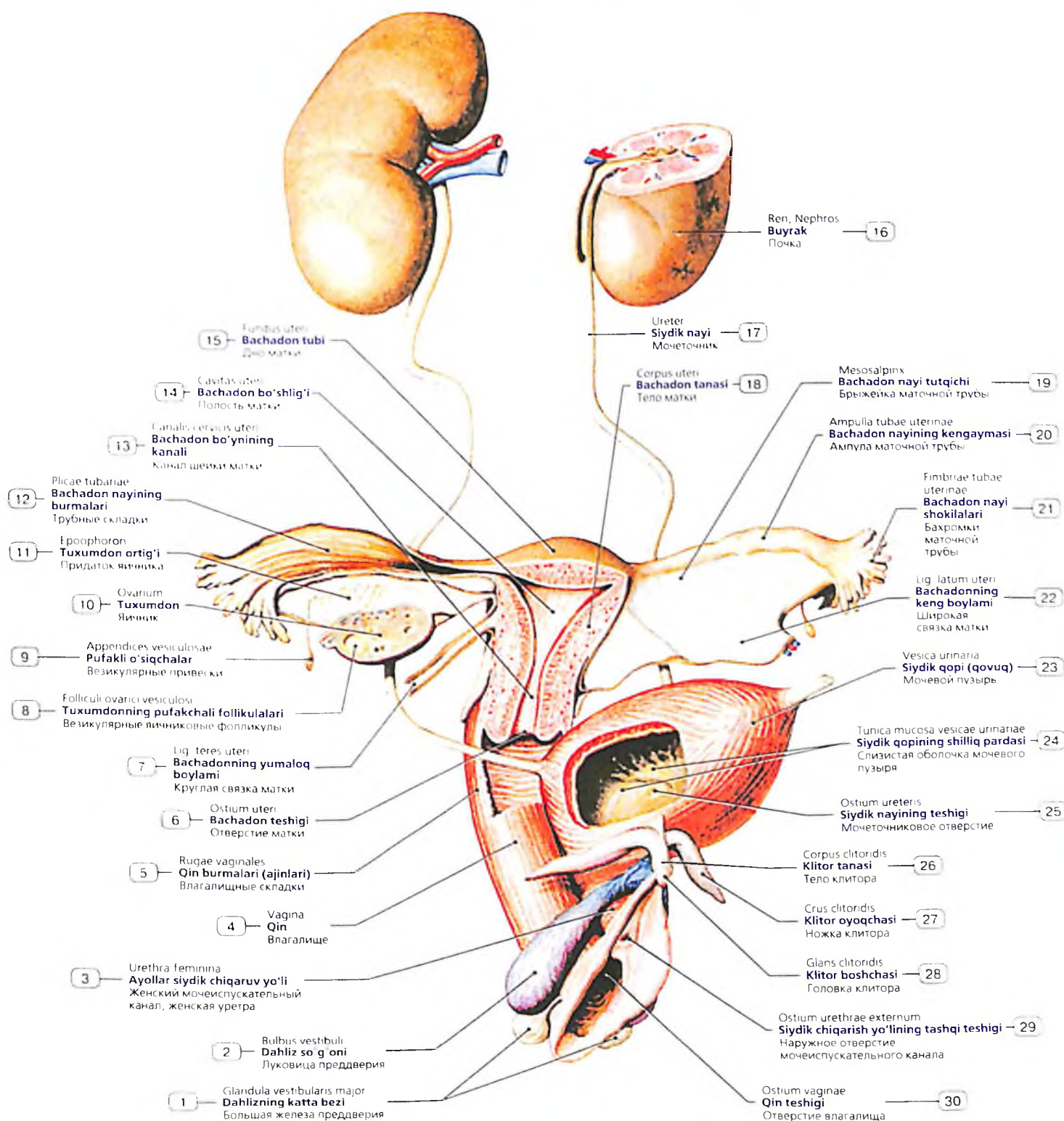
Rasm № 161. Qorin parda orti bo'shlig'i a'zolari.
Рисунок № 161. Органы забрюшинного пространства.

- | | |
|---|--|
| 1 Abdominal aorta | 8 Diaphragm |
| 2 Inferior vena cava | 9 Inferior vena cava |
| 3 Quadratus lumborum | 10 Left suprarenal gland, Left adrenal gland |
| 4 Duodenum | 11 Pancreas |
| 5 Transversus abdominis, Transverse abdominal | 12 Left kidney, anterior surface |
| 6 Right kidney, anterior surface | 13 Psoas major |
| 7 Right suprarenal gland, Right adrenal gland | 14 Sigmoid colon |



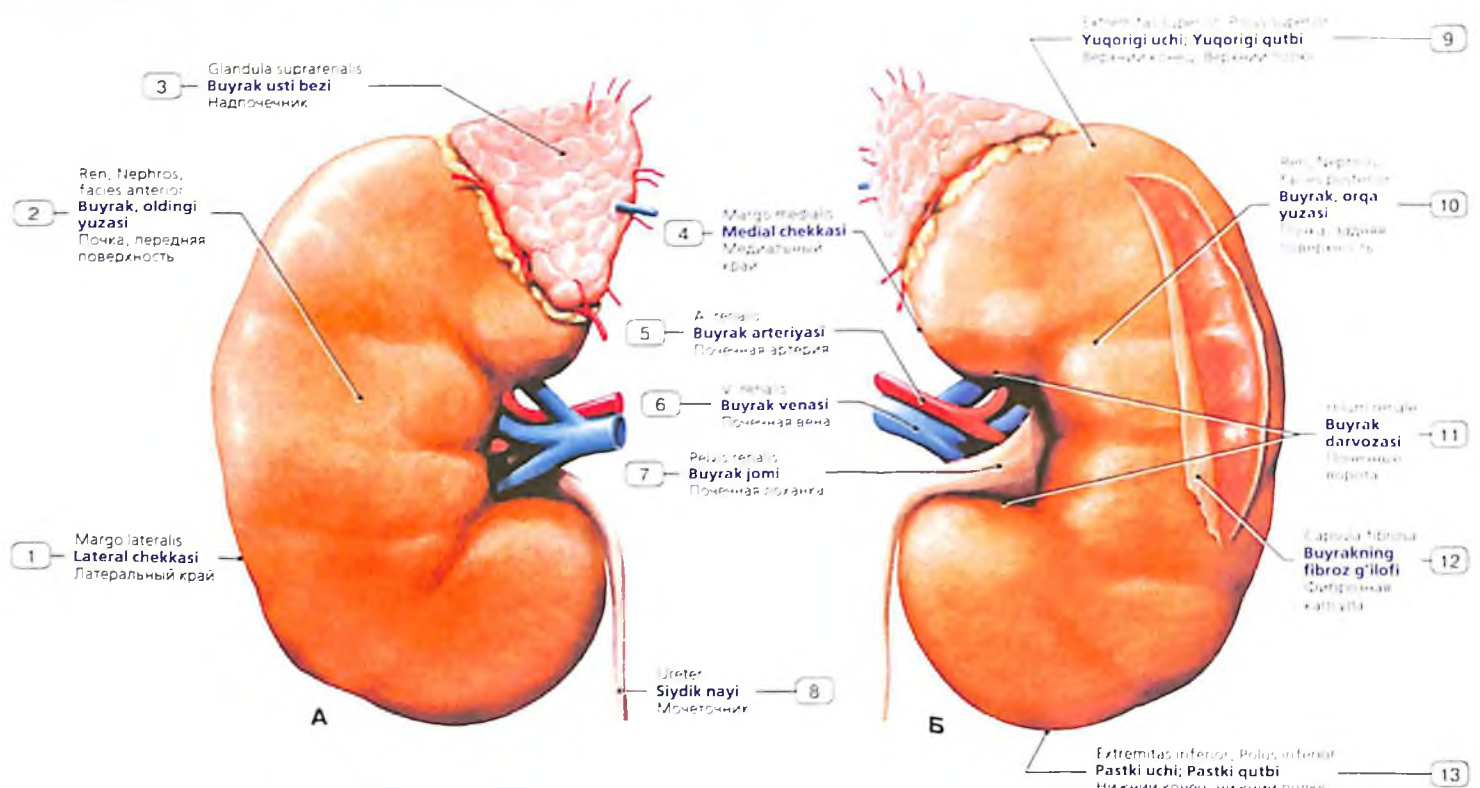
Rasm № 162. Erkaklar siydik-tanosil a'zolari.
Рисунок № 162. Мочеполовой аппарат мужчины.

- | | | | | |
|------------------------|---|-----------------------|-----------------------------------|-----------------------|
| 1. Testis | 6. Male urethra, intermediate part of urethra, membranous urethra | 10. Fundus of bladder | 16. Renal medulla, renal pyramids | 22. Body of penis |
| 2. Epididymis | 7. Prostate | 11. Hilum of kidney | 17. Renal pelvis | 23. Dorsum of penis |
| 3. Ductus deferens | 8. Seminal gland, Seminal vesicle | 12. Renal artery | 18. Ureter | 24. Glans penis |
| 4. Ampulla of penis | 9. Ampulla of ductus deferens | 13. Renal vein | 19. Apex of bladder | 25. Lobules of testis |
| 5. Bulbourethral gland | | 14. Kidney | 20. Median umbilical ligament | |
| | | 15. Renal cortex | 21. Body of bladder | |

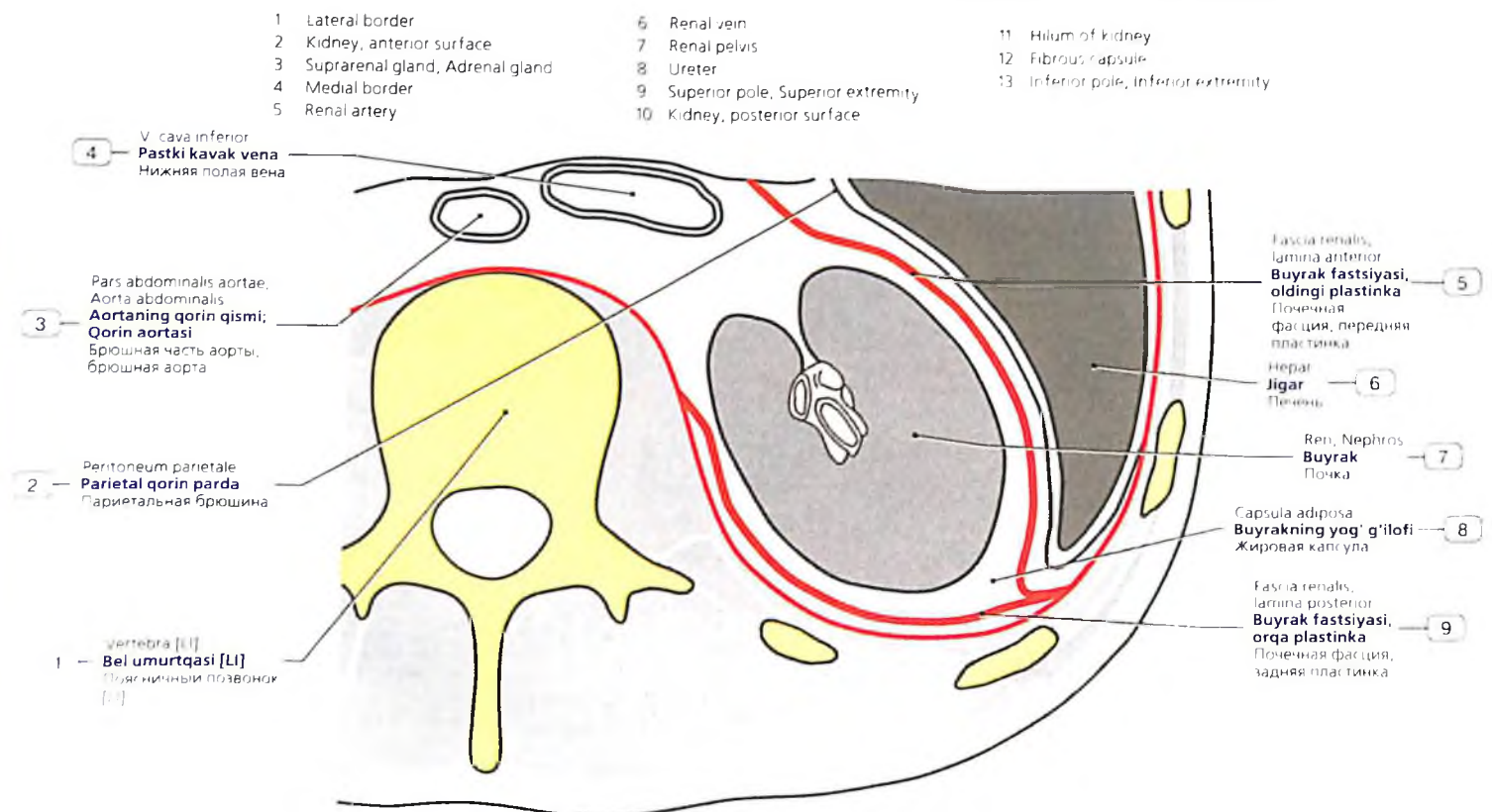


Rasm № 163. Ayollar siydik tanosil a'zolari.
Рисунок № 163. Мочеполовой аппарат женщины.

- | | | | | |
|----------------------------|------------------------------|---------------------|-----------------------------|------------------------------|
| 1 Greater vestibular gland | 8 Vesicular ovarian follicle | 15 Fundus of uterus | 22 Broad ligament of uterus | 28 Glans of clitoris |
| 2 Bulb of vestibule | 9 Vesicular appendices | 16 Kidney | 23 Urinary bladder | 29 External urethral orifice |
| 3 Female urethra | 10 Ovary | 17 Ureter | 24 Urinary bladder mucosa, | 30 Vaginal orifice |
| 4 Vagina | 11 Epoophoron | 18 Body of uterus | mucous membrane | |
| 5 Vaginal rugae | 12 Folds of uterine tube | 19 Mesosalpinx | 25 Ureteric orifice | |
| 6 External os of uterus | 13 Cervical canal | 20 Ampulla | 26 Body of clitoris | |
| 7 Round ligament of uterus | 14 Uterine cavity | 21 Fimbriae | 27 Crus of clitoris | |

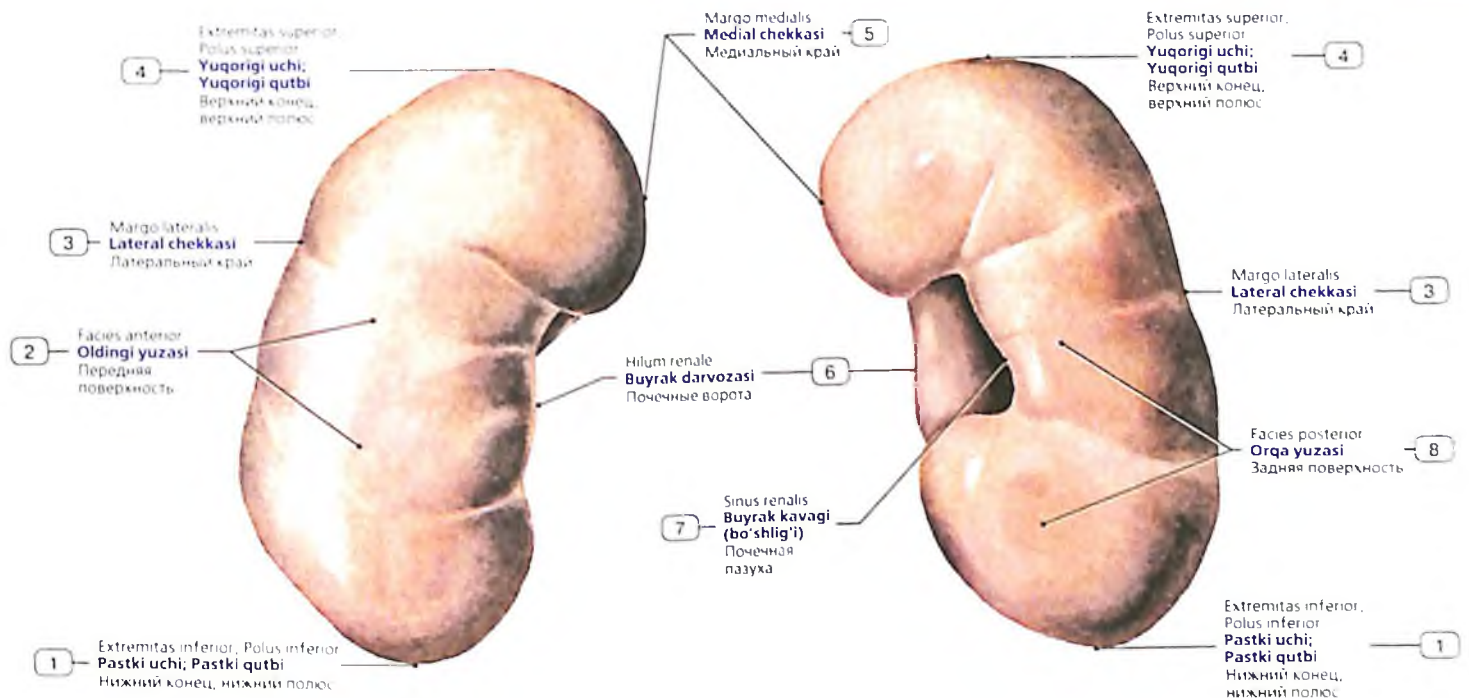


Rasm № 164. O'ng buyrak. Tashqi tuzilishi (A — oldindan ko'rinishi; B — orqadan ko'rinishi).
Рисунок № 164. Правая почка. Наружное строение (A — вид спереди; B — вид сзади).



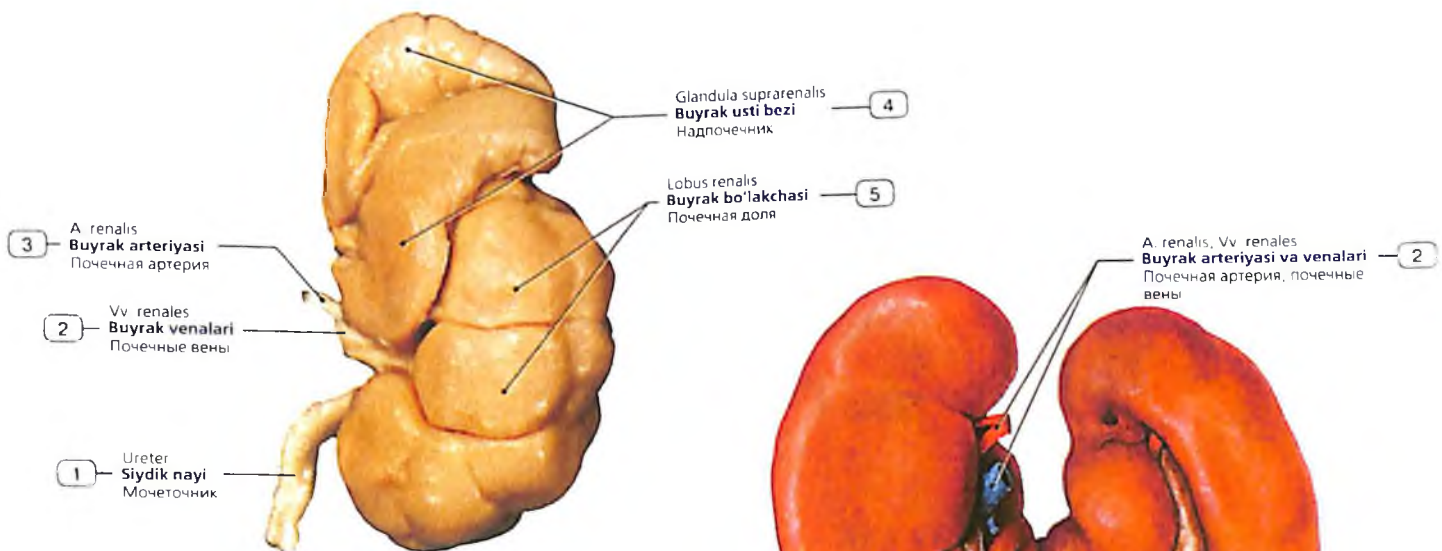
Rasm № 165. Buyrak fastsiyalari va kapsulalari (chizma).
Рисунок № 165. Фасции и капсулы почек (схема).

- | | | |
|------------------------|---------------------------------|---|
| 1. Vertebra [L1] | 4. Inferior vena cava | 7. Kidney |
| 2. Parietal peritoneum | 5. Renal fascia, anterior layer | 8. Perinephric fat, Perirenal fat + capsule |
| 3. Abdominal aorta | 6. Liver | 9. Renal fascia, posterior layer |



Rasm № 166. Buyrak darvozasi.
Рисунок № 166. Почечные ворота.

- | | | |
|-------------------------------------|-------------------------------------|---------------------|
| 1 Inferior pole, Inferior extremity | 4 Superior pole, Superior extremity | 7 Renal sinus |
| 2 Anterior surface | 5 Medial border | 8 Posterior surface |
| 3 Lateral border | 6 Hilum of kidney | |



Rasm № 167. Chaqaloq buyragi.
Рисунок № 167. Почка новорожденного.

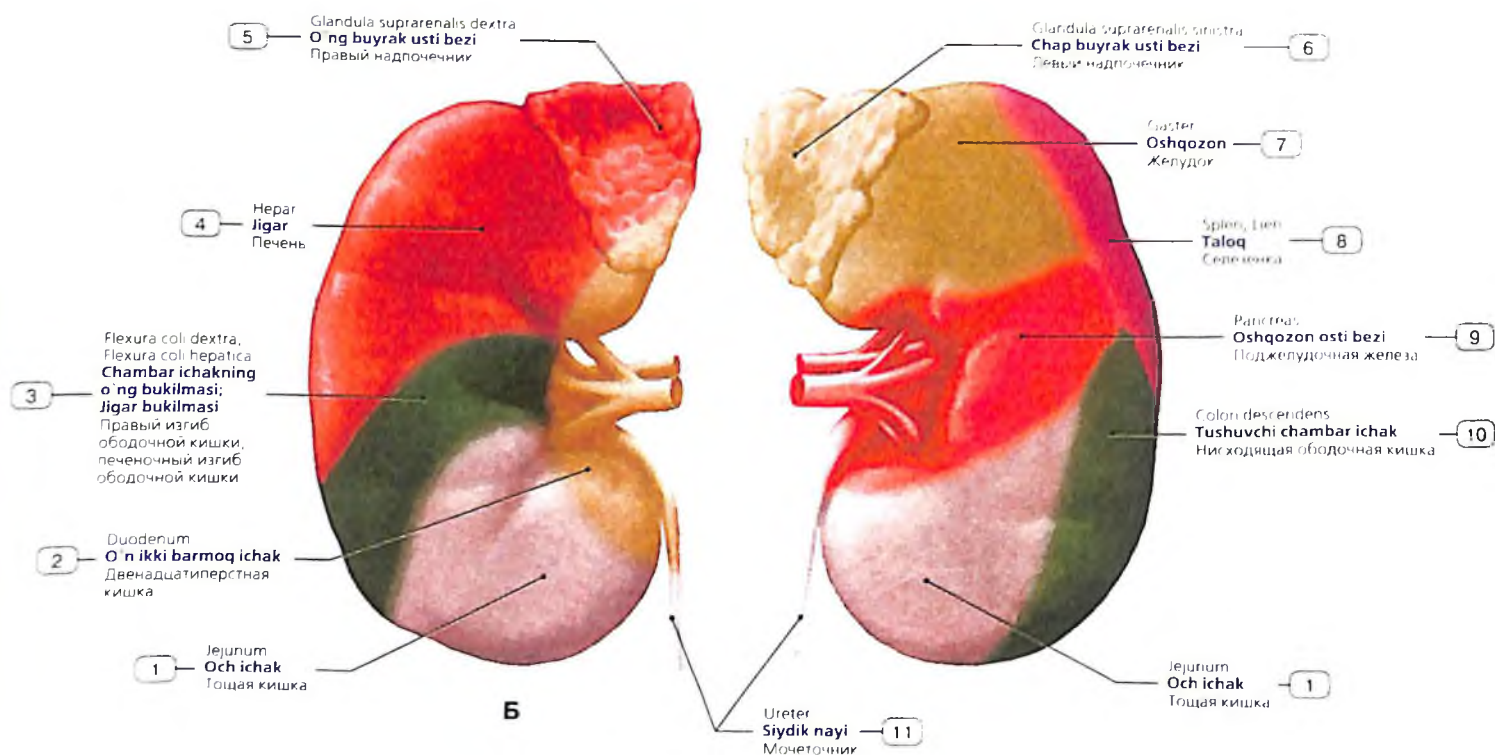
- | | |
|----------------|-----------------------------------|
| 1 Ureter | 4 Suprarenal gland, Adrenal gland |
| 2 Renal veins | 5 Renal proportion |
| 3 Renal artery | |

Rasm № 168. Taqasimon buyrak.
Рисунок № 168. Подковообразная почка.

- | | |
|----------|-----------------------------|
| 1 Ureter | 2 Renal artery, Renal veins |
|----------|-----------------------------|

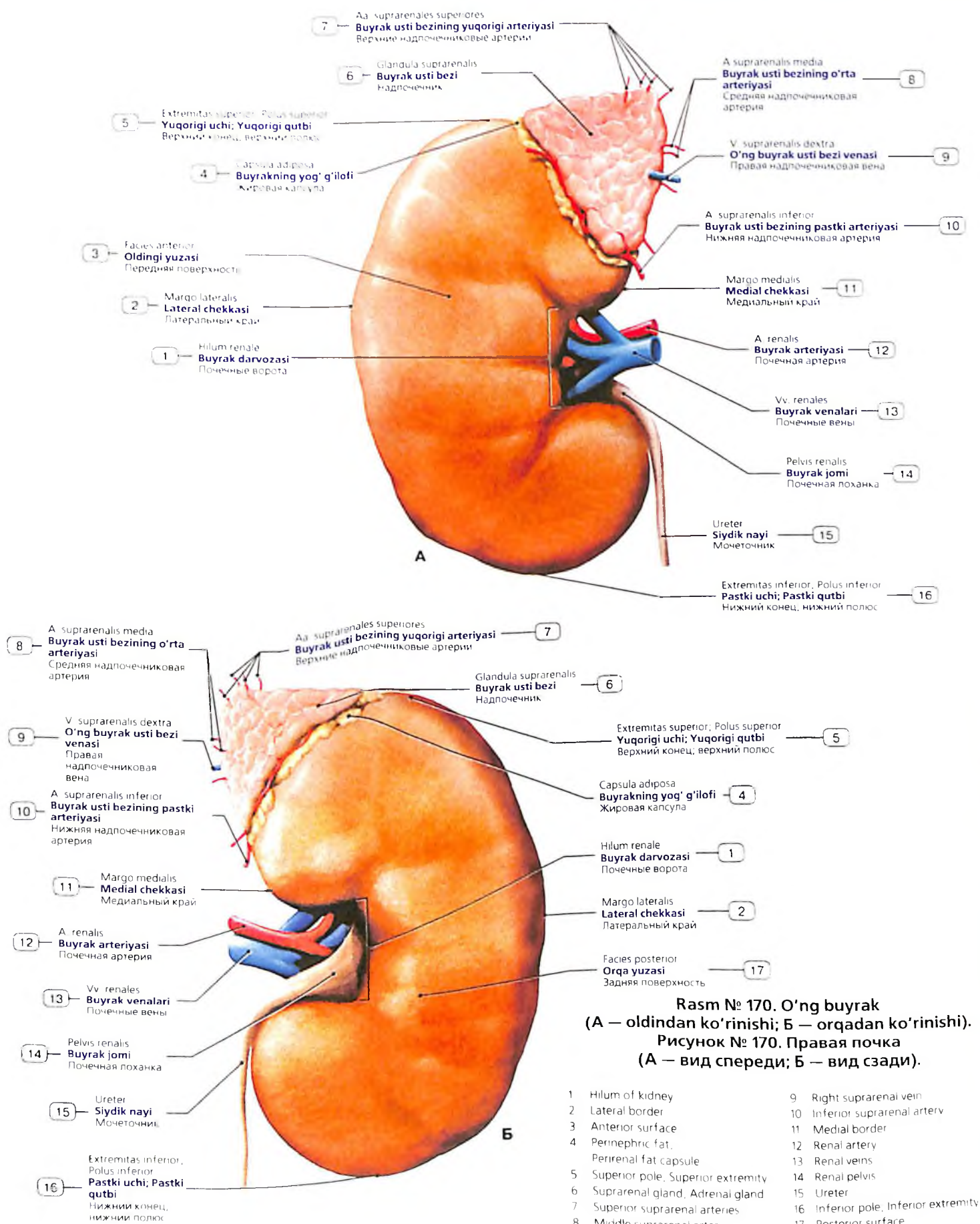


A



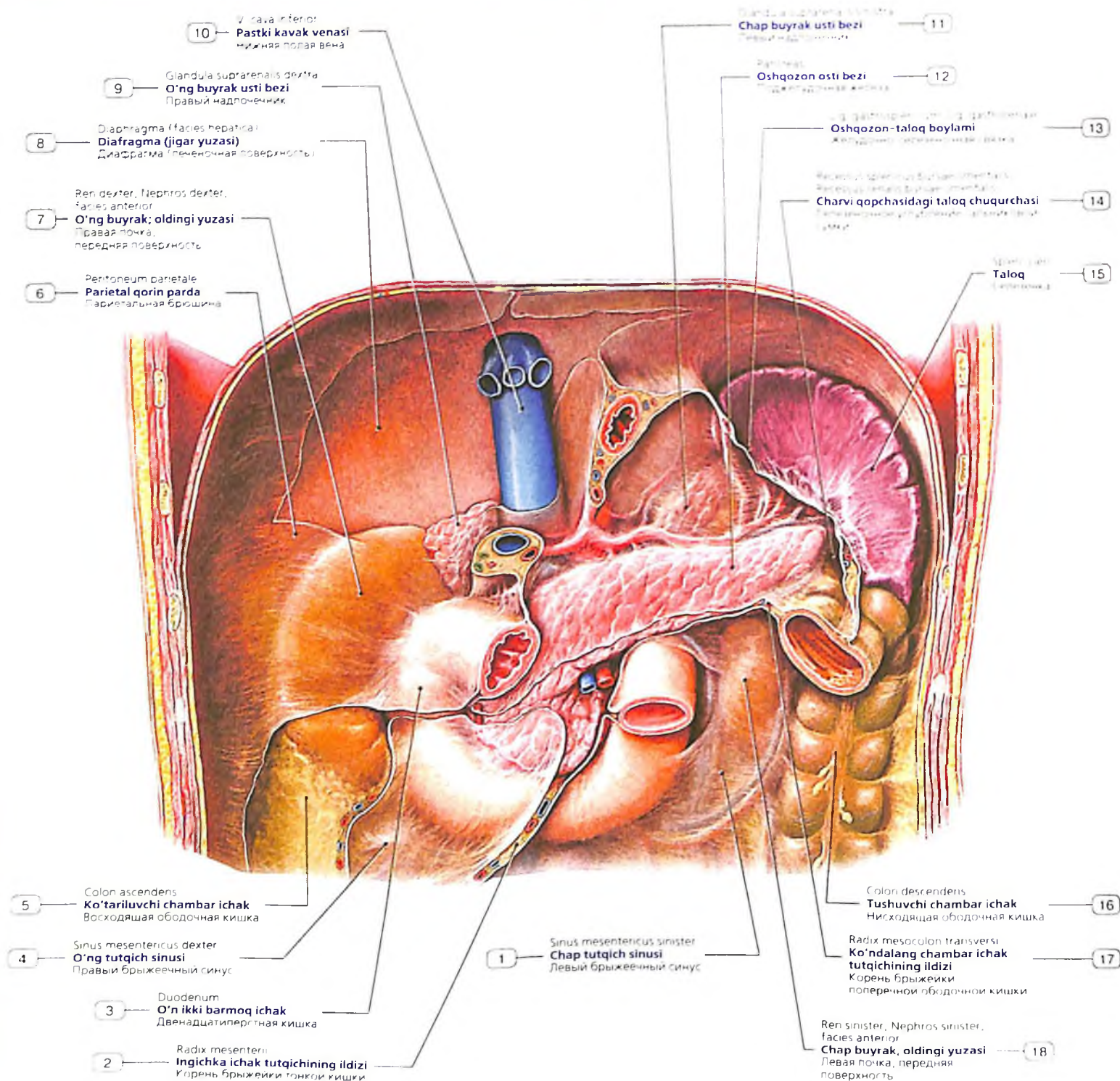
Rasm № 169. Buyraklar (A — buyraklar skeletotopiyasi; B — o'ng va chap buyraklarning sintopiyasi, * yonma-yon joylashgan a'zolarning kontakt yuzasining chegarasi).
Рисунок № 169. Почка (А — скелетотопия почек; Б — синтопия правой и левой почек, * граница контактной поверхности прилежащих органов).

- | | | |
|---|--|---------------------|
| 1 Jejunum | 5 Right suprarenal gland,
Right adrenal gland | 8 Spleen |
| 2 Duodenum | 6 Left suprarenal gland,
Left adrenal gland | 9 Pancreas |
| 3 Right colic flexure,
Hepatic flexure | 7 Stomach | 10 Descending colon |
| 4 Liver | | 11 Ureter |



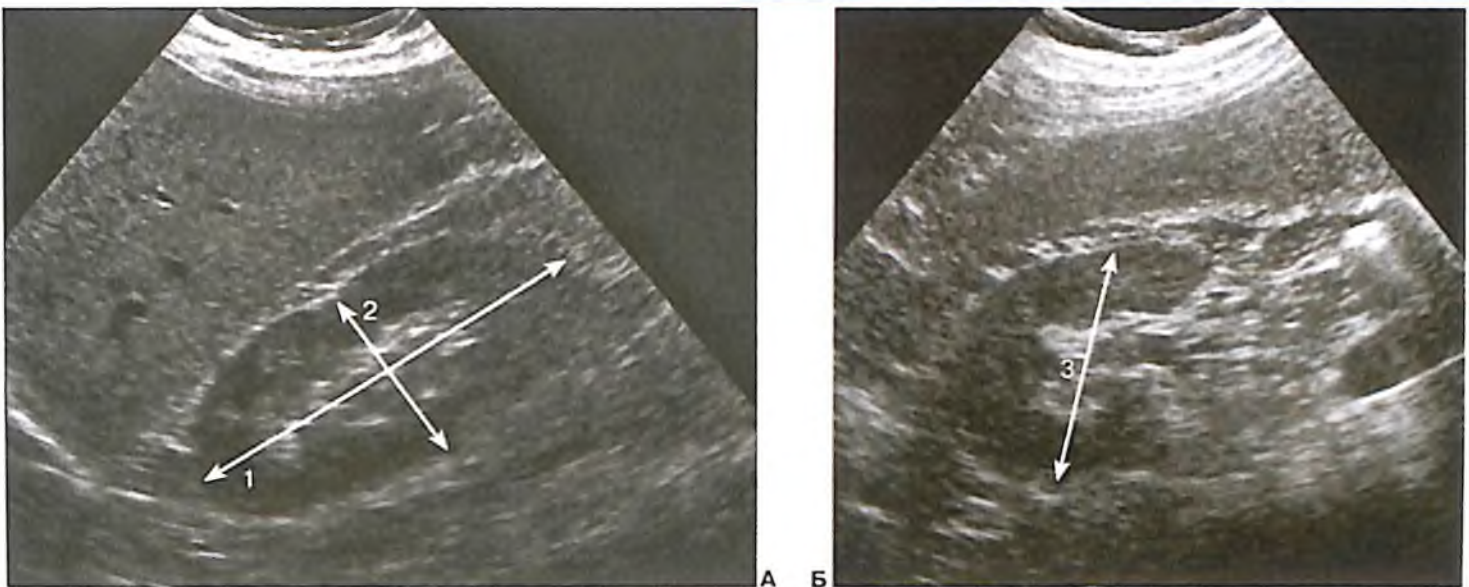
Rasm № 170. O'ng buyrak
(A — oldindan ko'rinishi; B — orqadan ko'rinishi).
Рисунок № 170. Правая почка
(A — вид спереди; B — вид сзади).

- | | |
|--|--------------------------------------|
| 1 Hilum of kidney | 9 Right suprarenal vein |
| 2 Lateral border | 10 Inferior suprarenal artery |
| 3 Anterior surface | 11 Medial border |
| 4 Perinephric fat, Perirenal fat capsule | 12 Renal artery |
| 5 Superior pole, Superior extremity | 13 Renal veins |
| 6 Suprarenal gland, Adrenal gland | 14 Renal pelvis |
| 7 Superior suprarenal arteries | 15 Ureter |
| 8 Middle suprarenal artery | 16 Inferior pole, Inferior extremity |
| | 17 Posterior surface |

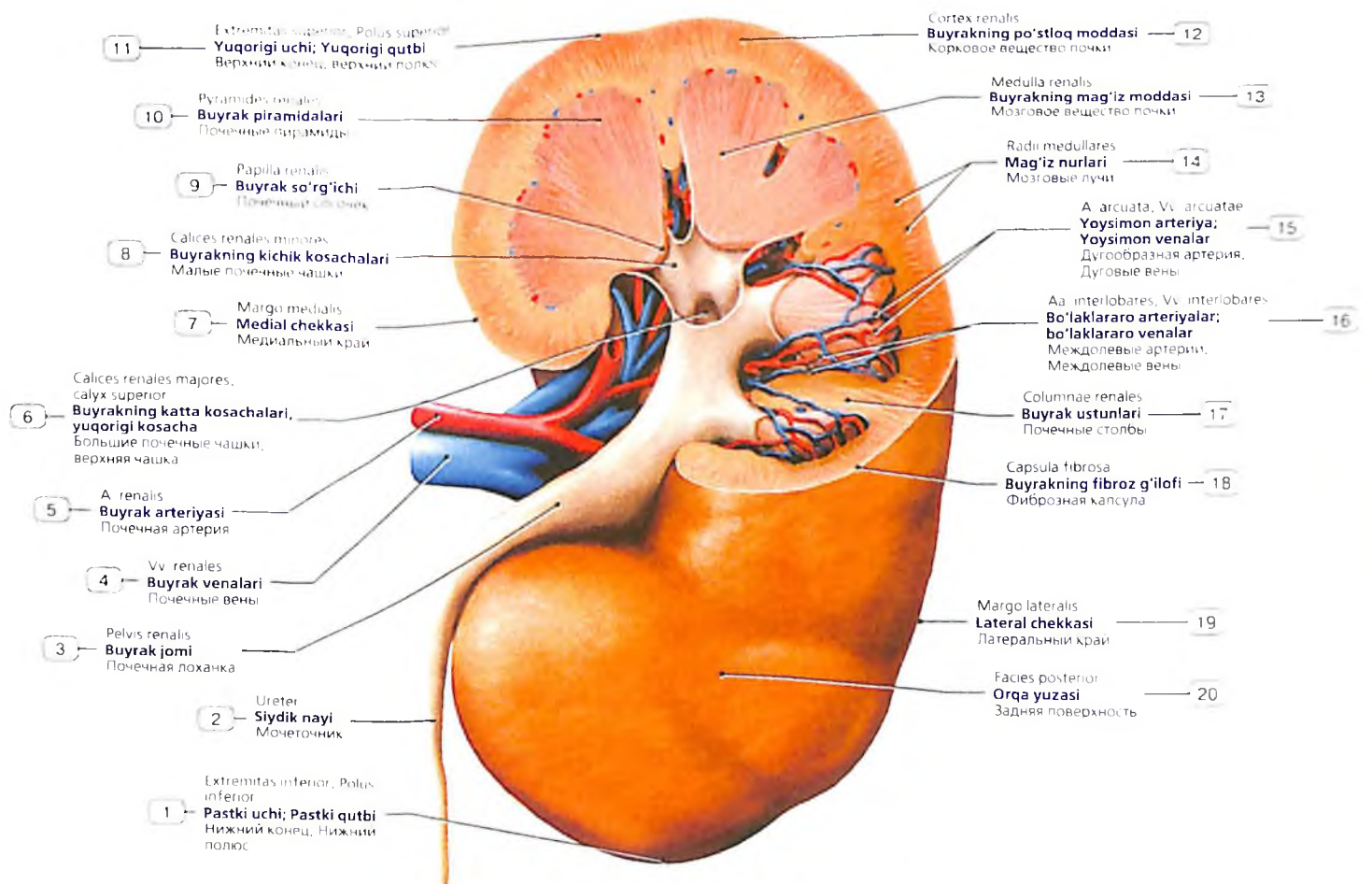


Rasm № 171. Buyraklarning qorin parda va qo'shni a'zolarga nisbatan joylashuvi.
Рисунок № 171. Почка. Отношение к брюшине и соседним органам.

- | | | | |
|-----------------------------|---|--|----------------------------------|
| 1 Left recess of mesentery | 7 Right kidney, anterior surface | 11 Left suprarenal gland, Left adrenal gland | 15 Spleen |
| 2 Right recess of mesentery | 8 Diaphragm (hepatic surface) | 12 Pancreas | 16 Descending colon |
| 3 Duodenum | 9 Right suprarenal gland, Right adrenal gland | 13 Gastrosplenic ligament | 17 Root of transverse mesocolon |
| 4 Right recess of mesentery | 10 Inferior vena cava | 14 Splenic recess of omental bursa, Splenic recess of lesser sac | 18 Left kidney, anterior surface |
| 5 Descending colon | | | |
| 6 Parietal peritoneum | | | |

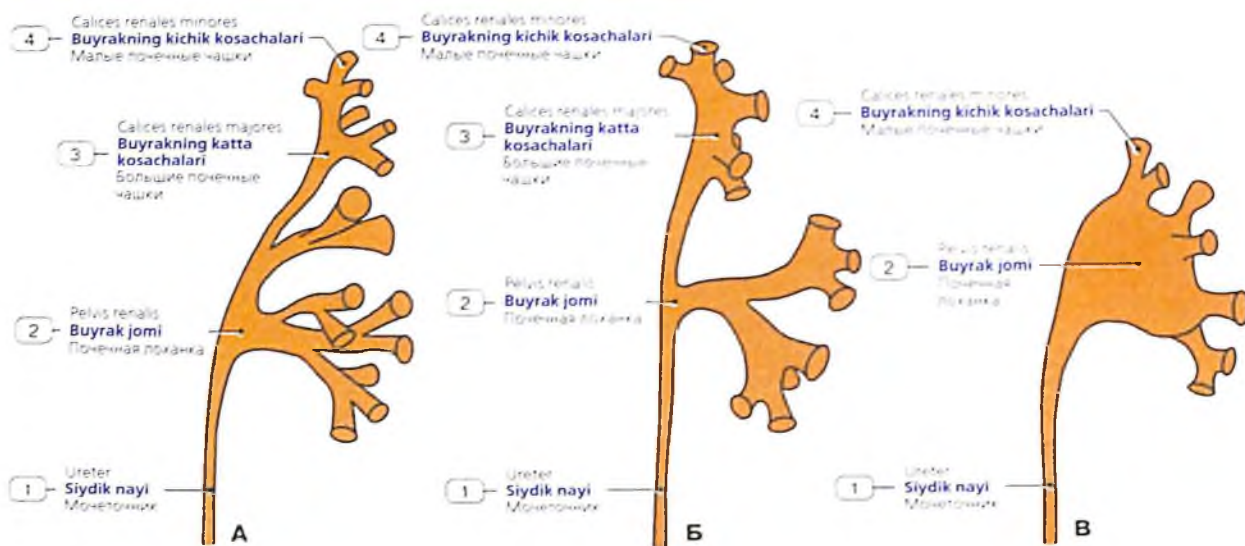


Rasm № 172. O'ng buyrak ultratovush tekshiruvi (A) rejimda bo'ylama va (B) ko'ndalang skanirlash, B-holat, buyrak o'lchamlarini o'lchash (S.K. Ternov bo'yicha).
Рисунок № 172. УЗИ правой почки, продольное (А) и поперечное (Б) сканирование, В-режим, измерение размеров почки (по С.К. Терновому).

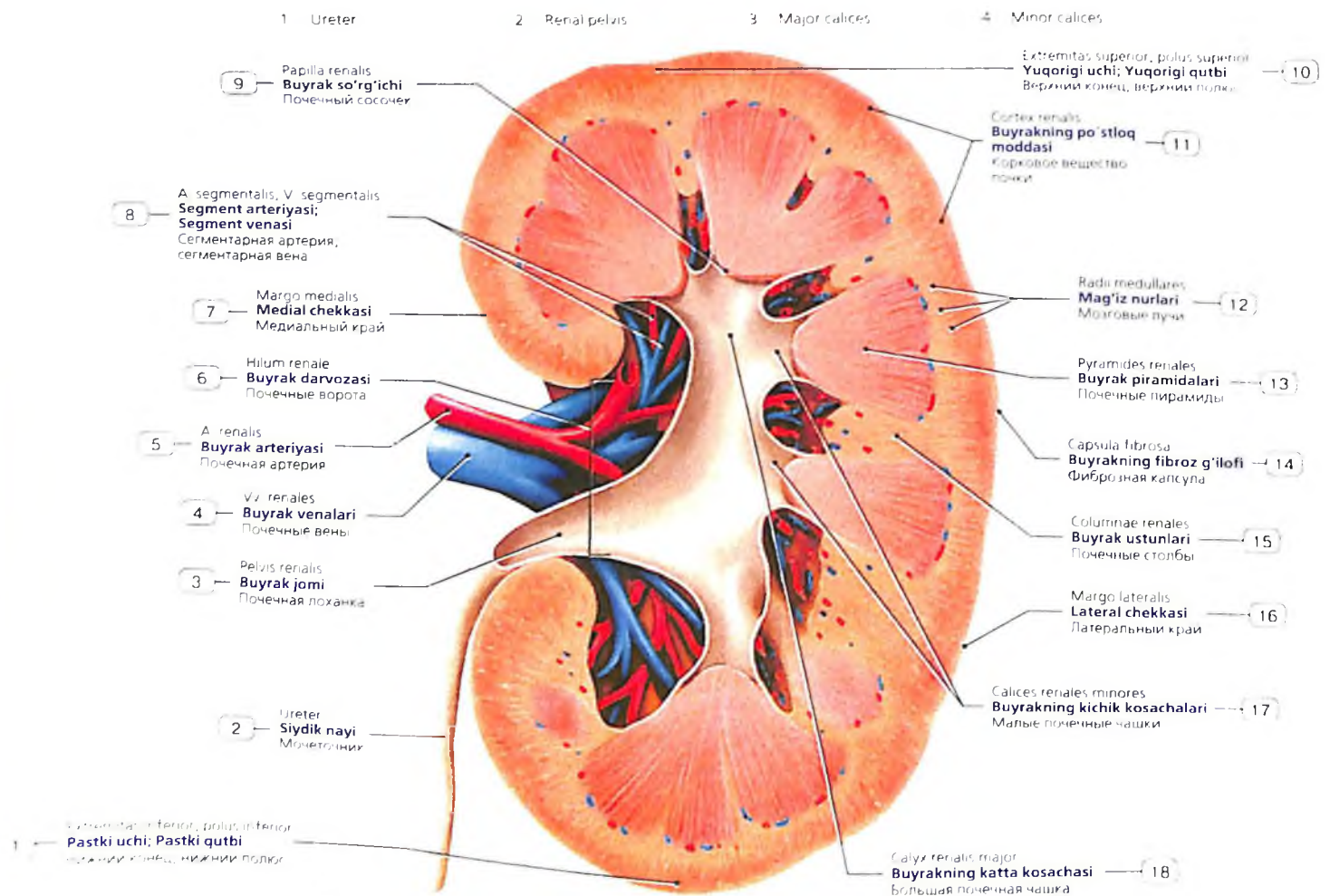


Rasm № 173. Buyrakning po'stloq va mag'iz moddalari, buyrak kosachalari, buyrak jomi.
Рисунок № 173. Кортиковое вещество и мозговое вещество почки, почечные чашки, почечная лоханка.

- | | | | | |
|-------------------------------------|---------------------------------|--------------------------------------|--|----------------------|
| 1 Inferior pole, Inferior extremity | 5 Renal artery | 10 Renal pyramids | 14 Medullary rays | 17 Renal columns |
| 2 Ureter | 6 Major calices, superior calyx | 11 Superior pole, Superior extremity | 15 Arcuate artery, Arcuate veins | 18 Fibrous capsule |
| 3 Renal pelvis | 7 Medial border | 12 Renal cortex | 16 Interlobar arteries, Interlobar veins | 19 Lateral border |
| 4 Renal veins | 8 Minor calices | 13 Renal medulla | | 20 Posterior surface |
| | 9 Renal papilla | | | |

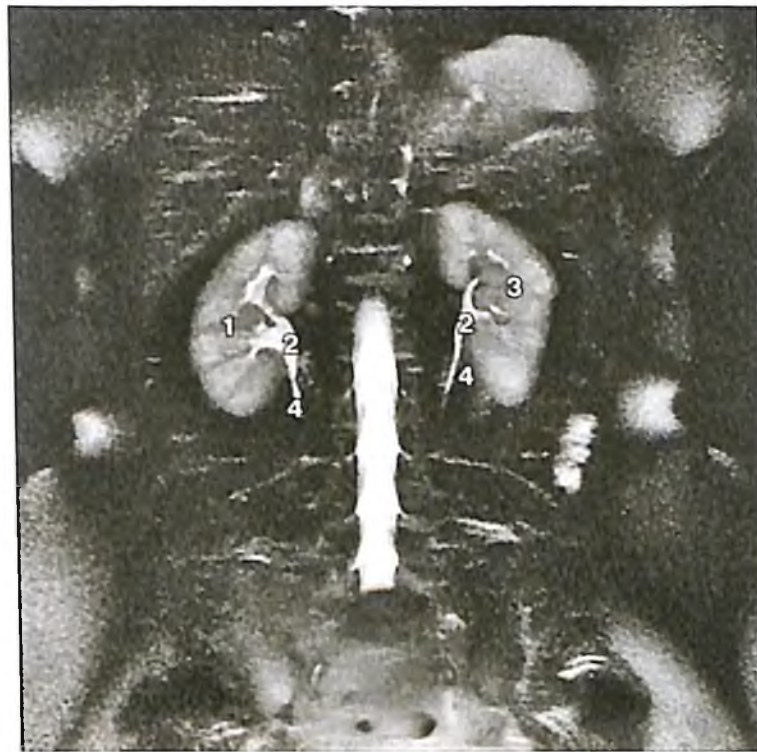


Rasm № 174. Buyrak kosachalari va buyrak jomining tuzilish variantlari
(A — yetilgan shakl; B — fetal shakl; V — embrional shakl).
Рисунок № 174. Варианты строения почечных чашек и почечной лоханки
(A — зрелая форма; B — фетальная форма; V — эмбриональная форма).



Rasm № 175. Buyrakning po'stloq va mag'iz moddalari, buyrakning frontal kesimi.
Рисунок № 175. Кортиковое вещество и мозговое вещество почки, фронтальный разрез почки.

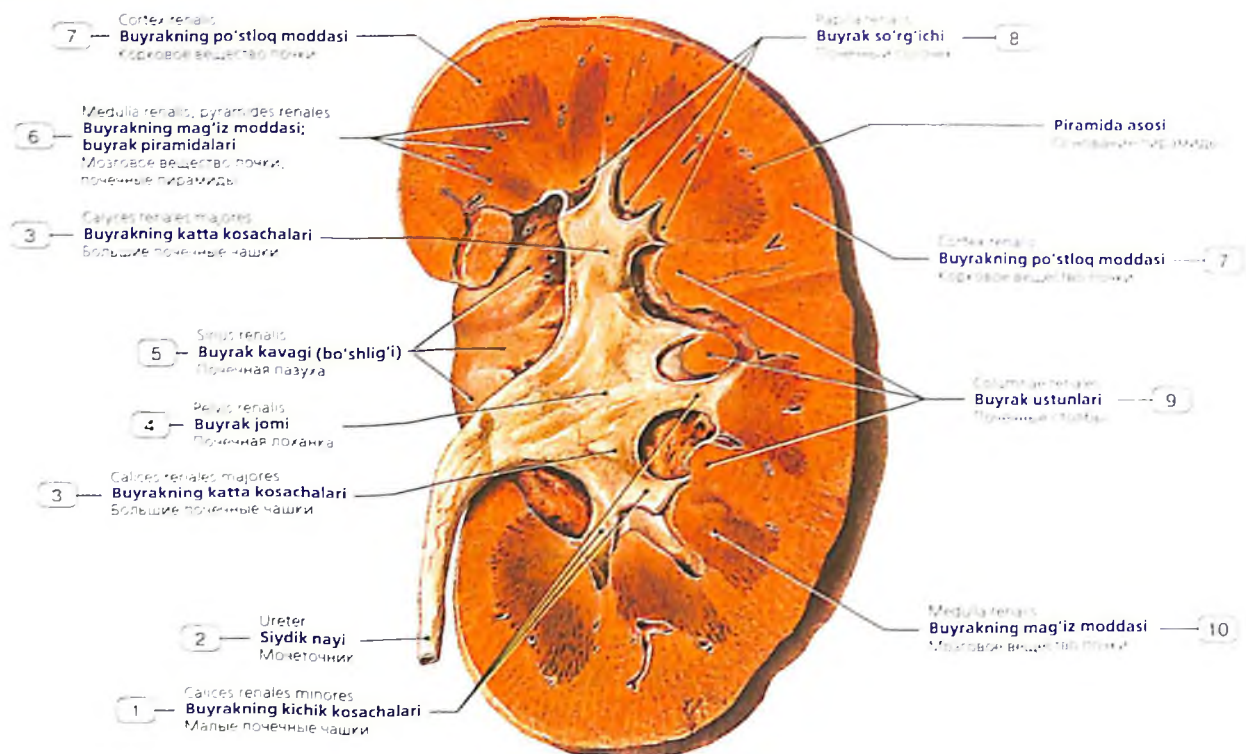
- | | | | | | |
|--------------------------------------|--------------------|-------------------------------------|---------------------------------------|---------------------|-------------------|
| 1. Superior pole, superior extremity | 4. Renal veins | 8. Segmental artery, Segmental vein | 10. Superior pole, Superior extremity | 14. Fibrous capsule | 17. Minor calices |
| 2. Inferior pole, inferior extremity | 5. Renal artery | 9. Renal papilla | 11. Renal cortex | 15. Renal columns | 18. Major calyx |
| 3. Hilum | 6. Hilum of kidney | | 12. Medullary ray | 16. Lateral border | |
| 7. Medial border | | | | | |



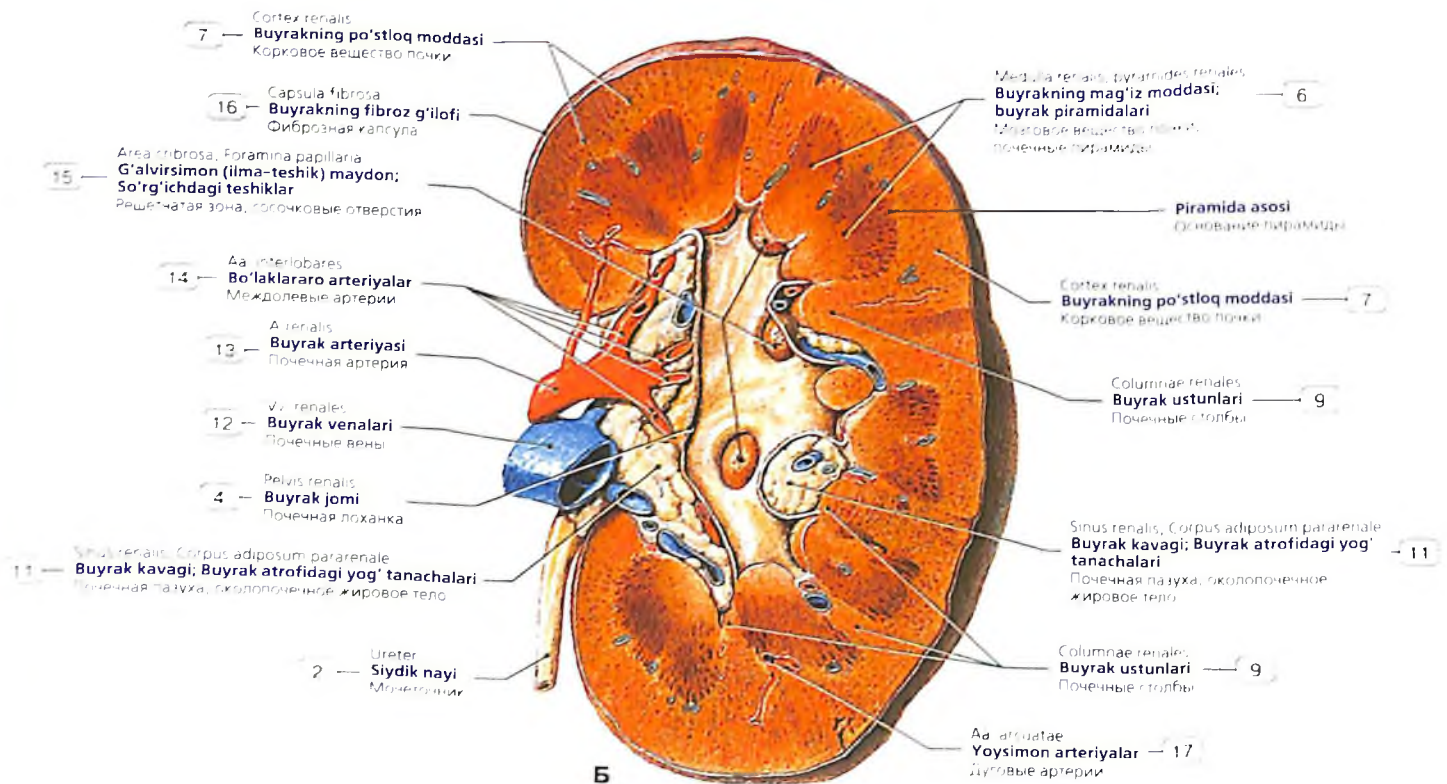
Rasm № 176. MR-xolangiografiya (magnit-rezonansli tomografiya) (S.K.Ternov bo'yicha).
Рисунок № 176. МР-холангиография (магнитно-резонансная томография) (по С.К. Терновому).



Rasm № 177. Kontrast moddani vena ichiga yuborish yo'li bilan qorin aortasi MR-angiografiyasi
(magnit-rezonansli tomografiya) (S.K. Ternov bo'yicha).
Рисунок № 177. МР-ангиография брюшного отдела аорты с внутривенным введением контрастного вещества
(магнитно-резонансная томография) (по С.К. Терновому).

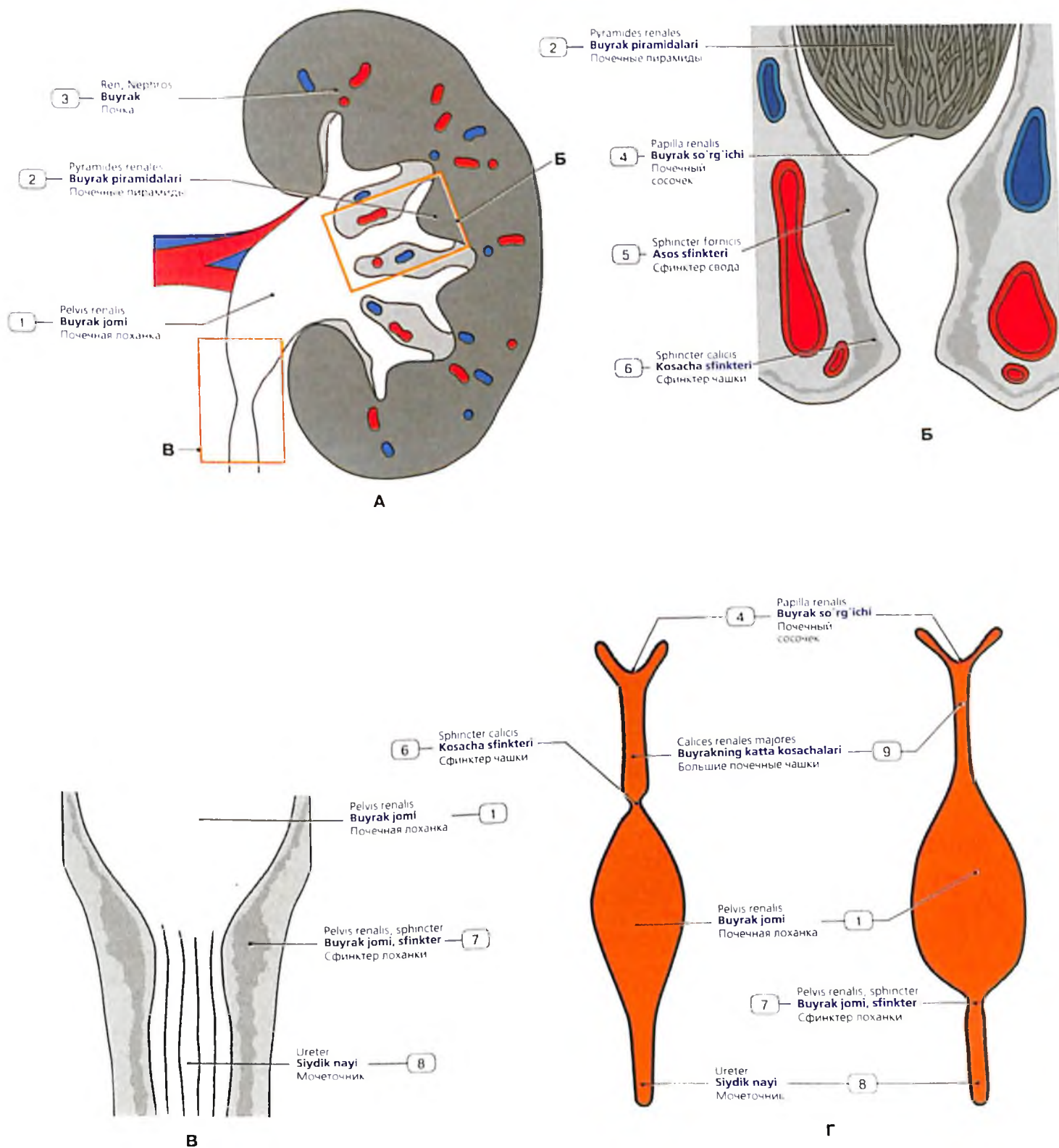


A



B

Rasm № 178. Buyrakning po'stloq va mag'iz moddalari, buyrakning frontal kesimi (A — buyrak kosachalari va buyrak jomi saqlangan; B — buyrak jomi olib tashlangan).
Рисунок № 178. Кортиковое вещество и мозговое вещество почки, фронтальный разрез почки (А — почечные чашки и почечная лоханка сохранены; Б — почечная лоханка удалена).



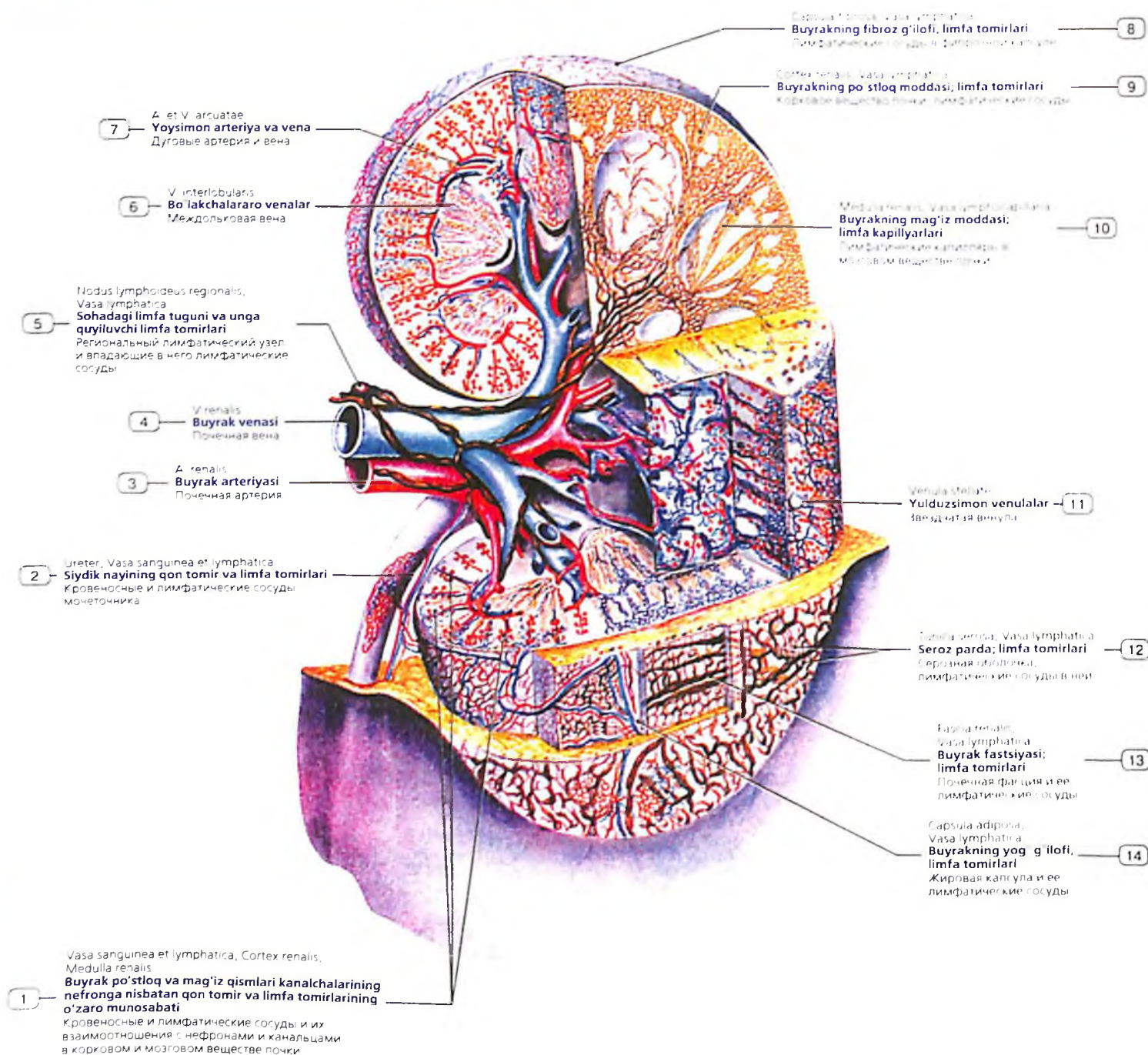
Rasm № 179. Buyrakdan siydik ajralishi (A — buyrak kosachalari va buyrak jomi; B — buyrak so'rg'ichi, gumbaz va kosachalar sfinkterlari; B — buyrak jomi sfinkteri; Г — buyrak jomi va buyrak kosachasi sfinkterlarining ishlash mexanizmlari) (chizma).
Рисунок № 179. Выделение мочи из почки (А — почечные чаши и почечная лоханка; Б — почечный сосочек, сфинктеры свода и чаши; В — сфинктер почечной лоханки и почечной чаши) (схема).

1 Renal pelvis
2 Renal pyramids
3 Kidney

4 Renal papilla
5 Sphincter formicis
6 Sphinter calicis

7 Renal pelvis, sphincter
8 Ureter
9 Major calices

МОЧЕВАЯ СИСТЕМА

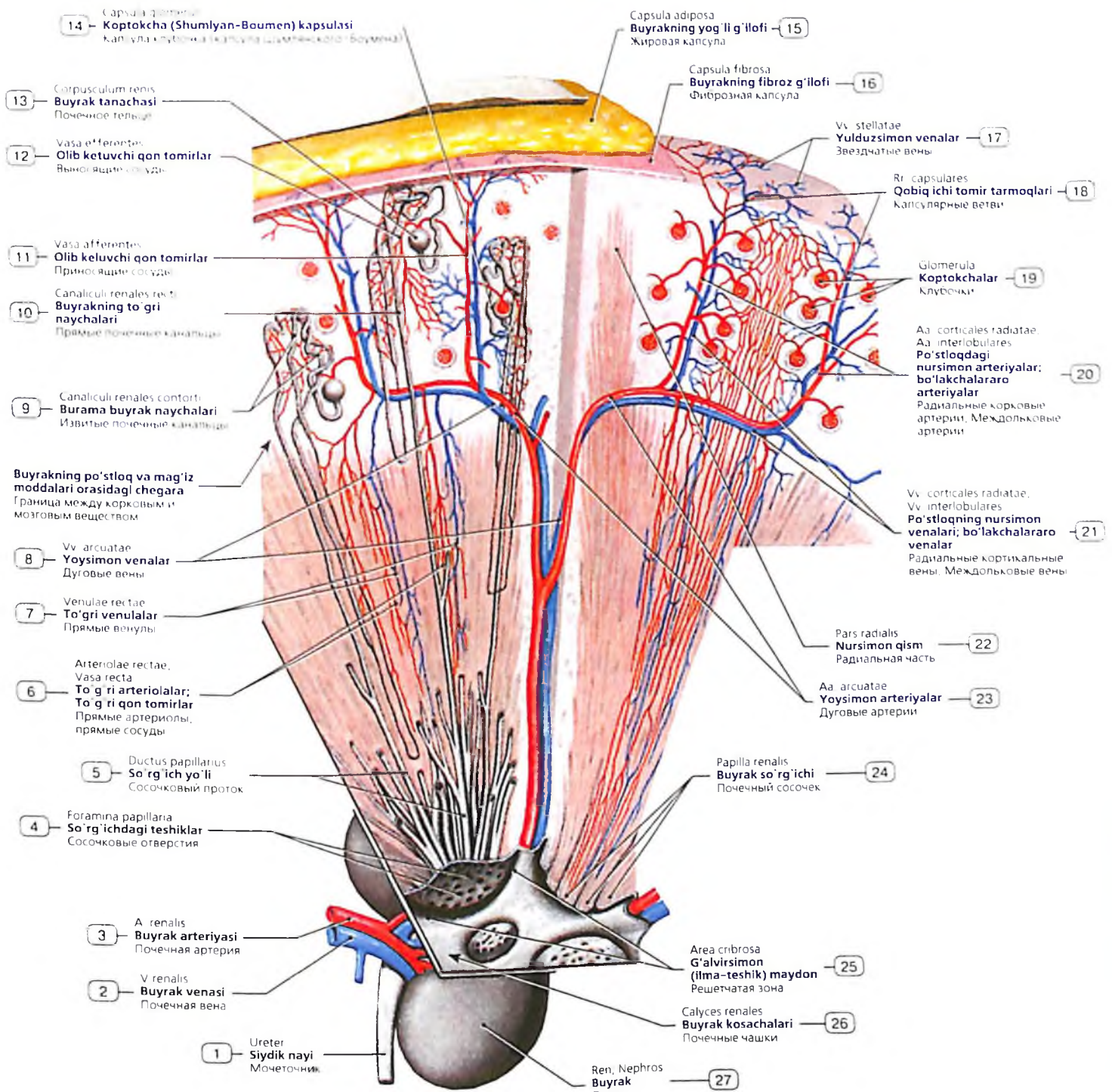


Rasm № 180. Buyraklar qon va limfa tomirlarining o'zaro joylashuvi (V.Ya.Bocharov rasmi).
Рисунок № 180. Взаимоотношения кровеносных и лимфатических сосудов почки (рисунок В.Я. Бочарова).

1. Blood and lymphatic vessels, Renal cortex, Renal medulla
2. Ureter, Blood and lymphatic vessels
3. Renal artery
4. Renal vein
5. Regional lymph node, lymphatic vessels

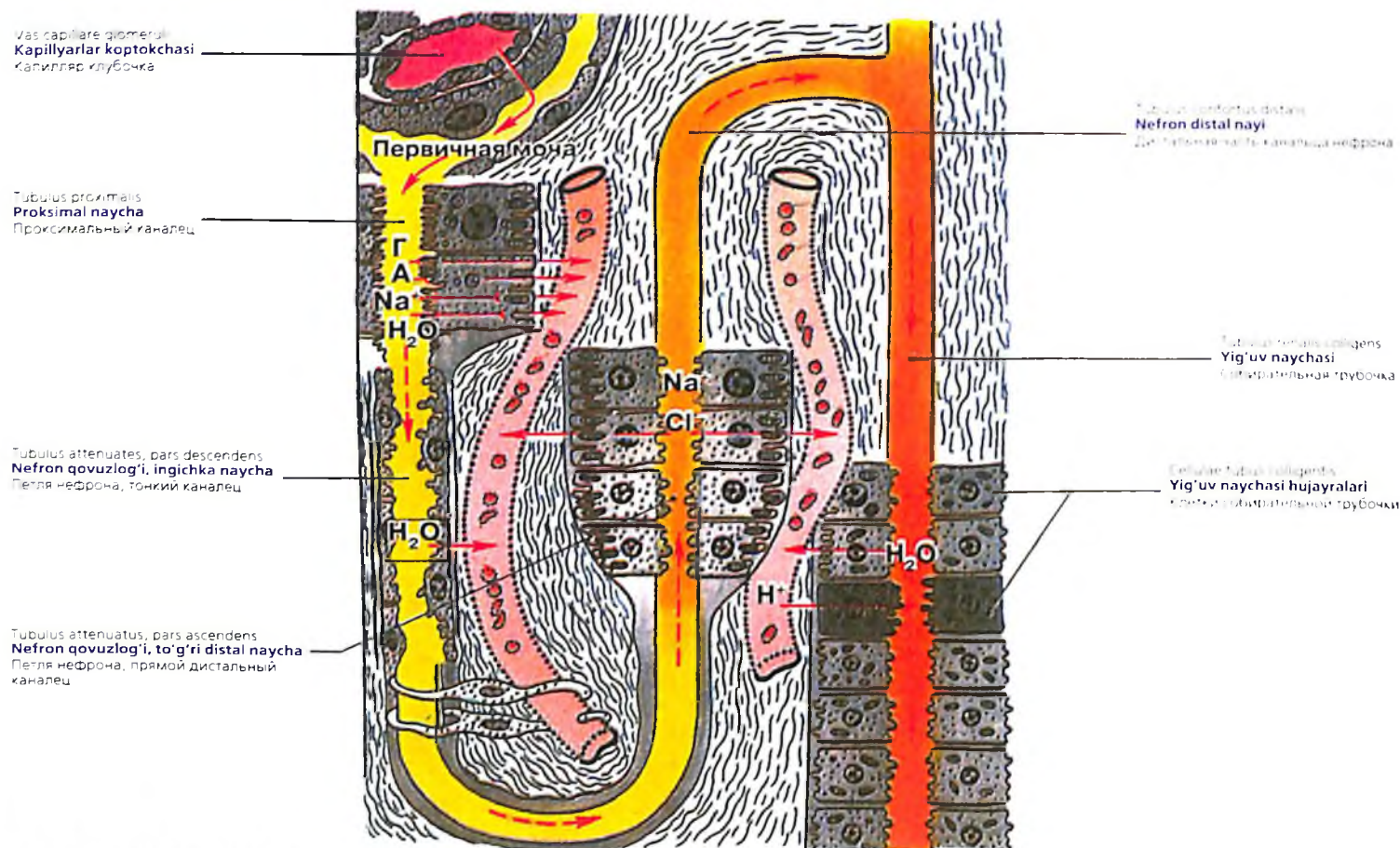
6. Interlobular vein
7. Arcuate artery and vein
8. Fibrous capsule, Lymphatic vessels
9. Renal cortex, Lymphatic vessels
10. Renal medulla, Lymphatic capillary
11. Stellate venule

12. Serosa, Serous coat, Lymphatic vessels
13. Renal fascia, Lymphatic vessels
14. Perinephric fat, Perirenal fat capsule, Lymphatic vessels

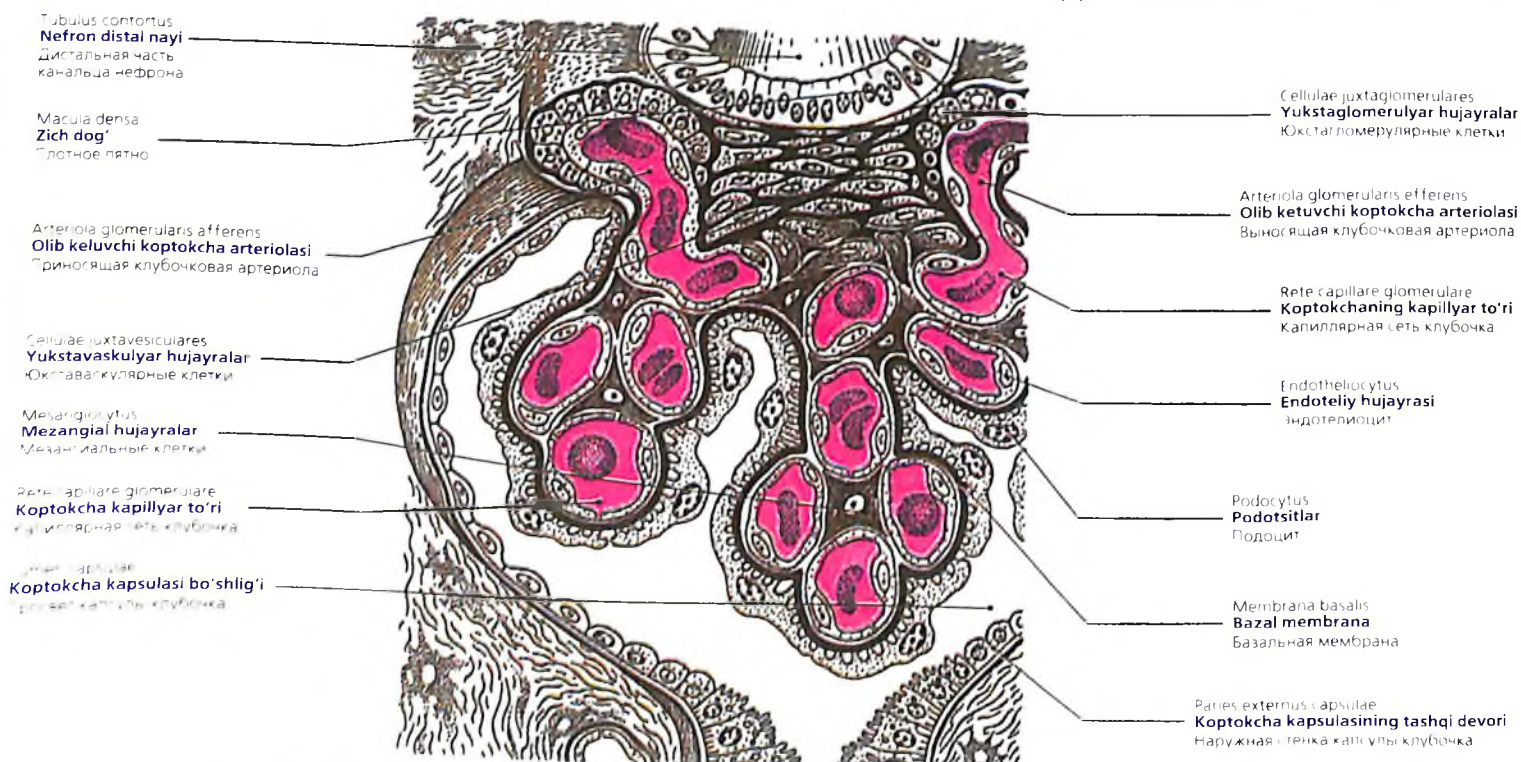


Rasm № 181. Buyraklar po'stloq va mag'iz moddalarining tuzilishi va qon bilan ta'minlanishi.
Рисунок № 181. Строение и кровоснабжение коркового и мозгового вещества почки.

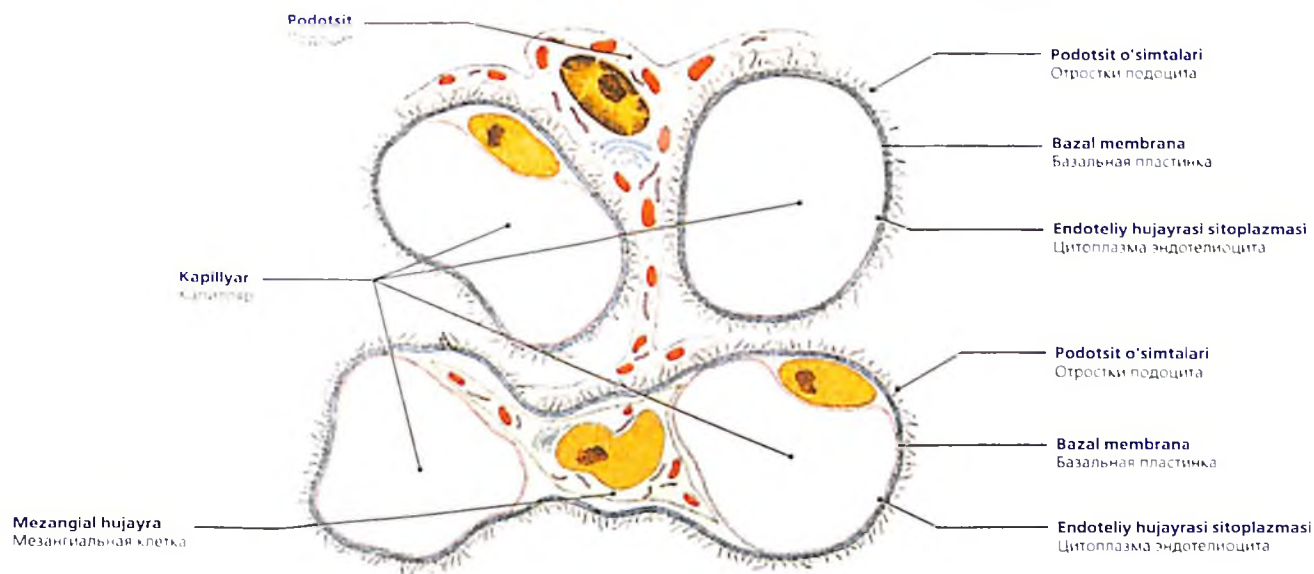
- | | | | |
|------------------------------------|-------------------------------|---|---|
| 1 Ureter | 8 Arcuate veins | 15 Perinephric fat, Perirenal fat capsule | 21 Cortical radiate veins, Interlobular veins |
| 2 Renal vein | 9 Canaliculi renales contorti | 16 Fibrous capsule | 22 Radial part |
| 3 Renal artery | 10 Canaliculi renales recti | 17 Stellate veins | 23 Arcuate arteries |
| 4 Openings of papillary ducts | 11 Efferent vessels | 18 Capsula branches | 24 Renal papilla |
| 5 Papillary duct | 12 Oligonephros | 19 Glomeruli | 25 Cribiform area |
| 6 Vasa recta, Straight arterioles | 13 Renal corpusculum | 20 Cortical radiate arteries, Interlobular arteries | 26 Calices |
| 7 Venulae rectae, Straight venules | 14 Capsula glomeruli | | 27 Kidney |



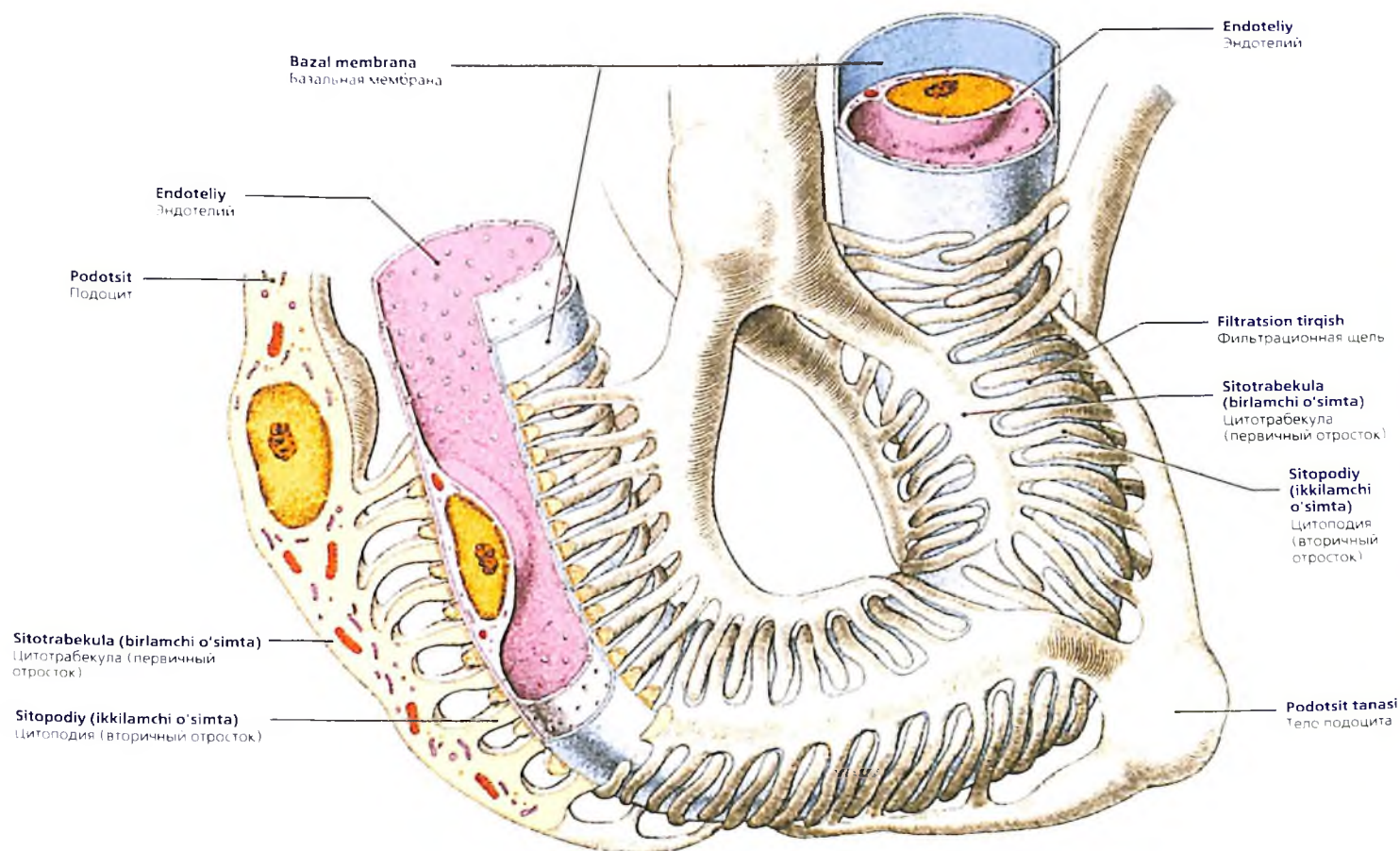
Rasm № 182. Buyrakning filtratsion apparati (Г — glyukoza; А — aminokislota) (chizma) (O.V. Volkov va hammualliflar bo'yicha).
Рисунок № 182. Противоточный аппарат нефрона (Г — глюкоза; А — аминокислоты) (схема) (по О.В. Волковой и соавт.).



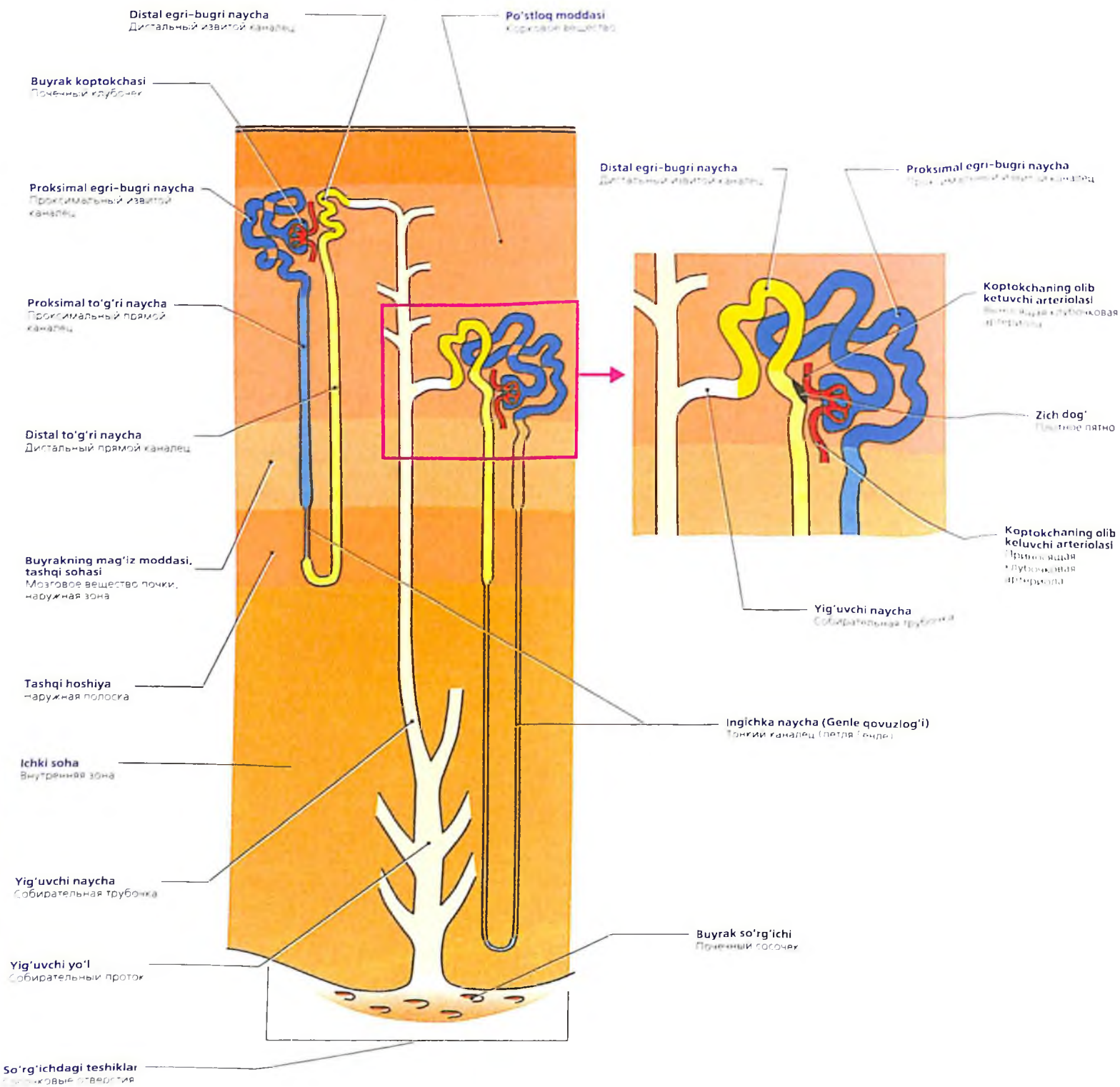
Rasm № 183. Yukstaglomerulyar majmua (chizma) (O.V. Volkov va hammualliflar bo'yicha).
Рисунок № 183. Юкстагломерулярный комплекс (схема) (по О.В. Волковой и соавт.).



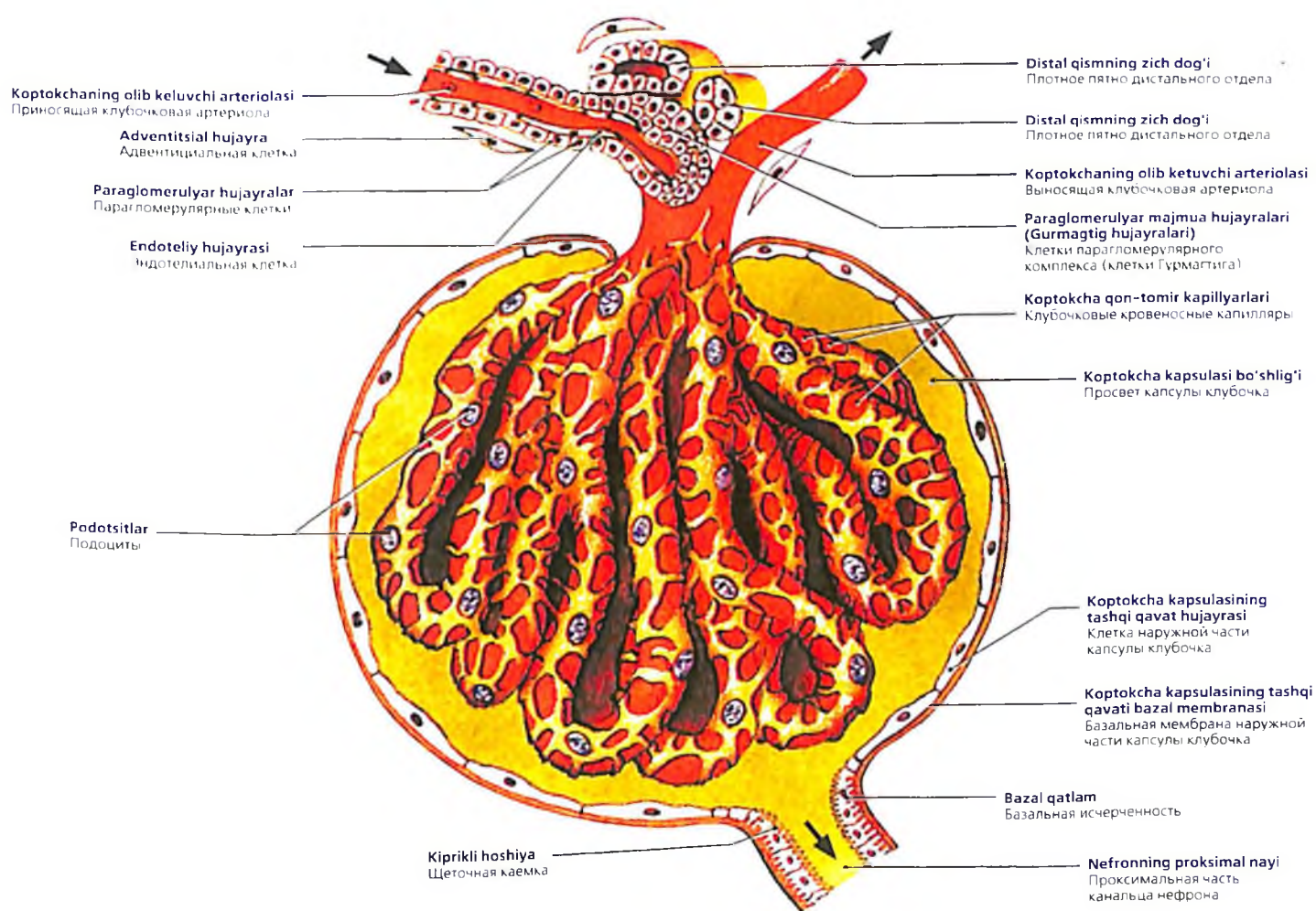
Rasm № 184. Umumiy bazal membrana bilan o'ralgan mezangial hujayralar va kapillyarlar (chizma)
(A. Xem, D. Kormak bo'yicha, o'zgarishlar bilan).
Рисунок № 184. Мезангиальная клетка и капилляры, покрытые общей базальной мембраной (схема)
(по А. Хэму, Д. Кормаку, с изменениями).



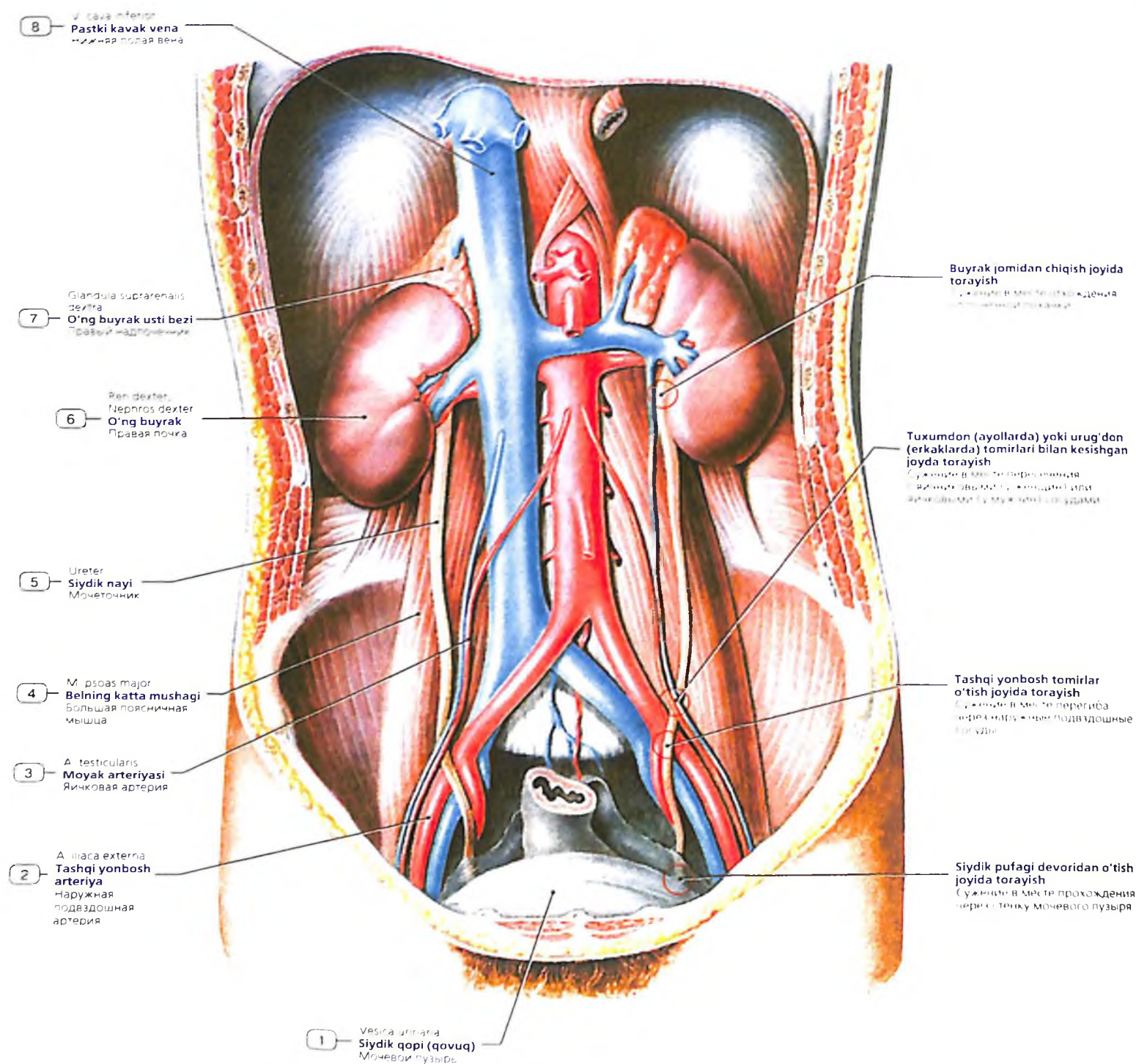
Rasm № 185. Buyrakning filtratsion apparati (chizma) (A.Xem, D.Kormak bo'yicha, o'zgarishlar bilan).
Рисунок № 185. Фильтрационный аппарат почки (схема) (по А. Хэму, Д. Кормаку, с изменениями).



Rasm № 186. Nefronning tuzilishi (chizma).
Рисунок № 186. Строение нефрона (схема).

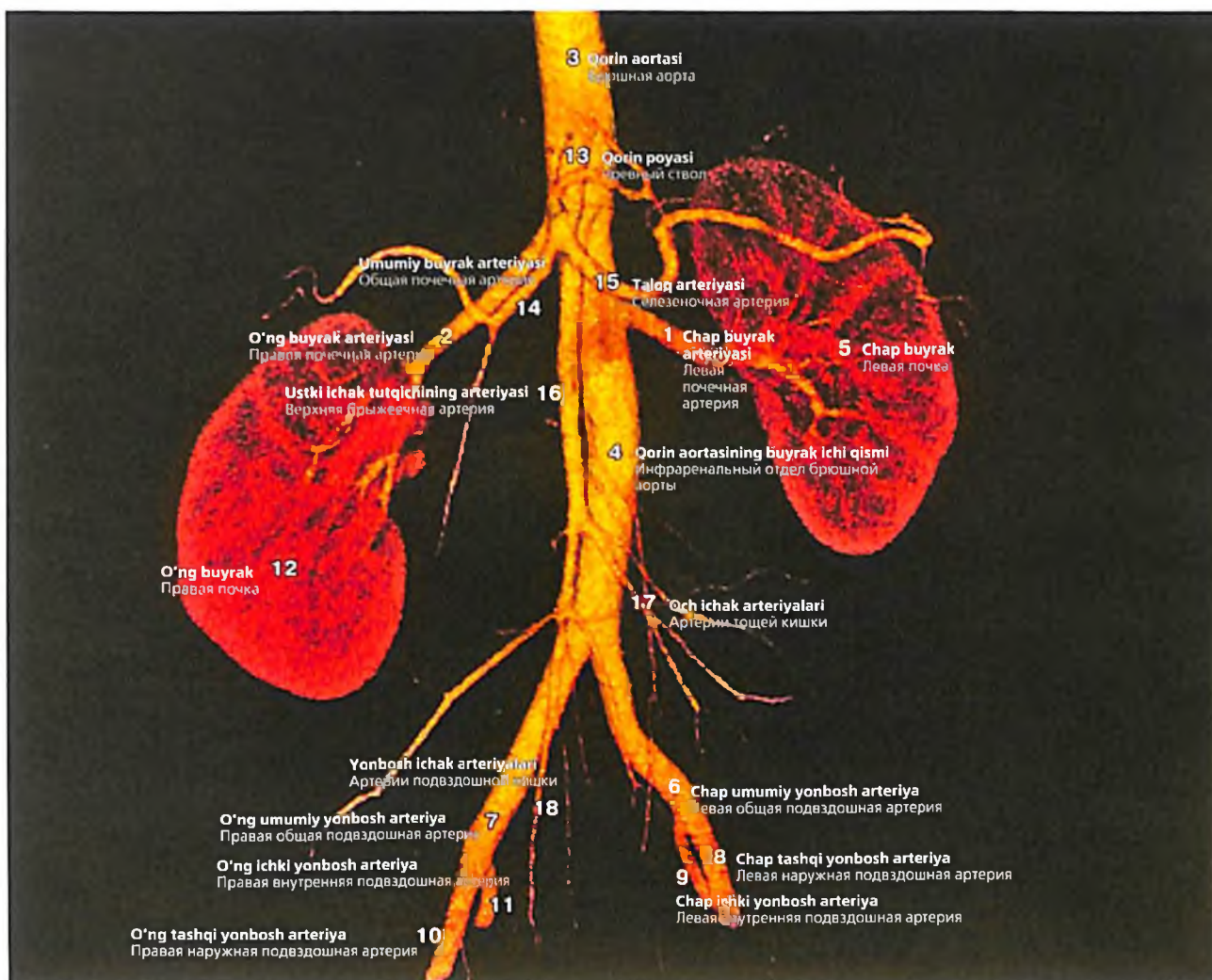


Rasm № 187. Buyrak tanachasining ultramikroskopik tuzilishi (chizma).
Рисунок № 187. Ультрамикроскопическое строение почечного тельца (схема).

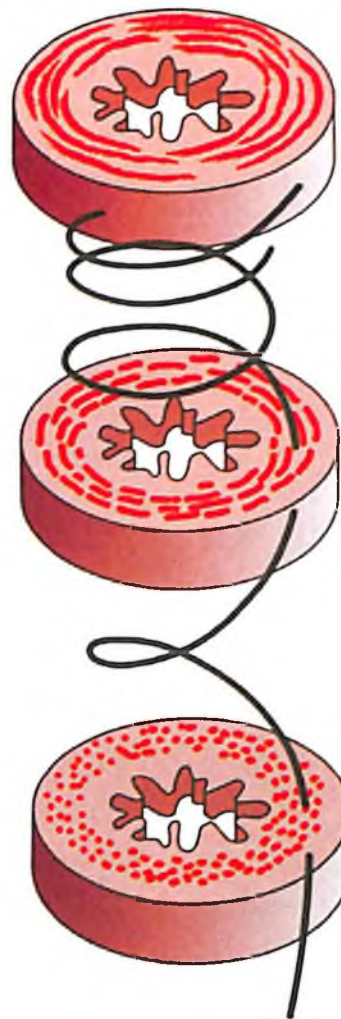


Rasm № 188. Siydik nayining topografiyasi va toraymalari.
Рисунок № 188. Топография и сужения мочеточников.

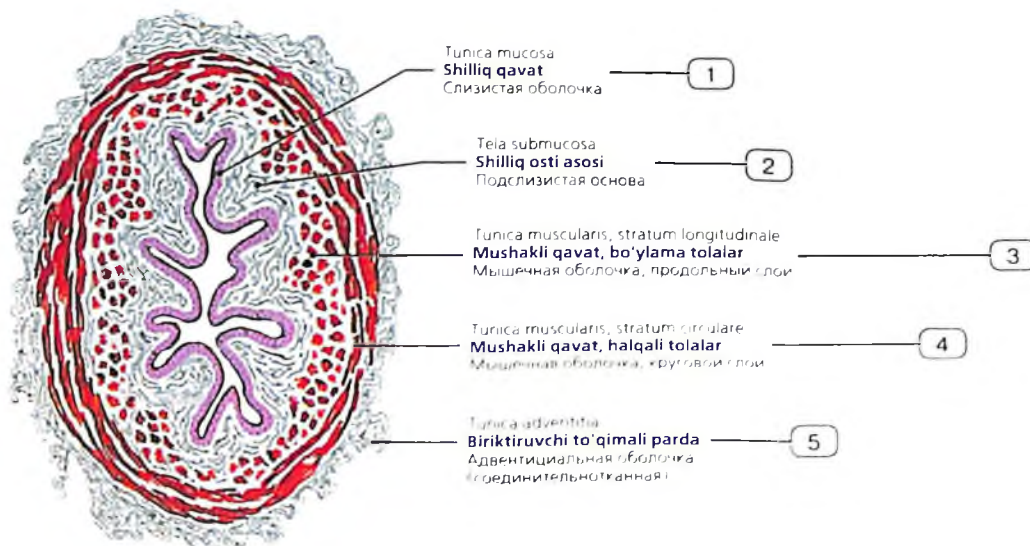
- | | |
|--------------------------|---------------------------|
| 1. Urinary bladder | 6. Right kidney |
| 2. External iliac artery | 7. Right suprarenal gland |
| 3. Testicular artery | Right adrenal gland |
| 4. Psoas major | 8. Inferior vena cava |
| 5. Ureter | |



Rasm № 189. Buyrak arteriyalari, kompyuter tomografiyasi (hajmli rendering, S.K.Ternov bo'yicha).
Рисунок № 189. Почечные артерии, компьютерная томография (объемный рендеринг, по С.К. Терновому).



Rasm №190. Siydik nayi devorida miositlarning joylashishi.
Рисунок № 190. Расположение миоцитов в стенке мочеточника.

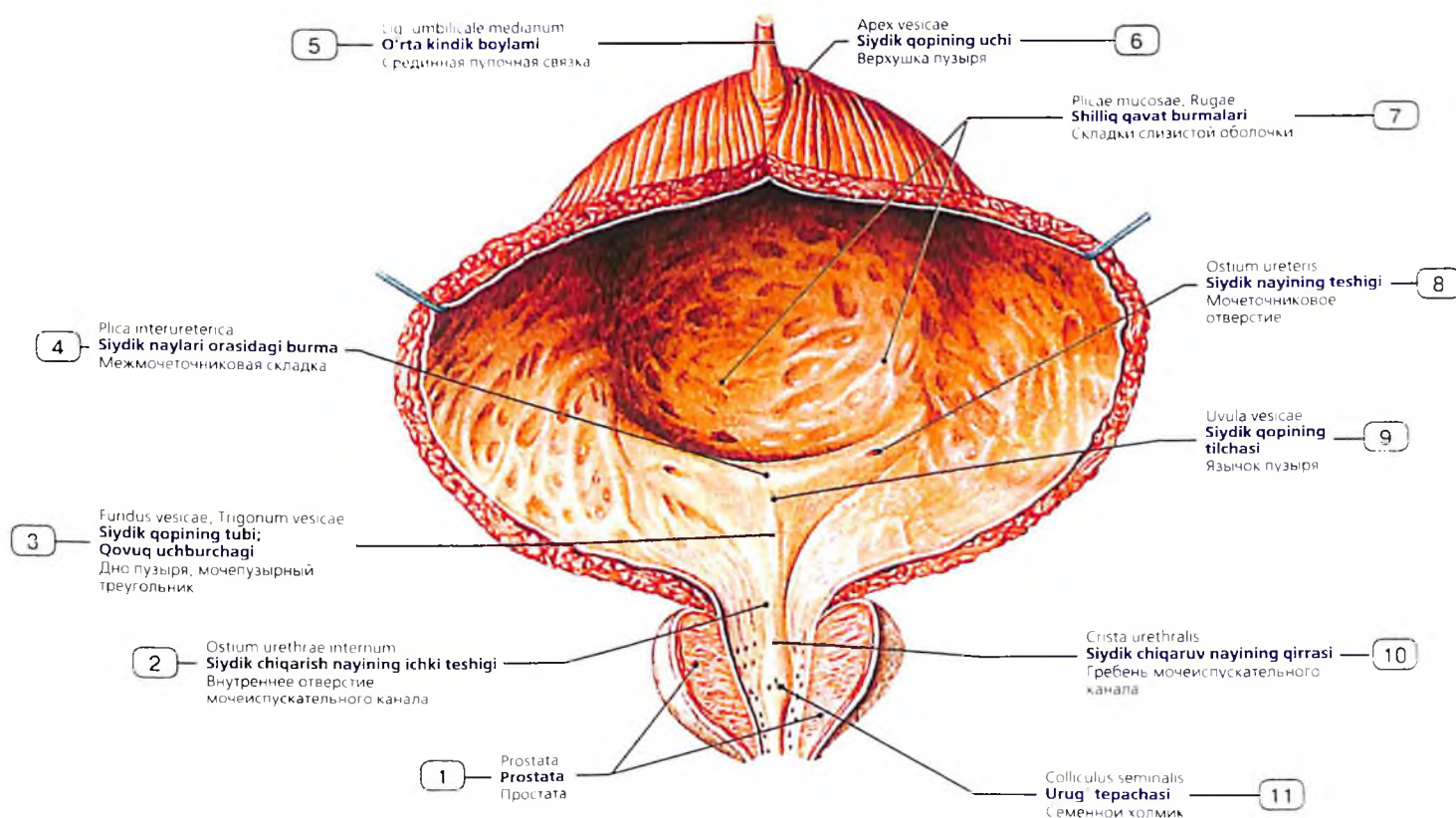


Rasm № 191. Siydik nayi devori, ko'ndalang kesim.
Рисунок № 191. Стенка мочеточника, поперечное сечение.

- | | | | |
|---------------------------------------|--|--|---------------|
| 1. Mucosa, Mucous membrane, Submucosa | 3. Muscular layer, Muscular coat, longitudinal layer | 4. Muscular layer, Muscular coat, circular layer | 5. Adventitia |
|---------------------------------------|--|--|---------------|

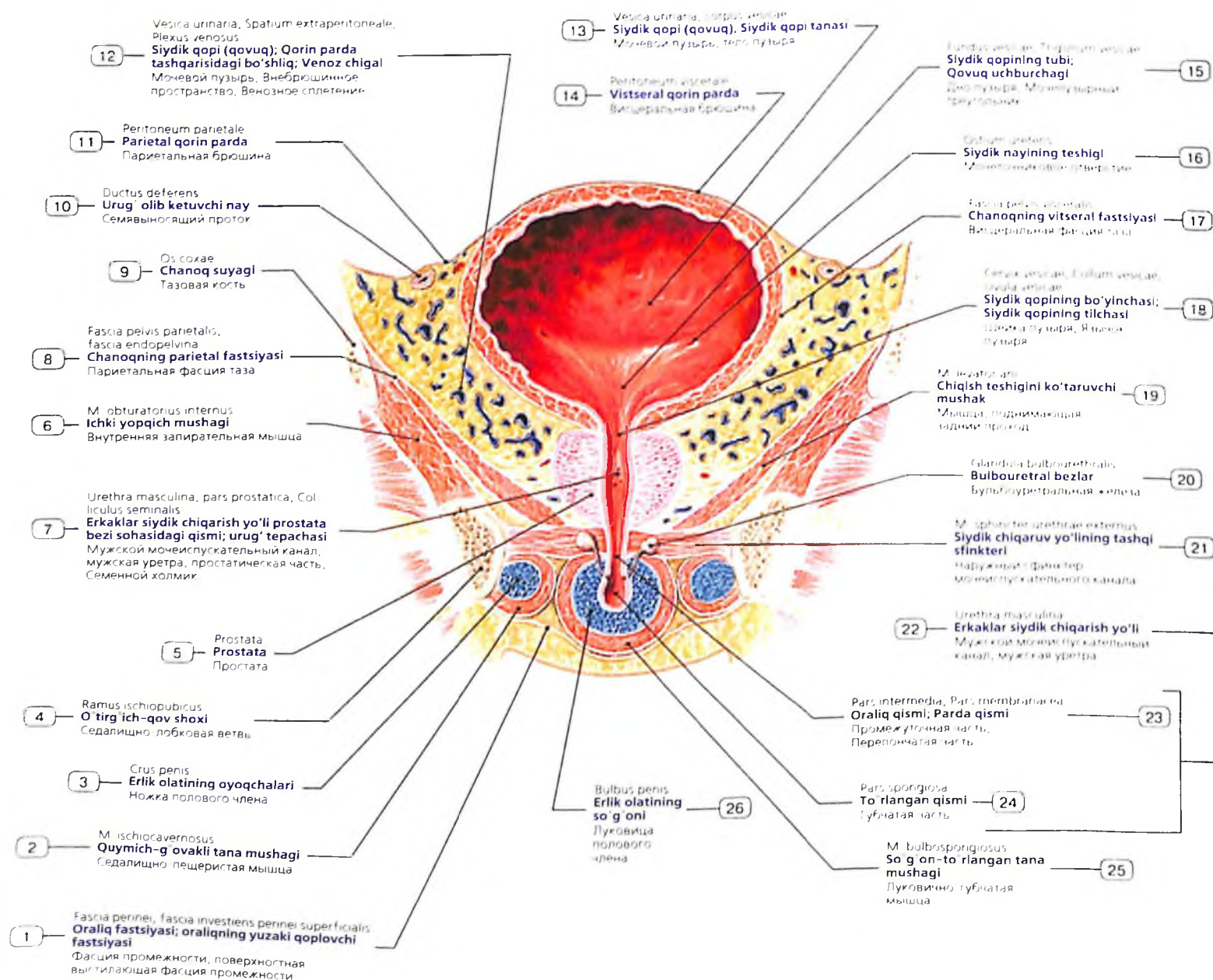
17 — jadval. Siydik chiqaruv a'zolarining sfinkter apparatlari

A'zo	Sfinkter	Joylashuvi	Tuzilishi
Buyrak kosachalari	Kosacha gumbazini ko'taruvchi mushak	Kosacha gumbazining cho'qqisidan buyrakning mag'iz moddasigacha davom etadi	O'zaro aralashuvchi va spiralsimon yo'nalishda yo'naluvchi silliq mushak tolalaridan tashkil topgan
	Gumbaz sfinkteri (Genli)		
	Kosachalar bo'yni sfinkteri (Disse)		
Siydik yo'li	Siydik yo'li sfinkterlari (Tabiiy fiziologik toraymalar)	1. Buyrak jomining siydik yo'liga o'tadigan qismida 2. Siydik yo'li bilan yonbosh qon tomirlarining kesishgan joyida. 3. Siydik yo'lining siydik pufagiga tushadigan qismidagi sfinkter	Siydik yo'li devoridagi mahalliy silliq muskulaturaning qisqarishi hamda g'ovak-bo'shliqli tanalarning qon bilan to'lishi hisobiga yuzaga keladigan gidravlik bosim siydik yo'lini qisqartiradi
	Siydik yo'li — pufak segmentidagi sfinkter	Siydik yo'lining muskul — fastsiyal qini siydik yo'lining pufak oldi va yukstavezikulyar qismlarini o'raydi	Silliq muskul tolalari oldingi devorda yo'q, shu sababli orqa devordagi muskullarning davomli qisqarishi pufak ichidagi bosimni oshiradi



Rasm № 192. Erkaklar siydik pufagi va prostata bezi, frontal kesim.
Рисунок № 192. Мужской мочевой пузырь и простата, фронтальный разрез.

- | | | |
|---|-----------------------------|-----------------------|
| 1 Prostate | 5 Median umbilical ligament | 9 Uvula bladder |
| 2 Internal urethral orifice | 6 Apex of bladder | 10 Urethral crest |
| 3 Fundus of bladder, Trigone of bladder | 7 Mucosal folds, Rugae | 11 Seminal colliculus |
| 4 Interureteric fold | 8 Ureteric orifice | |

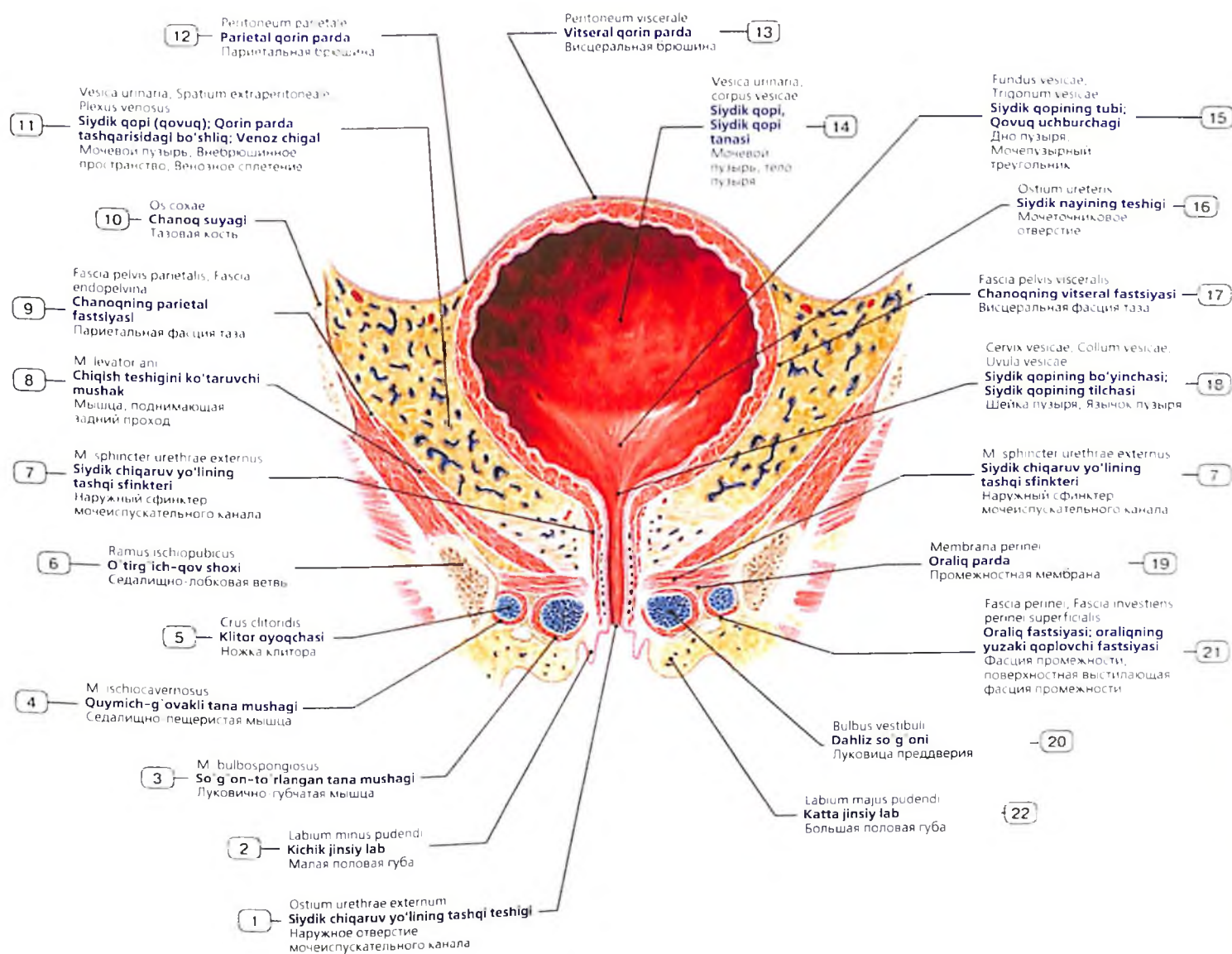


Rasm № 193. Erkaklar siydik pufagi (chanoqning frontal kesmasi).
Рисунок № 193. Мужской мочевой пузырь (фронтальный распил таза).

1. Perineal fascia, Superficial investing fascia of perineum
2. M. ischioavernosus
3. Crus penis
4. Ramus ischiopubicus
5. Prostate
6. M. obturatorius internus
7. Male urethra, prostatic urethra, Seminal colliculus
8. Parietal pelvic fascia, Endopelvic fascia
9. Right tibia, Extraperitoneal space

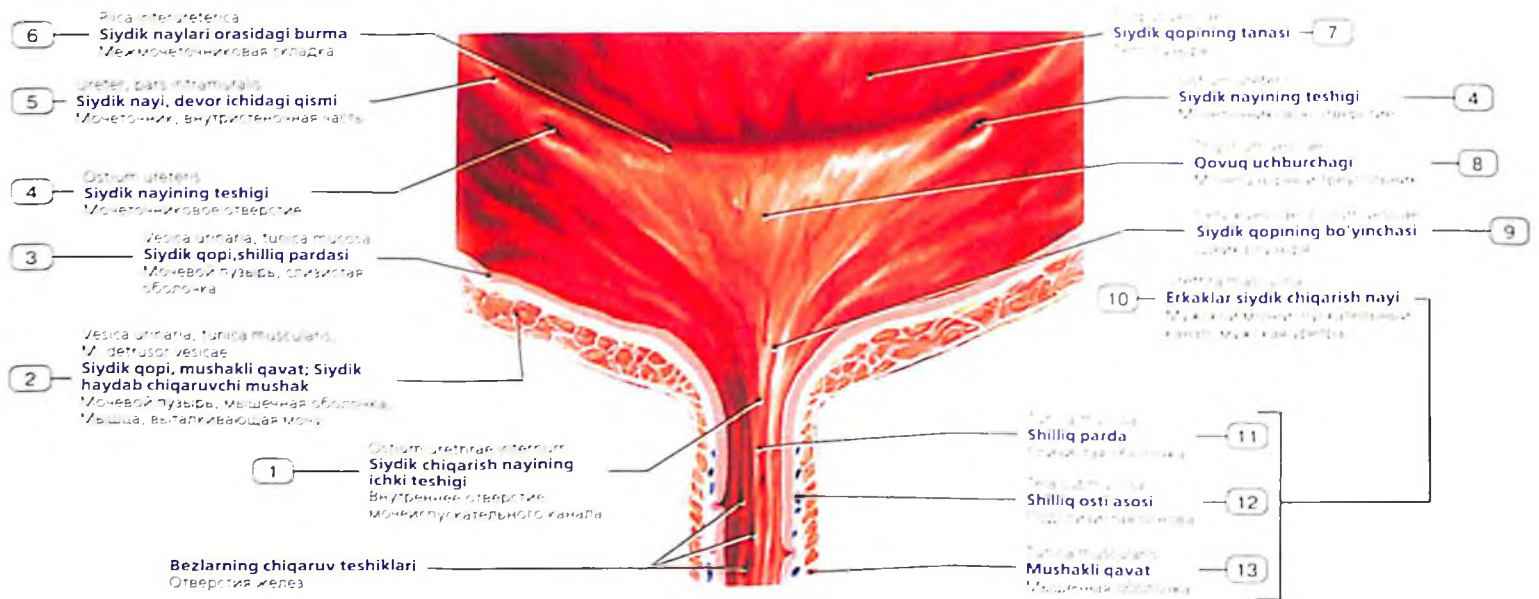
10. Ductus deferens, Vas deferens
11. Parietal peritoneum
12. Urinary bladder, Extraperitoneal space, Venous plexus
13. Urinary bladder, body of bladder
14. Visceral peritoneum
15. Fundus of bladder, Trigone of bladder
16. Ureteric orifice
17. Visceral pelvic fascia
18. Neck of bladder, Ovary of bladder

19. Levator ani
20. Bulbo-urethral gland
21. External urethral sphincter
22. = 23+24 Male urethra
23. Intermediate part of urethra, Membranous urethra
24. Spongy urethra
25. Bulbospongiosus
26. Bulb of penis



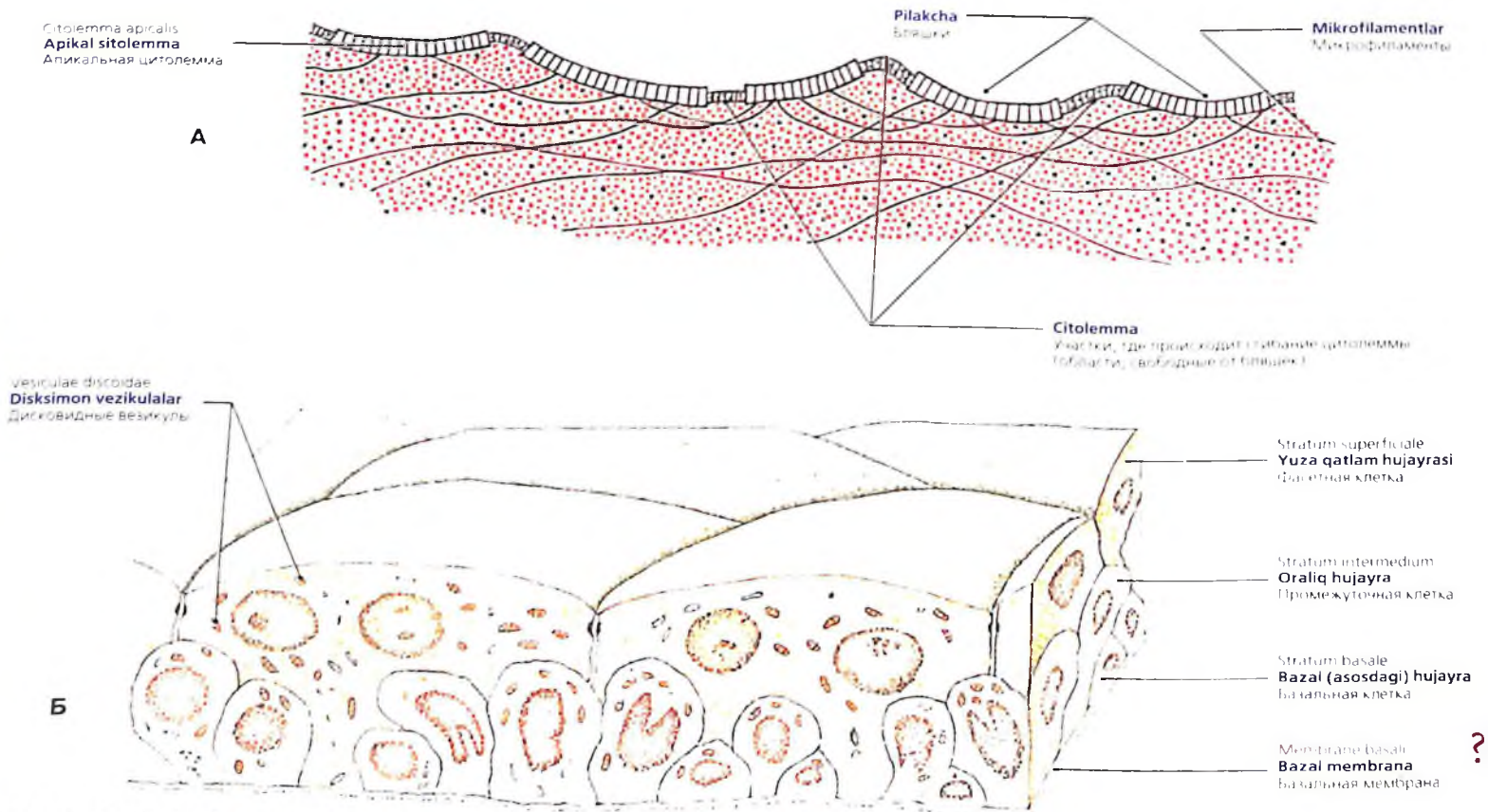
Rasm № 192. Ayollar siydik pufagi (chanoqning ko'ndalang kesmasi).
Рисунок № 192. Женский мочевой пузырь (фронтальный распил таза).

- | | | | |
|-----------------------------|--|--|--|
| 1 External urethral orifice | 7 External urethral sphincter | 12 Parietal peritoneum | 18 Neck of bladder. Uvula of bladder |
| 2 Labium minus | 8 Levator ani | 13 Visceral peritoneum | 19 Perineal membrane |
| 3 Bulbospongiosus | 9 Parietal pelvic fascia, Endopelvic fascia | 14 Urinary bladder, body of bladder | 20 Bulb of vestibule |
| 4 Ischioavernosus | 10 Hip bone, Coxal bone, Pelvic bone | 15 Fundus of bladder. Trigone of bladder | 21 Perineal fascia. Superficial investing fascia of perineum |
| 5 Crus of clitoris | 11 Urinary bladder, Extraperitoneal space, Venous plexus | 16 Ureteric orifice | 22 Labium majus |
| 6 Ischiopubic ramus | | 17 Visceral pelvic fascia | |

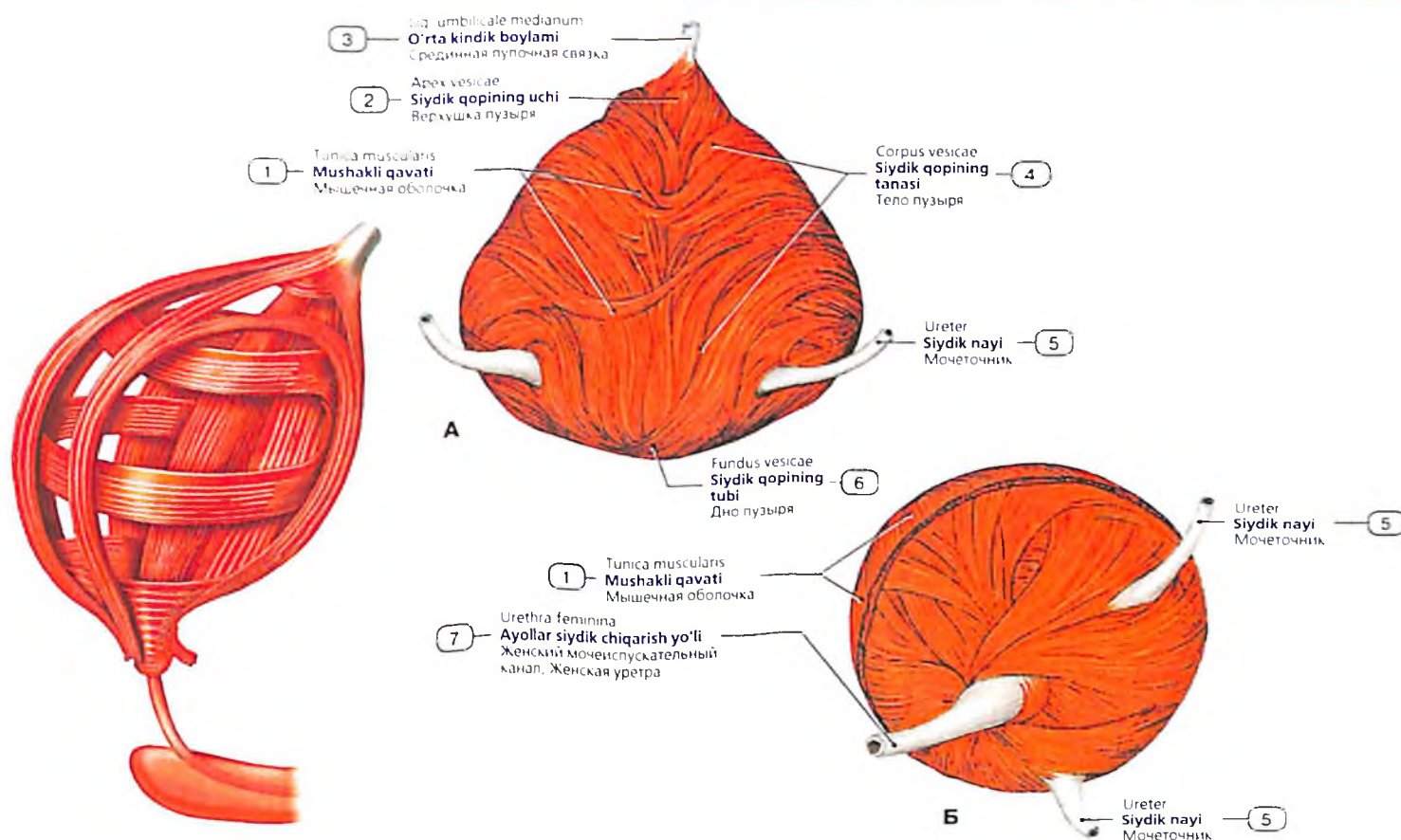


Rasm № 195. Siydik qopi (qovuq) uchburchagi.
Рисунок № 195. Мочепузырный треугольник.

- | | | | | |
|---|---|----------------------------|----------------------------|-----------------------------------|
| 1. Internal urethral orifice | 3. Urinary bladder, mucosa, mucous membrane | 5. Ureter, intramural part | 8. Trigone of bladder | 11. Mucosa, Mucous membrane |
| 2. Urinary bladder, Muscular layer, Muscular coat, Detrusor | 4. Ureteric orifice | 6. Interureteric fold | 9. Neck of bladder | 12. Submucosa |
| | | 7. Body of bladder | 10. =11+12+13 Male urethra | 14. Muscular layer, Muscular coat |

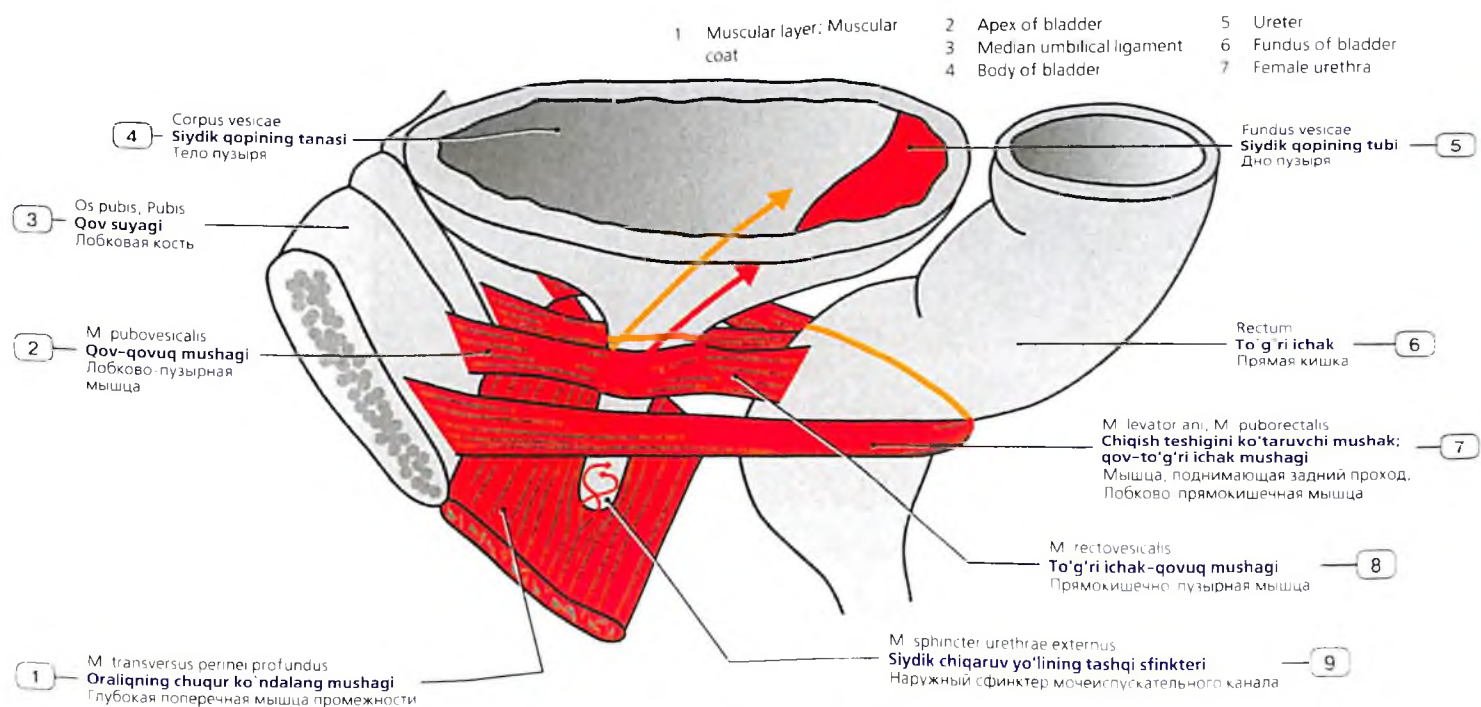


Rasm № 196. To'la (A) va bo'sh (B) siydik pufagi o'tuvchi epiteliysi (chizma) (R. Krstich bo'yicha, o'zgarishlar kiritilgan).
Рисунок № 196. Переходный эпителий в пустом (А) и наполненном (Б) мочевом пузыре (схема) (по Р. Крстичу, с изменениями).



Rasm № 197. Siydik pufagi mushaklari (chizma).
Рисунок № 197. Мышцы мочевого пузыря (схема).

Rasm № 198. Siydik pufagining mushakli qavati
(A — oldindan ko'rinishi; B — yuqoridan ko'rinishi).
Рисунок № 198. Мышечная оболочка мочевого пузыря
(A — вид спереди; B — вид сверху).



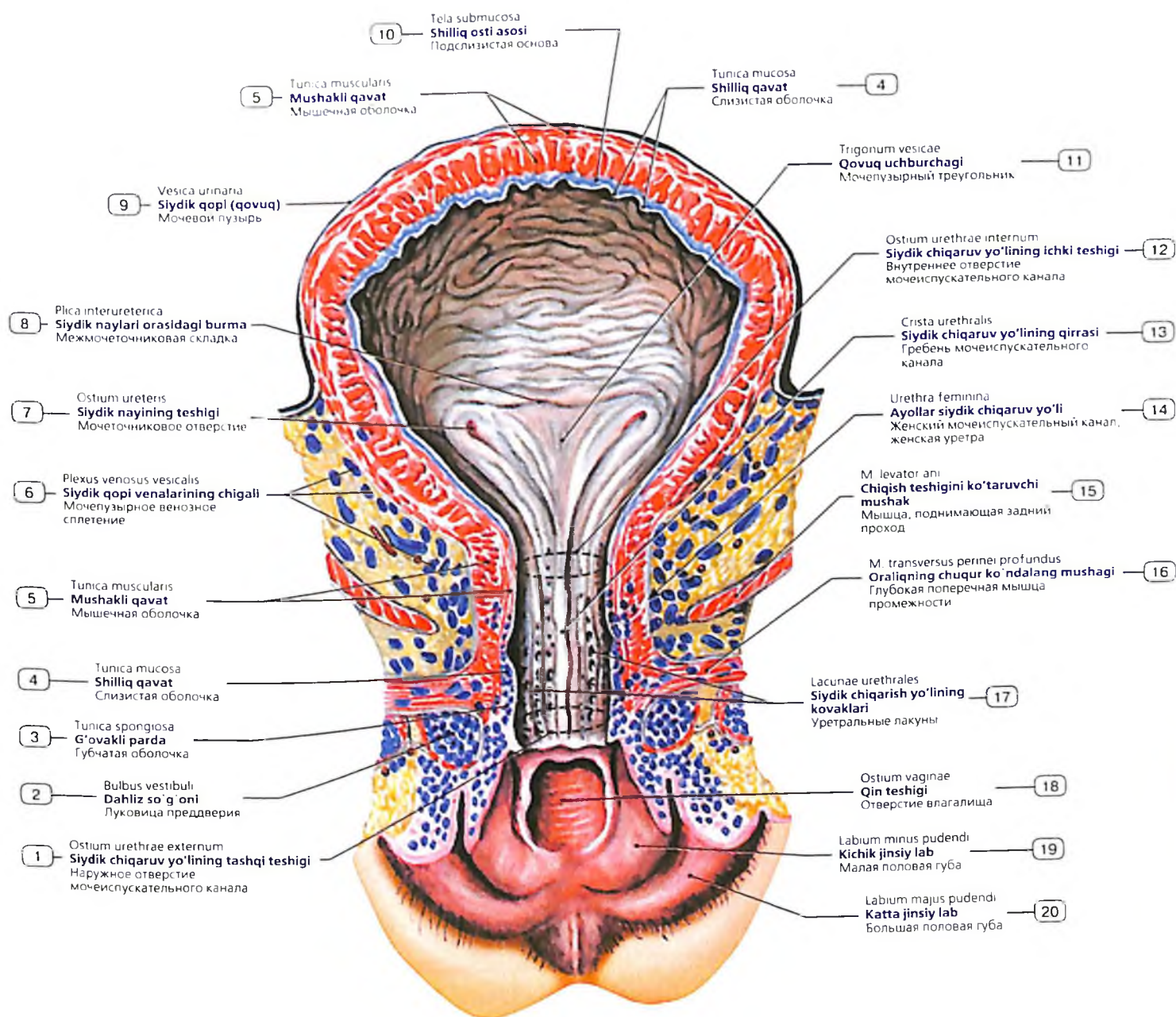
Rasm № 199. Siydik pufagiga ta'sir etuvchi mushaklarning harakati (chizma).
Рисунок № 199. Функционирование мышц, воздействующих на мочевой пузырь (схема).

- | | | | | |
|------------------------------------|----------------------|------------------------------|--------------------------------|-------------------|
| 1. Deep transverse perineal muscle | 2. Pubovesicalis | 4. Body of bladder | 6. Rectum | 8. Rectovesicalis |
| 3. Pubis | 5. Fundus of bladder | 7. Levator ani; Puborectalis | 9. External urethral sphincter | |



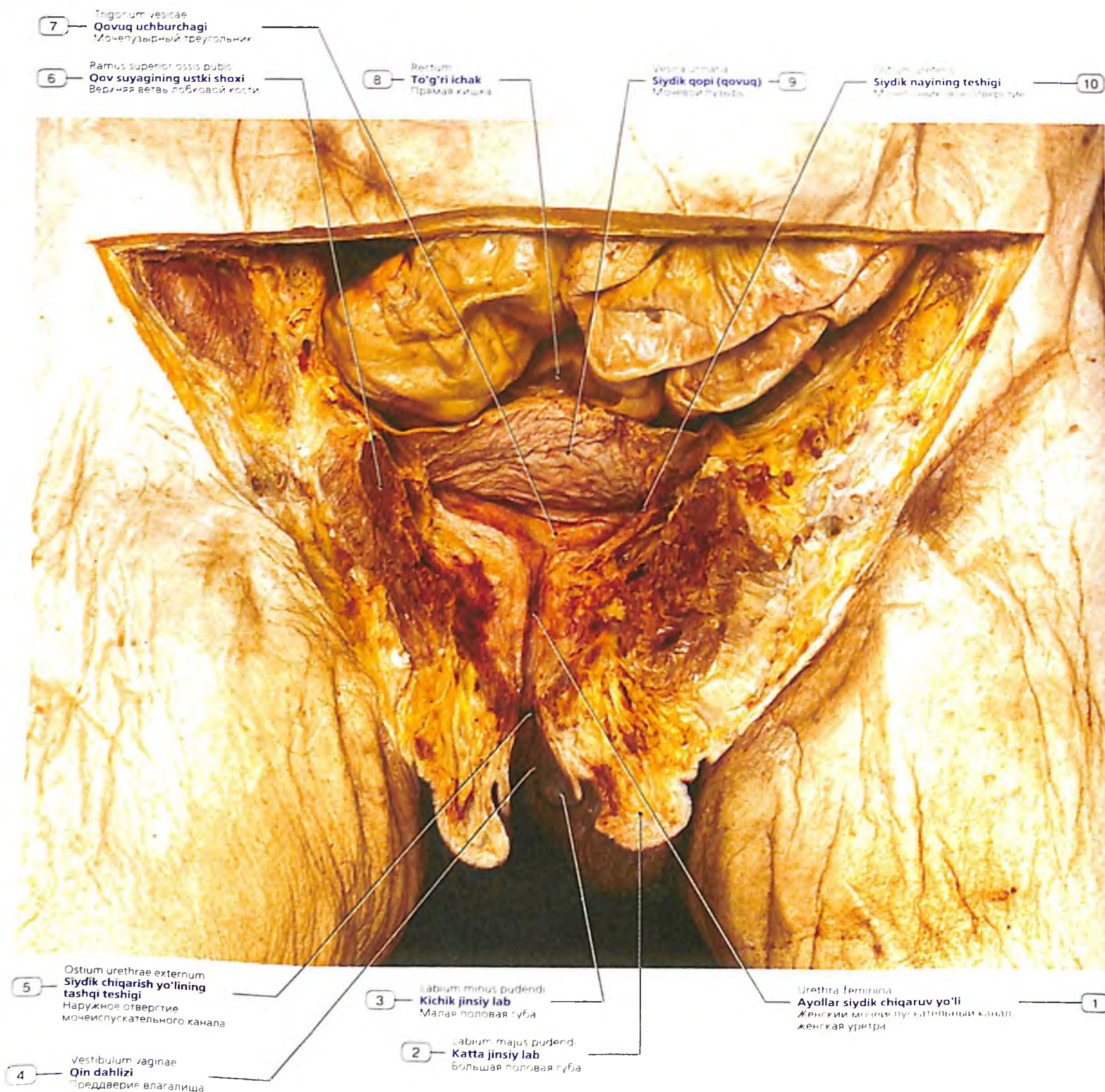
Rasm № 200. Erkaklar qorin va kichik chanoq bo'shlig'i a'zolari, sagittal kesma (tabiiy preparatdan olingan rasm).
Рисунок № 200. Органы брюшной полости и малого таза мужчины, сагиттальный распил (фотография натурального препарата).

- | | | | |
|---------------------------------------|------------------------------------|---|-------------------------------|
| 1. Hernia | 5. Urinary bladder | 9. Male urethra, intermediate part of urethra, membranous urethra | 13. External urethral orifice |
| 2. Sigmoidal chamber of the intestine | 6. Male urethra, prostatic urethra | 10. Internal urethral sphincter | 14. Testis |
| 3. Lumbar vertebrae | 7. Uterine symphysis | 11. Male urethra, spongy urethra | 15. Scrotum |
| 4. Rectum | 8. Prostate | 12. Glans penis | 16. Penis |



Rasm № 201. Ayollar siydik pufagi va siydik chiqaruv yo'li, frontal kesma (R.D. Sinelnikov bo'yicha, o'zgarishlar kiritilgan).
Рисунок № 201. Женский мочевой пузырь и мочеиспускательный канал (уретра), фронтальный разрез
(по Р.Д. Синельникову, с изменениями).

- | | |
|---------------------------------|------------------------------------|
| 1 External urethral orifice | 11 Trigone of bladder |
| 2 Bulb of vestibule | 12 Internal urethral orifice |
| 3 Spongy layer | 13 Urethral crest |
| 4 Mucosa, Mucous membrane | 14 Female urethra |
| 5 Muscular layer, Muscular coat | 15 Levator ani |
| 6 Vesical venous plexus | 16 Deep transverse perineal muscle |
| 7 Ureteric orifice | 17 Urethral lacunae |
| 8 Interureteric fold | 18 Vaginal orifice |
| 9 Urinary bladder | 19 Labium minus |
| 10 Submucosa | 20 Labium majus |



Rasm № 202. Ayollar siydik pufagi va siydik chiqaruvchi yo'li, ko'ndalang kesma (tabiiy preparatdan olingan rasm).
Рисунок № 202. Женский мочевой пузырь и мочеиспускательный канал (уретра), поперечный разрез (фотография натурального препарата).

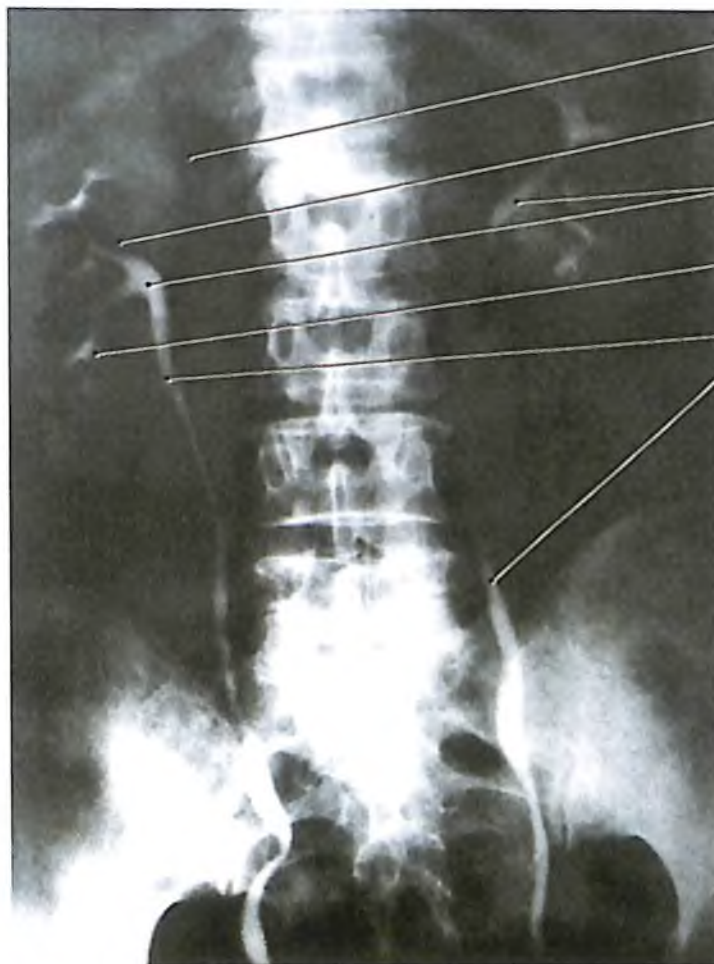
1 — Vestibulum vaginae
2 — Labium majus

3 — Labium minus
4 — Vestibulum

5 — External urethral orifice
6 — Superior pubic ramus

7 — Trigone of bladder
8 — Rectum

9 — Uterine bladder
10 — Cloaking orifice

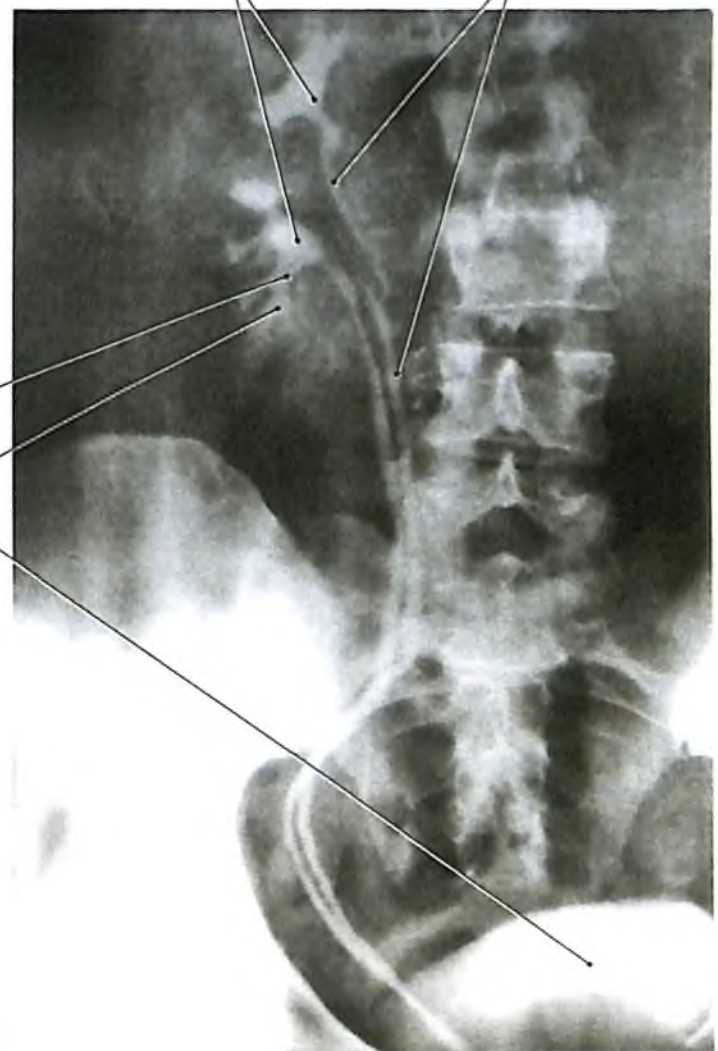


A

- Buyrak soyasi
Контур почки
- Calices renales majores
Buyrakning katta kosachalari
Большие почечные чашки — 1
- Pelvis renalis
Buyrak jomi
Почечная лоханка — 2
- Calices renales minores
Buyrakning kichik kosachalari
Малые почечные чашки — 3
- Ureter
Siydik nayi
Мочеточник — 4

- 2 Pelvis renalis
Buyrak jomi
Почечная лоханка
- 4 Ureter
Siydik nayi
Мочеточник

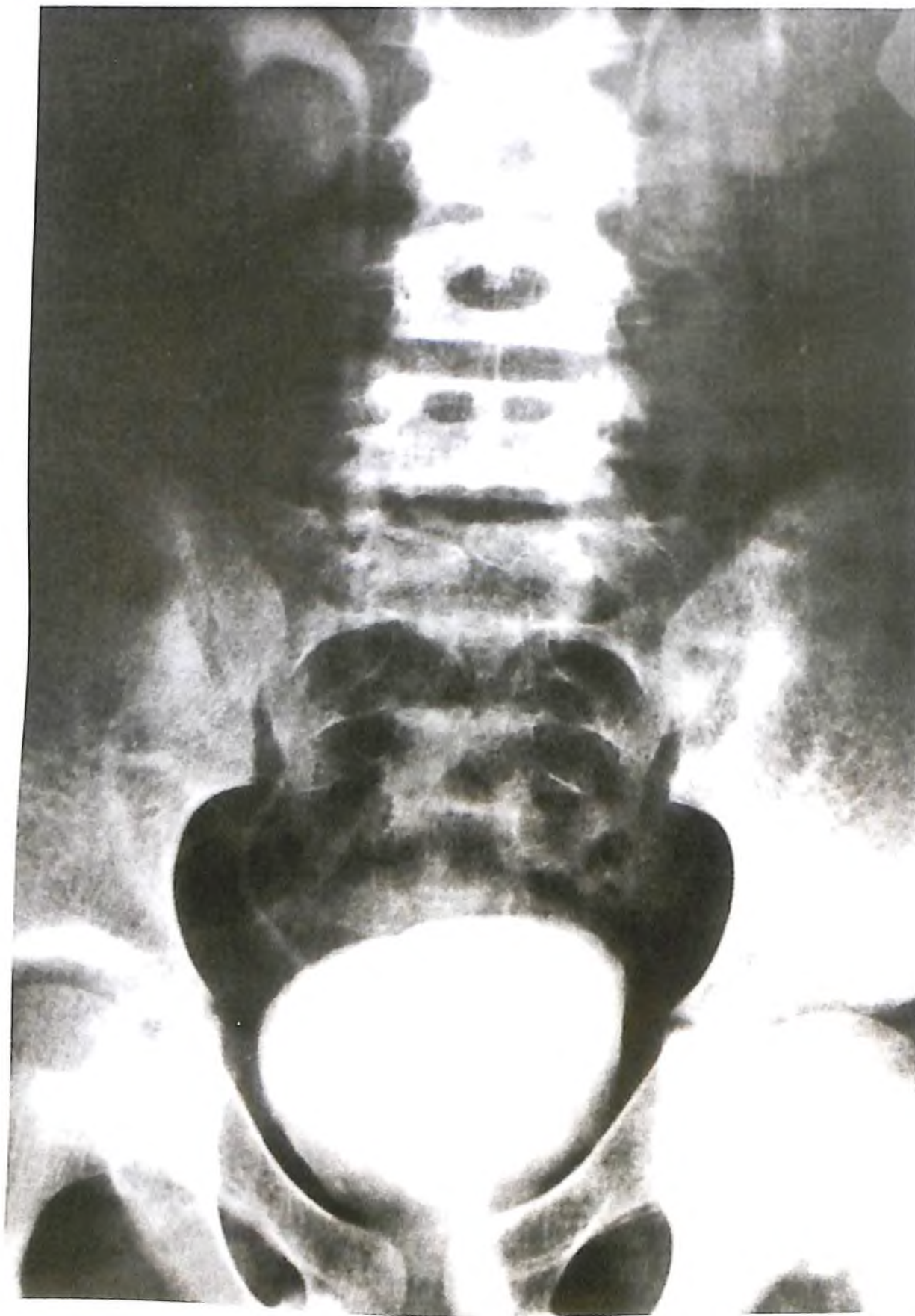
- 1 Calices renales majores
Buyrakning katta kosachalari
Большие почечные чашки
- 3 Calices renales minores
Buyrakning kichik kosachalari
Малые почечные чашки
- 5 Vesica urinaria
Siydik qopi (qovuq)
Мочевой пузырь



B

Rasm № 203. Siydik ayirish a'zolari tizimi rentgenogrammasi, vena ichi urografiya (A — buyraklar va siydik naylari; B — o'ng buyrak va siydik nayining ikkilanishi) (V.I. Filimonov va hammualliflar asosida).
Рисунок № 203. Рентгенограммы мочевой системы, внутривенная урография (А — почки и мочеточники; Б — удвоение правой почки и мочеточника) (по В.И. Филимонову и соавт.).

- 1 Major calices
- 2 Renal pelvis
- 3 Minor calices
- 4 Ureter
- 5 Urinary bladder



Rasm № 204. Siydik pufagi rentgenogrammasi (V.I. Filimonov va boshq. bo'yicha).
Рисунок № 204. Рентгенограмма мочевого пузыря (по В.И. Филимонову и соавт.).





18 — jadval. Erkaklar jinsiy a'zolari

Bo'limlari	Qismlari	Asosiy strukturalari (tarkiblari)
Erkaklar ichki jinsiy a'zolari		
Moyak	Yuqori uchi Pastki uchi Lateral yuzasi Medial yuzasi Oldingi qirrası Orqa qirrası Qinli parda Oqsilli parda Moyak to'siqchalari Moyak oralig'i Moyak to'ri Moyakning olib ketuvchi kanalchalari	Moyak parenximasi Moyak bo'laklari Burama urug' kanalchalari Bazal membrana Epiteliospermatogen qavat Turli rivojlanish darajasidagi spermatogen hujayralar Qo'shimcha hujayralar (sustenototsilar, Sertoli hujayralari) Interstitial hujayralar (Leydig hujayralari) To'g'ri urug' kanalchalari
Moyak ortig'i	Moyak ortig'ining boshchasi Moyak ortig'ining tanasi Moyak ortig'ining dumı Moyak ortig'ining (konuslari) bo'lakchalari Moyak ortig'ining yo'li	
Urug' olib ketuvchi nay	Yorg'oq qismi Urug' tizimchasi qismi Chov qismi Chanoq qismi Urug' olib ketuvchi nayning ampulasi Urug' otuvchi nay	
Urug' pufakchasi	Tanasi Chiqaruv nayi	
Urug' tizimchasi	Urug' olib ketuvchi nay Moyak va urug' olib ketuvchi nay arteriyasi Venoz butasimon chigal Moyak va moyak ortig'i limfa tomirlari Nervlar	
Yorg'oq	Teri Go'shtdor parda Tashqi urug' fastsiyasi Moyakni ko'taruvchi mushak (m. cremaster) Moyakni ko'taruvchi mushak fastsiyasi Ichki urug' fastsiyasi Moyakning qinli pardasi	
Prostata bezi	Bo'laklari (o'ng/chap) Toraygan qismi (bo'g'izi) Prostata asosi Prostata uchi Oldingi yuzasi Orqa yuzasi Pastki lateral yuzasi	Bezli to'qima Bezli parenxima Alveolar naysimon seroz prostata bezi to'qimasi Shilliq Shilliq osti Asosiy Silliq mushak tolası
Bulbouretral bezlar (juft)		Sekretor qismlari O'tkazuv yo'llari
Erkaklar tashqi jinsiy a'zolari		
Erlik olati	Oyoqchasi Ildizi Tanasi Orqasi (usti) Boshchasi Erlik olatining kертmagi Erlik olatining g'ovakli tanasi Erlik olatining to'rlangan tanasi	Erlik olati boshchasi, bo'yinchasi Tashqi varaq Ichki varaq G'ovakli va to'rlangan tana oqsilli pardalari Trabekulalar Boshchasi Piyoichasi G'ovakli va to'rlangan tana katakchalari
Erkaklarning siydik chiqaruv kanali, erkaklar uretrasi	Prostat qismi Pardali qismi G'ovakli qism Siydik chiqaruv kanalining tashqi teshigi	Qirrası Urug' do'ngligi Prostata bezi sohasidagi xaltacha (bachadoncha) Prostata yo'llari va urug' otuvchi yo'llarning quyilish qismi Toraymalar yuqorigi, orqa, oldingi
Yorg'oq	Yorg'oq choki Yorg'oq to'siqi	Qavatları Teri Go'shtdor parda Tashqi urug' fastsiyasi Moyakni ko'taruvchi mushak (m. cremaster) Moyakni ko'taruvchi mushak fastsiyasi Ichki urug' fastsiyasi Moyakning qinli pardasi

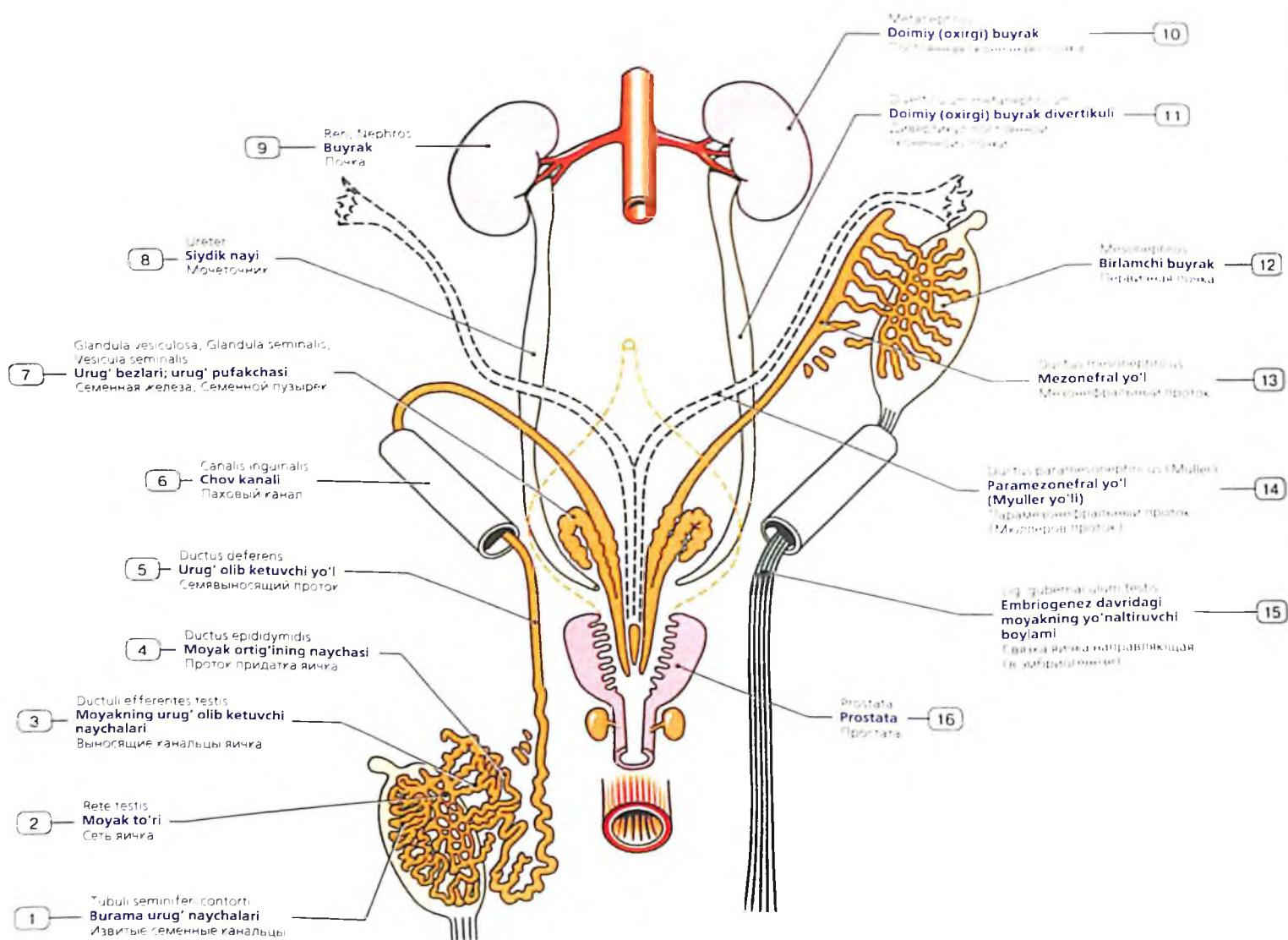
19 — jadval. Erkaklar va ayollar jinsiy a'zolarining rivojlanish manbalari

Dastlabki forma		Erkak jinsi	Ayol jinsi
Farqlovchi (indifferent) jinsiy bez		Moyak	Tuxumdon
Mezonefros, birlamchi buyrak	Kranial bo'lim	Moyakning urug' olib ketuvchi nayi Moyak ortig'i o'simtasi	Tuxumdon ortig'i
	Kaudal bo'lim	Moyak ortig'i o'simtasi yo'li	Tuxumdon atrofi to'qimasi
Mezonefros nayi (Volf nayi)		Moyak ortig'i nayi, urug' olib ketuvchi yo'l, urug' pufakchasi, urug' otuvchi yo'l	Tuxumdon ortig'ining bo'ylama nayi (Gartner nayi)
Paramezonefrol nay (Myller nayi)		Moyak ortig'i o'simtasi, erkaklar bachadonchasi	Bachadon naylari, bachadon, qin
Yo'naltiruvchi boylam		Yo'naltiruvchi boylam (embriogeneza)	Bachadonning xususiy boylami, bachadonning yumaloq boylami
Siydik tanosil bo'shliq (sinus)		Erkaklar siydik chiqaruv kanalining prostata qismi	Qin dahlizi
Jinsiy do'mboqcha		Olatning boshchasi	Klitor, klitor boshchasi
Jinsiy burmalar		Olatning g'ovakli tanasi	Kichik jinsiy lablar, dahliz piyozchalari
Jinsiy bo'rtiqchalar		Yorg'oq (qisman)	Kata jinsiy lablar

20 — jadval. Odam jinsi

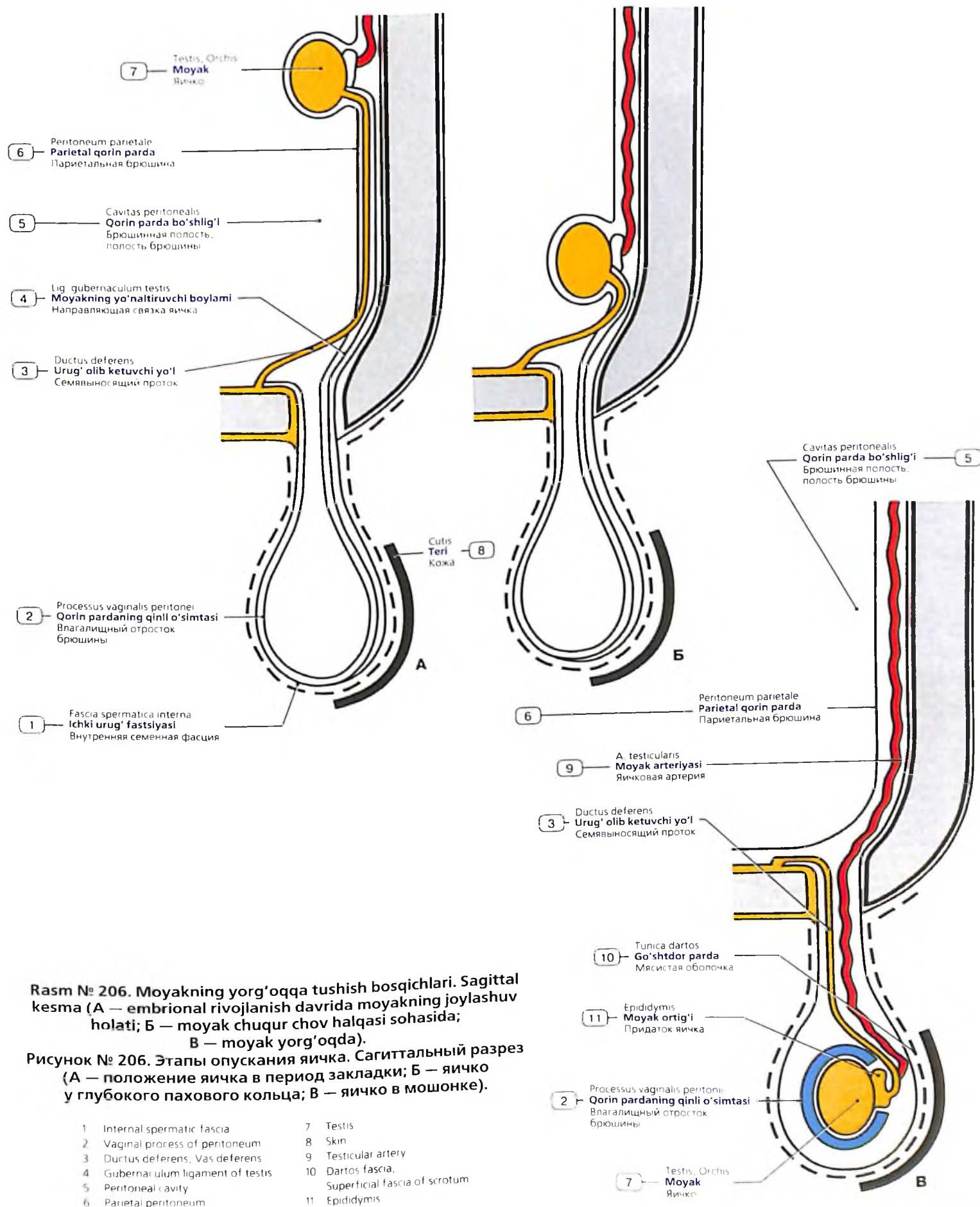
Jins	Belgilari	tasnifi	
		Erkak jinsi	Ayol jinsi
Genetic	Xromosomalar	XY	XX
Gonadali	Jinsiy bezlar	Moyak (Urug'don)	Tuxumdon
Gametal	Jinsiy hujayralar	Spermatazoid	Tuxum hujayra
Gormonal	Gormonlar	Androgenlar	Estrogenlar
Morfologik	Morfologik belgilar		
	Tana uzunligi	Uzunroq	Kaltaroq
	Tana massasi	Ko'proq	Kamroq
	Gavda (nisbiy o'lchamlari)	Kaltaroq	Uzunroq
	Muchalar	Uzunroq	Kaltaroq
	Yelkalari	Kengroq	Torroq
	Chanog'i	Torroq	Keng
	Ko'krak qafasi	Uzun, kengroq	Kalta, torroq
	Qorin	Kaltaroq	Uzunroq
	Mushak massasi	Ko'proq	Kamroq
	Teri osti yog' ketchatkasi	Kamroq	Ko'proq
	Terisi	Qalinroq	Yupqaroq
	Sochlar	Yuzida, tanasida, muchalar sohasida ko'proq Qov va qorin sohasida qalin	Tana sohaslarida kamroq, qorin sohasida bo'lmaydi
	Sut bezlari	Rivojlanmagan	Yaxshi rivojlangan
Miya (serebral)	Bosh miyaning jinsiy deformizmi		
Fuqaroligi	Tug'ilganida rasmiy qayd etilishi	Erkak	Ayol

СИСТЕМА МУЖСКИХ ПОЛОВЫХ ОРГАНОВ



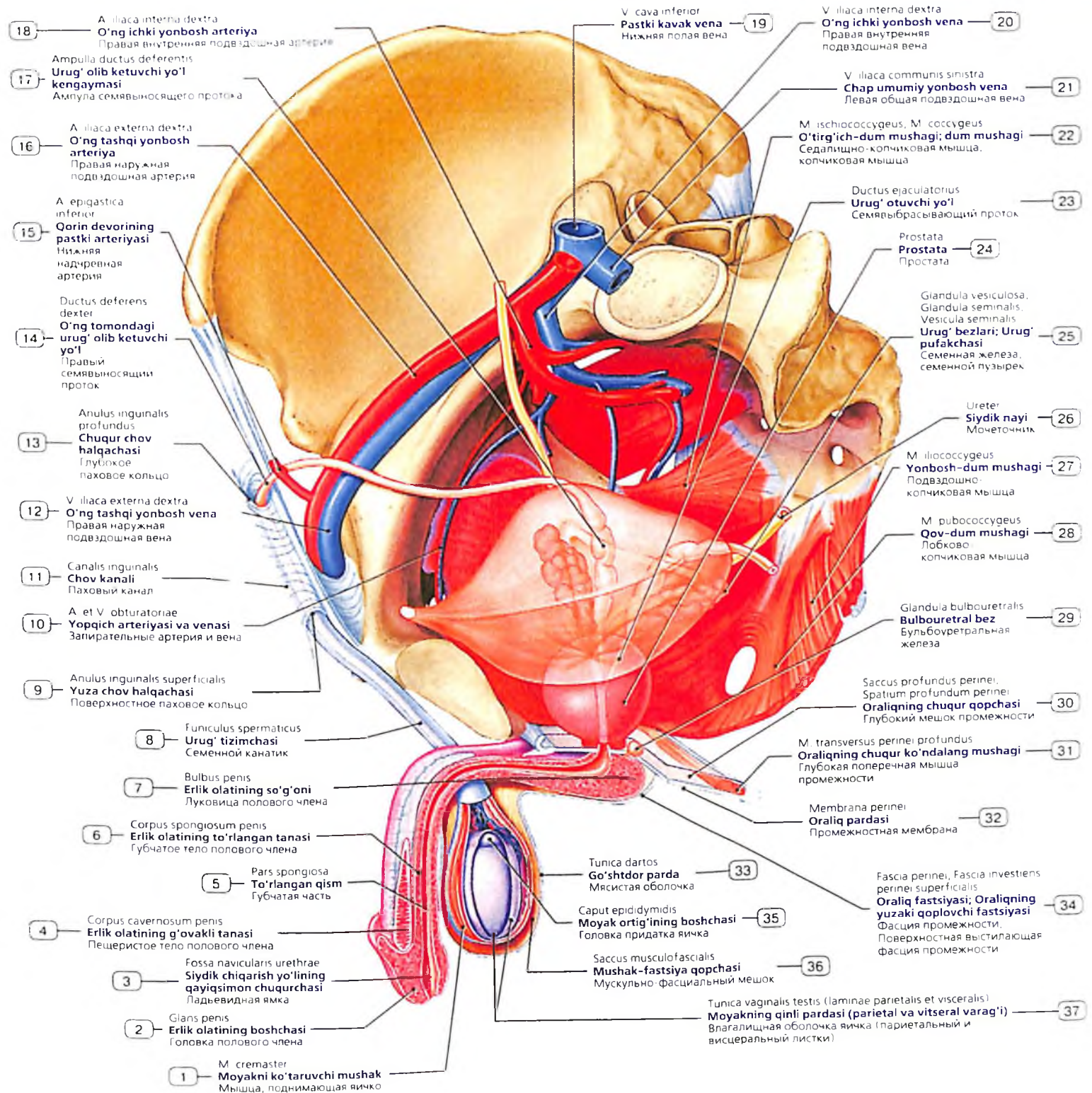
Rasm № 205. Eraklar ichki jinsiy a'zolarining rivojlanishi (chizma).
Рисунок № 205. Развитие внутренних мужских половых органов (схема).

- | | |
|--|--------------------------------------|
| 1. Seminiferous tubules, convoluted seminiferous tubules | 9. Kidney |
| 2. Rete testis | 10. Metanephros |
| 3. Efferent ductules | 11. Diverticulum of metanephros |
| 4. Duct of epididymis | 12. Mesonephros |
| 5. Ductus deferens, Vas deferens | 13. Mesonephros duct |
| 6. Inguinal canal | 14. Paramesonephros (Mullerian) duct |
| 7. Seminal gland, Seminal vesicle | 15. Gubernaculum testis |
| 8. Prostate | 16. Prostate |





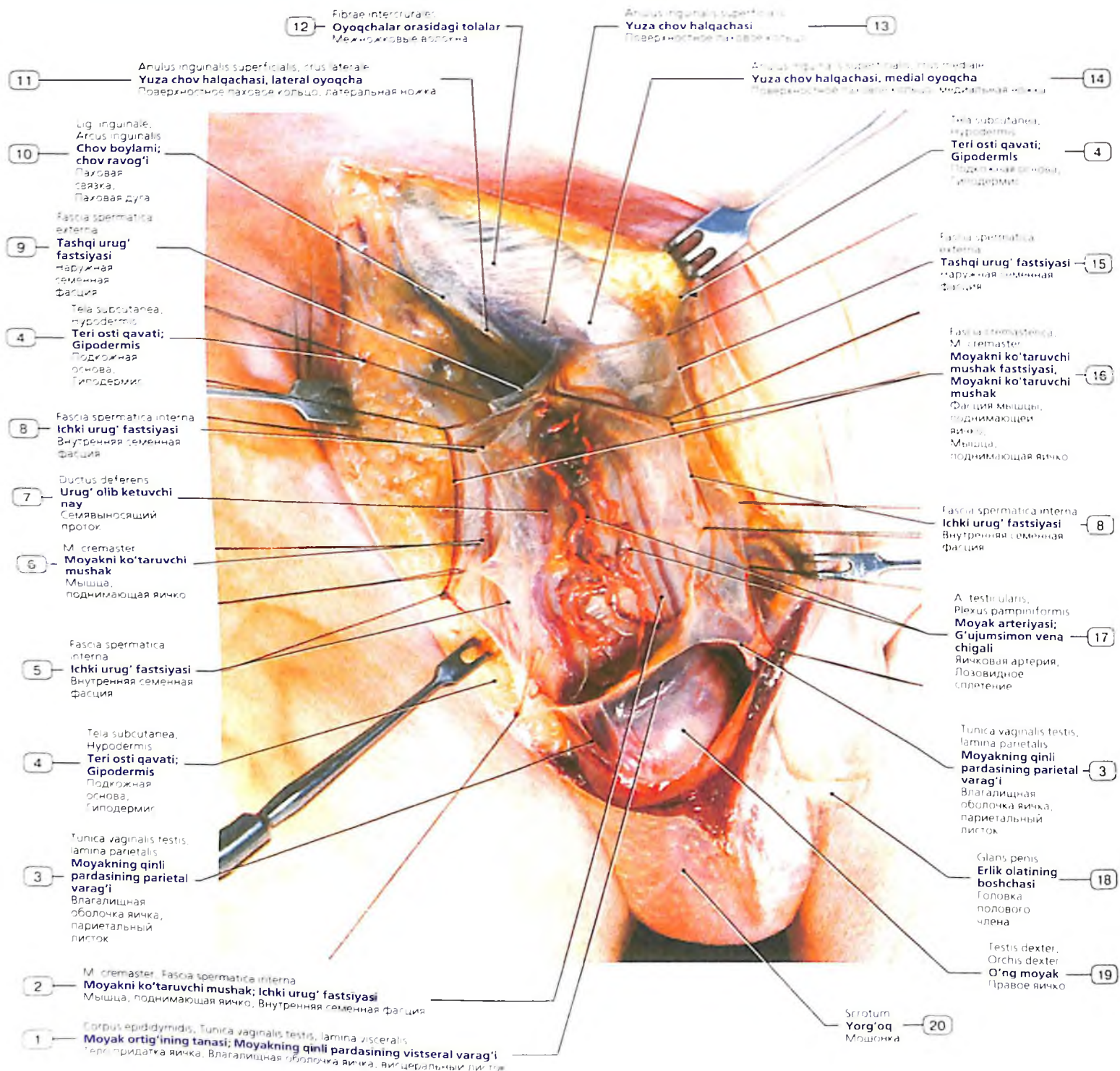
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Rasm № 208. Erkaklar jinsiy a'zolari, urug' olib ketuvchi nay.
Рисунок № 208. Мужские половые органы, семявыносящий проток.

- | | | | | |
|-----------------------------|--------------------------------|-----------------------------------|-----------------------------|---------------------------------|
| 1 Cremaster | 10 Obturator artery and vein | 18 Right internal iliac artery | 27 Iliococcygeus | 33 Dartos fascia. |
| 2 Glans penis | 11 Inguinal canal | 19 Inferior vena cava | 28 Pubococcygeus | Superficial fascia of scrotum |
| 3 Navicular fossa | 12 Right external iliac vein | 20 Right internal iliac vein | 29 Bulbo-urethral gland | 34 Perineal fascia. Superficial |
| 4 Corpus cavernosum penis | 13 Deep inguinal ring | 21 Left common iliac vein | 30 Deep perineal pouch. | investing fascia of perineum |
| 5 Spongy urethra | 14 Right ductus deferens. | 22 Ischiococcygeus, Coccygeus | Deep perineal space | |
| 6 Corpus spongiosum penis | Right vas deferens | 23 Ejaculatory duct | 31 Deep transverse perineal | |
| 7 Bulb of penis | 15 Inferior epigastric artery | 24 Prostate | muscle | |
| 8 Spermatid cord | 16 Right external iliac artery | 25 Seminal gland, Seminal vesicle | 36 Musculofascial pouch | |
| 9 Superficial inguinal ring | 17 Ampulla of ductus deferens | 26 Ureter | 37 Tunica vaginalis | (parietal and visceral layer) |

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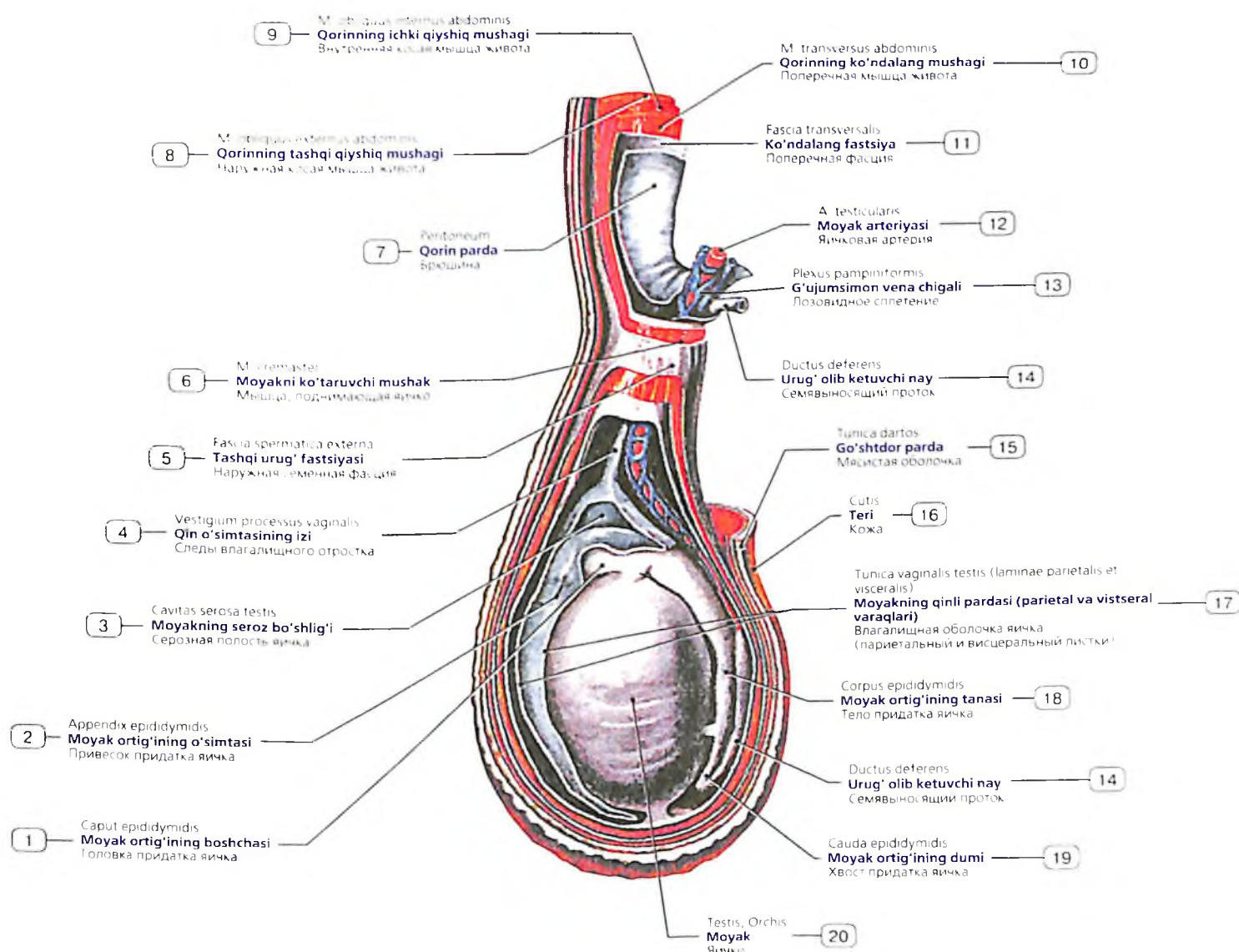
Rasm № 209. Erkaklar jinsiy a'zolari, moyak qinli pardasining parietal varag'i ochilgan
(fiksatsiyalanmagan tabiiy preparatning surati).

Рисунок № 209. Мужские половые органы, париетальный листок влагалищной оболочки вскрыт
(фотография нефиксированного натурального препарата).

- | | | |
|--|--|---|
| 1 Body of Epididymis | 7 Ductus deferens, Vas deferens | 14 Superficial inguinal ring, medial crus |
| 2 Tunica vaginalis, visceral layer | 8 Internal spermatic fascia | 15 External spermatic fascia |
| 3 Cremaster, internal spermatic fascia | 9 External spermatic fascia | 16 Cremasteric fascia, Cremaster |
| 4 Tunica vaginalis, parietal layer | 10 Inguinal ligament | 17 Testicular artery, Pampiniform plexus |
| 5 Subcutaneous tissue | 11 Superficial inguinal ring, lateral crus | 18 Glans penis |
| 6 External spermatic fascia | 12 Interrural fibres | 19 Right testis |
| | 13 Superficial inguinal ring | 20 Scrotum |

21 — jadval. Qorinning old devori va yorg'oq qavatlari

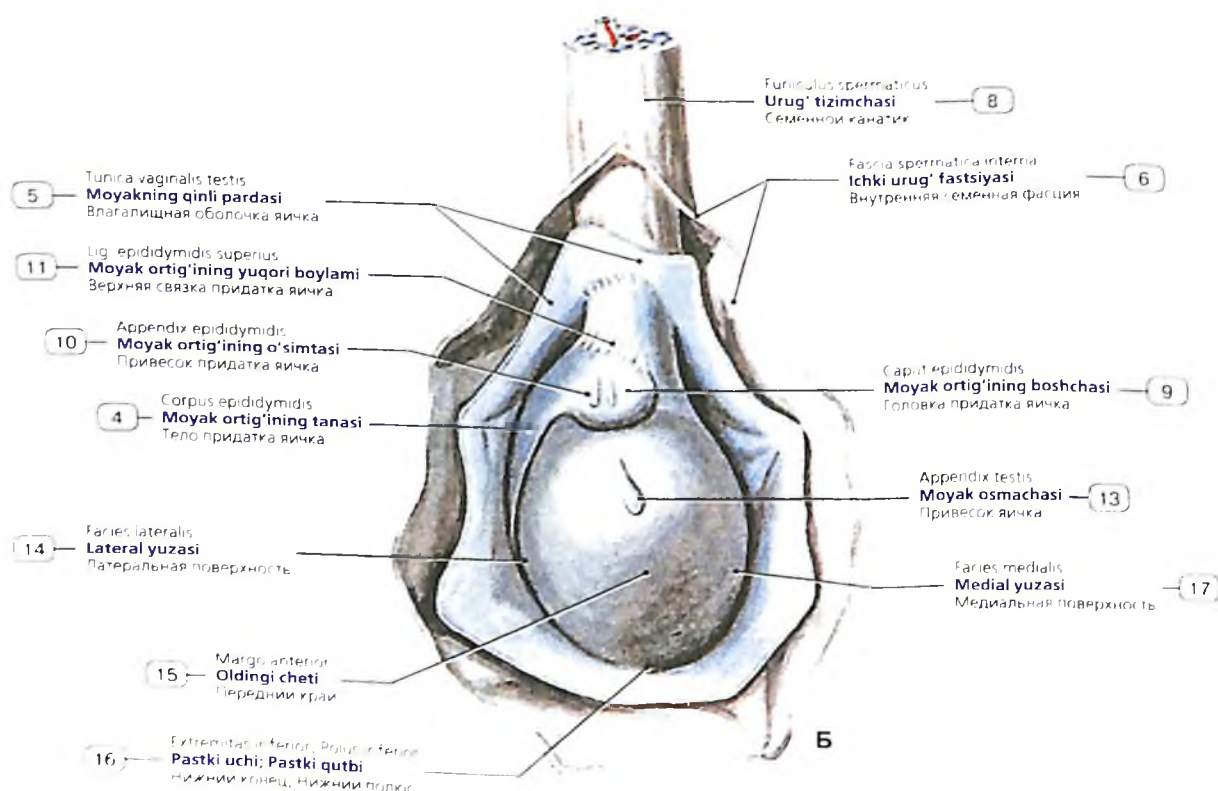
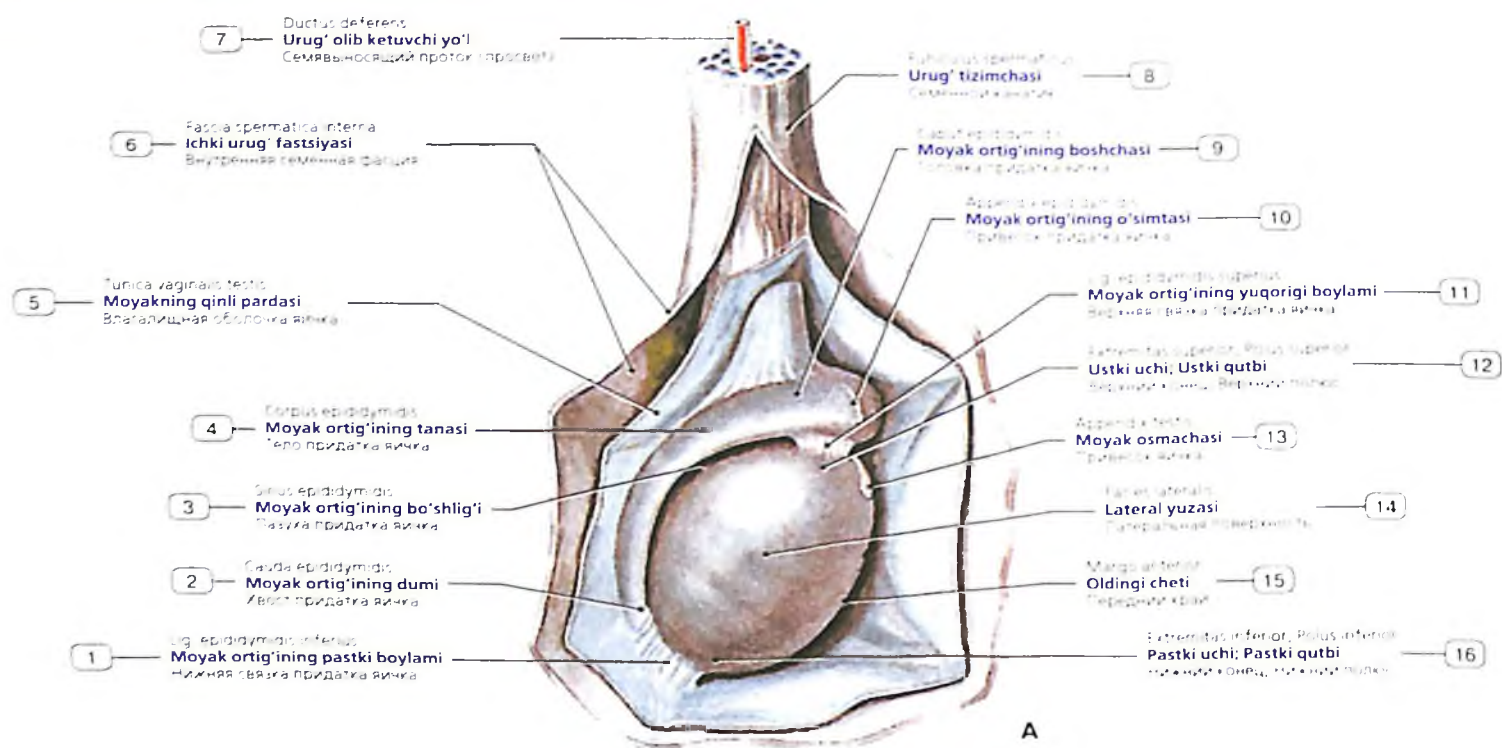
QORIN DEVORI	YORG'OQ
Teri	Teri
Teri osti qavati	Go'shtdor parda
Qorinning yuza fastsiyasi	Tashqi urug' fastsiyasi
Qorinning tashqi qiyshiq mushagining xususiy fastsiyasi	Moyakni ko'taruvchi mushak fastsiyasi
Qorinning ichki qiyshiq va ko'ndalang mushagi	Moyakni ko'taruvchi mushak
Ko'ndalang fastsiya	Ichki urug' fastsiyasi
Qorin pardaning parietal varag'i	Moyakning qin pardasi (parietal va vistseral varag'i)



Rasm № 210. Moyak va urug' tizimchasining pardalari (chizma).
Рисунок № 210. Оболочки яичка и семенного канатика (схема).

- | | | | |
|----------------------------------|--------------------------|----------------------------------|---|
| 1 Head of epididymis | 7 Peritoneum | 12 Testicular artery | 17 Tunica vaginalis (parietal and visceral layer) |
| 2 Appendix of epididymis | 8 External oblique | 13 Pampiniform plexus | 18 Body of epididymis |
| 3 Serosa cavity of testis | 9 Internal oblique | 14 Ductus deferens, Vas deferens | 19 Tail of epididymis |
| 4 Vestige of processus vaginalis | 10 Transversus abdominis | 15 Dartos fascia | 20 Testis |
| 5 External spermatic fascia | 11 Transversalis fascia | Superficial fascia of scrotum | |
| 6 Cremaster | | 16 Skin | |

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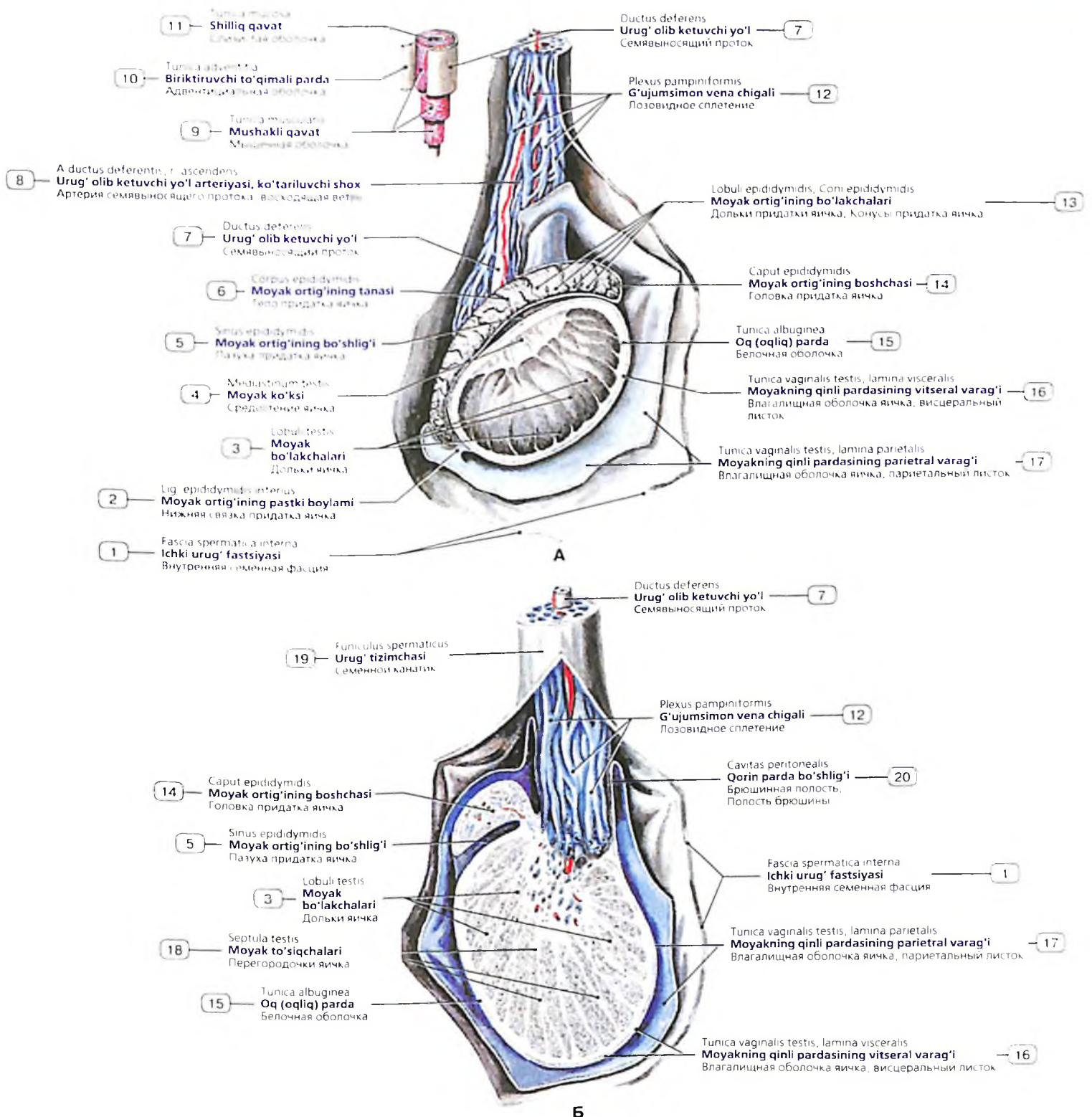


Rasm № 211. O'ng moyak va moyak ortig'i (A — yondan ko'rinishi; B — oldindan ko'rinishi).
Рисунок № 211. Яичко и придаток яичка, правые (А — вид сбоку; Б — вид спереди).

1. Inferior ligament of epididymis
2. Caput epididymidis
3. Corpus epididymidis
4. Body of epididymis
5. Tunica vaginalis testis

7. Ductus deferens, Vas deferens
8. Spermatic cord
9. Head of epididymis
10. Appendix of epididymis
11. Superior ligament of epididymis
12. Upper pole, Superior pole

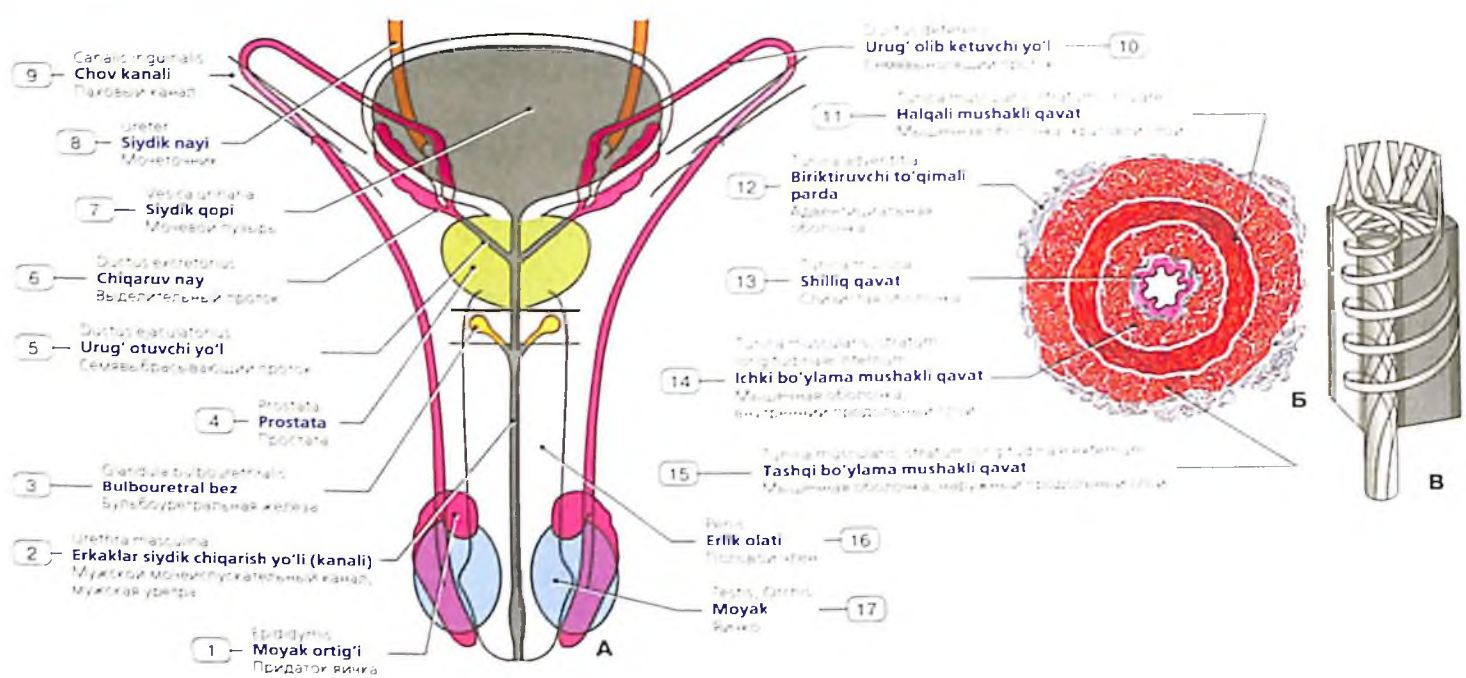
13. Appendix of testis
14. Lateral surface
15. Anterior border
16. Lower pole, inferior pole
17. Medial surface



Rasm № 212. O'ng moyak va moyak ortig'i
(A — yon tomondan ko'rinishi, oqliq parda va qinli pardasi qisman olib tashlangan; B — ko'ndalang kesma).
Рисунок № 212. Яичко и придаток яичка, правые
(A — вид сбоку, белочная и влагалищная оболочки частично удалены; B — продольный разрез).

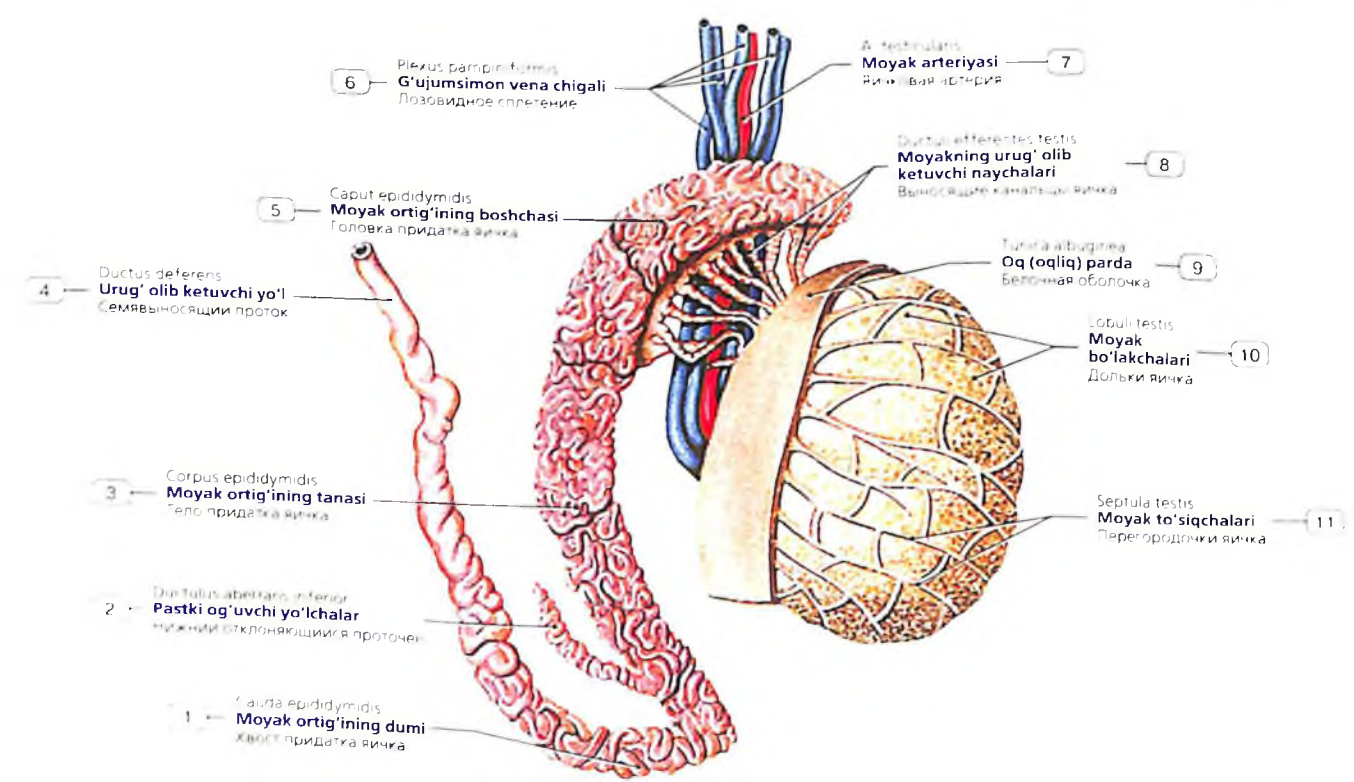
- | | | | | |
|------------------------------------|--|----------------------------------|--|--------------------------------------|
| 1. Internal spermatic fascia | 6. Body of epididymis | 9. Muscular layer, Muscular coat | 13. Lobules of epididymis, Conical lobules of epididymis | 17. Tunica vaginalis, parietal layer |
| 2. Inferior ligament of epididymis | 7. Ductus deferens, Vas deferens | 10. Adventitia | 14. Head of epididymis | 18. Septa testis |
| 3. Lobules of testis | 8. Artery to ductus deferens | 11. Mucosa, Mucous membrane | 15. Tunica albuginea | 19. Spermatic cord |
| 4. Mediastinum of testis | Artery to vas deferens, ascending branch | 12. Pampiniform plexus | 16. Tunica vaginalis, visceral layer | 20. Peritoneal cavity |
| 5. Sinus of epididymis | | | | |

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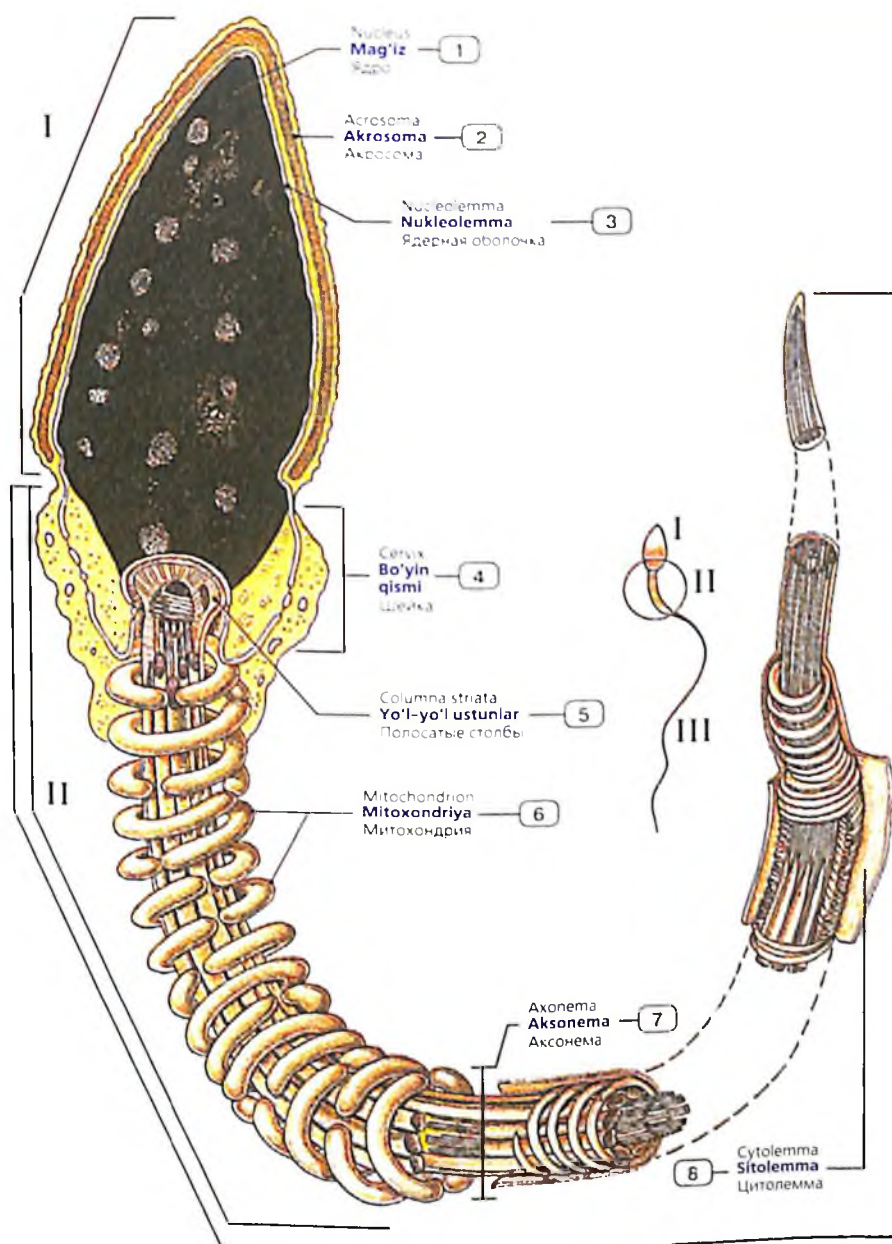
Rasm № 213. Urug' olib ketuvchi yo'l (A — chizma; B — ko'ndalang kesma, mushak qavati).
Рисунок № 213. Семявыносящий проток (A — схема; B — поперечный разрез, мышечная оболочка).

- | | | | | |
|-------------------------|---------------------|---|--|--|
| 1. Epididymis | 5. Ejaculatory duct | 9. Inguinal canal | 12. Adipose tissue | 15. Muscular layer, muscular coat, external longitudinal layer |
| 2. Male urethra | 6. Excretory duct | 10. Ductus deferens, Vas deferens | 13. Muscular layer, muscular coat, internal longitudinal layer | 16. Penis |
| 3. Bulbo-urethral gland | 7. Urinary bladder | 11. Muscular layer, Muscular coat, circular layer | 14. Muscular layer, muscular coat, internal longitudinal layer | 17. Testis |
| 4. Prostate | 8. Ureter | | | |



Rasm № 214. Moyak, moyak ortig'i va urug' olib ketuvchi nay.
Рисунок № 214. Яичко, придаток яичка и семявыносящий проток.

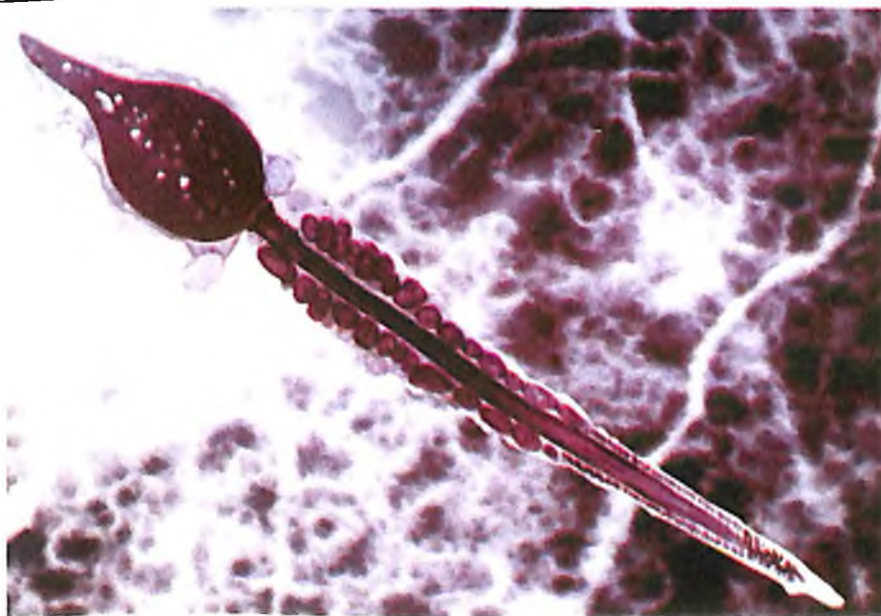
- | | | | |
|------------------------|----------------------------------|----------------------|-----------------------|
| 1. Caput epididymidis | 4. Ductus deferens, Vas deferens | 7. Testicular artery | 10. Lobules of testis |
| 2. Corpus epididymidis | 5. Head of epididymis | 8. Efferent ductules | 11. Septa testis |
| 3. Body of epididymis | 6. Pampiniform plexus | 9. Tunica albuginea | |



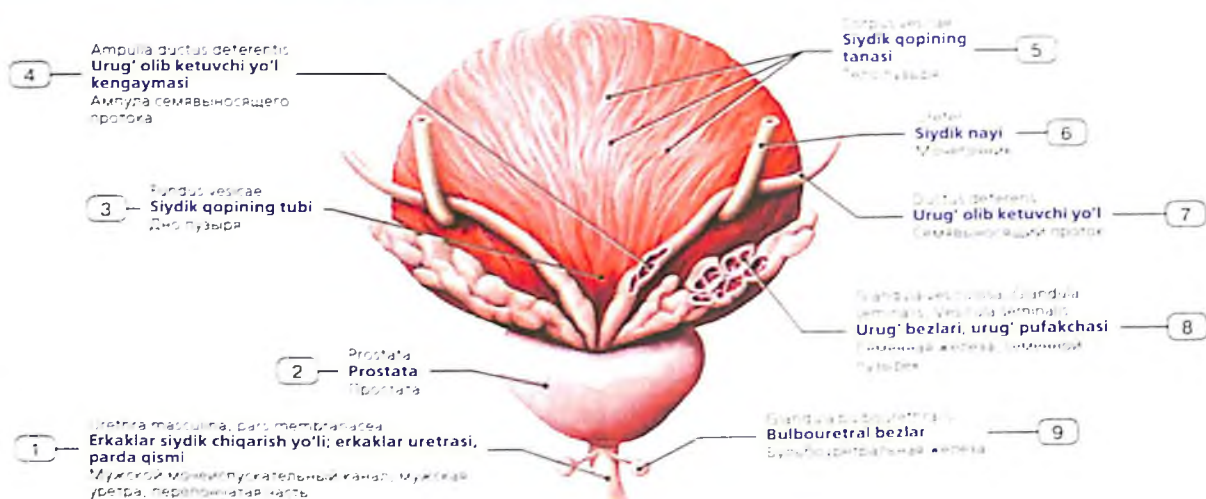
Rasm № 215. Spermatozoid tuzilishi
(I — boshchasi; II — o'rta qismi;
III — ipsimon dum) (chizma).
Рисунок № 215. Строение сперматозоида
(I — головка; II — средняя часть; III — жгутик)
(схема).

- | | |
|--------------------|-------------------|
| 1 Core | 5 Striped columns |
| 2 Akrosoma | 6 Mitochondria |
| 3 Nuclear envelope | 7 Axonema |
| 4 Cervix | 8 Cytolemma |

Rasm № 216. Odam spermatozoidi
(transmissiv elektronogramma).
Рисунок № 216. Сперматозоид человека
(трансмиссивная электронограмма).

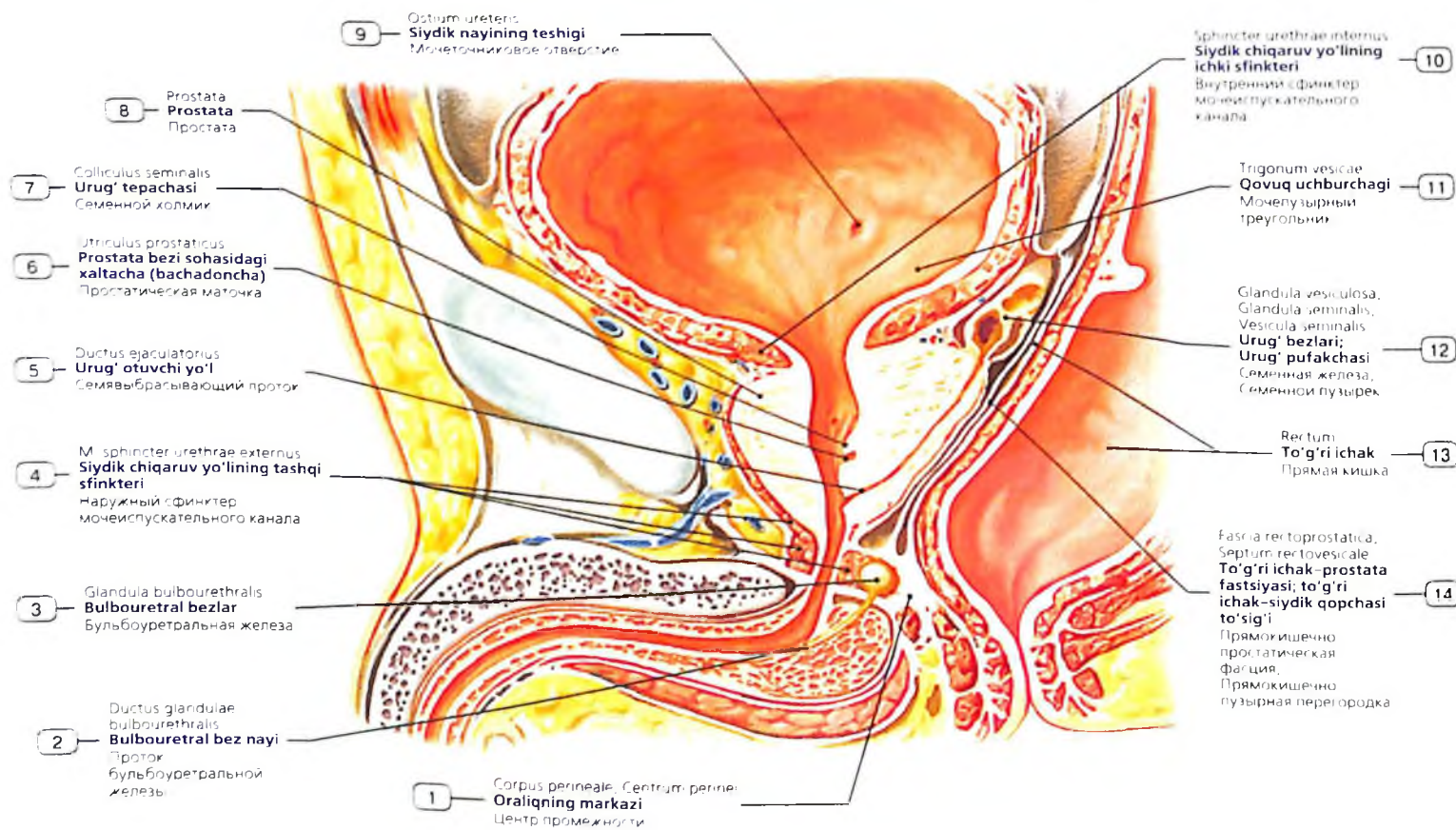


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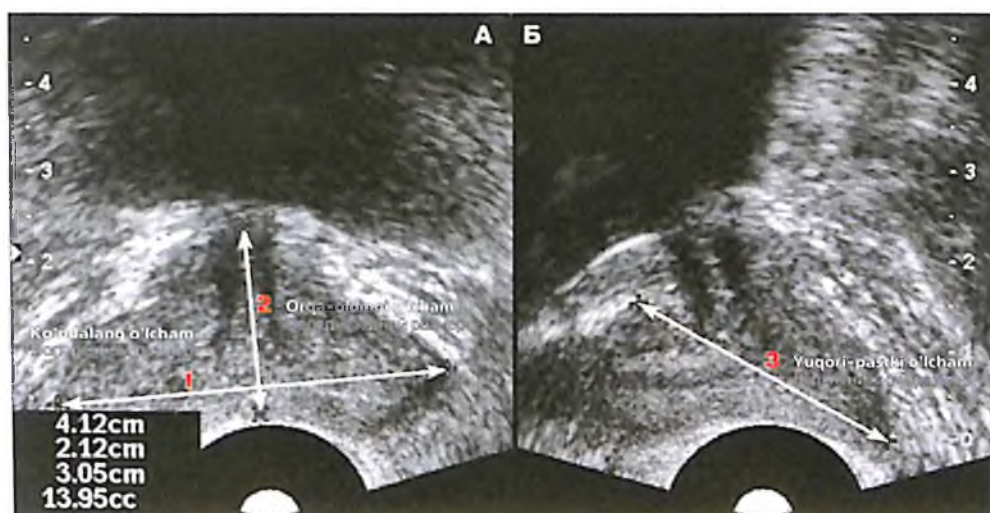
Rasm № 217. Prostata.
Рисунок № 217. Простата.

- | | | |
|----------------------------------|---------------------------------|------------------------------------|
| 1. Male urethra, Membranous part | 4. Ampulla of ductus deferentis | 7. Ductus deferentis, Vas deferens |
| 2. Prostate | 5. Body of bladder | 8. Seminal gland, Seminal vesicle |
| 3. Fundus of bladder | 6. Ureter | 9. Bulbourethral gland |



Rasm № 218. Eraklar kichik chanog'i a'zolari, sagittal kesma.
Рисунок № 218. Органы малого таза мужчины, сагиттальный срез.

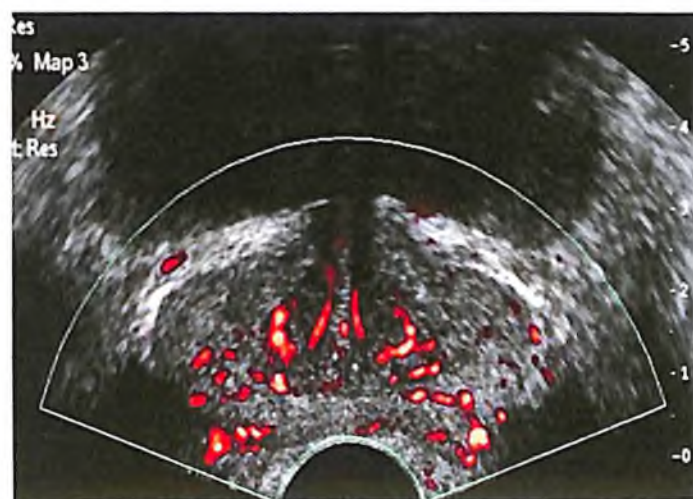
- | | | |
|--------------------------------|---------------------------------|--|
| 1. Perineal body | 6. Prostatic utricle | 11. Trigone of bladder |
| 2. Duct of bulbourethral gland | 7. Seminal colliculus | 12. Seminal gland, Seminal vesicle |
| 3. Bulbourethral gland | 8. Prostate | 13. Rectum |
| 4. External urethral sphincter | 9. Ureteric orifice | 14. Rectoprostatic fascia, Rectovesical septum |
| 5. Ejaculatory duct | 10. Internal urethral sphincter | |



Rasm № 219. Prostatani transrektal ultratovush tekshiruvi, B-rejim (A — ko'ndalang skanirlash; B — bo'ylama skanirlash) (S.K. Ternov bo'yicha).
Рисунок № 219. Трансректальное ультразвуковое исследование простаты, В-режим (А — поперечное; Б — продольное сканирование) (по С.К. Терновому).

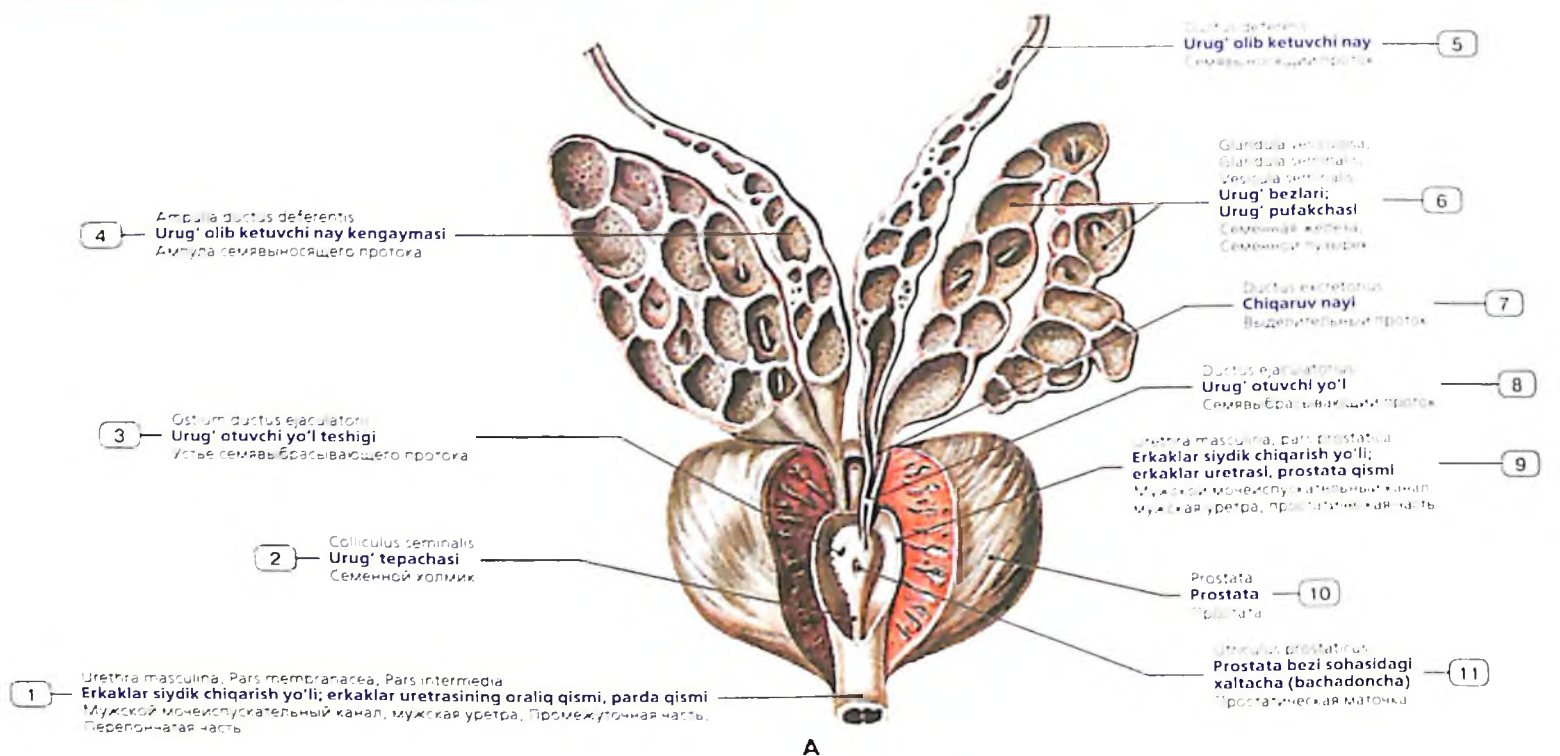


Rasm № 220. Prostataning transrektal ultratovush tekshiruvi, ko'ndalang skanirlash, B-rejim (S.K. Ternov bo'yicha).
Рисунок № 220. Трансректальное ультразвуковое исследование простаты, поперечное сканирование, В-режим (по С.К. Терновому).

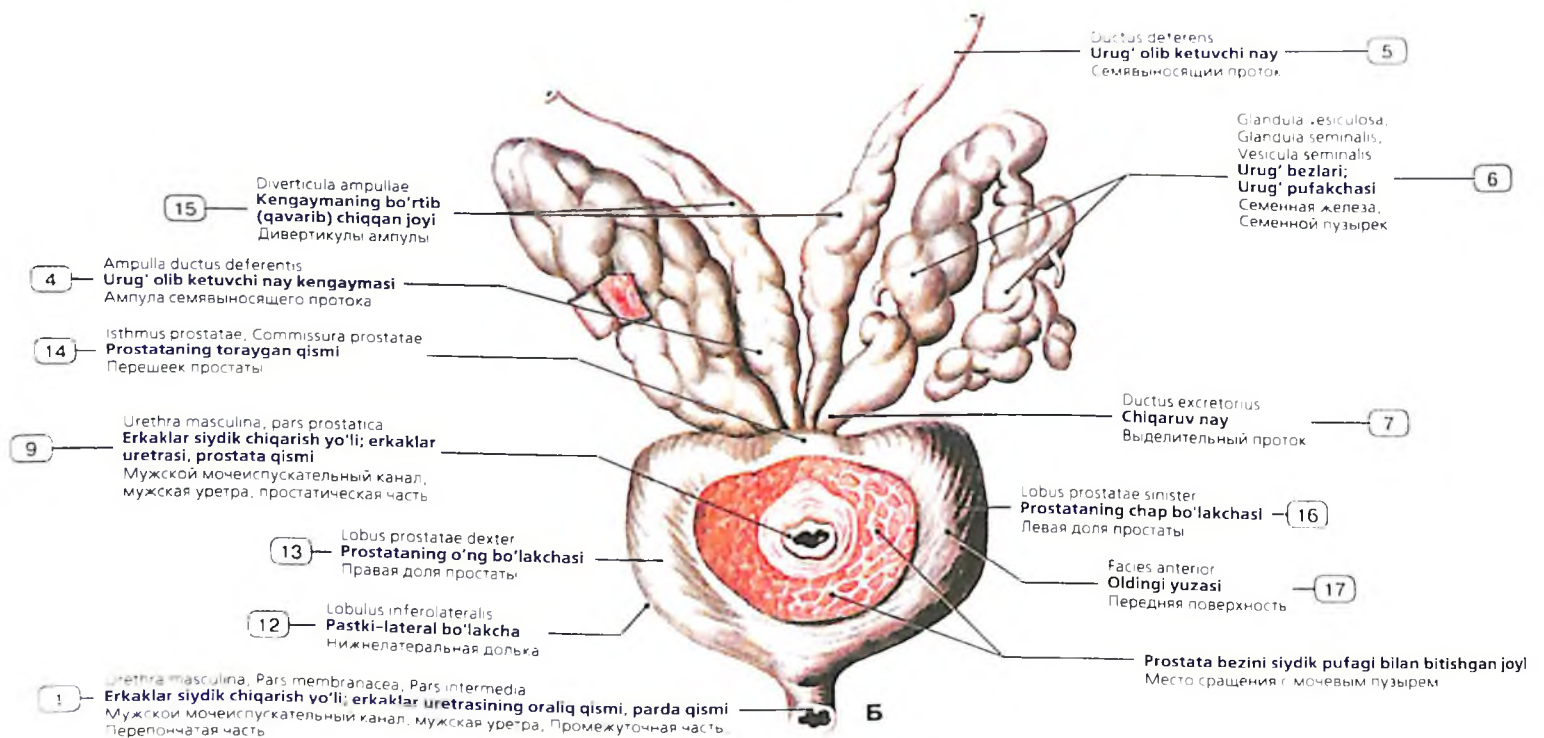


Rasm № 221. Prostatani transrektal ultratovush tekshiruvi, EK-rejim, prostataning tomir surati (uch o'lchamli rekonstruksiya) (S.K. Ternov bo'yicha).
Рисунок № 221. Трансректальное ультразвуковое исследование простаты, режим ЭК, сосудистый рисунок простаты (трехмерная реконструкция) (по С.К. Терновому).

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A



B

Rasm № 222. Urug' pufakchalari va prostata, oldindan ko'rinishi [A — urug' pufakchalari va Urug' olib ketuvchi nay (yo'l) kengaymasi ochilgan, prostataning bir qismi olib tashlangan va siydik chiqarish nayining prostata bezi sohasidagi qismi ochilgan; B — prostata va siydik chiqarish yo'lining ko'ndalang kesmasi].

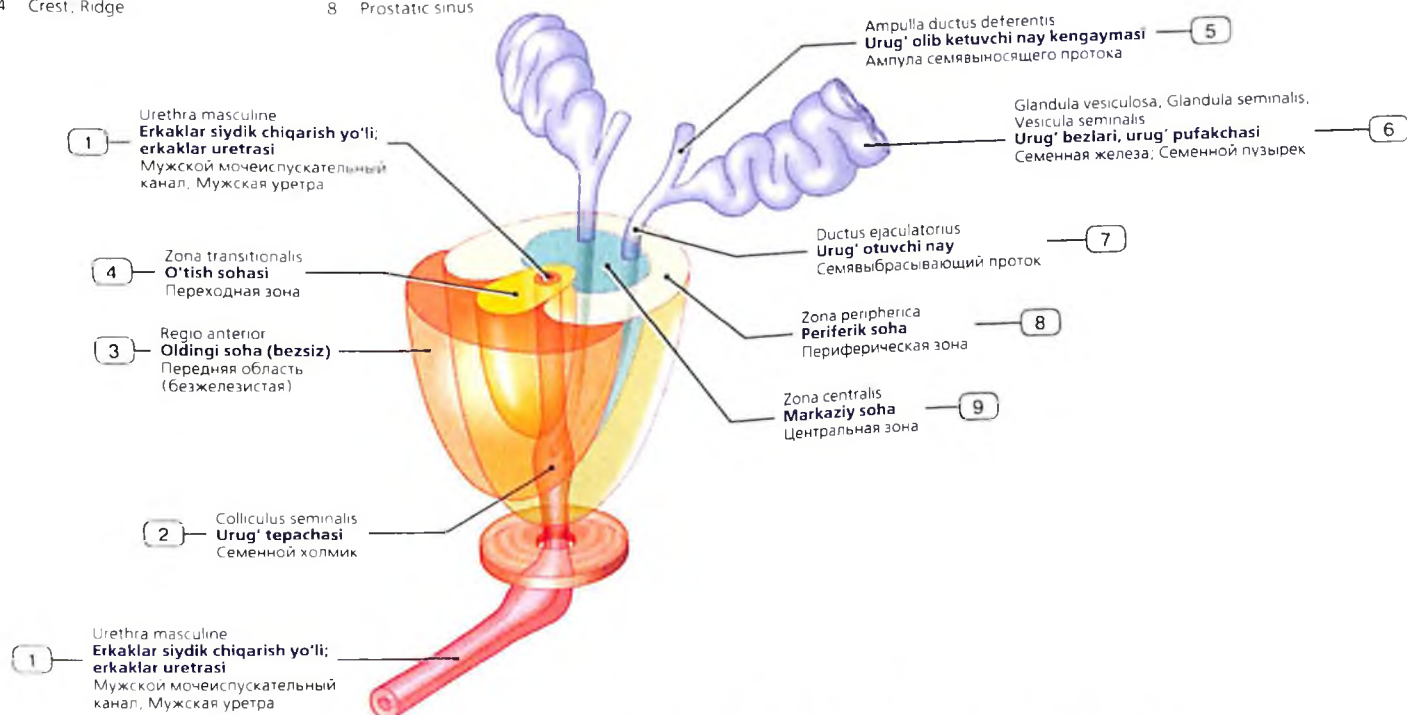
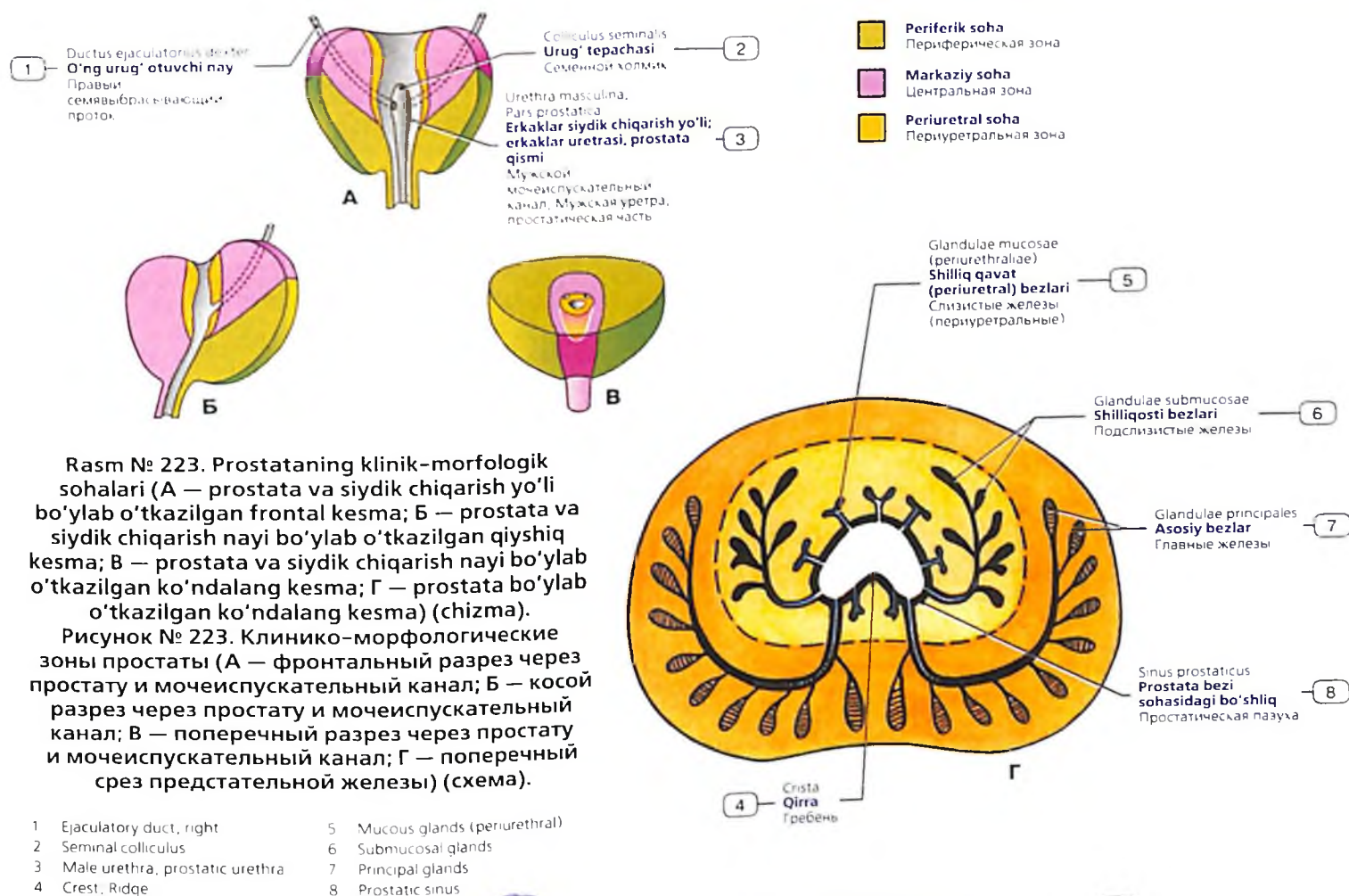
Рисунок № 222. Семенные пузырьки и простата, вид спереди [A — семенные пузырьки и ампулы семявыносящих протоков вскрыты, часть простаты удалена и вскрыт мочеиспускательный канал (предстательная часть); B — поперечный разрез простаты и уретры].

- 1 Male urethra, intermediate part
- 2 Seminal colliculus
- 3 Ostium of ejaculatory duct
- 4 Ampulla of ductus deferens

- 5 Ductus deferens, Vas deferens
- 6 Seminal gland, Seminal vesicle
- 7 Excretory duct
- 8 Ejaculatory duct
- 9 Male urethra, prostatic urethra

- 10 Prostate
- 11 Prostatic utricle
- 12 Inferolateral lobule
- 13 Right lobe of prostate

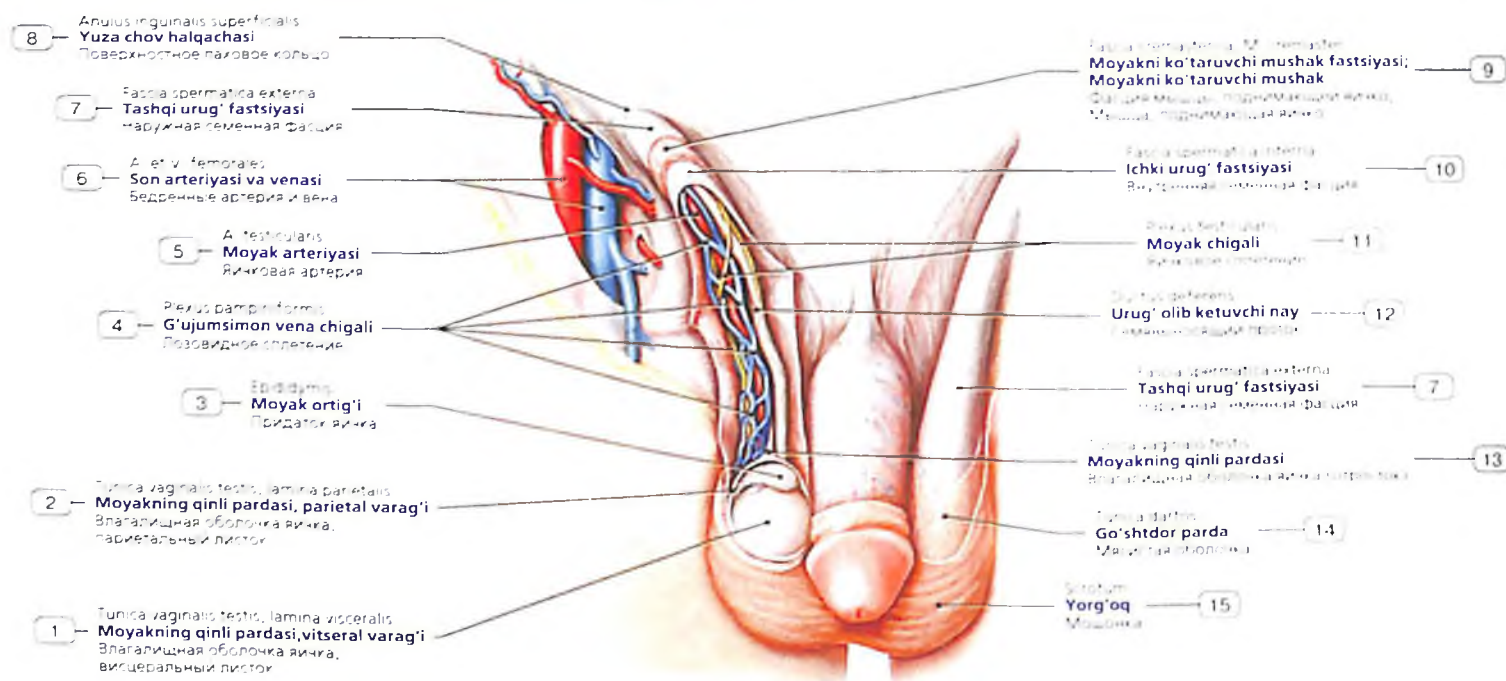
- 14 Isthmus of prostate, Commissure of prostate
- 15 Diverticula of ampulla
- 16 Left lobe of prostate
- 17 Anterior surface



Rasm № 224. Prostata va erkaklar siydik chiqarish yo'li (rekonstruksiya).
Рисунок № 224. Простата и мужская уретра (реконструкция).

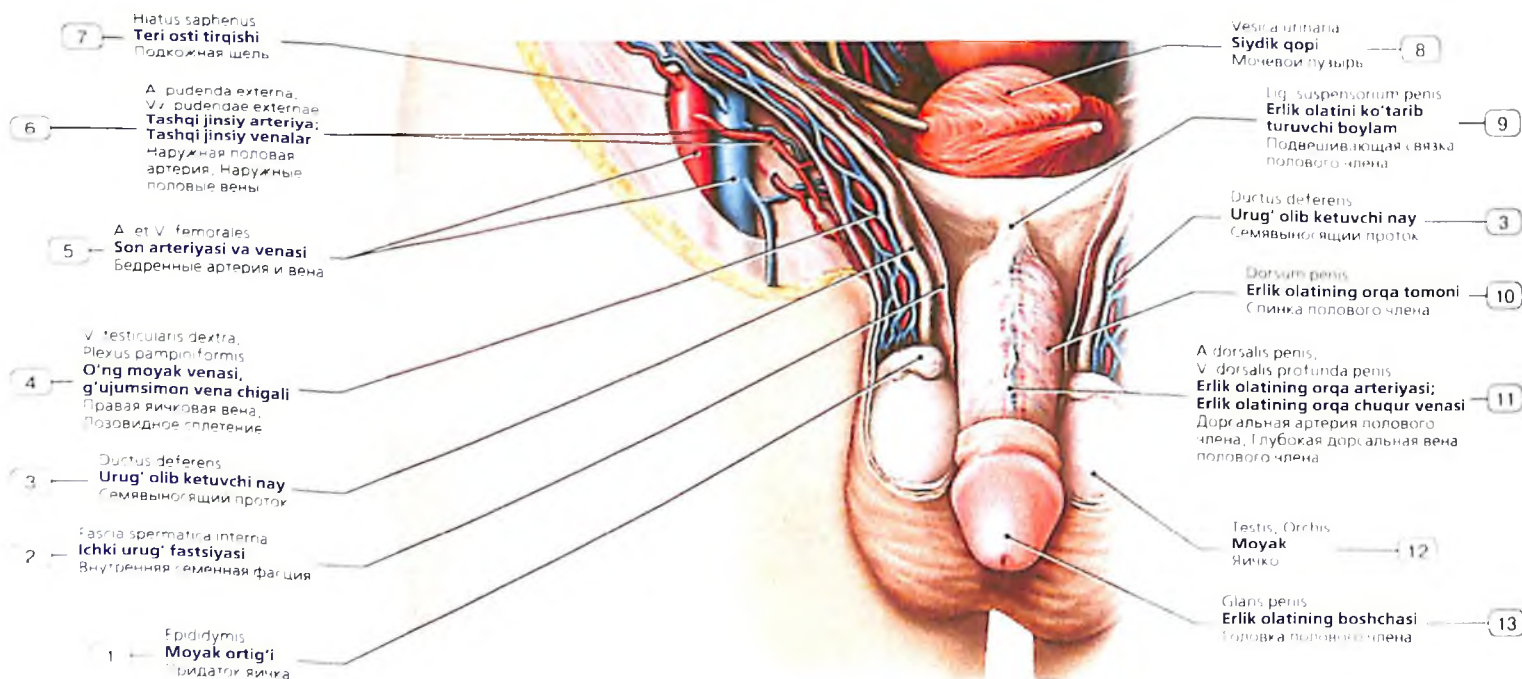
- | | | | | |
|----------------------|-----------------------------------|------------------------------|----------------------------------|-------------------|
| 1 Male urethra | 3 Anterior region (non glandular) | 4 Transitional zone | 6 Seminal gland, Seminal vesicle | 8 Peripheral zone |
| 2 Seminal colliculus | | 5 Ampulla of ductus deferens | 7 Ejaculatory duct | 9 Central zone |

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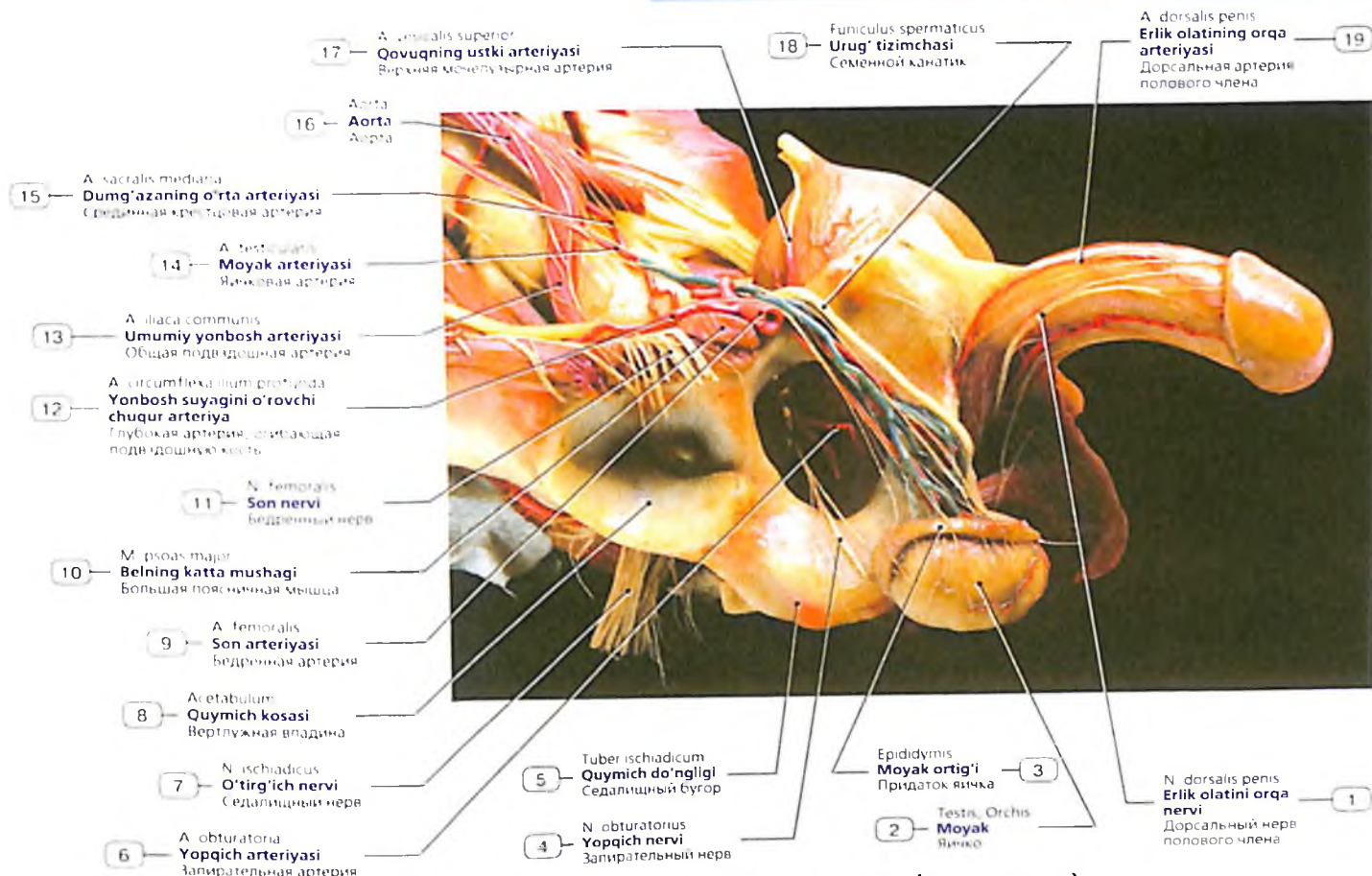
Rasm № 225. Urug' tizimchasi va erkaklar tashqi jinsiy a'zolari.
Рисунок № 225. Семенной канатик и наружные мужские половые органы.

- | | | | |
|------------------------------------|-----------------------------|----------------------------------|---|
| 1 Tunica vaginalis, visceral layer | 5 Testicular artery | 9 Cremasteric fascia, Cremaster | 13 Tunica vaginalis (process) |
| 2 Tunica vaginalis, parietal layer | 6 Femoral artery and vein | 10 Internal spermatic fascia | 14 Dartos fascia, superficial fascia of scrotum |
| 3 Epididymis | 7 External spermatic fascia | 11 Testicular plexus | 15 Scrotum |
| 4 Pampiniform plexus | 8 Superficial inguinal ring | 12 Ductus deferens, Vas deferens | |

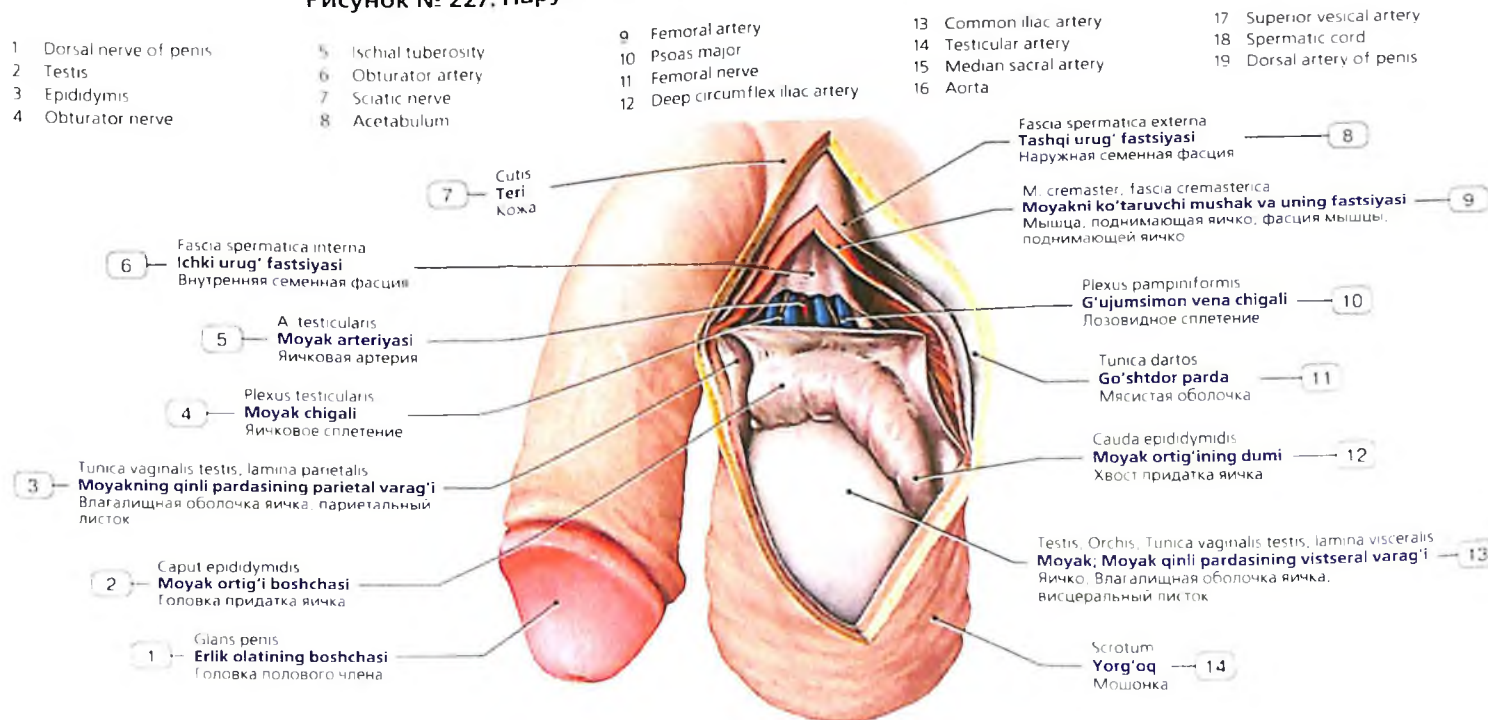


Rasm № 226. Erkaklar tashqi jinsiy a'zolari, yorg'oq har ikkala tomondan ochilgan.
Рисунок № 226. Наружные мужские половые органы, мошонка с обеих сторон вскрыта.

- | | | |
|---|----------------------------|------------------------------|
| 1 Epididymis | 6 External pudendal artery | 10 Dorsum of penis |
| 2 Internal spermatic fascia | 7 External pudendal vein | 11 Dorsal artery of penis |
| 3 Ductus deferens, Vas deferens | 8 Saphenous opening | 12 Deep dorsal vein of penis |
| 4 Right testicular vein, Pampiniform plexus | 9 Urinary bladder | 13 Testis |
| 5 Left testicular artery, Femoral vein | | 14 Glans penis |



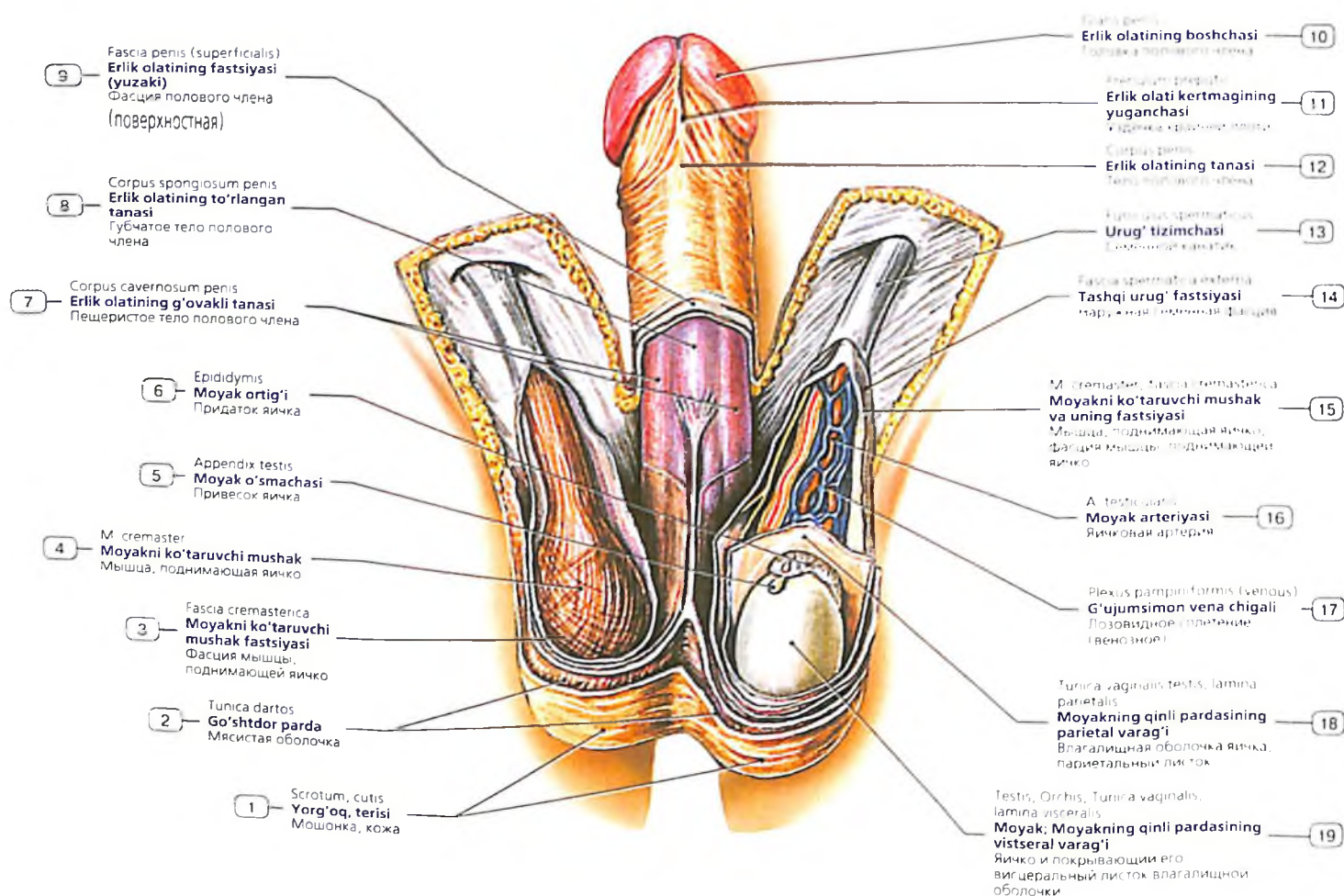
Rasm № 227. Erkaklar tashqi jinsiy a'zolari (mumdan tayyorlangan nusxa).
Рисунок № 227. Наружные мужские половые органы (восковая модель).



Rasm № 228. Erkaklar tashqi jinsiy a'zolari, yorg'oq kesib ochilgan.
Рисунок № 228. Наружные мужские половые органы, мошонка рассечена.

- | | | | |
|------------------------------------|-----------------------------|---|---|
| 1 Glans penis | 5 Testicular artery | 9 Cremaster, cremasteric fascia | 12 Tail of epididymis |
| 2 Head of epididymis | 6 Internal spermatic fascia | 10 Pampiniform plexus | 13 Testis, Tunica vaginalis, visceral layer |
| 3 Tunica vaginalis, parietal layer | 7 Skin | 11 Dartos fascia, superficial fascia of scrotum | 14 Scrotum |
| 4 Testicular plexus | 8 External spermatic fascia | | |

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Rasm № 229. Erlik olati va yorg'oq, pastdan ko'rinishi, yorg'oqning oldingi qismi olib tashlangan.
Рисунок № 229. Половой член и мошонка, вид снизу, передняя часть мошонки удалена.

- | | | |
|--|---------------------------------|---|
| 1 Scrotum, skin | 8 Corpus spongiosum penis | 15 Cremaster, Cremasteric fascia |
| 2 Dartos fascia, superficial fascia of scrotum | 9 Fascia of penis (superficial) | 16 Testicular artery |
| 3 Cremasteric fascia | 10 Glans penis | 17 Pampiniform plexus (venous) |
| 4 Cremaster | 11 Frenulum | 18 Tunica vaginalis, parietal layer |
| 5 Appendix of testis | 12 Body of penis | 19 Testis, Tunica vaginalis, visceral layer |
| 6 Epididymis | 13 Spermatic cord | |
| 7 Fascia spermatica penis | 14 External spermatic fascia | |

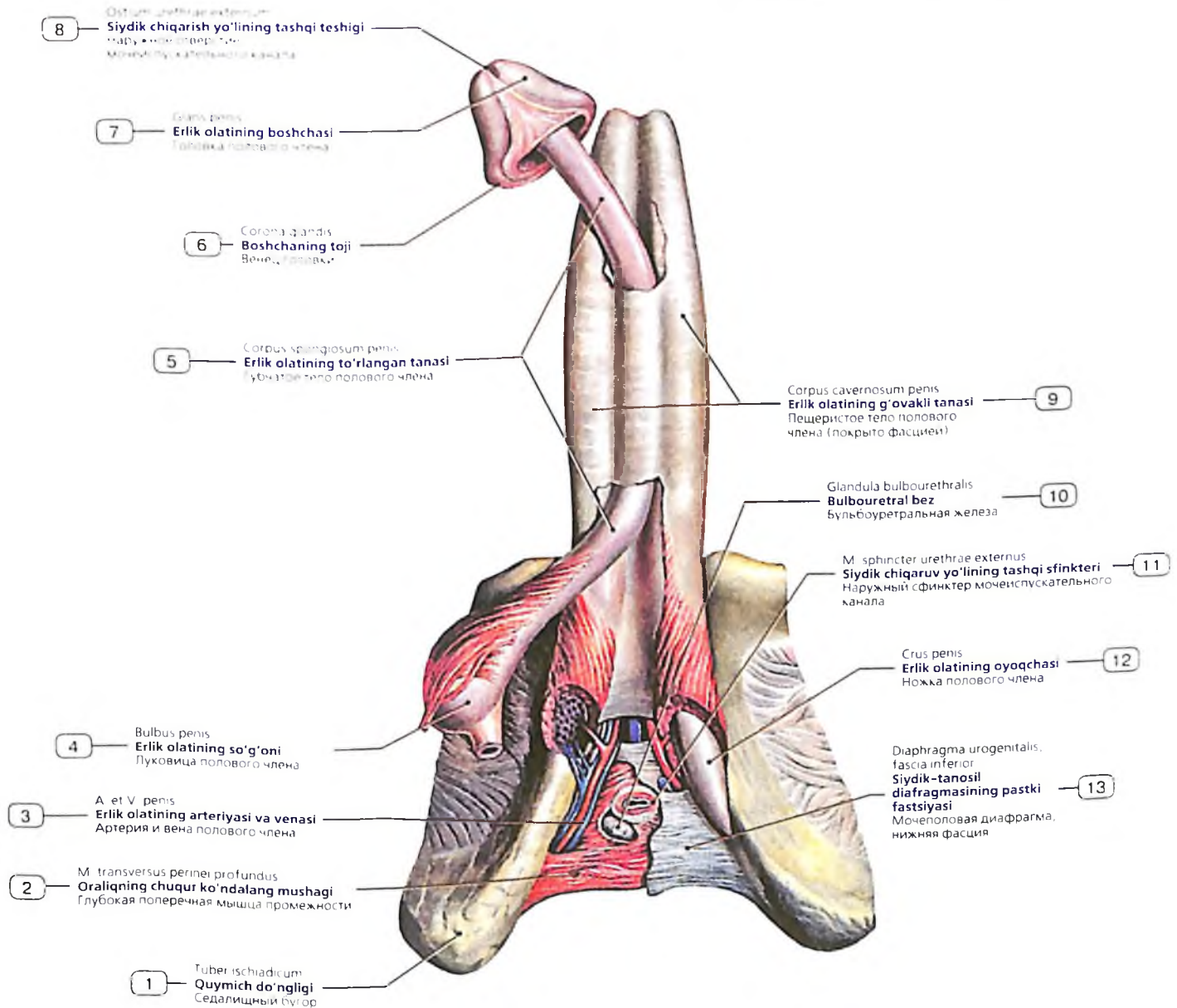
Xalqaro Anatomic Terminologiyada keng ishlatilgan «Siydik tanosil diafragmasi» termini hozirda mavjud emas. Shuning uchun «pars membranacea» siydik chiqaruv nayining «membrana perinealis» dan o'tuvchi qismi emas, aksincha «prostatica urethrae» va «pars spongiosa urethrae» orasidagi qismi deb tushuniladi. Siydik chiqaruv kanalining bo'yinchasi «membrana perinealis» dan «colliculus seminalis» ning distal uchigacha boradi, u prostata bezi uchidan 0-1 sm yuqorida joylashadi.

Lotin: Pars intermedia, Pars membranacea

O'zbek: Oraliq qism, parda qismi

Russkii: Промежуточная часть, перепончатая часть

English: Intermediate part of urethra, Membranous urethra



Rasm № 230. Erlak olatining tuzilishi.
Рисунок № 230. Строение полового члена.

- 1 Ischial tuberosity
- 2 Deep transverse perineal muscle
- 3 Artery and vein of penis
- 4 Bulb of penis
- 5 Corpus spongiosum penis
- 6 Corona of glans
- 7 Glans penis

- 8 External urethral orifice, External urinary meatus
- 9 Corpus cavernosum penis
- 10 Bulbourethral gland
- 11 External urethral sphincter
- 12 Crus of penis
- 13 Urogenital diaphragm, inferior fascia

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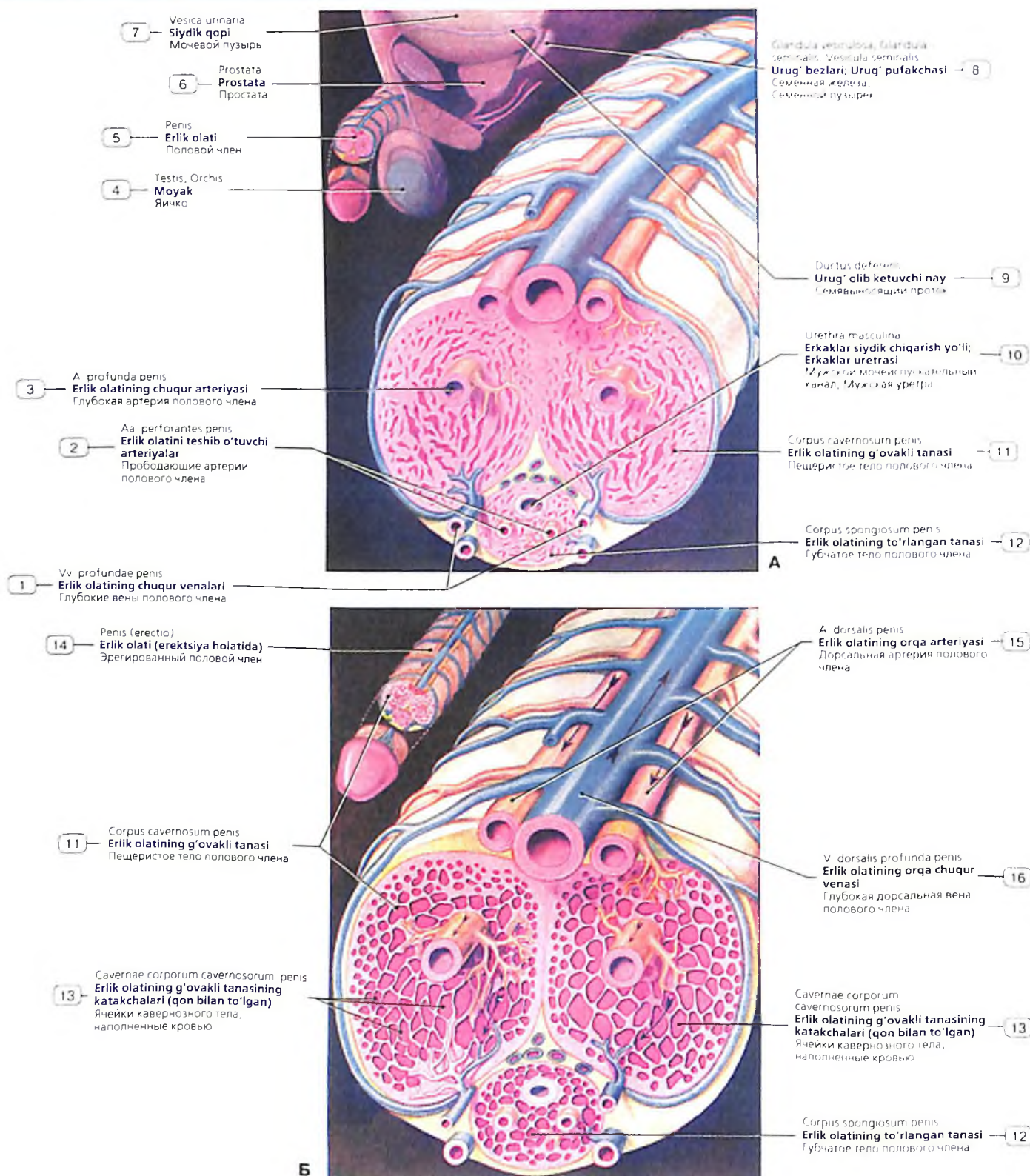
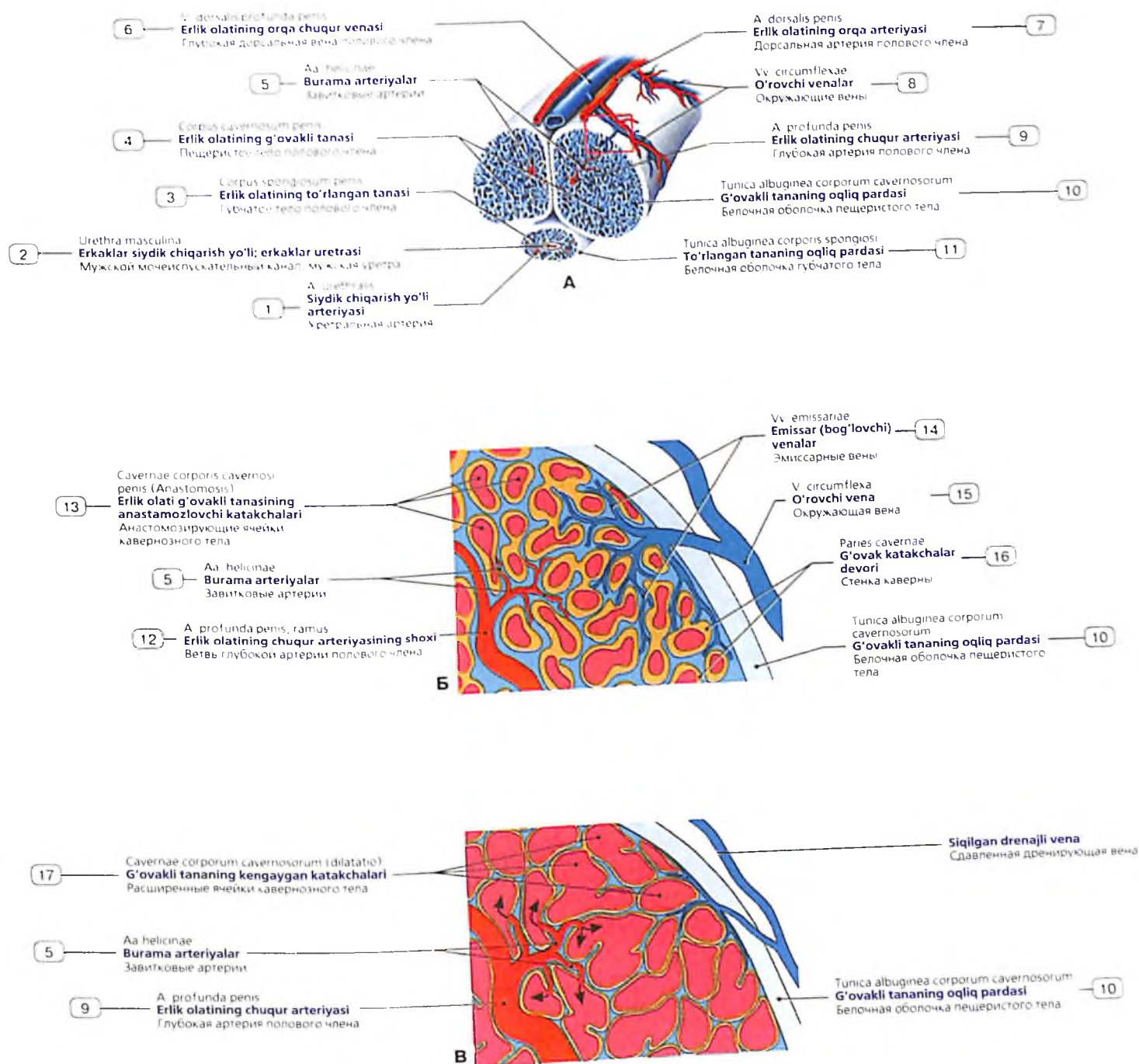


Рис. № 231. Мужские половые органы (А — эрекция не достигнутая; В — эрекция достигнута, стрелками показано направление кровотока).

Рисунок № 231. Пещеристые и губчатое тело полового члена (А — незэрегированное состояние; В — в состоянии эрекции, стрелками показано направление кровотока).

- | | | | | |
|-------------------------------|----------------------------------|---------------------------------|--|------------------------------|
| 1 Deep vein of penis | 5 Penis | 9 Ductus deferens, Vas deferens | 12 Corpus spongiosum penis | 15 Dorsal artery of penis |
| 2 Perforating artery of penis | 6 Prostate | 10 Male urethra | 13 Cavernous spaces of corpora cavernosa penis | 16 Deep dorsal vein of penis |
| 3 Deep artery of penis | 7 Urinary bladder | 11 Corpus cavernosum penis | | |
| 4 Testis | 8 Seminal gland, Seminal vesicle | | | |

ERKAKLAR JINSIY A'ZOLARI TIZIMI

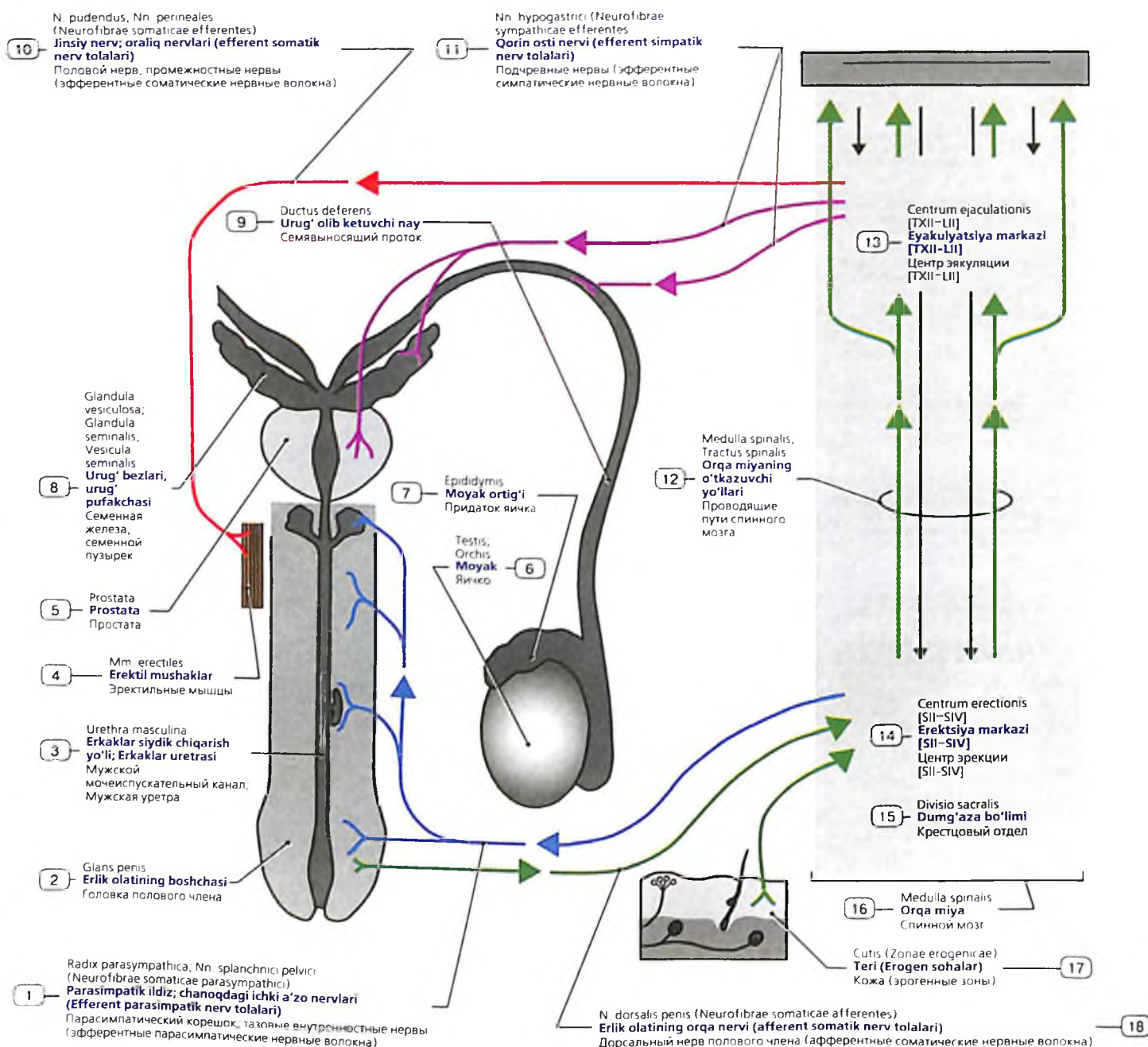


Rasm № 232. Ereksiya mexanizmi (A — g'ovakli va to'rlangan tanalar bo'ylab o'tkazilgan ko'ndalang kesma; B — ereksiya holatida bo'lmagan paytda; B — ereksiya holatida).

Рисунок № 232. Механизм эрекции (A — поперечное сечение через пещеристые и губчатое тело; B — неэрегированное состояние; B — состояние эрекции).

- | | | |
|-----------------------------|--|--|
| 1 Urethral artery | 7 Dorsal artery of penis | 13 Cavernous spaces of corpus cavernosum (anastomosis) |
| 2 Male urethra | 8 Circumflex veins | 14 Emissary veins |
| 3 Corpus spongiosum penis | 9 Deep artery of penis | 15 Circumflex vein |
| 4 Corpus cavernosum penis | 10 Tunica albuginea of corpora cavernosa | 16 Wall of cavernous space |
| 5 Helicine arteries | 11 Tunica albuginea of corpus spongiosum | 17 Cavernous spaces of corpus cavernosum (dilated) |
| 6 Deep dorsal vein of penis | 12 Deep artery of penis, branch | |

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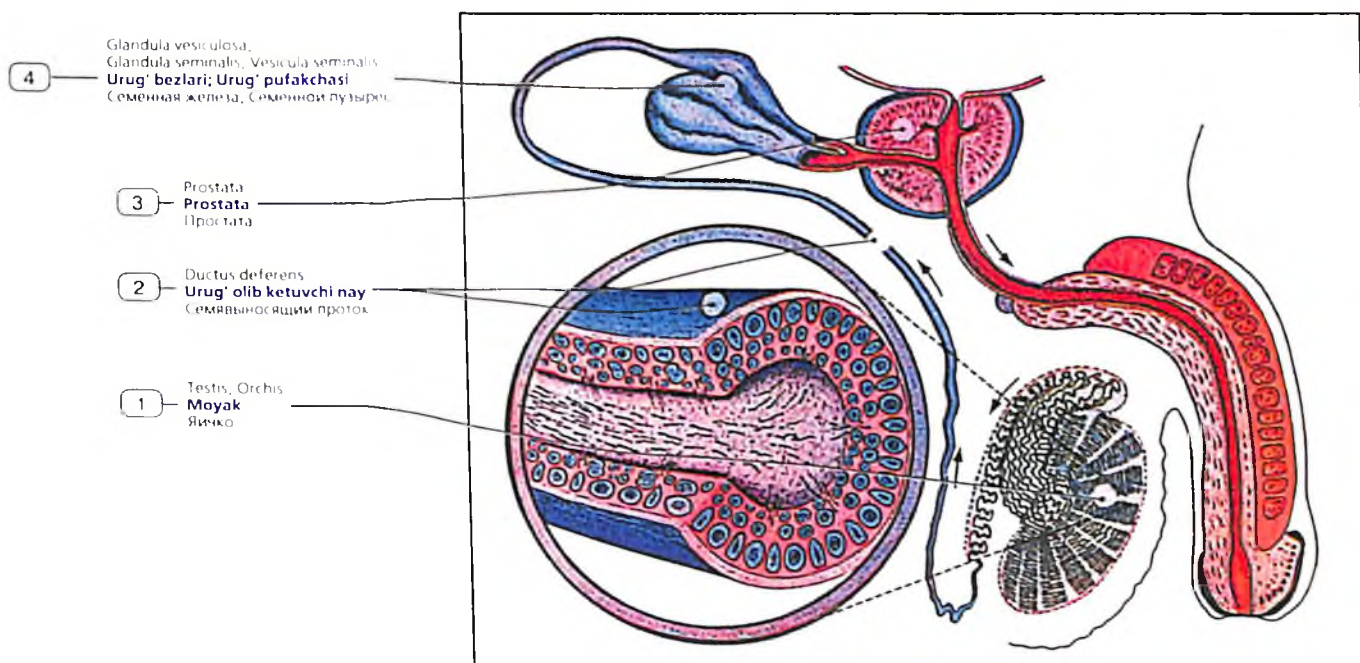


Rasm № 233. Eraklar jinsiy a'zolar tizimi (chizma).
Рисунок № 233. Половой рефлекс мужчины (схема).

- 1 Parasympathetic root, Pelvic splanchnic nerves (Efferent parasympathetic nerve fibres)
- 2 Glans penis
- 3 Male urethra
- 4 Eretilis muscles
- 5 Prostate
- 6 Testis

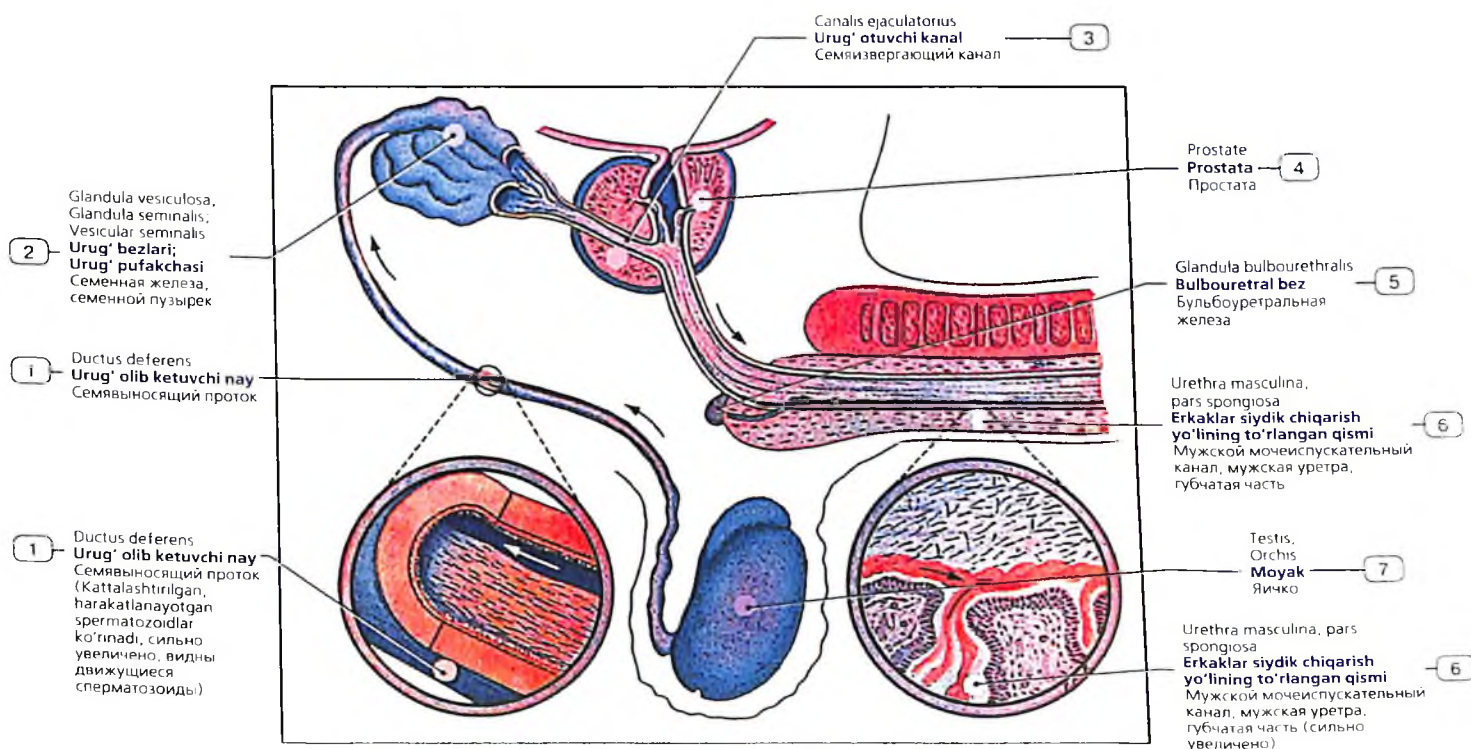
- 7 Epididymis
- 8 Seminal gland, Seminal vesicle
- 9 Ductus deferens, Vas deferens
- 10 Pudendal nerve; Perineal nerves (efferent somaticae nerve fibres)
- 11 Hypogastric nerves (Efferent sympathetic nerve fibres)

- 12 Spinal cord, Spinal tracts
- 13 Ejaculation center [TXII-LII]
- 14 Erection center [SII-SIV]
- 15 Sacral division
- 16 Spinal cord
- 17 Skin (erogenous zones)
- 18 Dorsal nerve of penis (Afferent somaticae nerve fibres)



Rasm № 234. Moyak ortig'idan spermatozoidlarning harakat yo'nalishi.
Рисунок № 234. Направление движения сперматозоидов из придатка яичка.

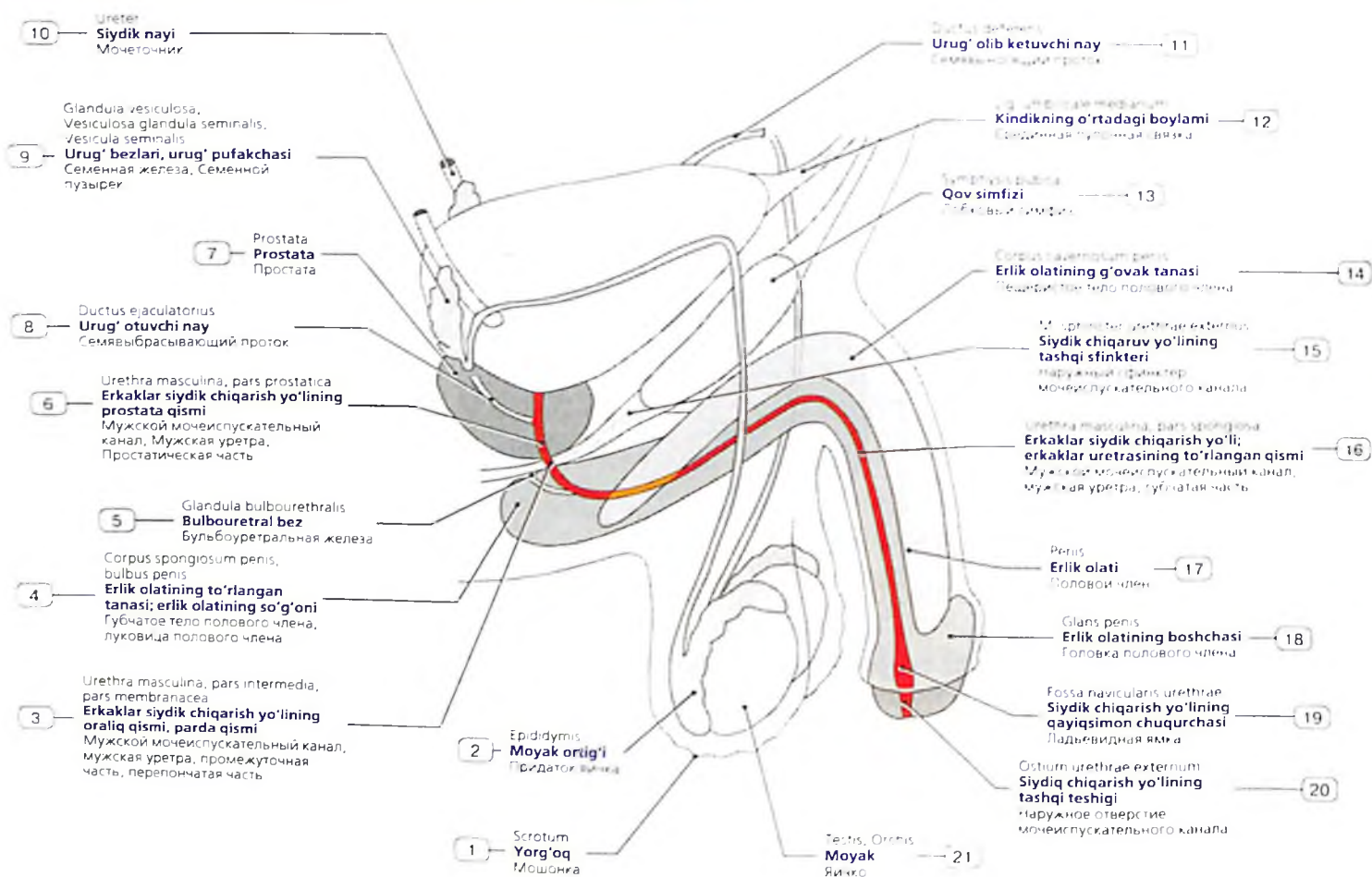
- | | |
|---------------------------------|----------------------------------|
| 1 Testis | 3 Prostate |
| 2 Ductus deferens, Vas deferens | 4 Seminal gland, Seminal vesicle |



Rasm № 235. Eyakulyatsiya paytida spermatozoidlarning harakat yo'nalishi.
Рисунок № 235. Направление движения сперматозоидов при эякуляции.

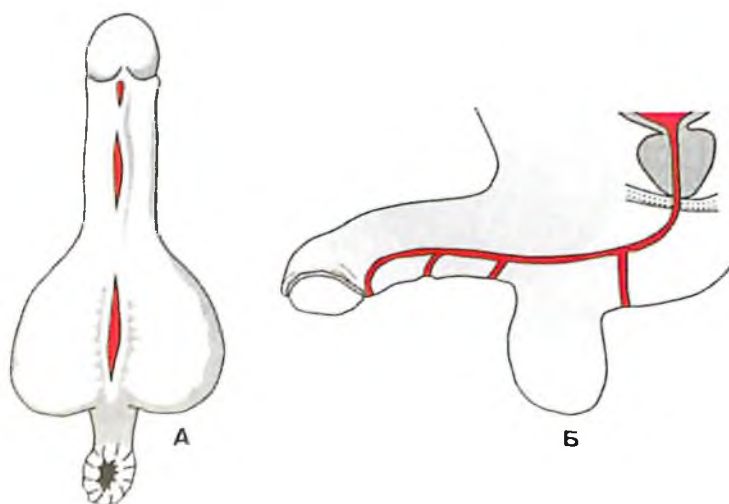
- | | |
|----------------------------------|--------------------------------|
| 1 Ductus deferens, Vas deferens | 5 Bulbo urethral gland |
| 2 Seminal gland, Seminal vesicle | 6 Male urethra, spongy urethra |
| 3 Ejaculatory canalis | 7 Testis |
| 4 Prostate | |

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Rasm № 236. Erkaklar siydik chiqarish yo'li (chizma).
Рисунок № 236. Мужская уретра (схема).

- | | | |
|--|----------------------------------|---|
| 1 Scrotum | 8 Ejaculatory duct | 16 Male urethra, spongy urethra |
| 2 Epididymis | 9 Seminal gland; Seminal vesicle | 17 Penis |
| 3 Male urethra, intermediate part of urethra, membranous urethra | 10 Male urethra | 18 Glans penis |
| 4 Corpus spongiosum penis, Bulb of penis | 11 Ductus deferens, Vas deferens | 19 Navicular fossa |
| 5 Bulbo-urethral gland | 12 Median umbilical ligament | 20 External urethral orifice, external urinary meatus |
| 6 Male urethra, prostatic urethra | 13 Pubic symphysis | 21 Testis |
| 7 Prostate | 14 Corpus cavernosum penis | |
| | 15 External urethral sphincter | |

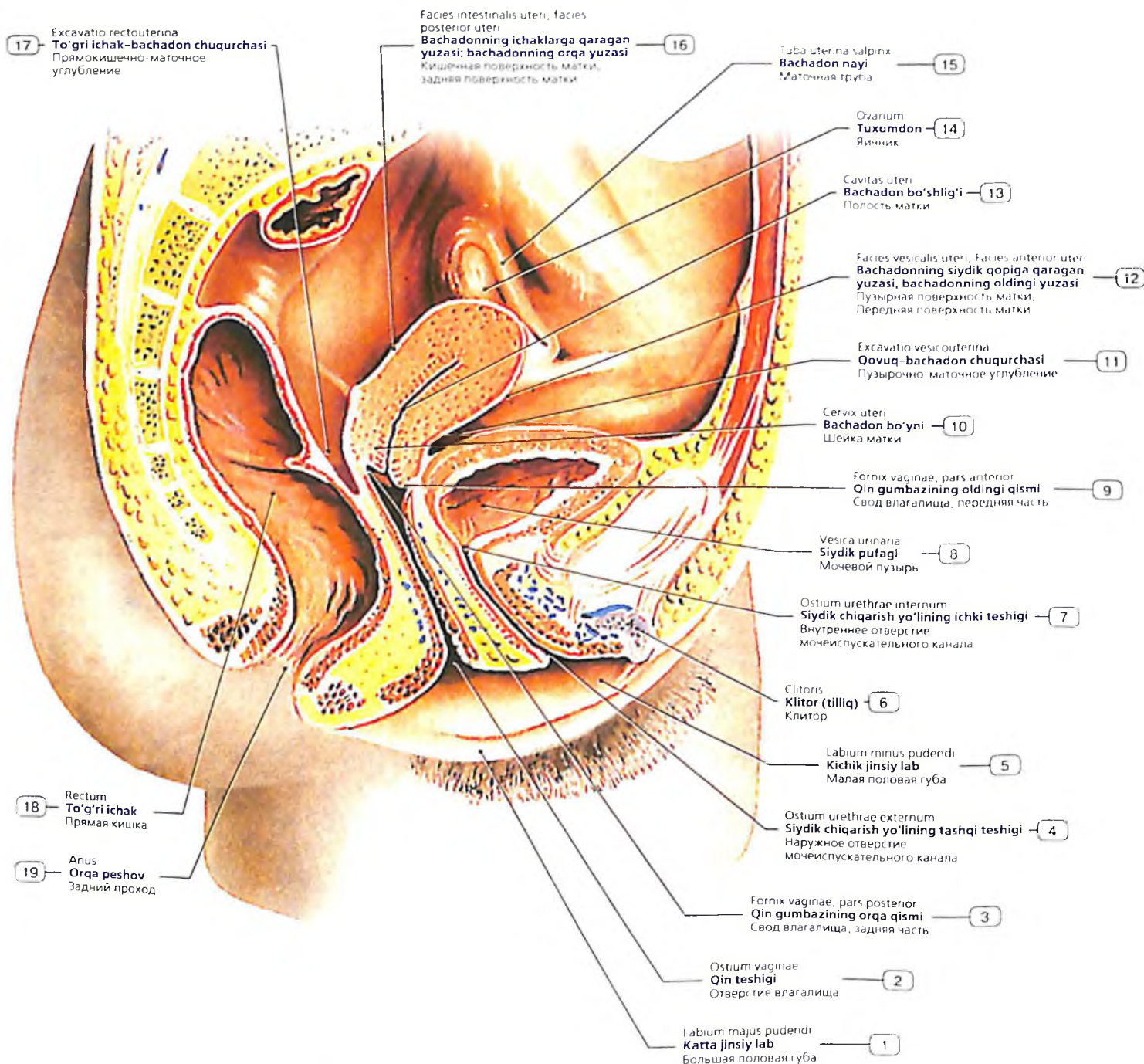


Rasm № 237. Erkaklar siydik chiqarish yo'li anomaliyalari.
Рисунок № 237. Аномалии мужской уретры.

A Erlik olati-pastki sohasi va yorg'oq anomaliyalari.
B Erkaklar siydik chiqarish yo'li pastki sohasidagi ochiq qolishi (qipospadiya) mumkin bo'lgan joylar (yori tomondan ko'rinishi).
Jinsning shakllanishi davrida tanosil bo'rtiqchasi to'liq qo'shilmashligi natijasida uretraning ostki devoridagi qipospadiya 1.3000 ta tugilgan o'g'il bolada yoki ostki devonda (epispadiya) 1.100000 ta tugilgan o'g'il bolada yoriq shakllanadi. Erlik olati boshchasi qipospadiyasi ko'proq uchraydi. Bunda erlik olati tanasi uning ostidagi fibroz tutamlar hisobiga qisqargan bo'lib, jarrohlik amaliyoti bilan defektni qayta tiklash bolaning olti oyligidan to'ng'ri yoshligigacha amalga oshirilishi lozim.

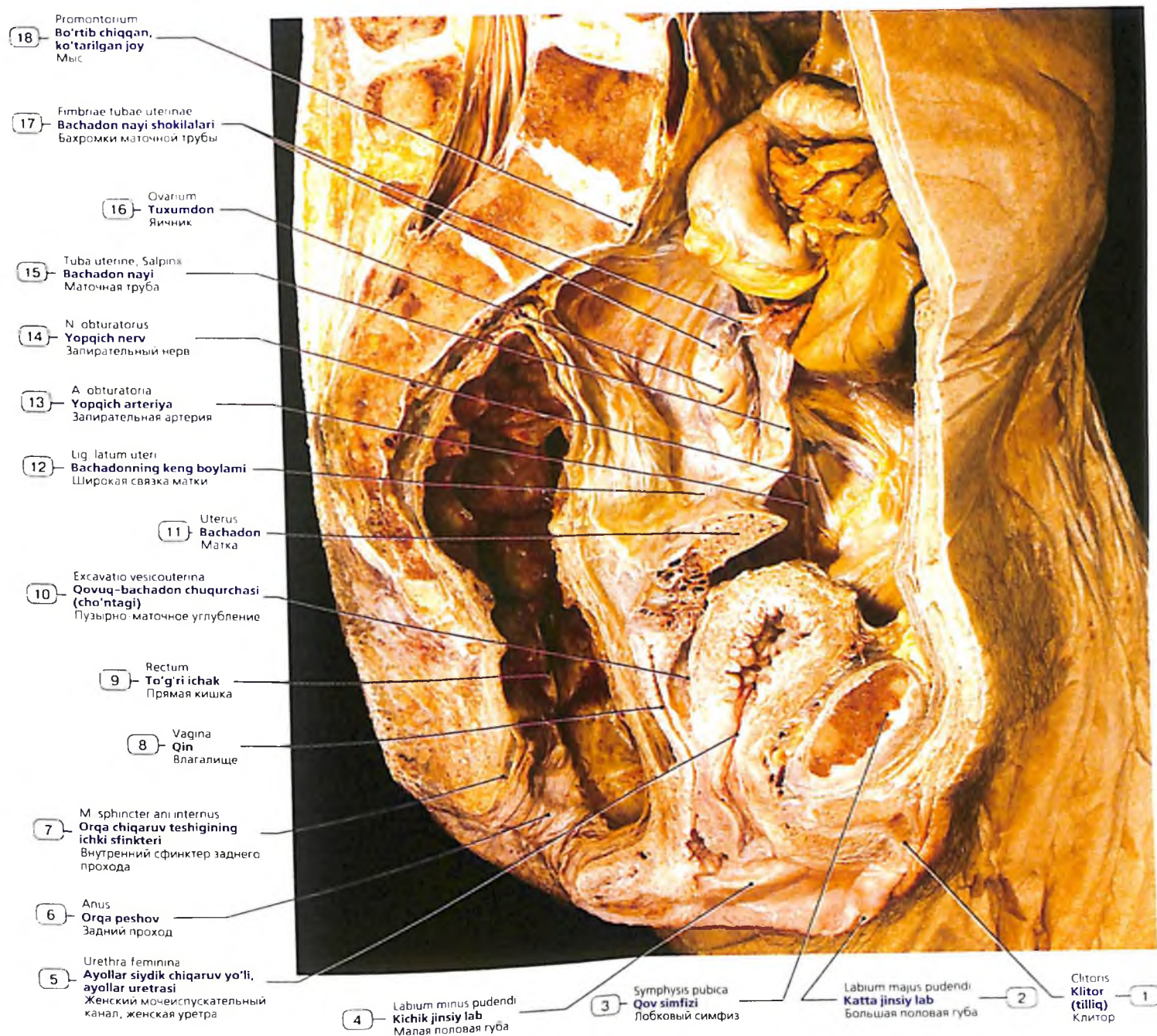
A. Аномалии расположены на нижней стороне полового члена и мошонки.
B. Возможные участки открытия уретры при гипоспадии (вид сверху).
Если половые валики не соединяются полностью во время половой дифференцировки, возникает аномалия уретры в виде щели, которая может открываться на нижней поверхности полового члена (гипоспадия) или на дорсальной поверхности (эписпадия). Гипоспадия встречается гораздо чаще (1.3000 случаев), чем эписпадия (1.100000). Чаще всего встречается гипоспадия головки. Тело полового члена обычно укорочено и отклонено вниз из-за наличия ventральных фиброзных тяжей. Хирургическая коррекция обычно проводится между шестым месяцем и вторым годом жизни.

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Rasm № 238. Ayollar chanog'ining sagittal kesimi.
Рисунок № 238. Сакитальный распил женского таза.

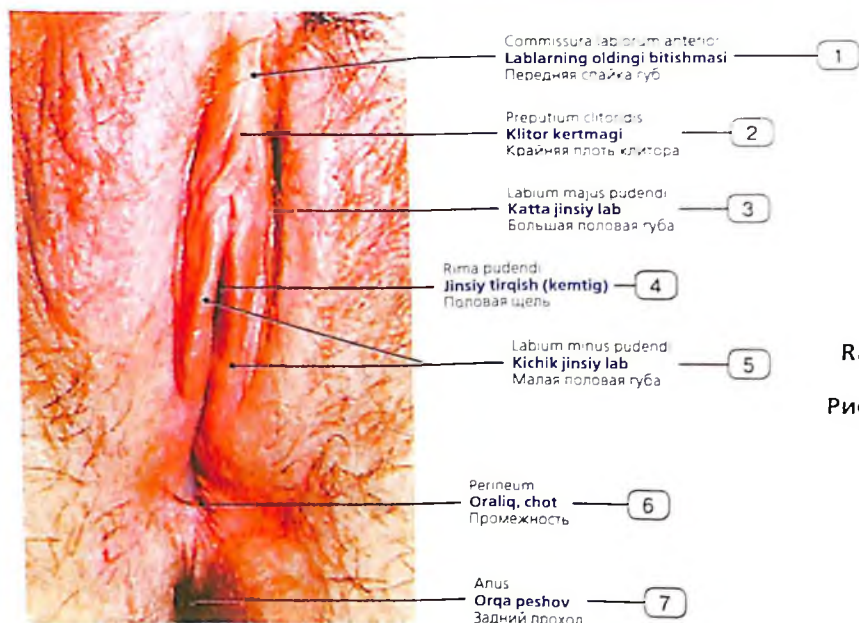
- | | | |
|----------------------------------|---------------------------------|----------------------------------|
| 1 Labium majus | 8 Urinary bladder | 15 Uterine tube |
| 2 Vaginal orifice | 9 Vaginal fornix, anterior part | 16 Intestinal surface of uterus, |
| 3 Vaginal fornix, posterior part | 10 Cervix of uterus | posterior surface of uterus |
| 4 External urethral orifice | 11 Vesico-uterine pouch | 17 Recto-uterine pouch |
| 5 Labium minus | 12 Vesical surface of uterus, | 18 Rectum |
| 6 Clitoris | Anterior surface of uterus | 19 Anus |
| 7 Internal urethral orifice, | 13 Uterine cavity | |
| internal urinary meatus | 14 Ovary | |



Rasm №239. Ayollarning jinsiy a'zolari sagittal kesmada (tabiiy ho'l preparatdan tushirilgan rasm).
Рисунок № 239. Женские половые органы, сагиттальный распил (фотография натурального препарата).

- | | | |
|-------------------|-----------------------------|---------------------|
| 1 Clitoris | 7 Internal anal sphincter | 13 Obturator artery |
| 2 Labium majus | 8 Vagina | 14 Obturator nerve |
| 3 Pubic symphysis | 9 Rectum | 15 Uterine tube |
| 4 Labium minus | 10 Vesico-uterine pouch | 16 Ovary |
| 5 Female urethra | 11 Uterus | 17 Fimbriae |
| 6 Anus | 12 Broad ligament of uterus | 18 Promontory |

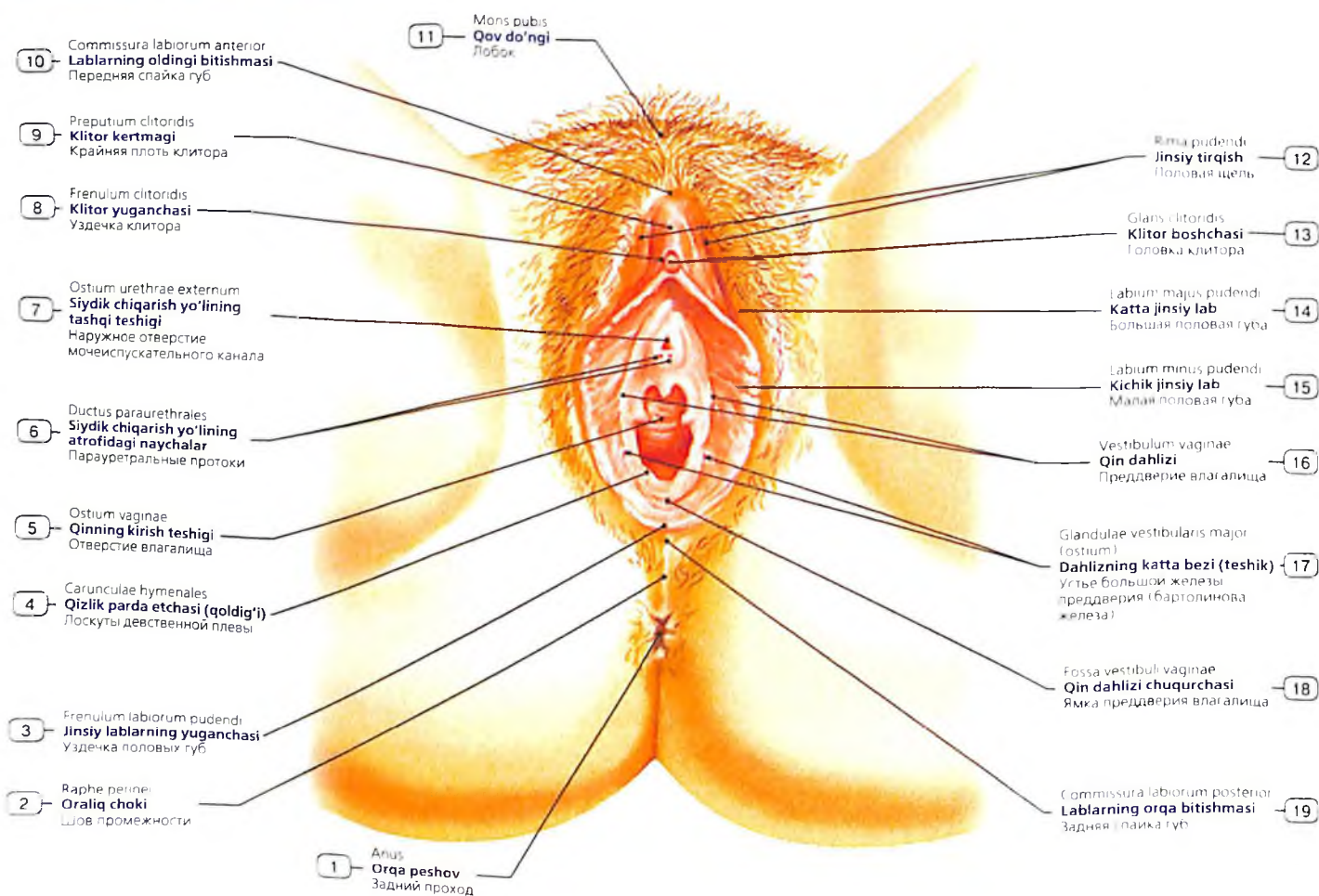
СИСТЕМА ЖЕНСКИХ ПОЛОВЫХ ОРГАНОВ



Rasm № 240. Ayollarning tashqi jinsiy a'zolari (surat) (chizma).

Рисунок № 240. Наружные женские половые органы (фотография) (схема).

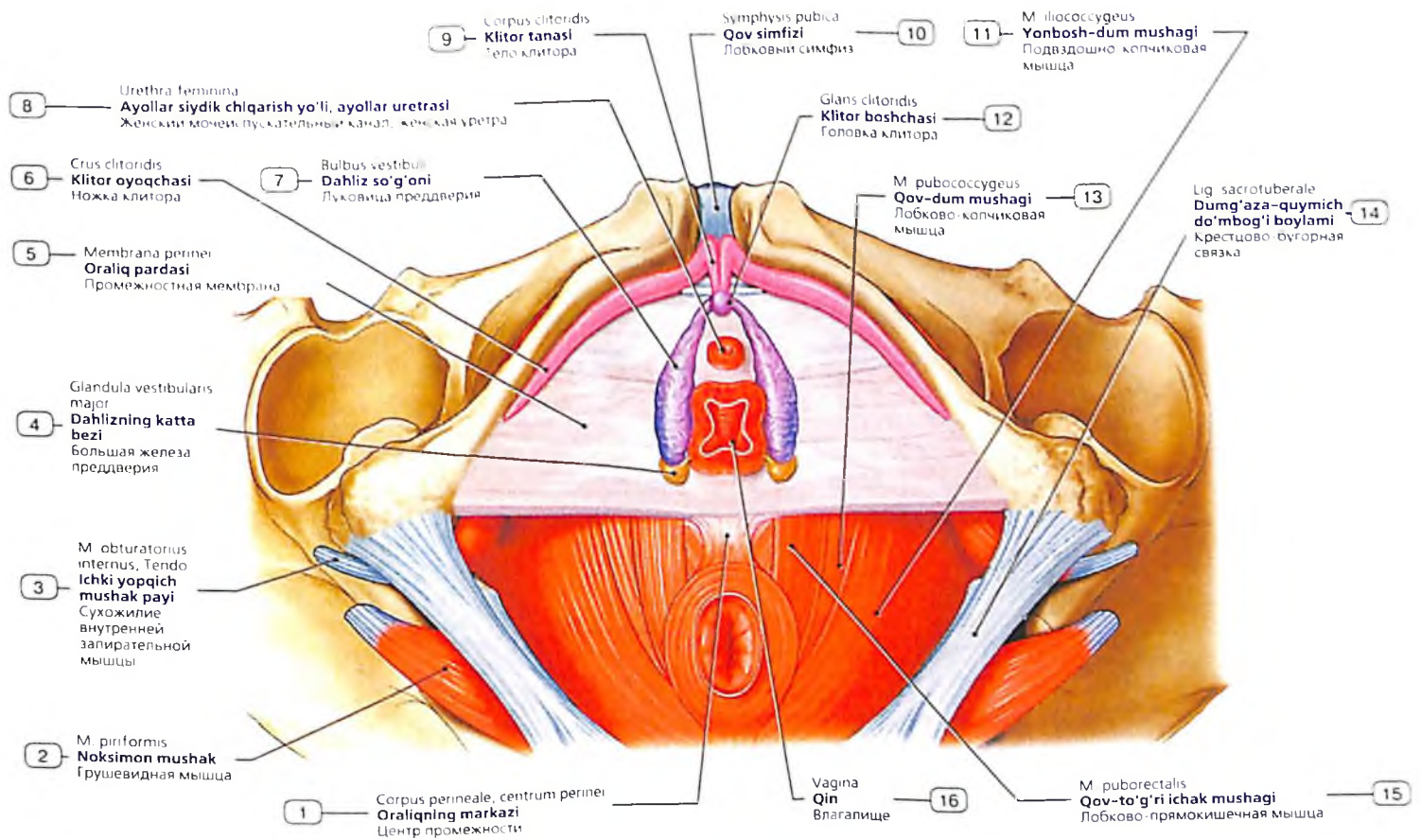
- 1 Anterior commissure
- 2 Prepuce of clitoris
- 3 Labium majus
- 4 Pudendal cleft
- 5 Labium minus
- 6 Perineum
- 7 Anus



Rasm № 241. Ayollarning tashqi jinsiy a'zolari, oldindan ko'rinishi.

Рисунок № 241. Наружные женские половые органы, вид спереди.

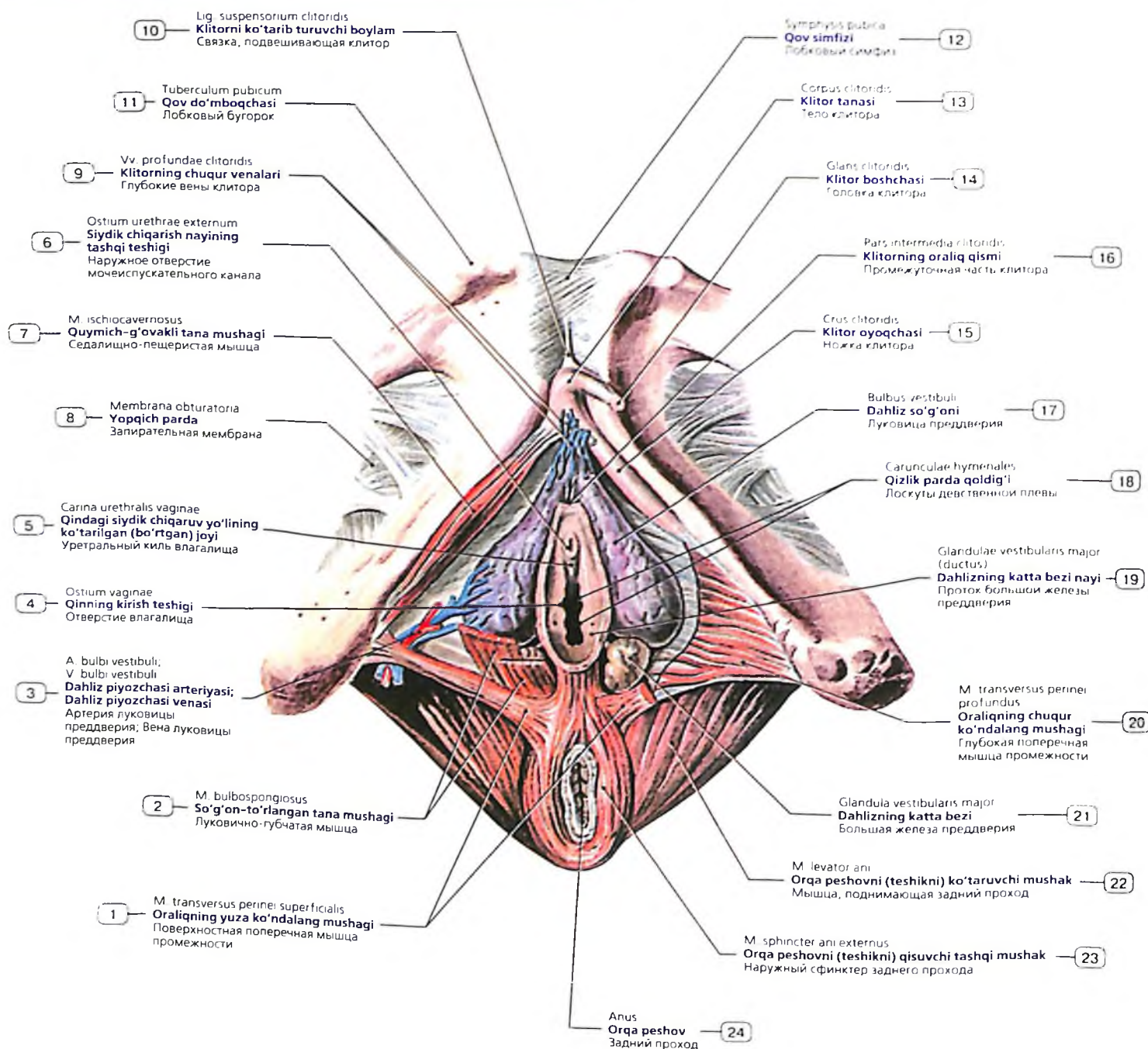
- 1 Anus
- 2 Raphe perinei
- 3 Frenulum labiorum pudendi
- 4 Carunculae hymenales
- 5 Vaginal orifice
- 6 Para-urethral ducts
- 7 External urethral orifice
- 8 Frenulum of clitoris
- 9 Prepuce of clitoris
- 10 Anterior commissure
- 11 Mons pubis
- 12 Pudendal cleft
- 13 Glans of clitoris
- 14 Labium majus
- 15 Labium minus
- 16 Vestibule
- 17 Greater vestibular gland (Bartolinova gland)
- 18 Vestibular fossa
- 19 Posterior commissure



Rasm № 242. Oraliq (chot), klitor (tilliq).
Рисунок № 242. Промежность, клитор.

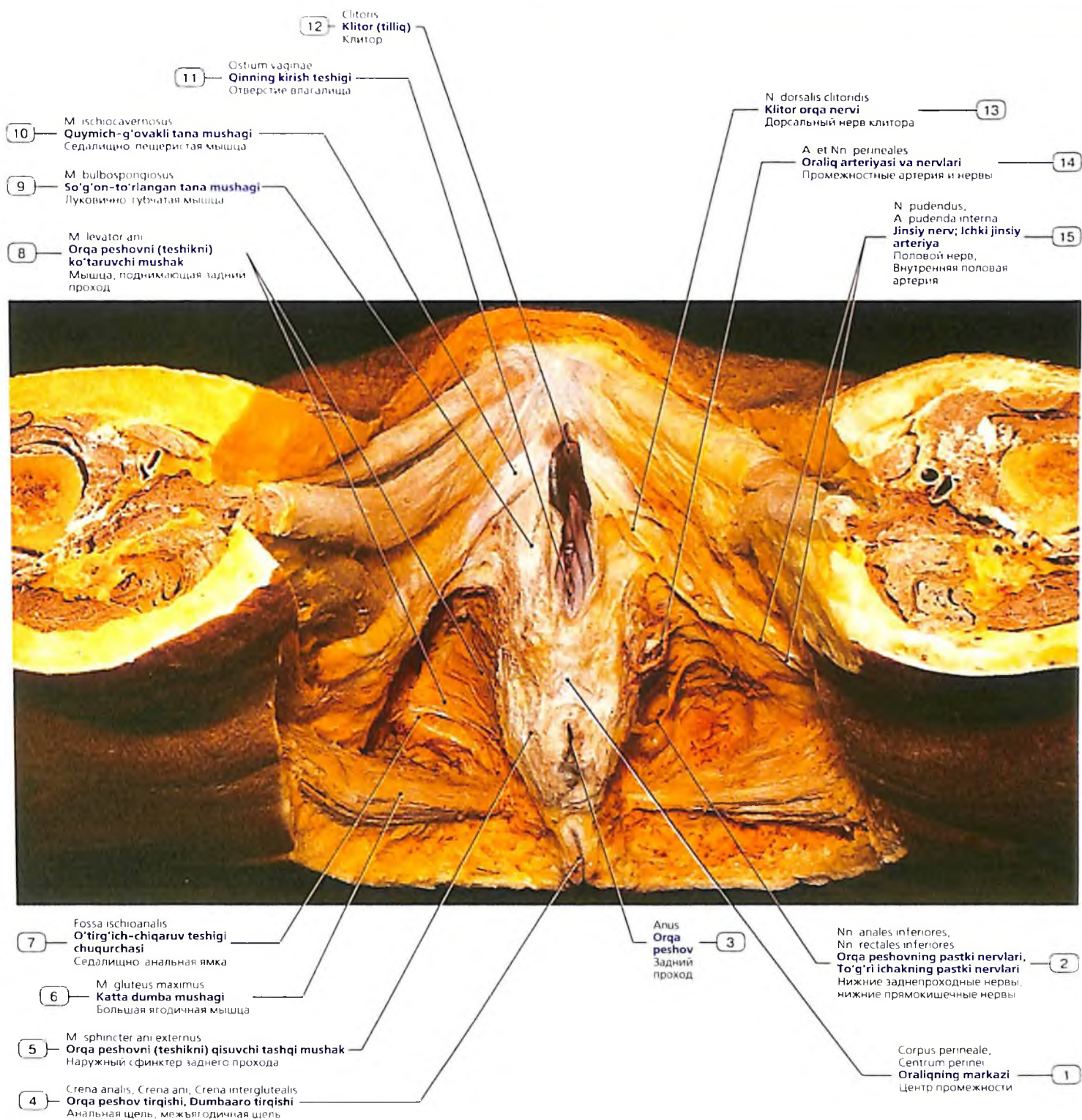
- | | |
|------------------------------|---------------------------|
| 1 Perineal body | 9 Body of clitoris |
| 2 Piriformis | 10 Pubic symphysis |
| 3 Obturator internus, tendon | 11 Iliococcygeus |
| 4 Greater vestibular gland | 12 Glans of clitoris |
| 5 Perineal membrane | 13 Pubococcygeus |
| 6 Crus of clitoris | 14 Sacrotuberous ligament |
| 7 Bulb of vestibule | 15 Puborectalis |
| 8 Female urethra | 16 Vagina |

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Rasm № 243. Ayollar oralig'i, ayollar jinsiy sohasi, dahliz bezlari va piyozchasi.
Рисунок № 243. Женская промежность, женская половая область, луковица и железы преддверия.

- | | | | |
|---|------------------------------------|---|------------------------------------|
| 1 Superficial transverse perineal muscle | 7 Ischiocavernosus | 14 Glans of clitoris | 20 Deep transverse perineal muscle |
| 2 Bulbospongiosus | 8 Obturator membrane | 15 Crus of clitoris | 21 Greater vestibular gland |
| 3 Artery of bulb of vestibule;
Vein of bulb of vestibule | 9 Deep veins of clitoris | 16 Pars intermedia of clitoris | 22 Levator ani |
| 4 Vaginal orifice | 10 Suspensory ligament of clitoris | 17 Bulb of vestibule | 23 External anal sphincter |
| 5 Urethral carina of vagina | 11 Tubercle | 18 Carunculae hymenales,
Hymenal caruncles | 24 Anus |
| 6 External urethral orifice | 12 Pubic symphysis | 19 Duct of greater vestibular gland | |
| | 13 Body of clitoris | | |



Rasm № 244. Ayollarning tashqi jinsiy a'zolari va oraliq (tabiiy preparat surati).

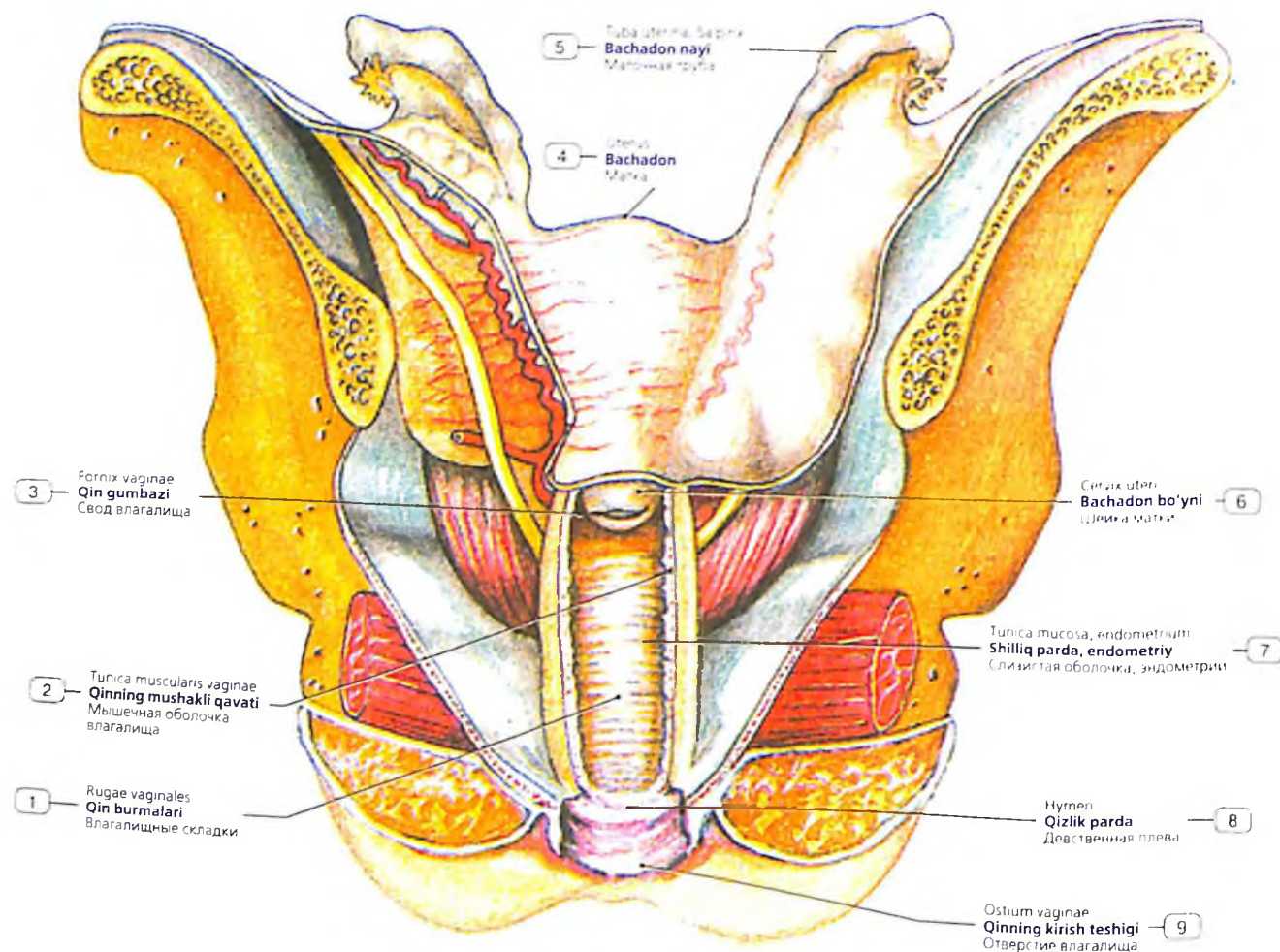
Рисунок № 244. Женские наружные половые органы и промежность (фотография натурального препарата).

- 1 Perineal body
- 2 Inferior anal nerves, Inferior rectal nerves
- 3 Anus
- 4 Intergluteal cleft, Natal cleft
- 5 External anal sphincter

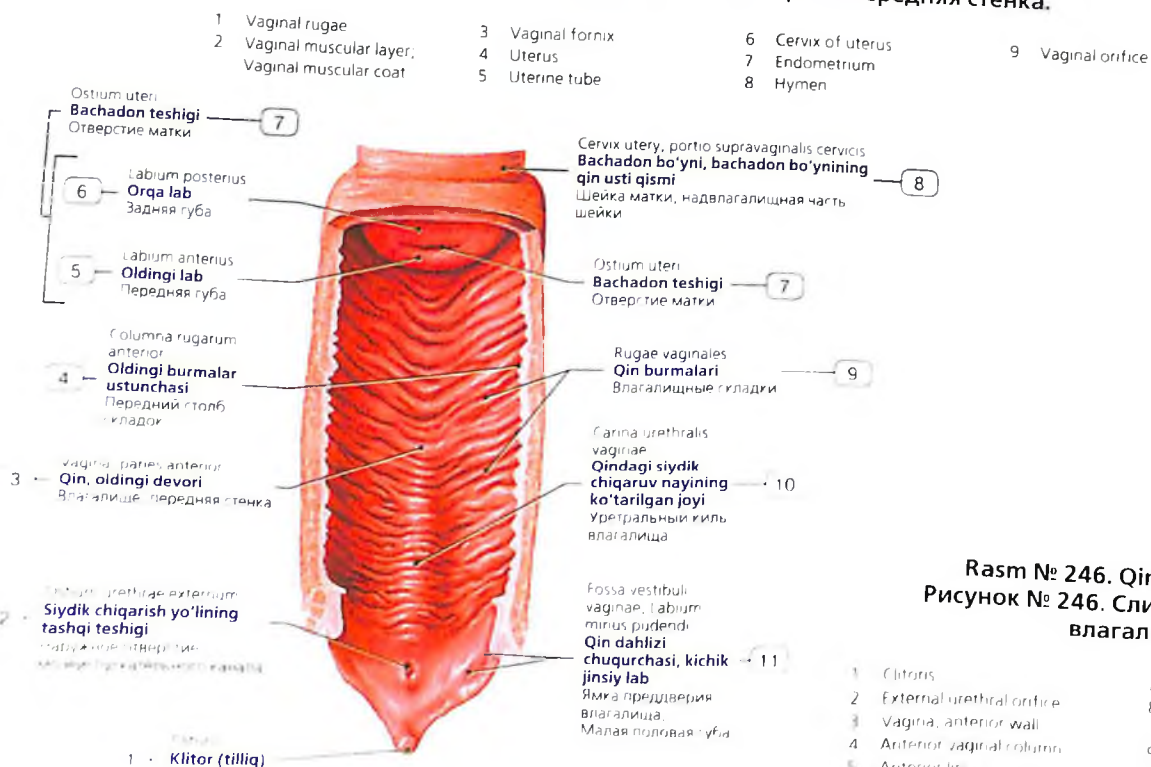
- 6 Gluteus maximus
- 7 Ischioanal fossa
- 8 Levator ani
- 9 Bulbospongiosus
- 10 Ischiocavernosus

- 11 Vaginal orifice
- 12 Clitoris
- 13 Dorsal nerve of clitoris
- 14 Perineal artery and nerves
- 15 Pudendal nerve, internal

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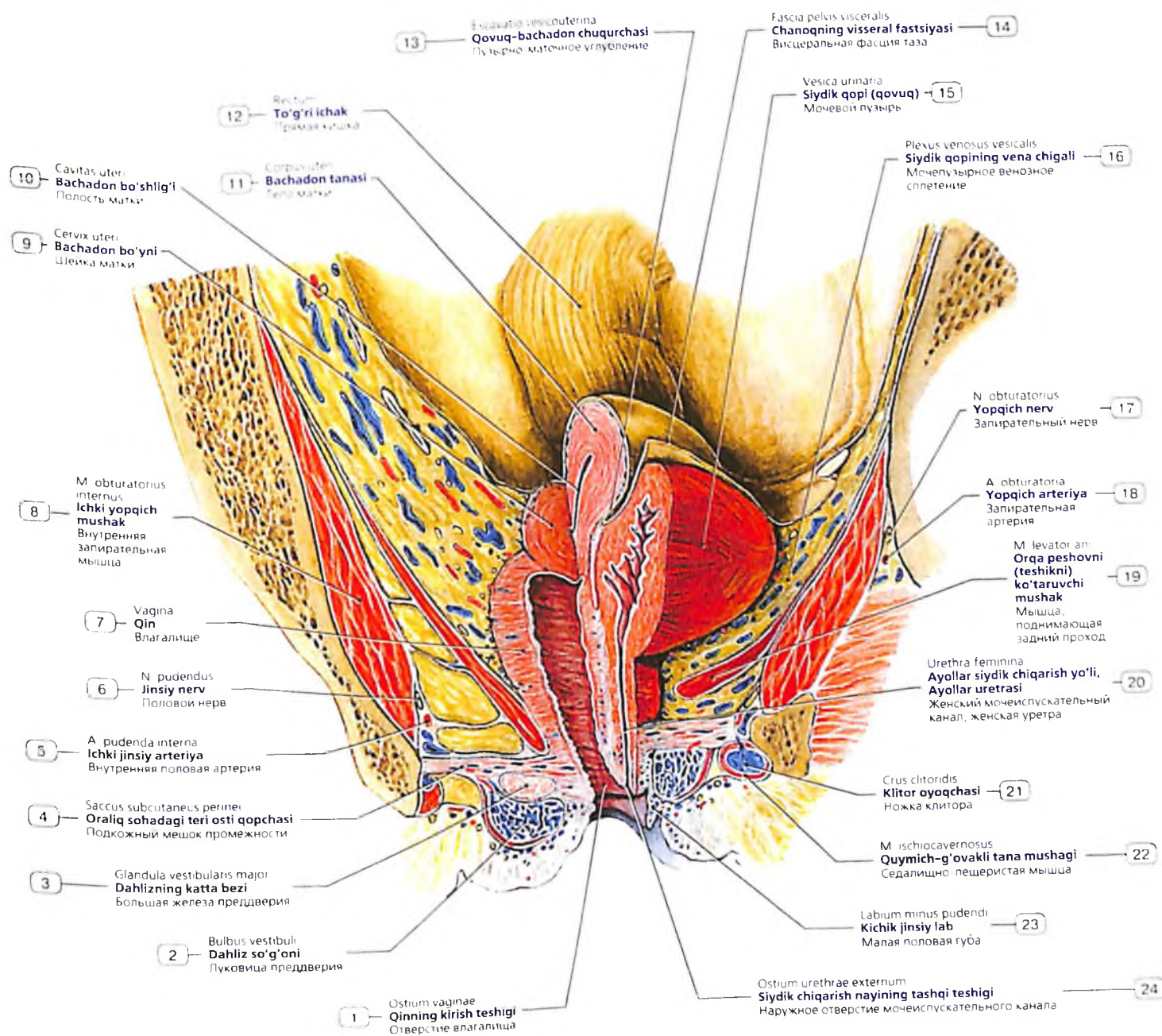


Rasm № 245. Qin, oldingi devori ochilgan.
Рисунок № 245. Влагалище, вскрыта передняя стенка.



Rasm № 246. Qin shilliq qavati.
Рисунок № 246. Слизистая оболочка влагалища.

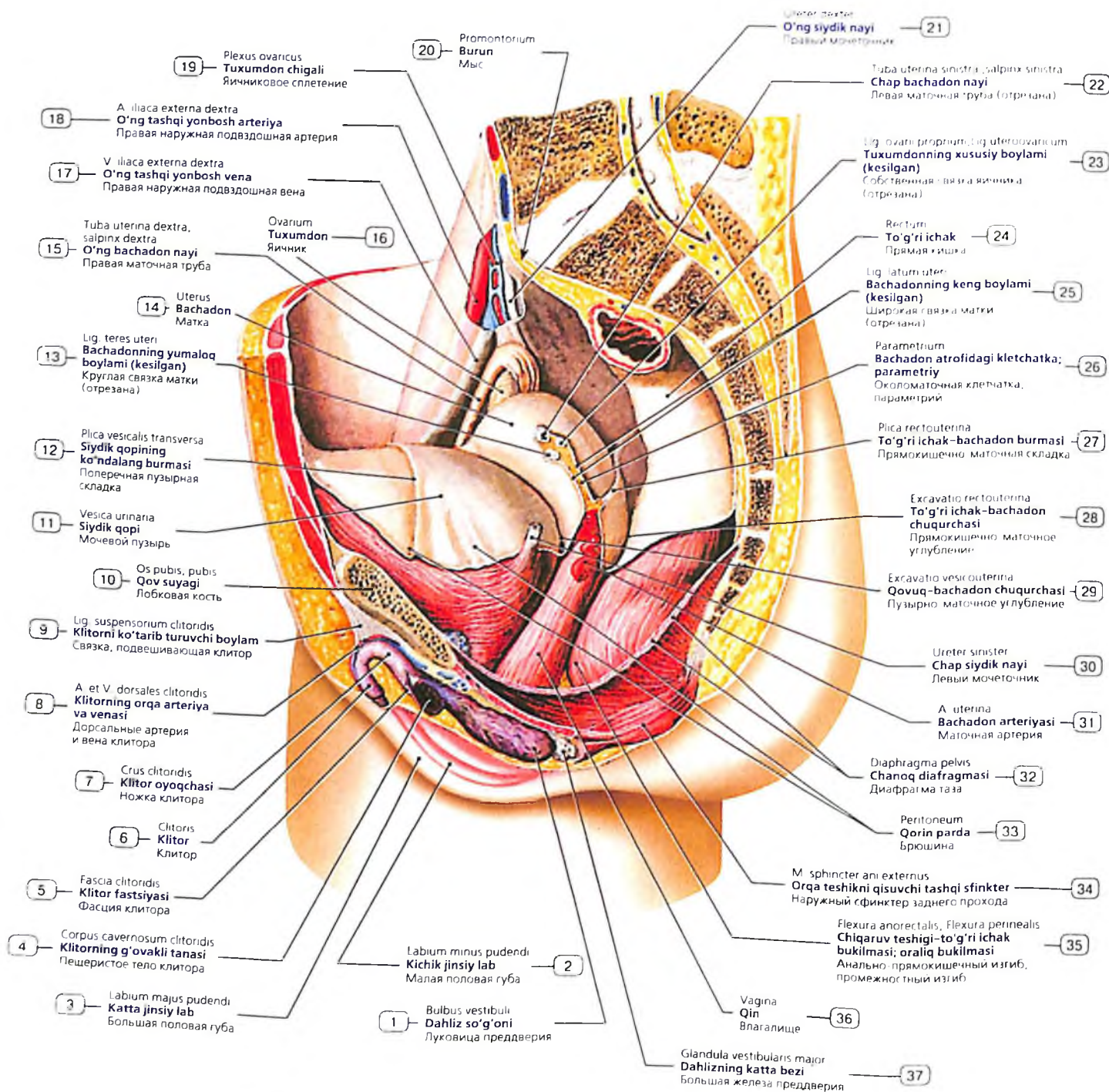
- | | |
|-----------------------------|---------------------------------------|
| 1 Clitoris | 7 = 5 + 6 External os of uterus |
| 2 External urethral orifice | 8 Cervix of uterus, supravaginal part |
| 3 Vagina, anterior wall | 9 Vaginal rugae |
| 4 Anterior vaginal column | 10 Urethral carina of vagina |
| 5 Anterior lip | 11 Vestibular fossa, labium minus |
| 6 Posterior lip | |



Rasm № 247. Bachadon va qin, rekonstruktsiyasi.
Рисунок № 247. Матка и влагалище, реконструкция.

- | | | |
|-------------------------------|---------------------------|------------------------------|
| 1 Vaginal orifice | 9 Cervix of uterus | 17 Obturator nerve |
| 2 Bulb of vestibule | 10 Uterine cavity | 18 Obturator artery |
| 3 Greater vestibular gland | 11 Body of uterus | 19 Levator ani |
| 4 Subcutaneous perineal pouch | 12 Rectum | 20 Female urethra |
| 5 Internal pudendal artery | 13 Vesico-uterine pouch | 21 Crus of clitoris |
| 6 Pudendal nerve | 14 Visceral pelvic fascia | 22 Ischiocavernosus |
| 7 Vagina | 15 Urinary bladder | 23 Labium minus |
| 8 Obturator internus | 16 Vesical venous plexus | 24 External urethral orifice |

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Rasm № 248. Ayollar jinsiy a'zolari, sagittal kesma, chapdan ko'rinishi.
Рисунок № 248. Женская половая система, сагиттальный распил, вид слева.

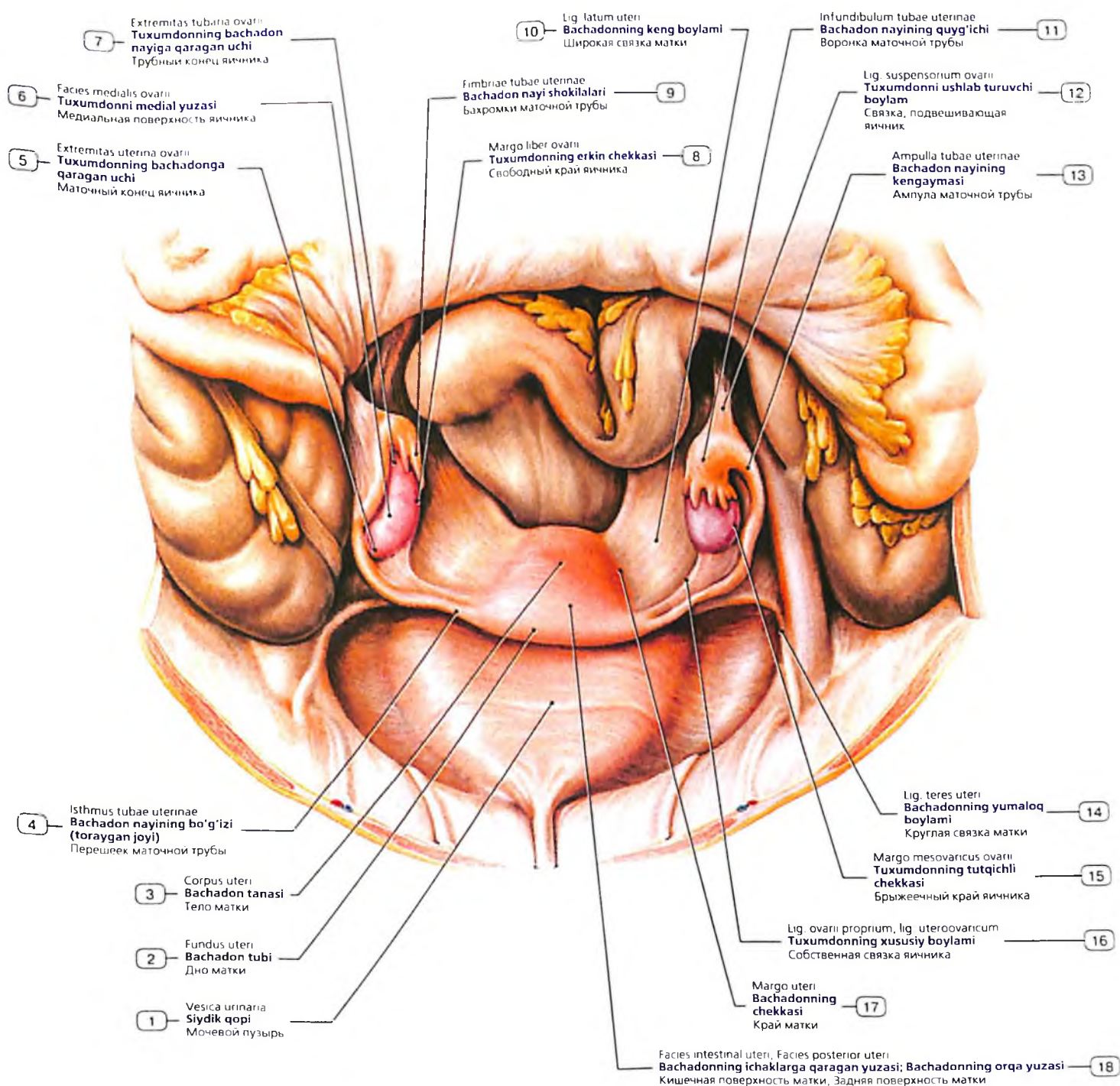


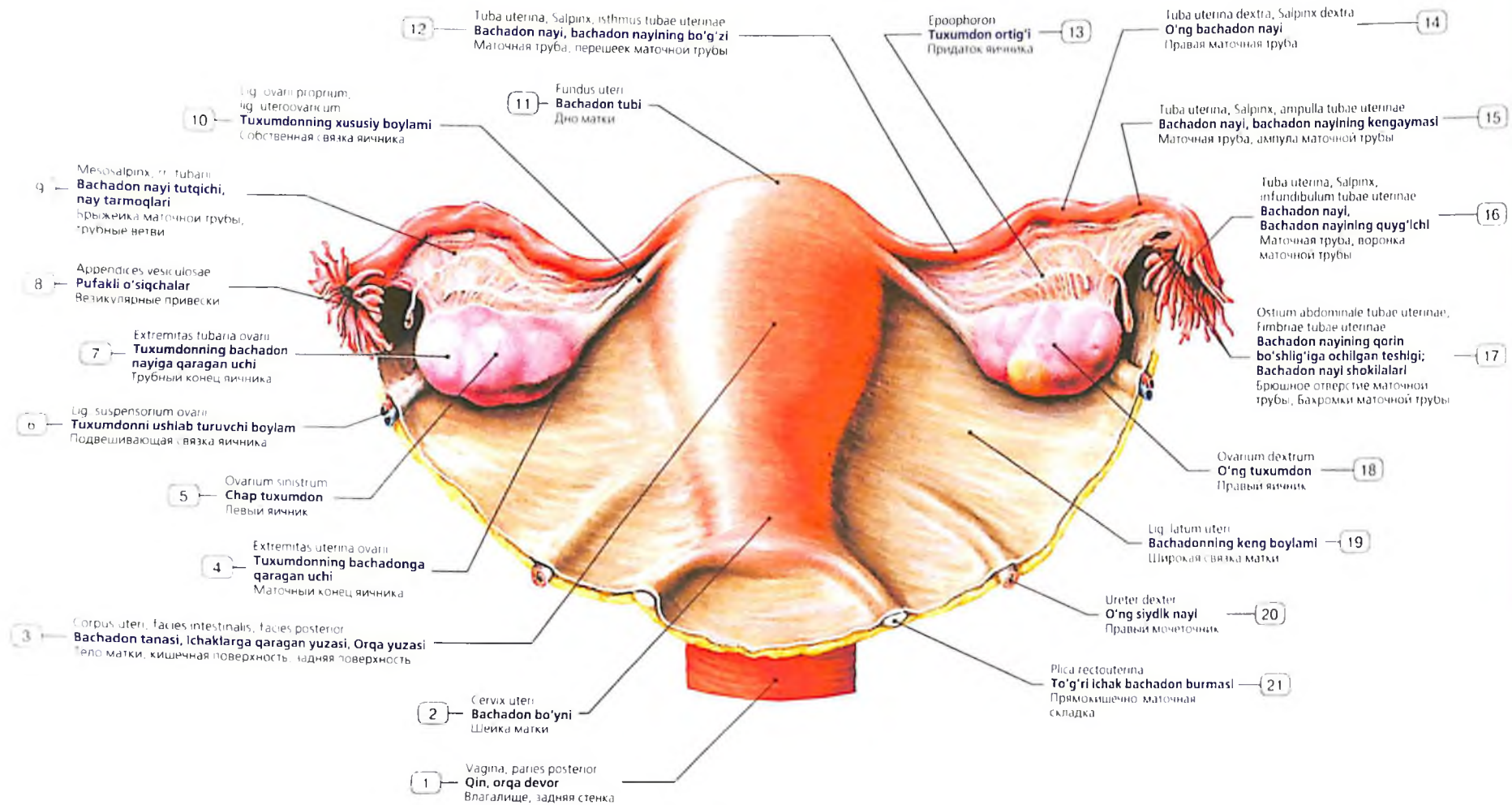
Рисунок № 249. Органы малого таза женщины, вид сверху.
Rasm № 249. Ayollar kichik chanog'i a'zolari, yuqoridan ko'rinishi.

- 1 Urinary bladder
- 2 Fundus of uterus
- 3 Body of uterus
- 4 Isthmus of uterine tube
- 5 Uterine extremity of ovary

- 6 Medial surface of ovary
- 7 Tubal extremity of ovary
- 8 Free border of ovary
- 9 Fimbriae of uterine tube
- 10 Broad ligament of uterus

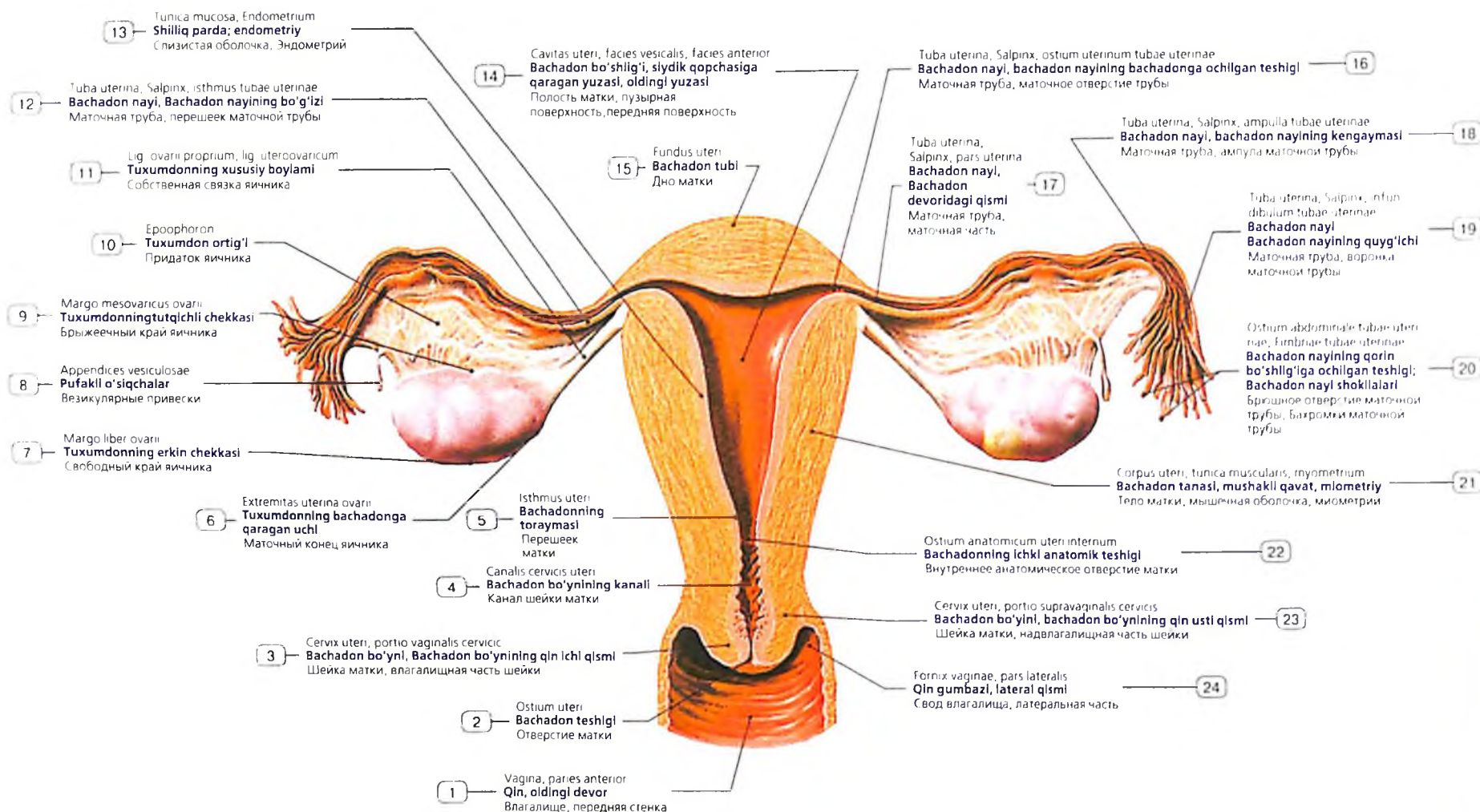
- 11 Infundibulum of uterine tube
- 12 Suspensory ligament of ovary, Infundibulopelvic ligament
- 13 Ampulla of uterine tube
- 14 Round ligament of uterus

- 15 Mesovarian border of ovary
- 16 Ligament of ovary
- 17 Border of uterus
- 18 Intestinal surface of uterus, Posterior surface of uterus



Rasm № 250. Ayollarning ichki jinsiy a'zolari, oldindan ko'rinishi (bachadon ochilmagan).
Рисунок № 250. Внутренние женские половые органы, вид спереди (матка не вскрыта).

- | | | | |
|---|--|-------------------------------|-------------------------------|
| 1 Vagina, posterior wall | 6 Suspensory ligament of ovary, infundibulopelvic ligament | 11 Fundus of uterus | 17 Abdominal ostium, fimbriae |
| 2 Cervix of uterus | 7 Tubal extremity of ovary | 12 Uterine tube, isthmus | 18 Right ovary |
| 3 Body of uterus, intestinal surface, posterior surface | 8 Vesicular appendices | 13 Epoophoron | 19 Broad ligament of uterus |
| 4 Uterine extremity of ovary | 9 Mesosalpinx, tubal branches | 14 Right uterine tube | 20 Right ureter |
| 5 Left ovary | 10 Ligament of ovary | 15 Uterine tube, ampulla | 21 Recto-uterine fold |
| | | 16 Uterine tube, infundibulum | |



Rasm № 251. Ayollarning ichki jinsiy a'zolari, oldindan ko'rinishi (bachadonning frontal kesmasi).
Рисунок № 251. Внутренние женские половые органы, вид спереди (фронтальный разрез матки).

- | | | |
|----------------------------------|--|--|
| 1 Vagina, anterior wall | 9 Mesovarian border of ovary | 17 Uterine tube, Uterine part, intramural part |
| 2 External os of uterus | 10 Epoophoron | 18 Uterine tube, ampulla |
| 3 Cervix of uterus, vaginal part | 11 Ligament of ovary | 19 Uterine tube, infundibulum |
| 4 Cervical canal | 12 Uterine tube, isthmus | 20 Abdominal ostium, fimbriae |
| 5 Isthmus of uterus | 13 Endometrium | 21 Body of uterus, myometrium |
| 6 Uterine extremity of ovary | 14 Uterine cavity, vesical surface, anterior surface | 22 Anatomical internal os |
| 7 Free border | 15 Fundus of uterus | 23 Cervix of uterus, supravaginal part |
| 8 Vesicular appendices | 16 Uterine tube, uterine ostium | 24 Vaginal fornix, lateral part |



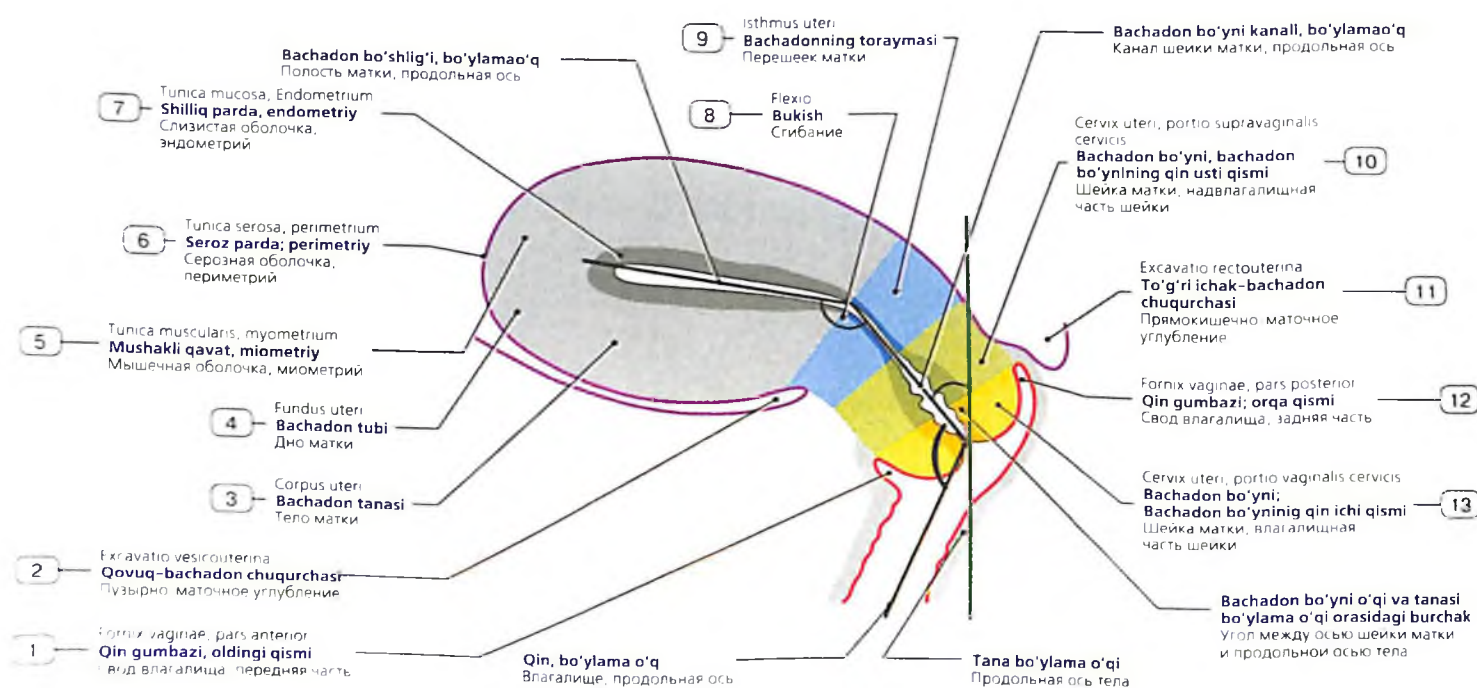
Rasm № 252. Normal UT-bachadon anatomiyasi. Bachadonni transvaginal bo'ylama skanirlash.
Рисунок № 252. Нормальная УЗ-анатомия матки. Трансвагинальное продольное сканирование матки.

Bachadon holati va bukilmasi (253-rasm)

Bachadon va qin yuqori qismining o'rta sagittal kesmasi, chapdan ko'rinishi. Bachadonning normadagi anteverziyasi (oldingi egilmasi) va antefleksiyasi (oldinga bukilmasi) aniqlanadigan ikkita burchagi ko'ringan. Bachadonning orqaga egilmasi va bukilmasi (retroversiya, retrofleksiya) patologik holat sanaladi. Orqaga egilgan bachadon ko'proq pastga tushishga moyil, chunki u qinning bo'ylama o'qi bo'ylab to'g'rilangan. Bundan tashqari, orqaga egilgan bachadon homiladorlikda kattalashgani sayin dumg'azaning burni ostida harakatsiz bo'lib qolishi mumkin (L5 va S1 birlashuvida). Bachadon kattalashuvining chegaralanishi homiladorlikning keyingi kechishiga xavf tug'diradi.

Изгиб и положение матки (рис. 253)

Среднесагитальное сечение матки и верхней части влагалища, вид слева. Видны два угла, которыми определяется нормальная антеверсия (наклон вперед) и антефлексия (изгиб вперед) матки. Наклон и изгиб матки назад (ретроверсия, ретрофлексия) считаются ненормальными. Ретровертированная матка более подвержена опущению, так как она более точно выровнена по продольной оси влагалища. Более того, ретровертированная матка, которая увеличивается при беременности, может остаться неподвижной под мысом крестца (сочленением LVI и SI). Ограничение увеличения матки подвергает опасности дальнейшее течение беременности.



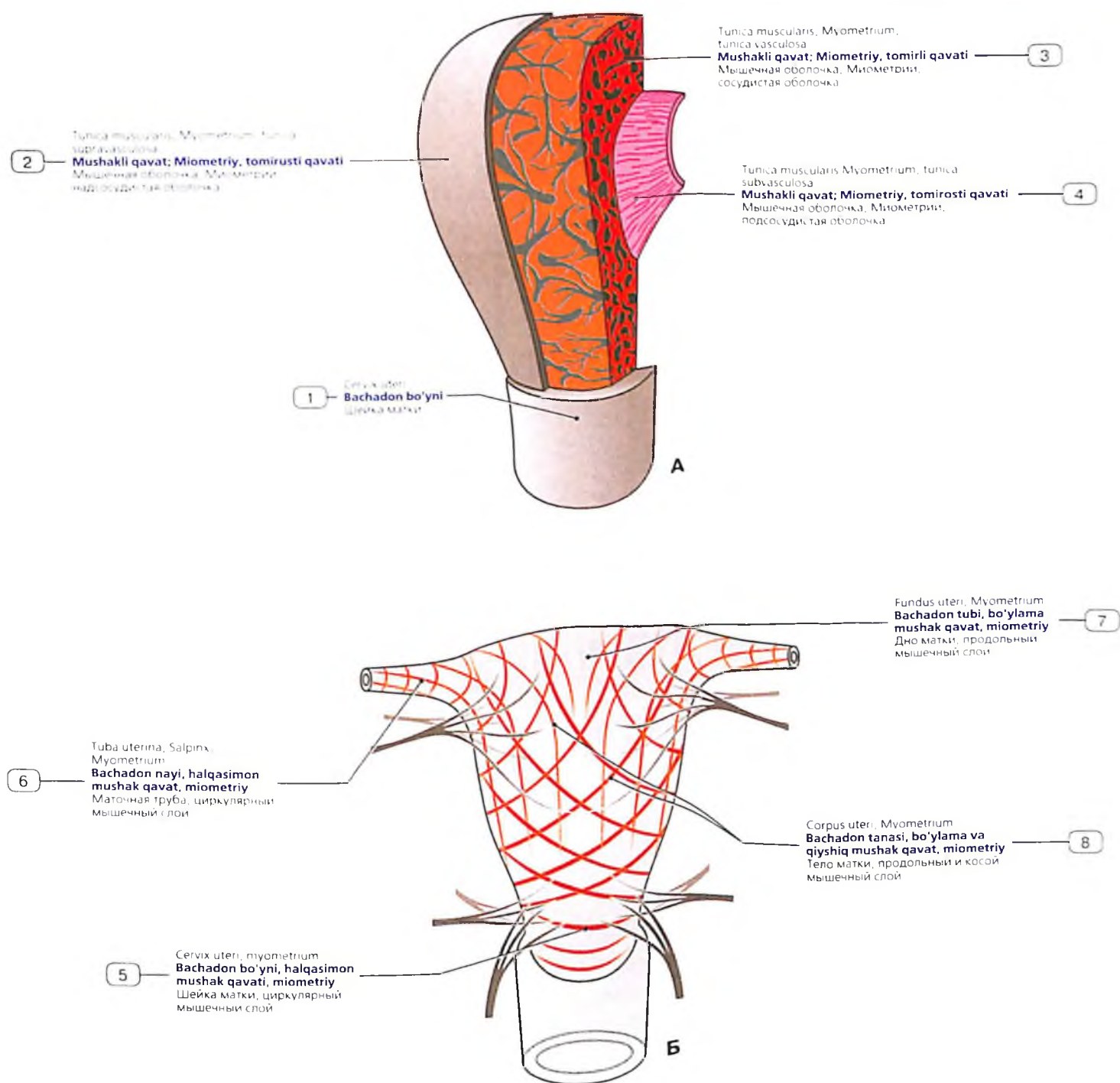
Rasm № 253. Bachadon turli qismlarining bir-biriga nisbatan joylashuvi.
Рисунок № 253. Взаимное расположение различных отделов матки.

1 Vagina, anterior part
2 Vagina, posterior part
3 Cervix, anterior part

4 Fundus of uterus
5 Myometrium
6 Serosa, serous coat, perimetrium

7 Endometrium
8 Flexion
9 Isthmus of uterus

10 Cervix of uterus, supravaginal part
11 Recto-uterine pouch
12 Vaginal fornix, posterior part
13 Cervix of uterus, vaginal part



Rasm № 254. Bachadon (A — bachadon devorining tuzilishi, chizma; B — miometriy mushak qavatlarining joylashuvi, chizma).

Рисунок № 254. Матка (А — строение стенки матки, схема; Б — расположение мышечных слоев миометрия, схема).

- | | | | |
|---|---------------------------------|---|---|
| 1 | Cervix of uterus | 5 | Cervix of uterus. Circular muscle fibers |
| 2 | Myometrium, supravascular layer | 6 | Uterine tube. Circular muscle fibers |
| 3 | Myometrium, vascular layer | 7 | Fundus of uterus. Longitudinal muscle fibers |
| 4 | Myometrium, subvascular layer | 8 | Body of uterus. Longitudinal and oblique fibers |

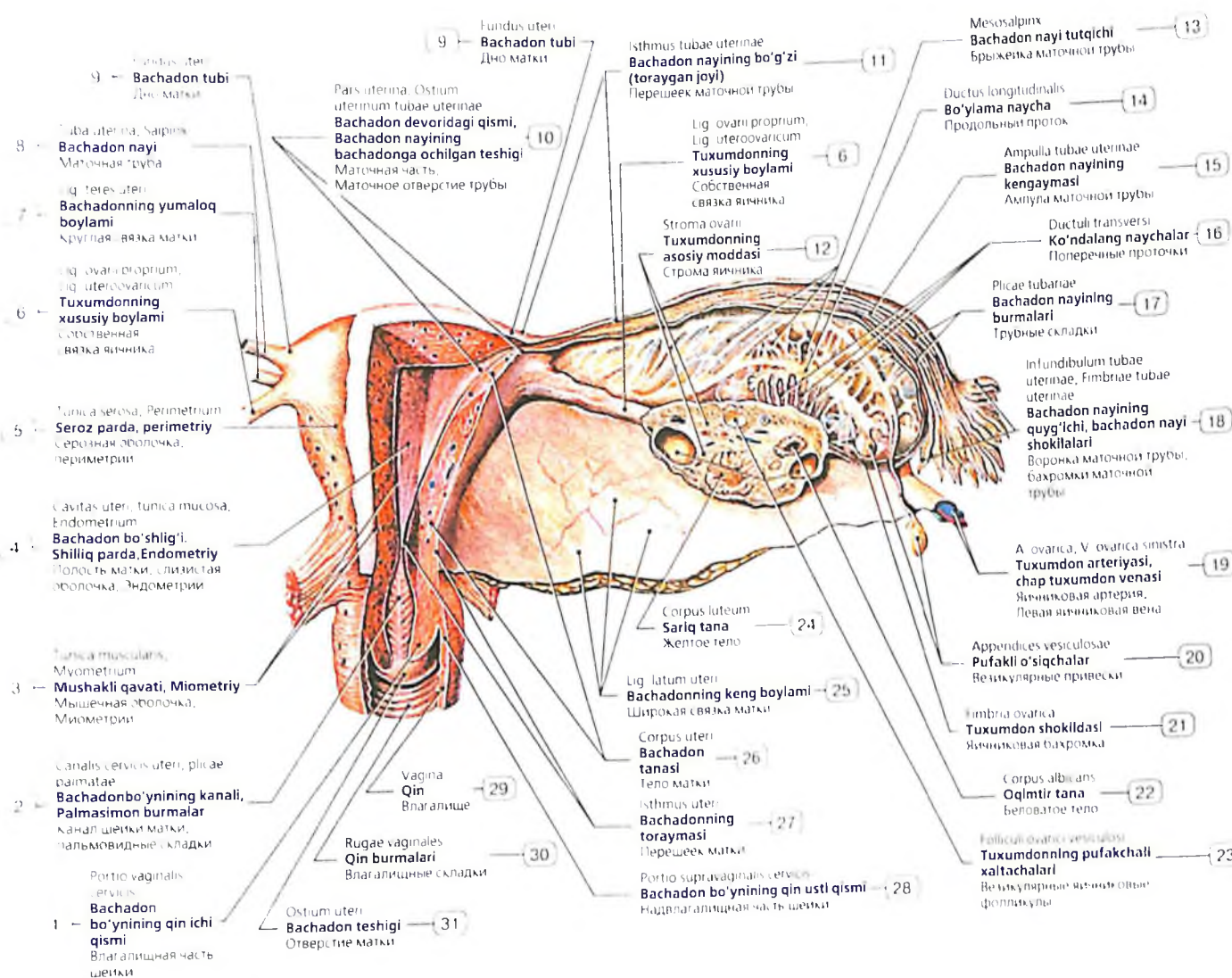


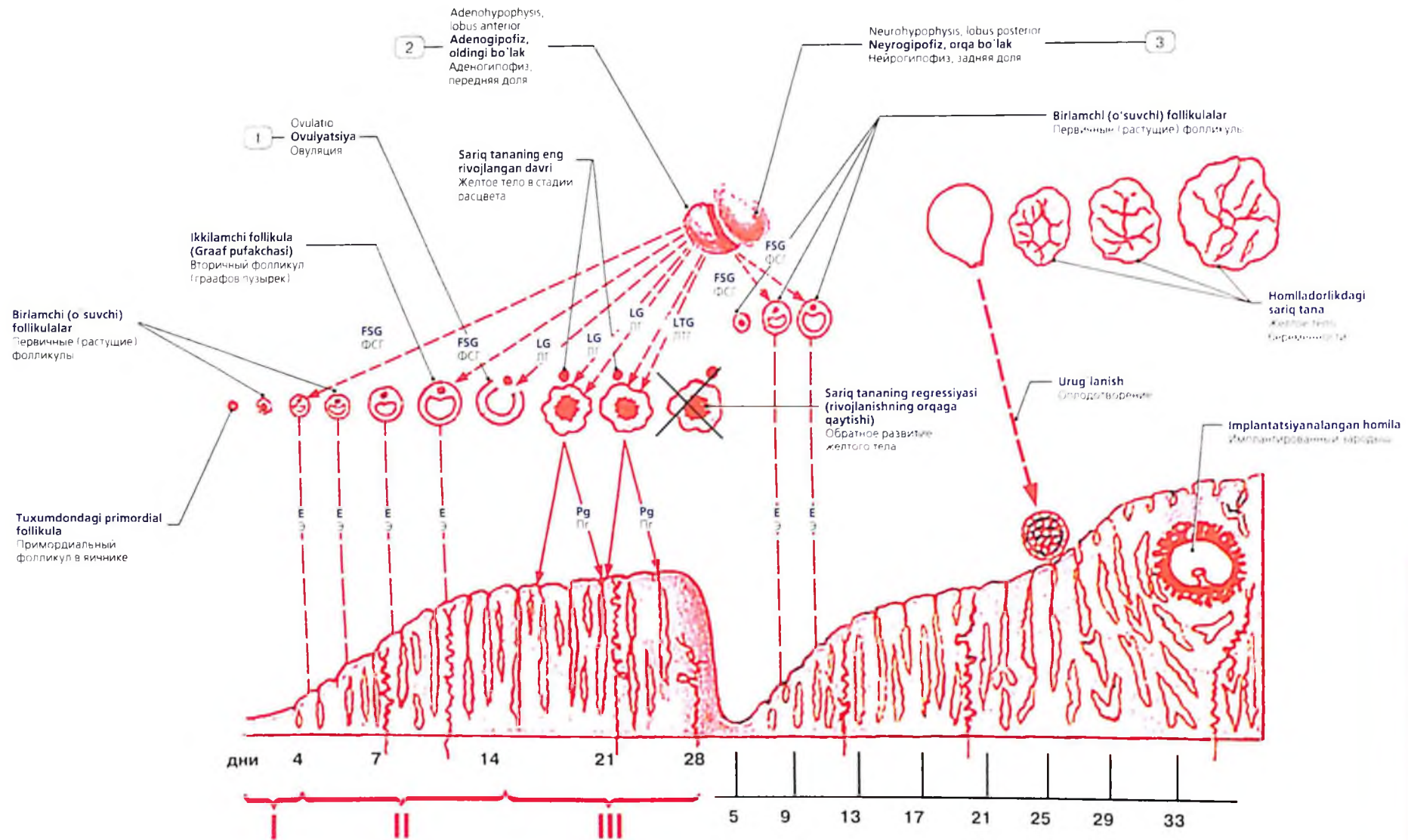
Рис. № 255. Яичник и маточная труба, левые, полость матки вскрыта.
Rasm № 255. Chap tuxumdon va bachadon nayi, bachadon bo'shlig'i ochilgan.

- 1 Vaginal part
- 2 Cervical canal, palmate folds
- 3 Myometrium
- 4 Uterine cavity, Endometrium
- 5 Serosa, Serous coat, perimetrium
- 6 Ligament of ovary
- 7 Round ligament of uterus
- 8 Uterine tube

- 9 Fundus of uterus
- 10 Uterine part, Intramural part, Uterine ostium
- 11 Isthmus
- 12 Ovarian stroma
- 13 Mesosalpinx
- 14 Longitudinal duct
- 15 Ampulla of uterine tube

- 16 Transverse ductules
- 17 Folds of uterine tube
- 18 Infundibulum, Fimbriae
- 19 Ovarian artery, left ovarian vein
- 20 Vesicular appendices
- 21 Ovarian fimbria
- 22 Corpus albicans
- 23 Vesicular ovarian follicle

- 24 Corpus luteum
- 25 Broad ligament of uterus
- 26 Body of uterus
- 27 Isthmus of uterus
- 28 Supravaginal part
- 29 Vagina
- 30 Vaginal rugae
- 31 External os of uterus



Rasm № 256. Ovarial-menstrual sikl:

I — menstruatsiya bosqichi; II — postmenstruatsiya bosqichi; III — premenstruatsiya bosqichi. Folitropinning (ФСГ) yetiluvchi follikulalarga ta'siri, lyutropinning (ЛГ) ovulyatsiya va sariq tana hosil bo'lishiga ta'siri, laktotropinning (prolaktin, ЛТГ) — sariq tana shakllanishiga ta'siri, estrogenning (Э), endometriy o'sishini ta'minlaydi, — bachadonga ta'siri (postmenstrual va proliferatsiya bosqichlarida), progesteronning (Пр) — endometriyga ta'siri (predmenstrual bosqichda) chiziqlar yordamida ko'rsatilgan.

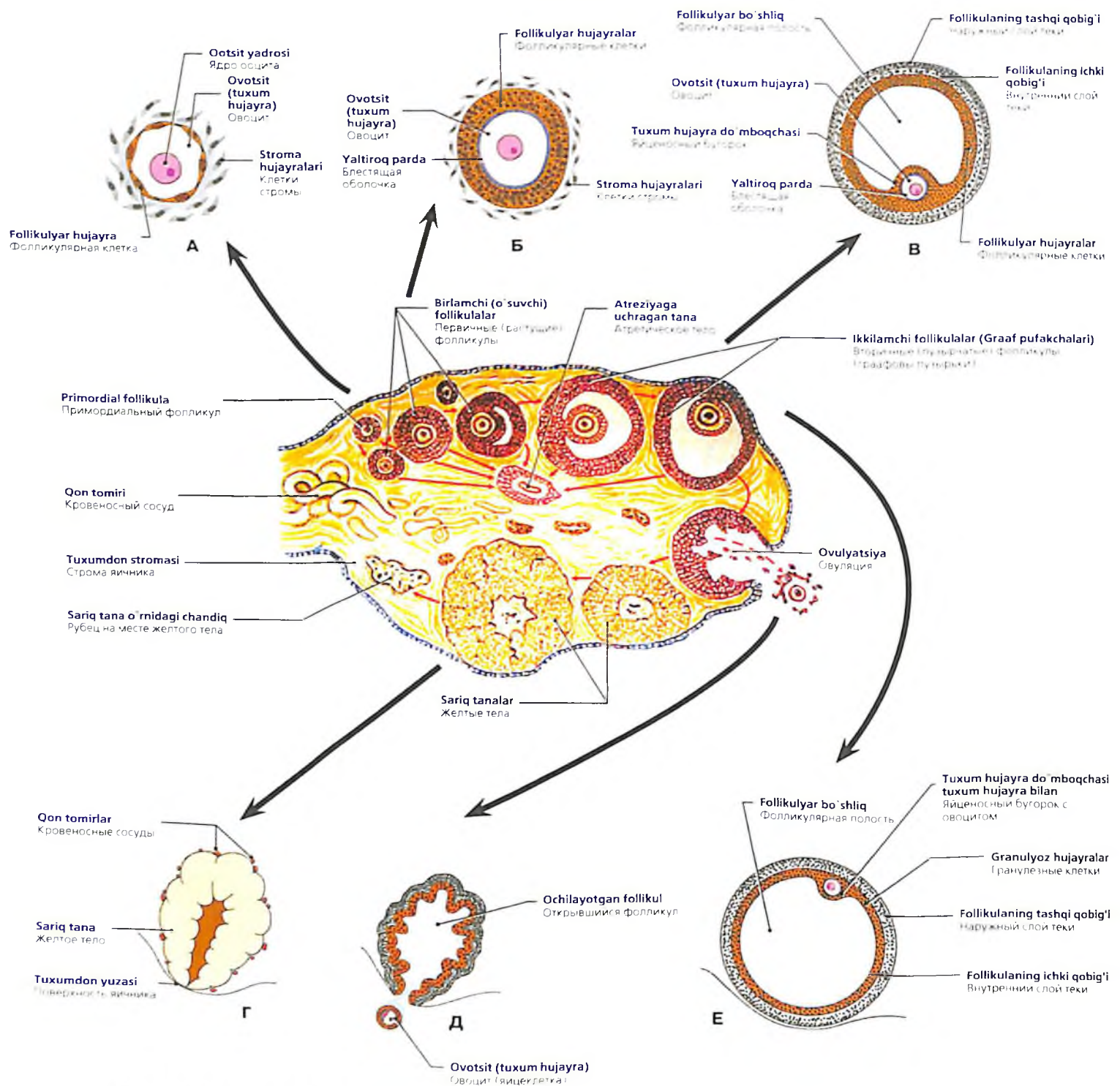
Рисунок № 256. Овариально-менструальный цикл:

I — менструальная фаза; II — постменструальная фаза; III — предменструальная фаза. Стрелками показано действие фоллитропина (ФСГ) на растущие фолликулы, лютропина (ЛГ) — на овуляцию и образование желтых тел, лактотропина (пролактина, ЛТГ) — на сформированное желтое тело, действие эстрогена (Э), стимулирующее рост эндометрия, — на матку (постменструальная или пролиферативная фаза), прогестерона (Пр) — на эндометрий (предменструальная фаза).

1 Ovulation

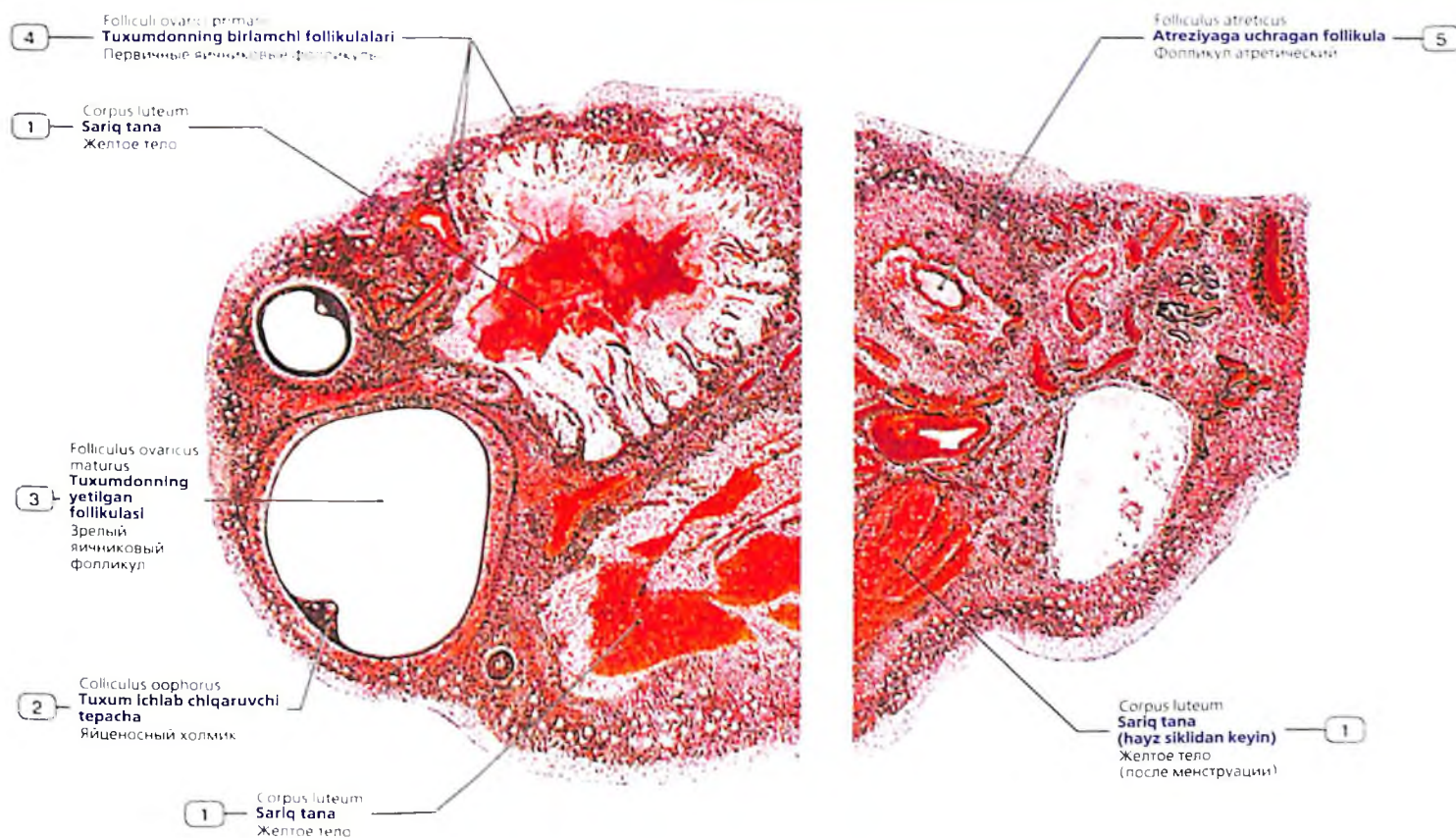
2 Adenohypophysis, anterior lobe

3 Neurohypophysis, posterior lobe



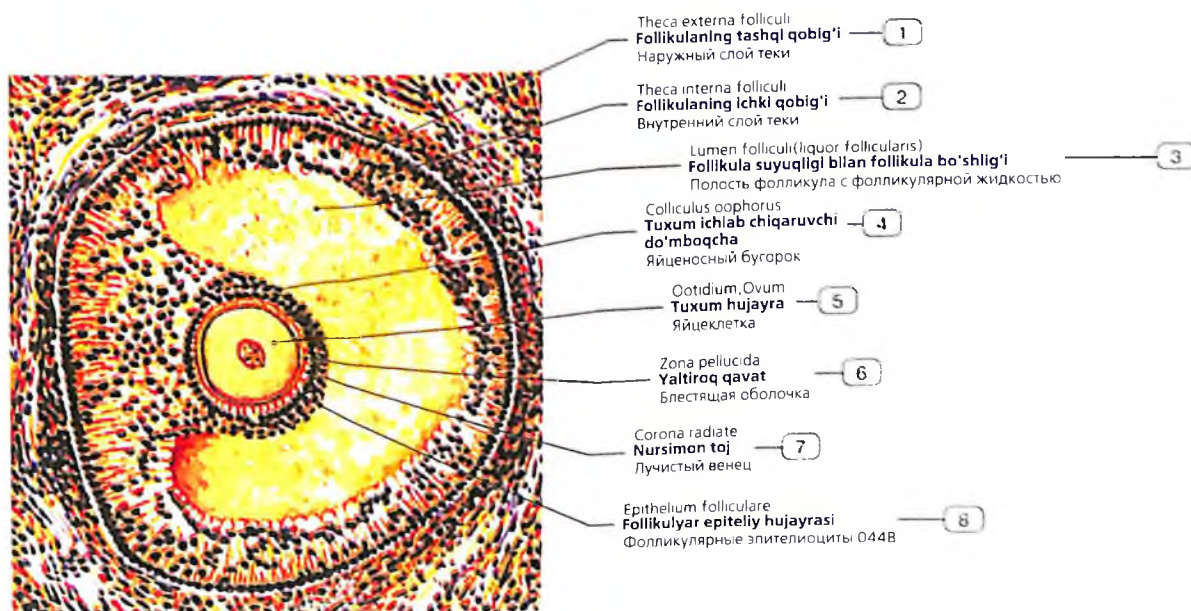
Rasm № 257. Tuxumdonda follikulalarning rivojlanishi (chizma). Ovulyatsiya, sariq tananing hosil bo'lishi
[A — primordial follikula; B — birlamchi (o'suvchi) follikula; B — ikkilamchi (pufakchali) follikula; Г — sariq tana;
Д — ovulyatsiya; E — ovulyatsiyadan oldingi ikkilamchi (pufakchali) follikula].

Рисунок № 257. Развитие фолликулов яичника (схема). Овуляция, образование желтого тела
[A — примордиальный фолликул; Б — первичный (растущий) фолликул;
В — вторичный (пузырчатый) фолликул; Г — желтое тело; Д — овуляция; Е — вторичный (пузырчатый) фолликул перед овуляцией].



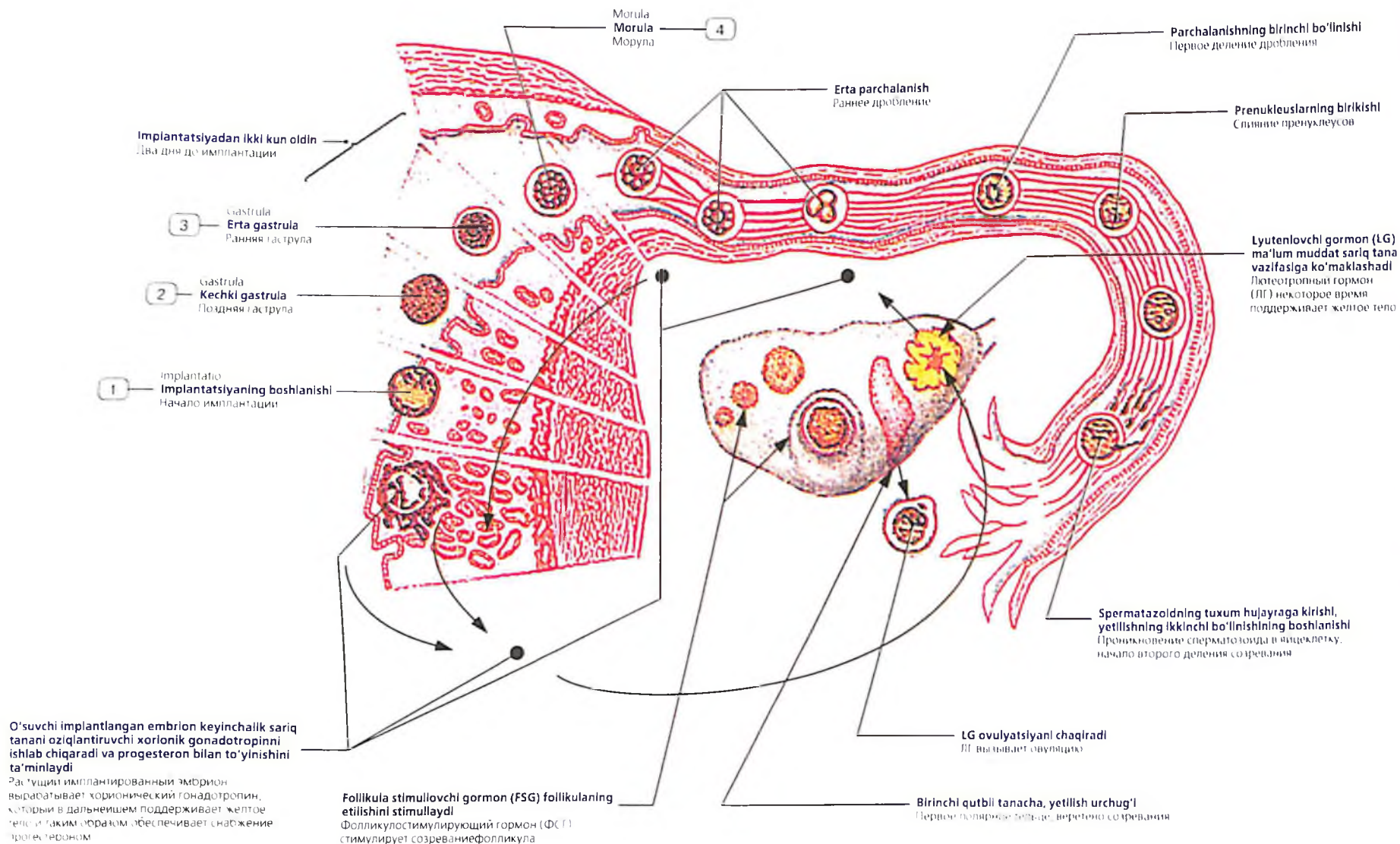
Rasm № 258. Tuxumdonning yetilgan follikulalari va sariq tanalar, tuxumdon kesmasi (tabiiy rpreparatlar surati).
Рисунок № 258. Зрелые фолликулы и желтые тела, разрез яичника (фотографии натуральных препаратов).

- 1 Corpus luteum 2 Colliculus oophorus 3 Folliculus ovaricus maturus 4 Folliculi ovarici primarii 5 Folliculus atreticus



Rasm № 259. Tuxumdon pufakchali (vezikulyar) follikulasining tuzilishi (Graaf pufakchasi) (chizma).
Рисунок № 259. Строение пузырчатого(везикулярного) фолликула яичника (граафова пузырька) (схема).

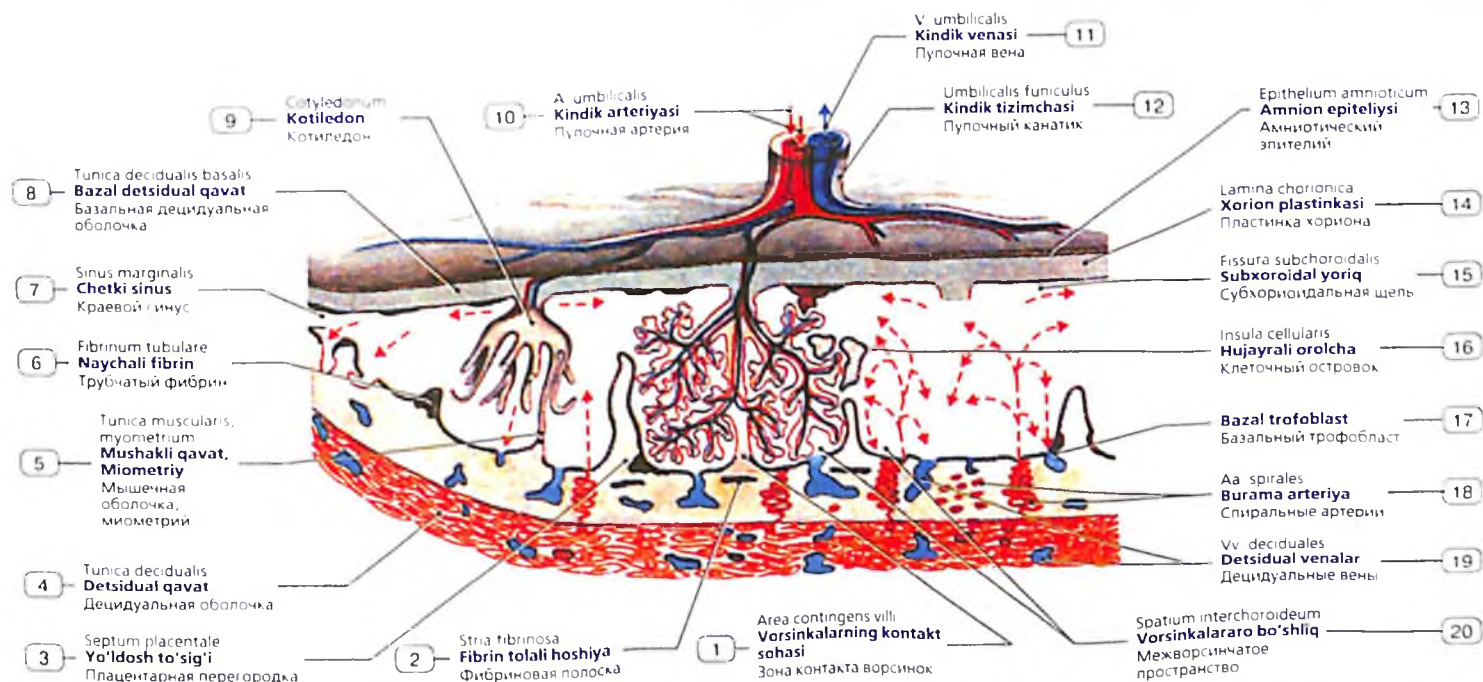
- 1 Theca externa of folliculus 3 Follicular lumen 5 Oocyte 7 Radiate crown
2 Theca interna of folliculus 4 Colliculus oophorus 6 Zona pelluzida 8 Follicular cell



Rasm № 260. Tuxum hujayraning bachadon nayi tomon yo'nalishi va embrionning endometriyga implantatsiyasi
(A. Xemu, D. Karmaku bo'yicha, o'zgarishlar bilan).

Рисунок № 260. Путь яйцеклетки по маточной трубе и имплантация зародыша в эндометрий
(по А. Хему, Д. Кормаку, с изменениями).

- | | |
|-----------------|------------------|
| 1 Implantation | 3 Early gastrula |
| 2 Late gastrula | 4 Morula |



Rasm № 261. Yo'ldoshning tuzilishi, yo'ldoshning vorsinkalararo bo'shlig'ida ona qoni harakatlanishi chiziqlar bilan ko'rsatilgan (chizma) (V. Bargman bo'yicha).

Рисунок № 261. Строение плаценты, стрелками обозначены направления тока материнской крови в межворсинчатом пространстве плаценты (схема) (по В. Баргман).

- 1 Contact zone villi
- 2 Fibrine strip
- 3 Placental septum
- 4 Decidual layer

- 5 Myometrium
- 6 Tubular fibrin
- 7 Marginal sinus
- 8 Basal decidual layer

- 9 Cotyledon
- 10 Umbilical artery
- 11 Umbilical vein
- 12 Umbilical cord

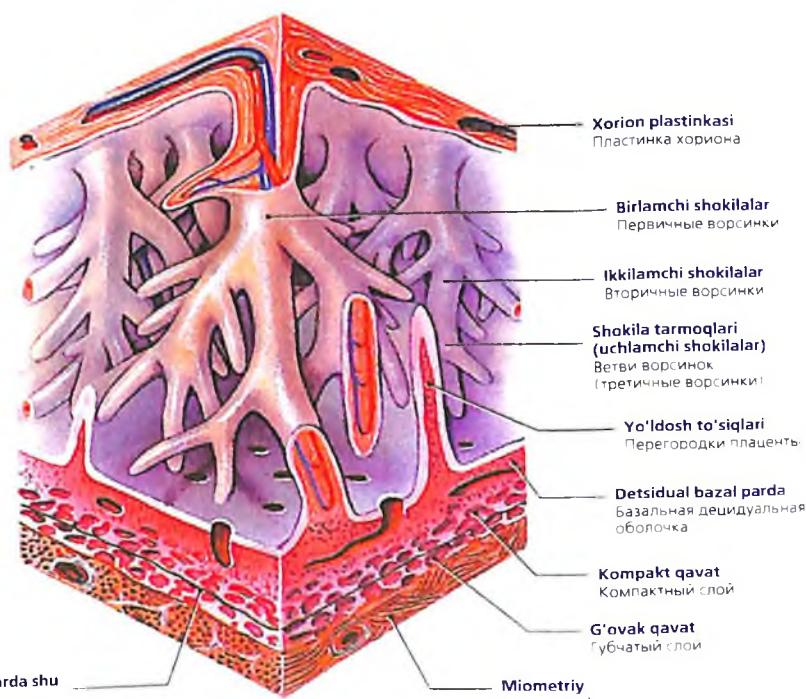
- 13 Amniotic epithelium
- 14 Chorionic plate
- 15 Subchoroidal fissure
- 16 Cellular islet

- 17 Basal trophoblasts
- 18 Spiral arteries
- 19 Decidual veins
- 20 Intervillous space

**Rasm № 262. Yo'ldosh.
Рисунок № 262. Плацента.**

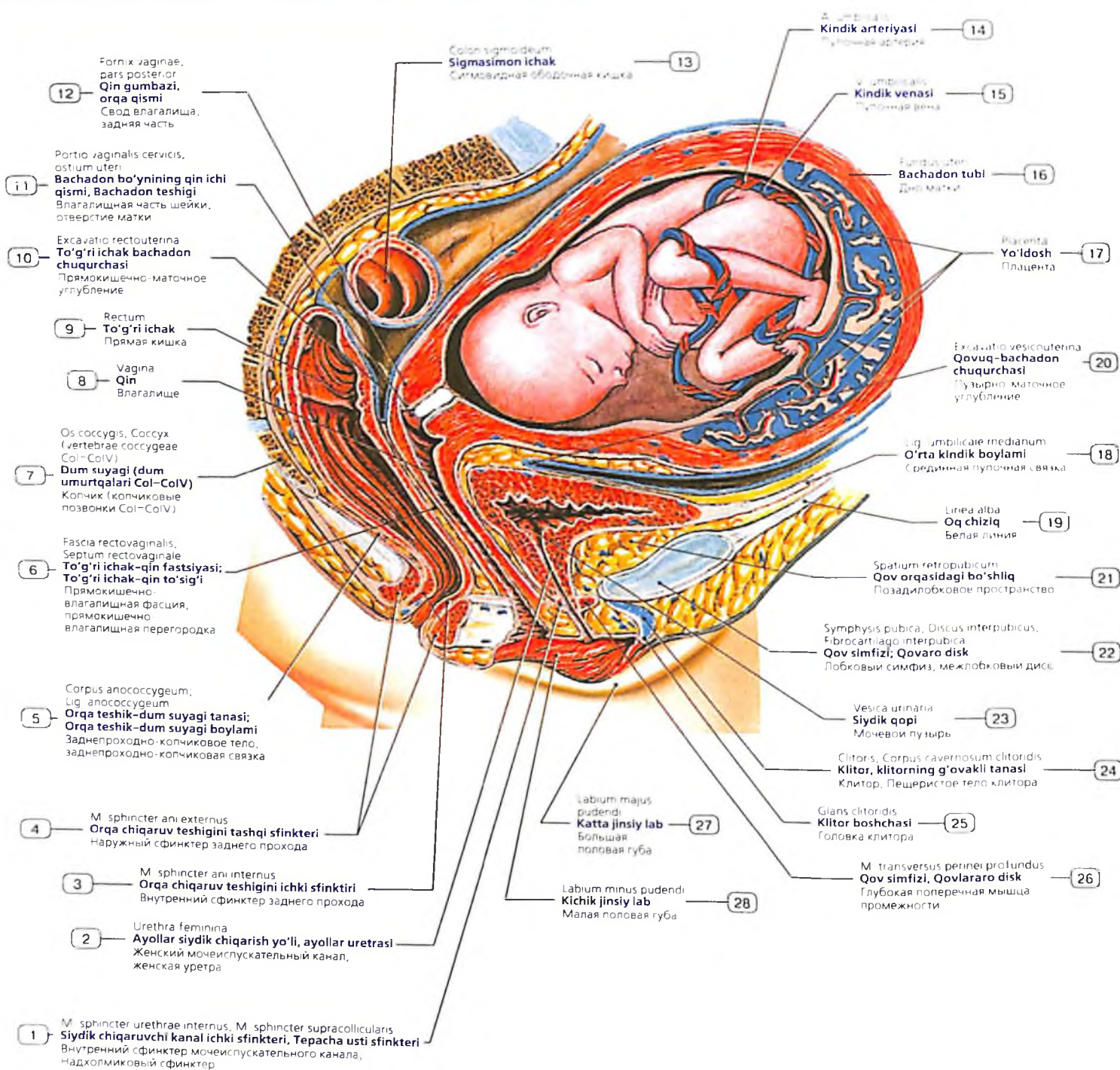
Одам yo'ldoshi ona va homila qismlaridan iborat. Ona qoni bilan homila qoni aloqada bo'lmaydi, yo'ldosh ular orasida ozuqa moddalari, gazlar va moddalar almashinuvi mahsulotlari almashinuvi ta'minlaydi. Yo'ldoshning ona qismi bazal detsidual pardadan iborat, homila qismi xorion plastinkasi va uning tarmoqlaridan iborat. Xorion shokilalarining uch turi mavjud: bazal detsidual parda bilan aloqada bo'luvchi (birlamchi shokilalar), bevosita xorion plastinkasidan tarmoqlangan, lekin bazal detsidual parda bilan bog'lanmagan (xorionik, yoki ikkilamchi shokilalar), va ikkilamchi shokilalardan chiquvchi tarmoqlar (yoki uchlamchi shokilalar).

Человеческая плацента состоит из материнской и плодной частей. Это обусловлено тем, что кровь матери не контактирует с кровью зародыша, а плацента обеспечивает обмен питательными веществами, газами и продуктами обмена между ними. Материнская часть плаценты образована базальной децидуальной оболочкой, эмбриональная часть – пластинкой хориона и ее ответвлениями. Есть три типа ворсинок хориона контактирующие с базальной децидуальной оболочкой (заякоривающиеся, или первичные, ворсинки), отвечающие непосредственно от пластинки хориона, но не связанные с базальной децидуальной оболочкой (хорионические, или вторичные ворсинки), и отходящие от вторичных ворсинок ветви (или третичные ворсинки).



Tug'ruqdan keyin detsidual parda shu sohada ko'chib tushadi
После родов децидуальная оболочка отслаивается в этом месте

СИСТЕМА ЖЕНСКИХ ПОЛОВЫХ ОРГАНОВ



Rasm № 263. Bachadon va undagi homila.
Рисунок № 263. Матка и находящийся в ней плод.

1. internal urethral sphincter, supracolicular sphincter, Preprostatic sphincter

2. Female urethra

3. internal anal sphincter

4. External anal sphincter

5. Anococcygeal body, Anococcygeal ligament

6. Rectovaginal fascia, Rectovaginal septum

7. Coccyx, Coccygeal vertebrae Col-ColV

8. vagina

9. Rectum

10. Recto-uterine pouch

11. Vaginal part, external os of uterus

12. Vaginal fornix, posterior part

13. Sigmoid colon

14. Umbilical artery

15. Umbilical vein

16. Fundus of uterus

17. Placenta

18. Median umbilical ligament

19. Linea alba

20. Vesico-uterine pouch

21. Retropubic space

22. Pubic symphysis, Interpubic disc, Interpubic fibrocartilage

23. Urinary bladder

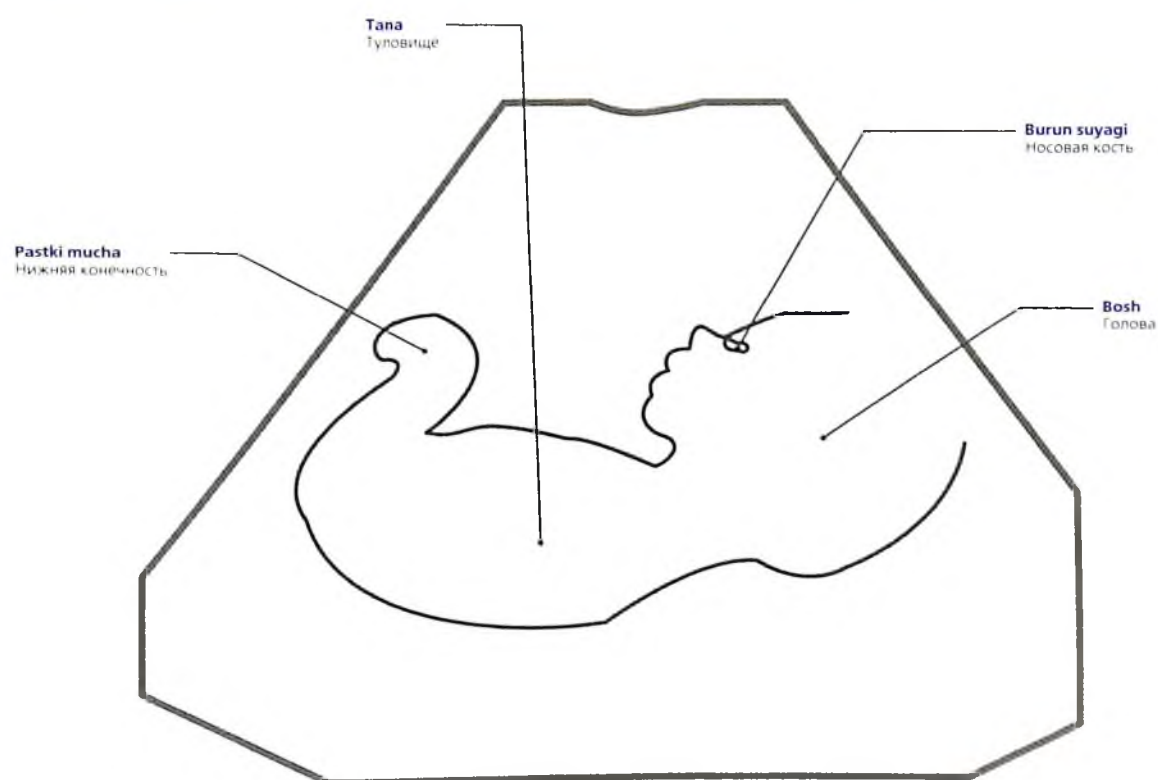
24. Clitoris, Corpus cavernosum of clitoris

25. Glans of clitoris

26. Deep transverse perineal muscle

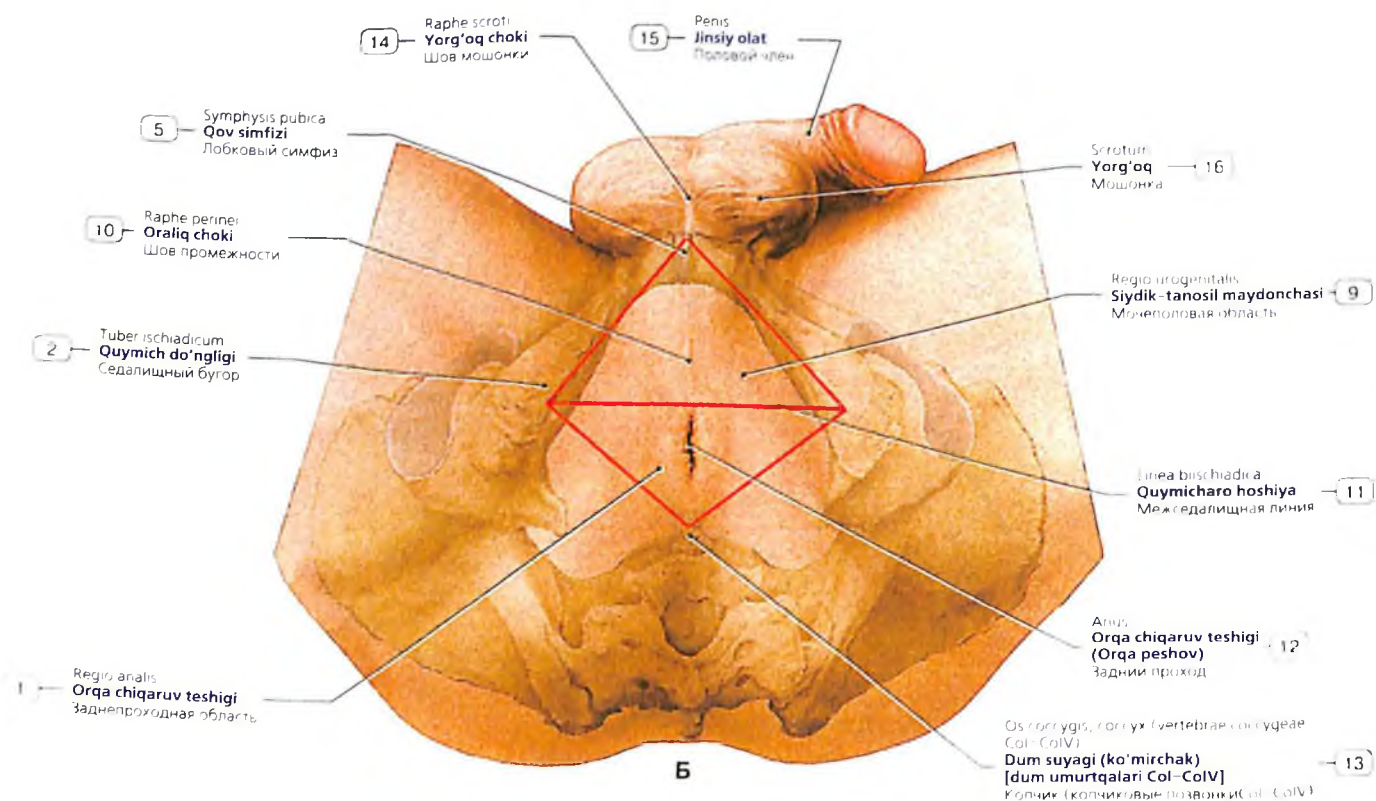
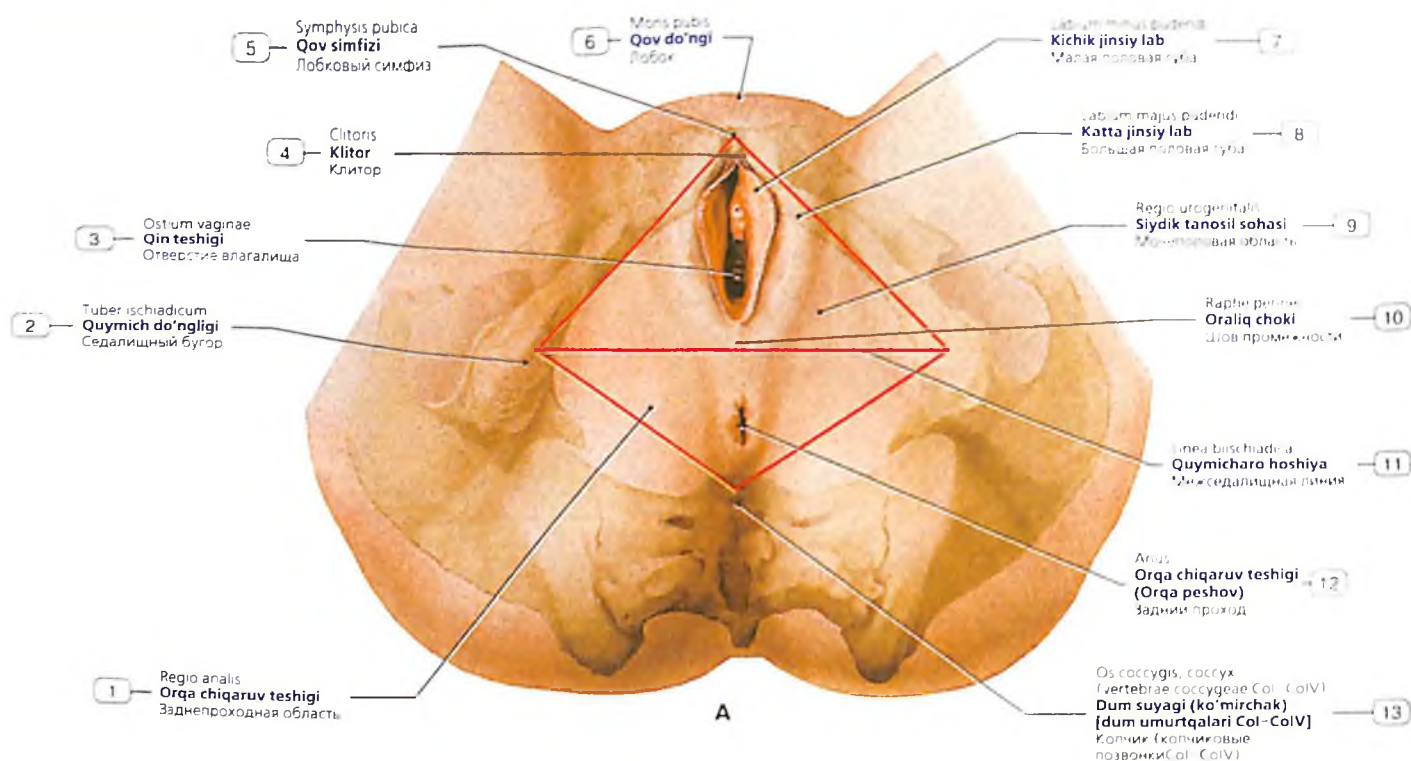
27. Labium majus

28. Labium minus



Rasm № 264. Homila exogrammasi. Homiladorlik 19 hafta (A — UTT monitoridagi ko'rinish; B — chizma).
Рисунок № 264. Эхограмма плода. Беременность 19 недель (A — вид на экране монитора УЗИ; B — схема).

СИСТЕМА ЖЕНСКИХ ПОЛОВЫХ ОРГАНОВ



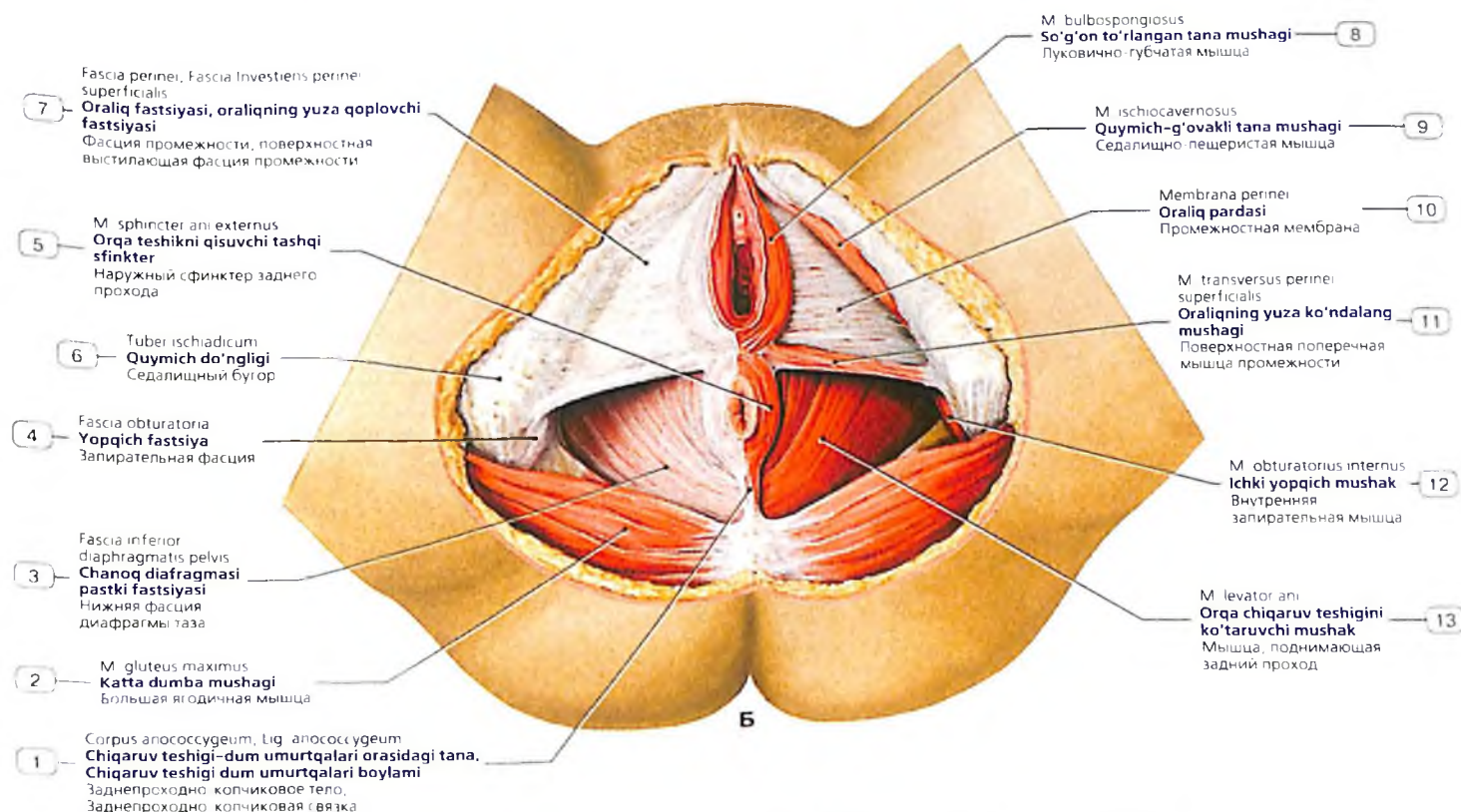
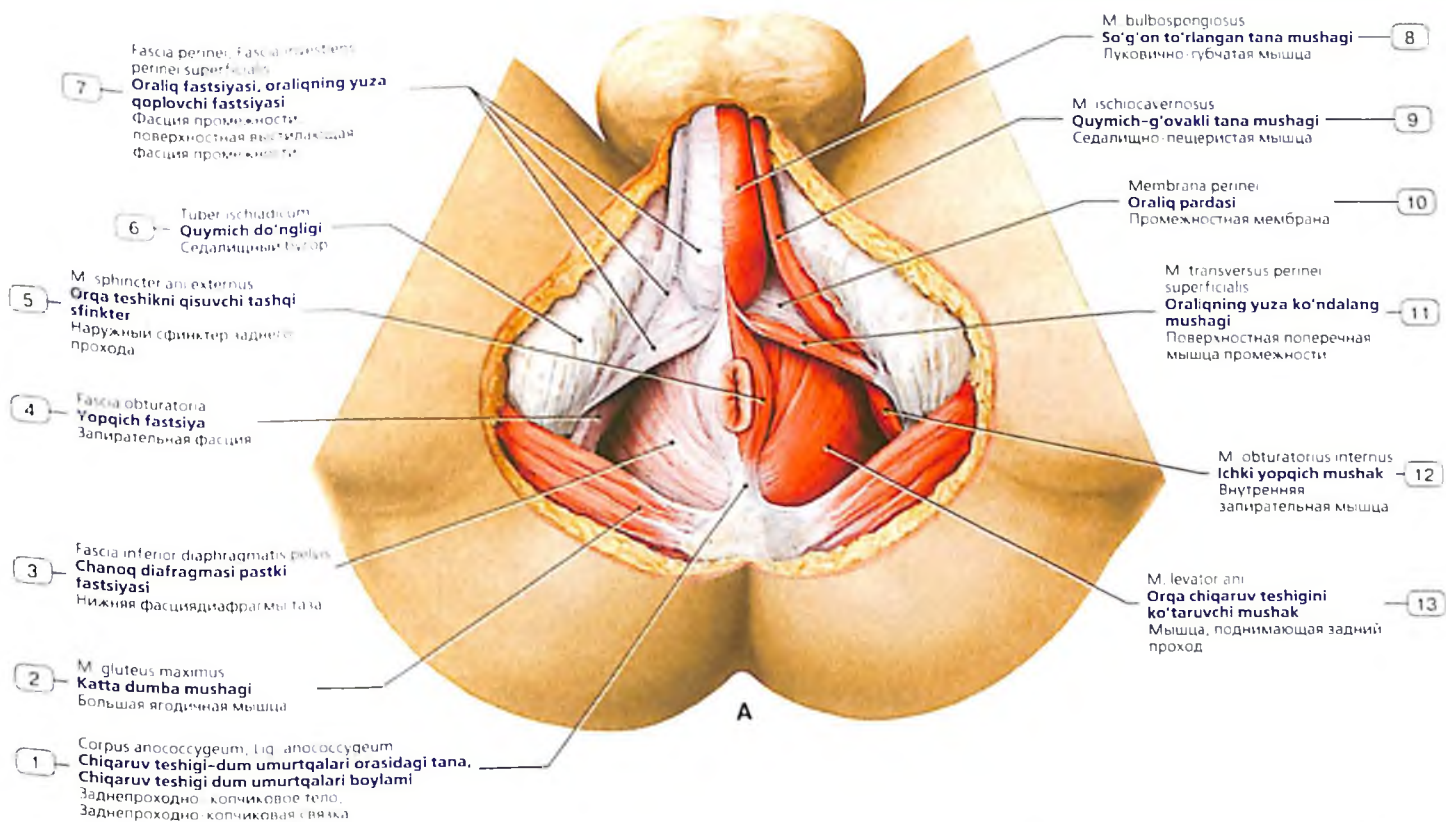
Rasm № 265. (A) Ayollar va (B) erkaklar oralig'i.
Рисунок № 265. Женская (А) и мужская (Б) промежности.

1. Regio analis
2. Tuber ischiadicum
3. Ostium vaginae
4. Clitoris

5. Pubic symphysis
6. Mons pubis
7. Labium minus
8. Labium majus

9. Urogenital triangle
10. Perineal raphe
11. Biscatic line
12. Anus

13. Coccyx (coccygeal vertebrae Col - ColIV)
14. Raphe of scrotum
15. Penis
16. Scrotum



Rasm № 266. Ayollar (A) va erkaklar (B) oraliq'i fastsiyalari va mushaklari.
Рисунок № 266. Фасции и мышцы мужской (А) и женкой (Б) промежностей.

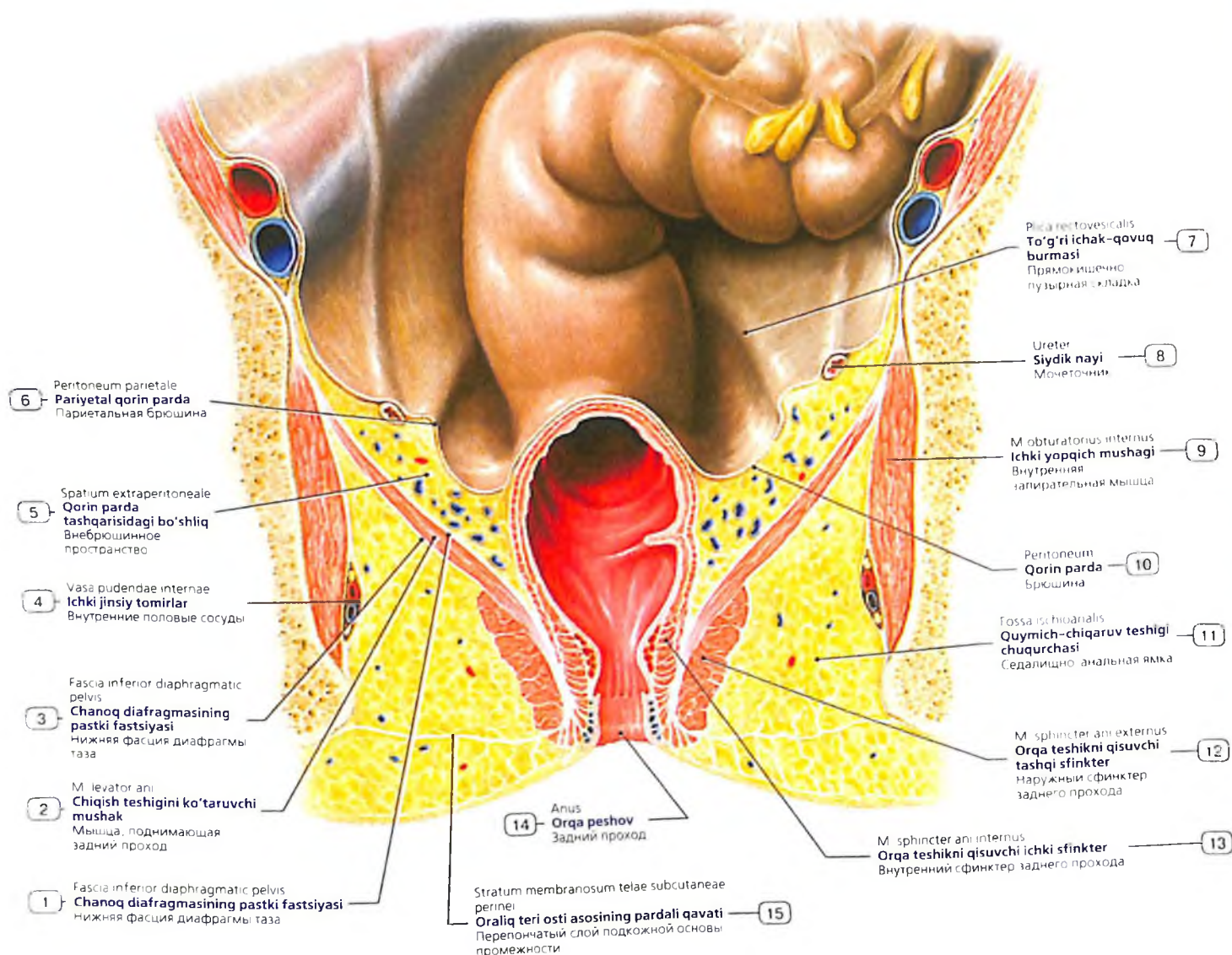
1 Anococcygeal body, anococcygeal ligament
2 Gluteus maximus
3 Inferior fascia of pelvic diaphragm

4 Obturator fascia
5 External anal sphincter
6 Ischial tuberosity

7 Perineal fascia, Superficial investing fascia of perineum
8 Bulbospongiosus
9 Ischiocavernosus

10 Perineal membrane
11 Superficial transverse perineal muscle
12 Obturator internus
13 Levator ani

СИСТЕМА ЖЕНСКИХ ПОЛОВЫХ ОРГАНОВ



Rasm № 267. Kichik chanoq bo'shlig'i, erkaklar oralig'i. To'g'ri ichak orqali frontal kesmasi.
Рисунок № 267. Полость малого таза, мужская промежность. Фронтальный распил через прямую кишку.

1 Fascia inferior diaphragmatic pelvis
2 Levator ani
3 Fascia inferior diaphragmatic pelvis
4 Vasa pudendae internae
5 Spatium extraperitoneale

6 Parietal peritoneum
7 Rectovesical fold
8 Ureter
9 Obturator internus
10 Peritoneum

11 Ischio-anal fossa
12 External anal sphincter
13 Internal anal sphincter
14 Anus
15 Membranous layer of subcutaneous tissue of perineum



ENDOCRINE SYSTEM

**ICHKI SEKRETSIYA
A'ZOLARI TIZIMI**

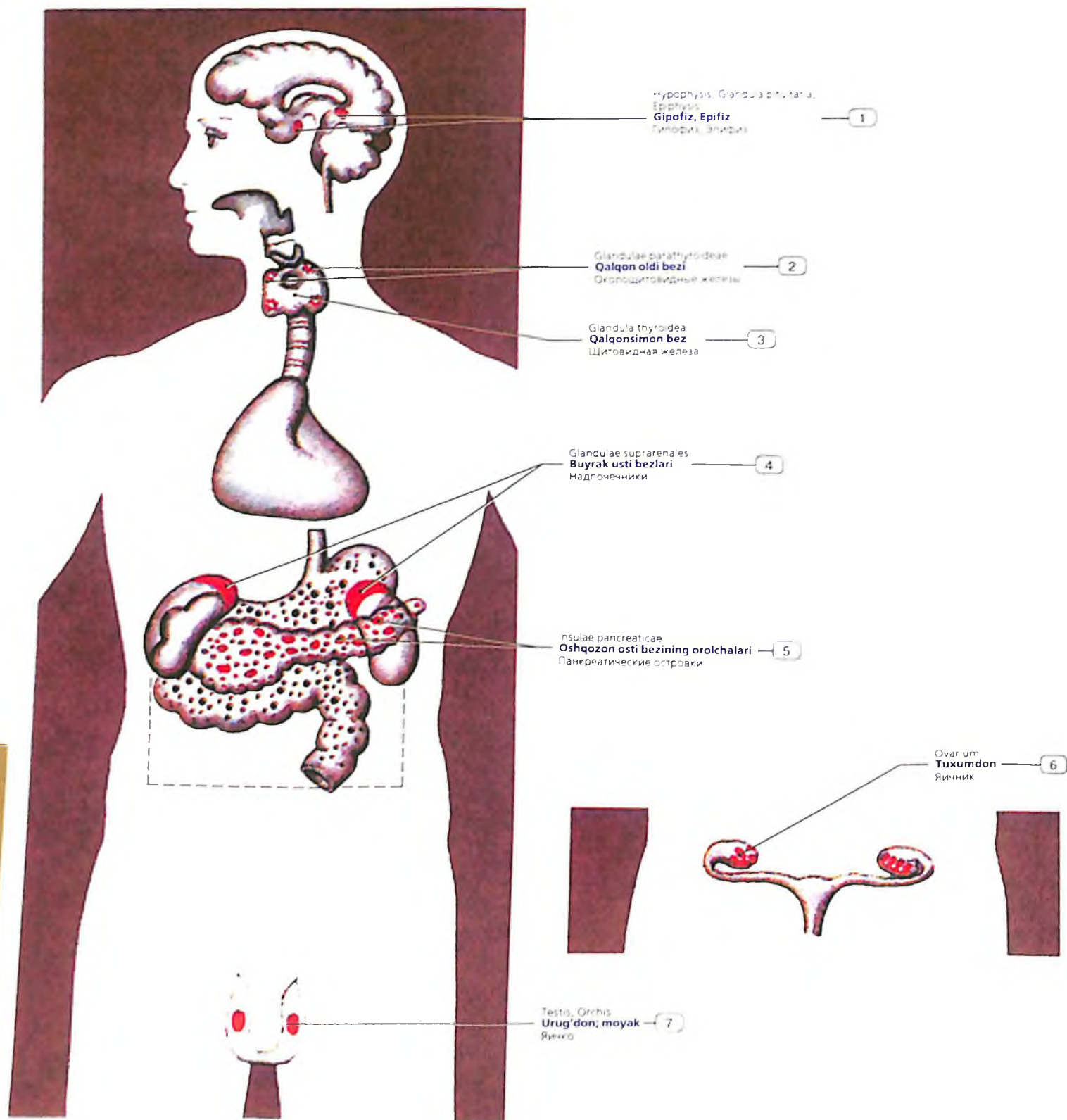
**ЭНДОКРИННАЯ
СИСТЕМА**



22 — jadval. Ichki sekretiya bezlari va ularning gormonlari

Bezlari	Hujayralar	Gormonlar va ularning tarkibi	Ta'siri
Gipofiz Gipofizning oldingi bo'lagi (adenogipofiz) Oraliq qismi Oraliq qismi Distal qismi	Atsidofil hujayralar, somatotroplar	Somatotrop (somatotropin, STG, oqsil)	Anabolik ta'siri: suyak, mushak, a'zolarining o'sishi. Organizmda oqsil va suv miqdorining nisbatan ko'payishi, yog'larning kamayishi
	Atsidofil sariq hujayralar, laktotroplar	Laktotrop (prolaktin, LTG, oqsil)	Sut bezi o'sishini tezlashtiradi va sut ishlab chiqarishni ko'paytiradi. Organizmda suv-tuz almashinuvini boshqaradi. Suv va elektrolitlar ekskretsiyasini kamaytiradi.
	Bazofil kortikotroplar (proopiomelanokortinni sintezlovchi (POMK) hujayralari)	Adrenokortikotrop (AKTG), polipeptid	Buyrak usti bezi po'stlog'idan glyukokortikoidlar hosil bo'lishi va sekretiya qilishini nazorat qiladi, yog' to'qimasiga lipolitik ta'sir qiladi, gipoglikemiya ni chaqiradi.
		Melanotsit stimullovchi (MSG), polipeptid	Melanin sintezlanishi, pigment granularining taqsimlanishi, teri pigmentatsiyasiga ta'sir qiladi
		Beta-endorfin	Og'irlik ta'sirlarining pasayishi, his-tuyg'ularni boshqarish (xursandchilik gormoni)
	Bazofil tireotroplar	Tireotrop (TTG), glikoproteid	Qalqonsimon bez tomonidan tiroksin gormoni ishlab chiqarishning stimulyatsiyasi
	Bazofil gonadotroplar	Folikul stimullovchi (folitropin, FSG), glikoproteid	Ayollarda: follikula yetilishining tezlashishi, estrogenlar sekretiya qilishini oshishi, ovulyatsiya Erklarda: Sertoli hujayralari proliferatsiyasi, Sertoli hujayralari tomonidan androgen bog'lovchi oqsillarning ishlab chiqarilishini nazorat qilinishi, spermatogenezning kuchayishi, urug' chiqaruvchi kanalchalarning rivojlanishining kuchayishi
		Lyuteinlovchi (lyutropin, LG), glikoproteid	Ayollarda: ovulyatsiya jarayonining tezlashishi, sariq tanachalar hosil bo'lishi va rivojlanishining tezlashishi, jinsiy hujayralar hosil bo'lishini tezlashishi, jinsiy gormonlar sekretiya qilishini (estrogen, progesteron)
		Interstitsial endokrinotsitlarni stimullovchi gormon	Erklarda: interstitsial endokrinotsit hujayralar (Leydig hujayralari) faoliyati stimulyatsiyasi, testosteron gormoni sekretiya qilishini va sintezlanishining kuchayishi
Neirogipofiz, orqa bo'lak Quyq ich	Peptid gormonlar gipotalamusning supraoptik va paraventrikulyar yadrolari neyronlari tomonidan ishlab chiqariladi. Bu gormonlar aksonlar yordamida neirogipofizga yetkaziladi va qonga o'tadi	Oksitotsin, oktapeptid	Bachadon devorlarining qisqarishi, emizish davrida sut bezlari yo'llaridagi mioepitelial hujayralarni qisqartirib, sut chiqishini ta'minlaydi. Oshqozon-ichak trakti silliq mushaklari tonusini oshiradi, tuz-suv almashinuvini boshqaradi, orqazmda ishtirok etadi
		Antidiuretik gormon (vasopressin, ADG) oktapeptid	Buyrak kanalchalarda suv reabsorbsiyasida (antidiuretik ta'sir) ishtirok etadi, siydik konsentratsiyasiga ta'sir etadi, tomirlarni toraytiruvchi ta'sir ko'rsatadi (AB ko'tarilishi), tashnalikni keltirib chiqarishda va xotira jarayonida ishtirok etadi
		Kogerin, peptid	Ichak peristaltikasi ritmini regulyatsiya qiladi
Oraliq qismi	Bazofil kortikotroplar (POMK hujayralari)	Melanin stimullovchi gormon (MSG), polipeptid	Katta yoshdagi odamlarda sintezlanmaydi. Bu vaqtda AKTG va lipotropin uning vazifalarini (melanin sintezi va uning teri, soch melanotsitlarida taqsimlanishi) bajaradi
Qalqonsimon bez O'ng bo'lagi Chap bo'lagi Bo'g'zi (toraygan joyi)	Folikulalarni hosil qiluvchi tirotsitlar	Tiroksin (tetrayodtironin, triyodtironin) yod saqlovchi glikoproteidlar	Bo'y o'sishini, jismoniy va aqliy rivojlanish organizmda energetik almashinuv jarayonini faollashtirish, oqsillar sintezi, yog' va uglevodlarning parchalanishining tezlashishini, hujayralarning katexolominlarga sezgirligini, insulin sekretiya qilishini tezlashishini ta'minlaydi
	Parafolikulyar hujayralar (C-hujayralar)	Tireokaltsitonin, polipeptid	Organizmda kaltsiy va fosfor metabolismini regulyatsiyasi, gipokaltsiemiya faktor, fosfor ishlab chiqarilishining kuchayishini ta'minlaydi

Qalqon oldi bezlari (yuqori va pastki)	Paratirotsit hujayralar	Paratiroidin (PTG2 - paratgormon), oqsil	Qon tarkibidagi kaltsiy, fosfor miqdorini saqlab turadi, kaltsiyning suyaklarda yig'ilishini boshqarib turadi. Osteoklastlar sonini ko'payishi, suyak to'qimasining yemirilishini kuchaytiradi.
Oshqozon osti bezining Langergans orolchalari	Beta hujayralar	Insulin, oqsil	Uglevod almashinuvi, lipogenez, glikogenez regulatsiyasi, his-tuygu, xulq-atvor reaksiyalari, gomeostazni ta'minlash, muhit noqulay sharoitlariga moslashishini ta'minlaydi.
	Alfa hujayralar	Glyukagon, oqsil	Glyukozaning boshqa moddalardan sintezlanishini tezlashtiradi, glyukagon ta'siri ostida hujayra ichidagi nafaol fosforilaza fermenti faollashib, glikogenni glyukozaqa parchalaydi, qonda glyukoza miqdori oshadi. Glikogenoliz, lipoliz faollashadi, yog'lar sintezlanishi pasayadi.
	Delta hujayralar	Somatostatin, peptid	Insulin va glyukagon sekretsiasini pasaytiradi. Oshqozon ichak, o't pufagi shirasi ajralishini pasaytiradi. Adenogipofiz tomonidan ishlab chiqiladigan somatotropin sekretsiasini pasaytiradi.
Buyrak usti bezi Po'stloq moddasi	Koptokchali zona	Mineralokortikoidlar (aldosteron), steroid	Mineral moddalar almashinuvi va suv-tuz almashinuvi regulatsiyasi, hujayra membranasi orqali Na aktiv transportini amalga oshiradi. Buyrak kanalchalari epiteliy hujayralarida Na nasoslari samarasini oshiruvchi fermentlar sintezini faollashtiradi, buning oqibatida Na va Cl reabsorbsiyasini kuchaytiradi. Buyrak kanalchalari K reabsorbsiyasi pasayadi. K siydik bilan chiqariladi. Tuzli-ishqorli muhit alkaloz tomon suriladi. Yallig'lanish jarayonini va kollagen hosil bo'lish jarayonlarini kuchaytiradi.
	Tutamli zona	Glukokortikoidlar, gidrokortizon, kortizol va boshqalar (AKTG tomonidan boshqariladi), steroidlar	Uglevodlar, oqsillar, yog'lar almashinuviga ta'sir qiladi. Glyukoneogenez ya'ni aminokislotalar dezaminatsiyasini tezlashtirish va uning azotsiz qoldiqlarini karbon suvlarga aylantirish jarayonini boshqaradi. Lipoliz - yog' depolaridan yog'ning safarbar etilishi, energiya manbai sifatida sarflanishini kuchaytiradi. Organizmning infeksiyaga nisbatan qarshiligini oshiradi, qonda limfotsitlar, eozinofillar va bazofillar miqdorini kamaytiradi.
	To'rsimon zona	Androgen, estrogenlar; progesteron (oz miqdorda), steroidlar	Epifizar tog'aylar suyaklanishini, muskul va suyak to'qimasida oqsil sintezini kuchaytiradi. Ikkilamchi jinsiy belgilar rivojlanishini ta'minlaydi.
Mag'iz moddasi (gipofizga bog'liq bo'lmagan)	Xromaffin hujayralar	Katexolaminlar: adrenalin, noradrenalin	Hujayra ichidagi moddalar almashinuvi jarayonini boshqarishda qatnashadi. Glikogenning parchalanishini, yog' to'qimasida yog'ning parchalanishini tezlashtiradi. Yurak qisqarishini kuchaytiradi va tezlashtiradi, o'pka ventilyatsiyasini oshiradi. Muskullarning, yurak, miyaning kislorodga bo'lgan ehtiyojini qondiradi. Organizm tomonidan tashqi muhit taassurotlarini qabul qilishni yaxshilaydi.
Tuxumdon	Folikulyar hujayralar	Estradiol, estron, steroidlar	Jinsiy gormonlar homila jinsini aniqlaydi, jinsiy a'zolar va ikkilamchi jinsiy belgilar rivojlanishini va jinsiy xulqni belgilaydi. Bachadonning shilliq qavatini proliferatsiya fazasini ta'minlaydi va sut bezlarini rivojlantiradi.
Sariq tana (tuxumdonlarda hosil bo'ladi)	Lyuteotsitlar	Progesteron, steroid	Bachadon shilliq qavatini implantatsiyaga tayyorlaydi, homiladorlik davrini boshqaradi, katobolik effektga ega.
Urug donlar (Moyaklar)	Interstitsiyal endokrinotsitlar (Leydig hujayralari)	Testosteron, steroid	Homila jinsini aniqlaydi, birlamchi va ikkilamchi jinsiy belgilar rivojlanishini va jinsiy xulqni boshqaradi. Spermatogenezni regulatsiya qiladi. Anabolik effektga ega.
	Sustentotsitlar (Sertoli hujayralari)	Ingibin	FSG va estrogenlar sintezi va sekretsiasini pasaytiradi.

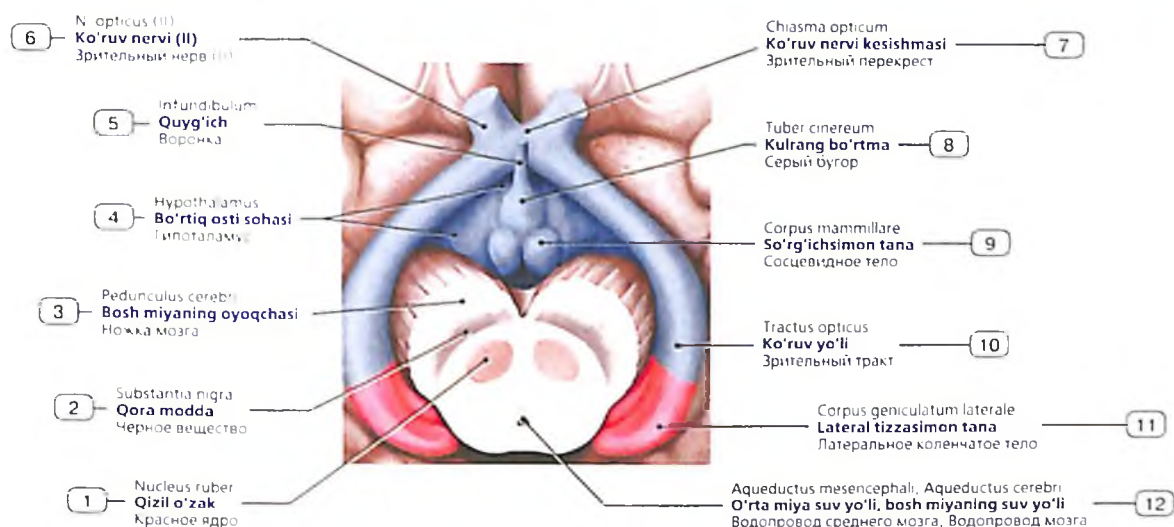


Rasm № 268. Odam tanasida endokrin bezlarning joylashish holati (umumiy chizma).
Рисунок № 268. Положение эндокринных желез в теле человека (общая схема).

1 Pituitary gland, Epiphysis
2 Parathyroid glands
3 Thyroid gland

4 Suprarenal glands,
Adrenal glands
5 Pancreatic islets

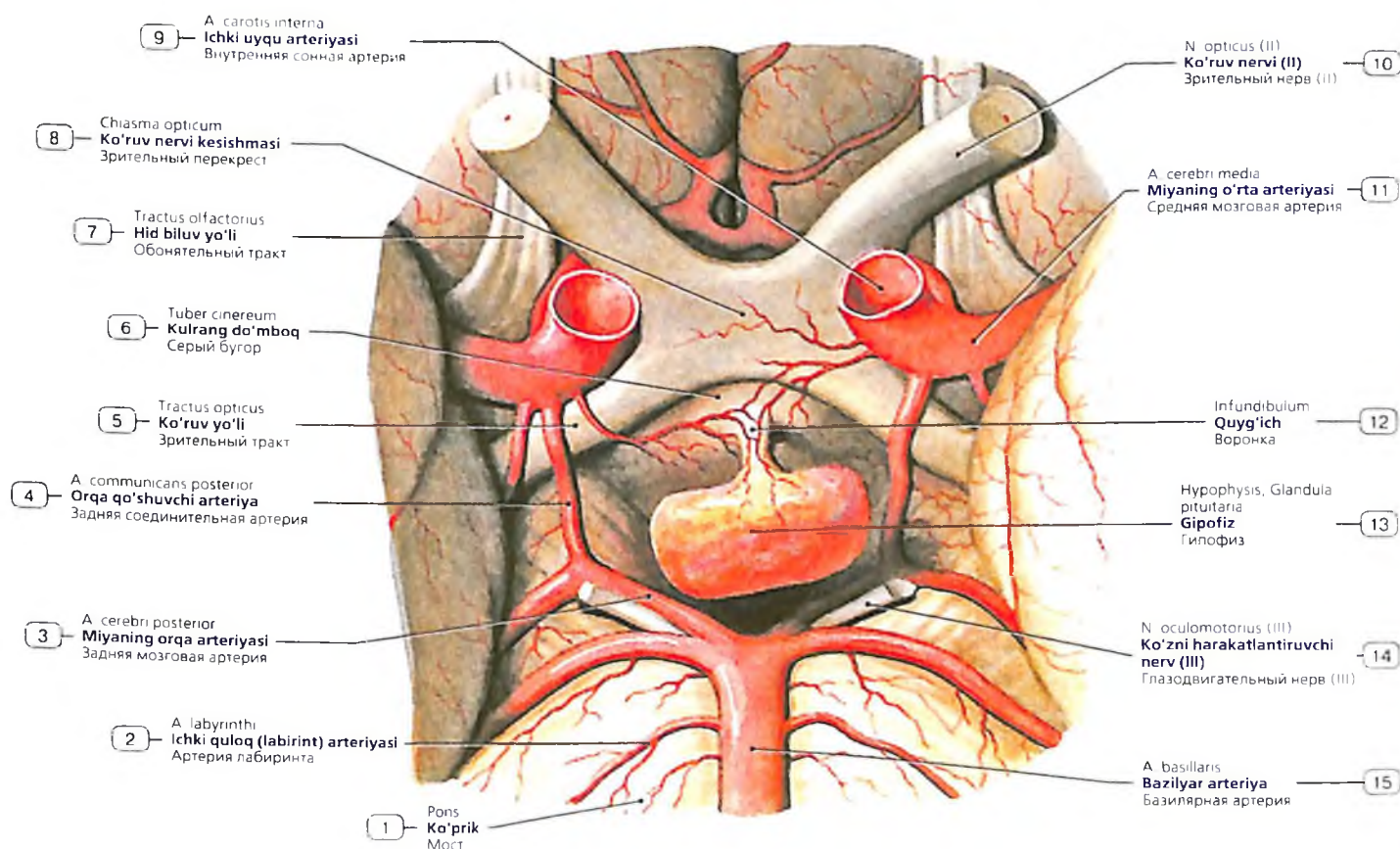
6 Ovary
7 Testis



Rasm № 269. Gipotalamus va o'rta miya, pastdan ko'rinishi.

Рисунок № 269. Гипоталамус и средний мозг, вид снизу.

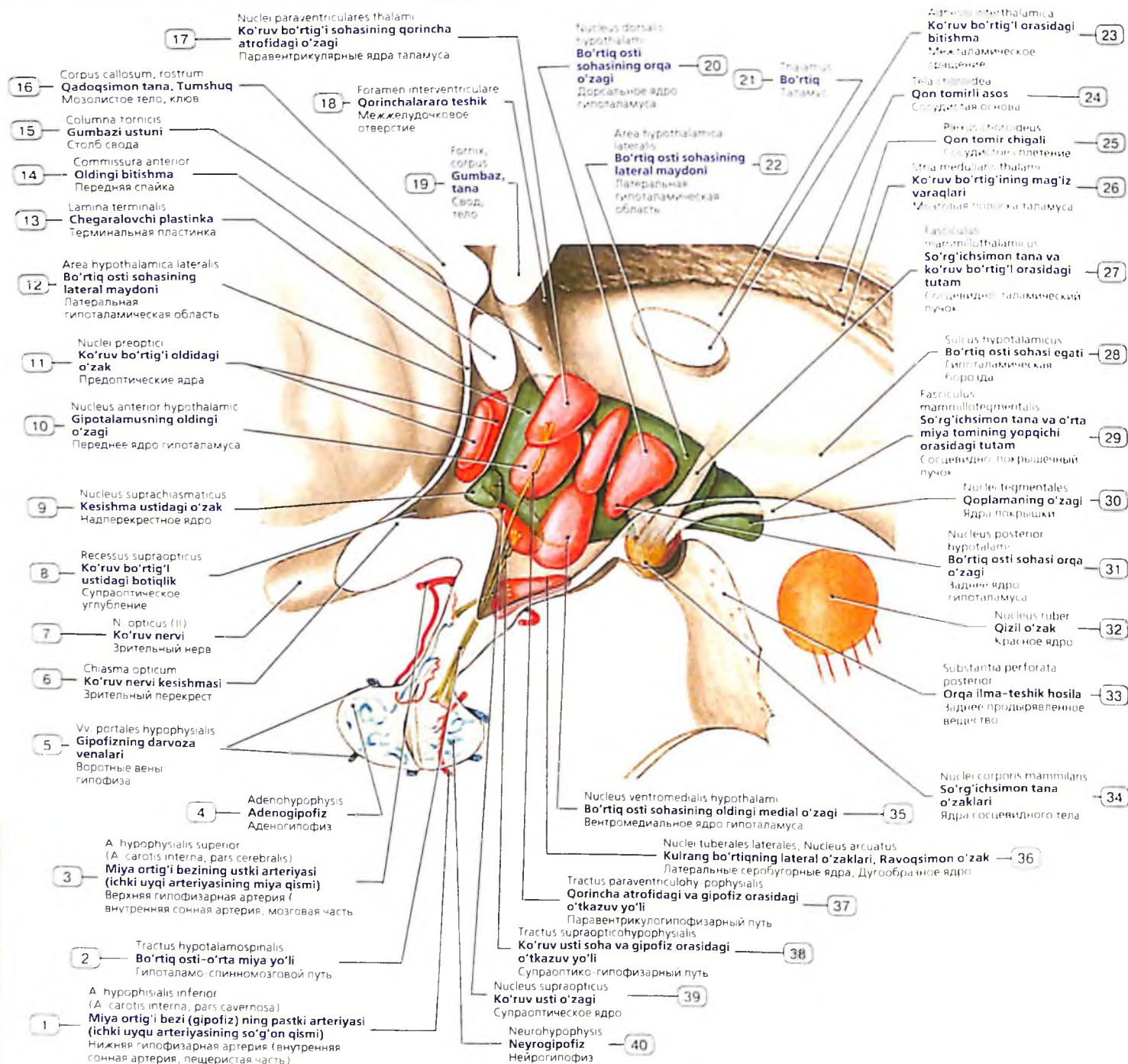
- | | | | | |
|---------------------|-------------------|-------------------------------|----------------------------|--|
| 1 Red nucleus | 4 Hypothalamus | 7 Optic chiasm, Optic chiasma | 10 Optic tract | 12 Aqueduct of midbrain, Cerebral aqueduct |
| 2 Substantia nigra | 5 Infundibulum | 8 Tuber cinereum | 11 Lateral geniculate body | |
| 3 Cerebral peduncle | 6 Optic nerve(II) | 9 Mammillary body | | |



Rasm № 270. Gipotalamus va gipofiz topografiyasi, pastdan ko'rinishi.

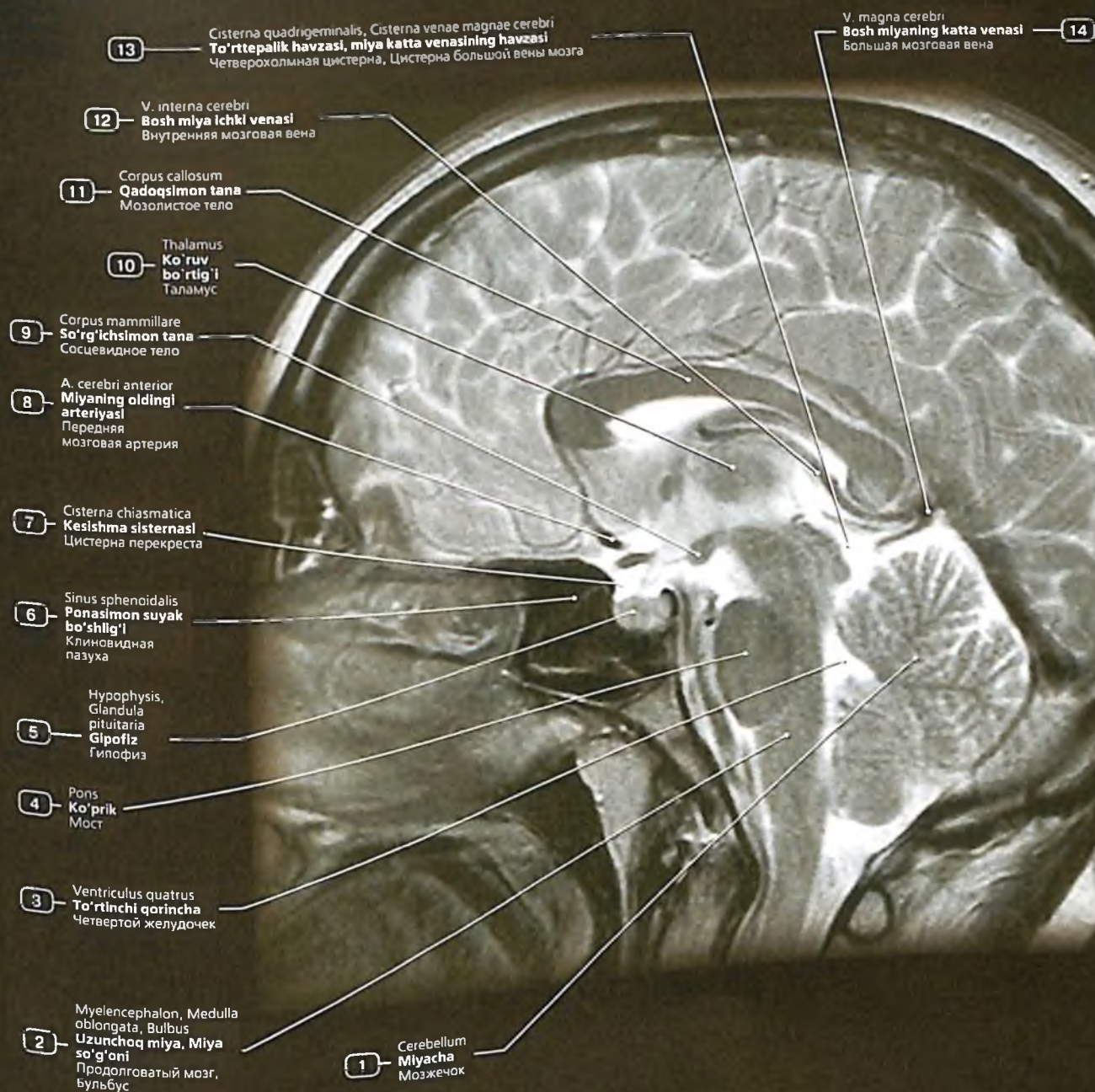
Рисунок № 270. Топография гипоталамуса и гипофиза, вид снизу.

- | | | | |
|----------------------------------|-------------------|---------------------------|---------------------------|
| 1 Pons | 5 Optic tract | 9 Internal carotid artery | 13 Pituitary gland |
| 2 Labyrinthine artery | 6 Tuber cinereum | 10 Optic nerve (II) | 14 Oculomotor nerve (III) |
| 3 Posterior cerebral artery | 7 Olfactory tract | 11 Middle cerebral artery | 15 Basilar artery |
| 4 Posterior communicating artery | 8 Optic chiasma | 12 Infundibulum | |



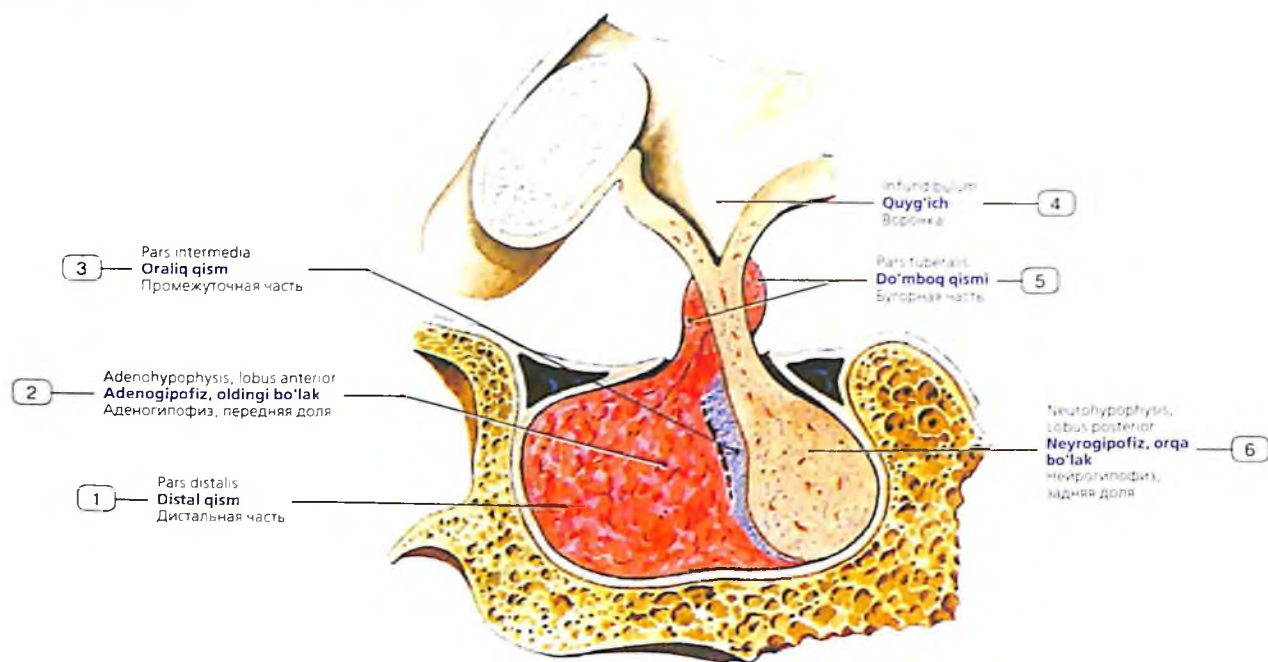
Rasm № 271. Gipotalamus o'zxlari.
Рисунок № 271. Ядра гипоталамуса.

- | | | | |
|--|--|--|--|
| 1. Inferior hypophysial artery (internal carotid artery, cavernous part) | 10. Anterior hypothalamic nucleus | 21. Thalamus, Dorsal thalamus | 31. Posterior nucleus of hypothalamus |
| 2. Hypothalamospinal tract | 11. Preoptic nucleus | 22. Lateral hypothalamic area | 32. Red nucleus |
| 3. Superior hypophysial artery (internal carotid artery, cerebral part) | 12. Lateral hypothalamic area | 23. Interthalamic adhesion, Massa intermedia | 33. Posterior perforated substance |
| 4. Adenohypophysis | 13. Lamina terminalis | 24. Choroid membrane | 34. Nuclei of mammillary body |
| 5. Ventral part of hypophysis | 14. Anterior commissure | 25. Choroid plexus | 35. Ventromedial nucleus of hypothalamus |
| 6. Optic chiasm | 15. Column of fornix | 26. Stria medullaris of thalamus | 36. Lateral tuberal nuclei and arcuate nucleus |
| 7. Optic tract | 16. Corpus callosum, rostrum | 27. Mammillothalamic fasciculus | 37. Paraventriculohypophysial tract |
| 8. Optic tract | 17. Paraventricular nuclei of thalamus | 28. Hypothalamic sulcus | 38. Supra-opticohypophysial tract |
| 9. Optic tract | 18. Interventricular foramen | 29. Mammilotegmental fasciculus | 39. Supra-optic nucleus |
| | 19. Fornix, body | 30. Tegmental nuclei | 40. Neurohypophysis |



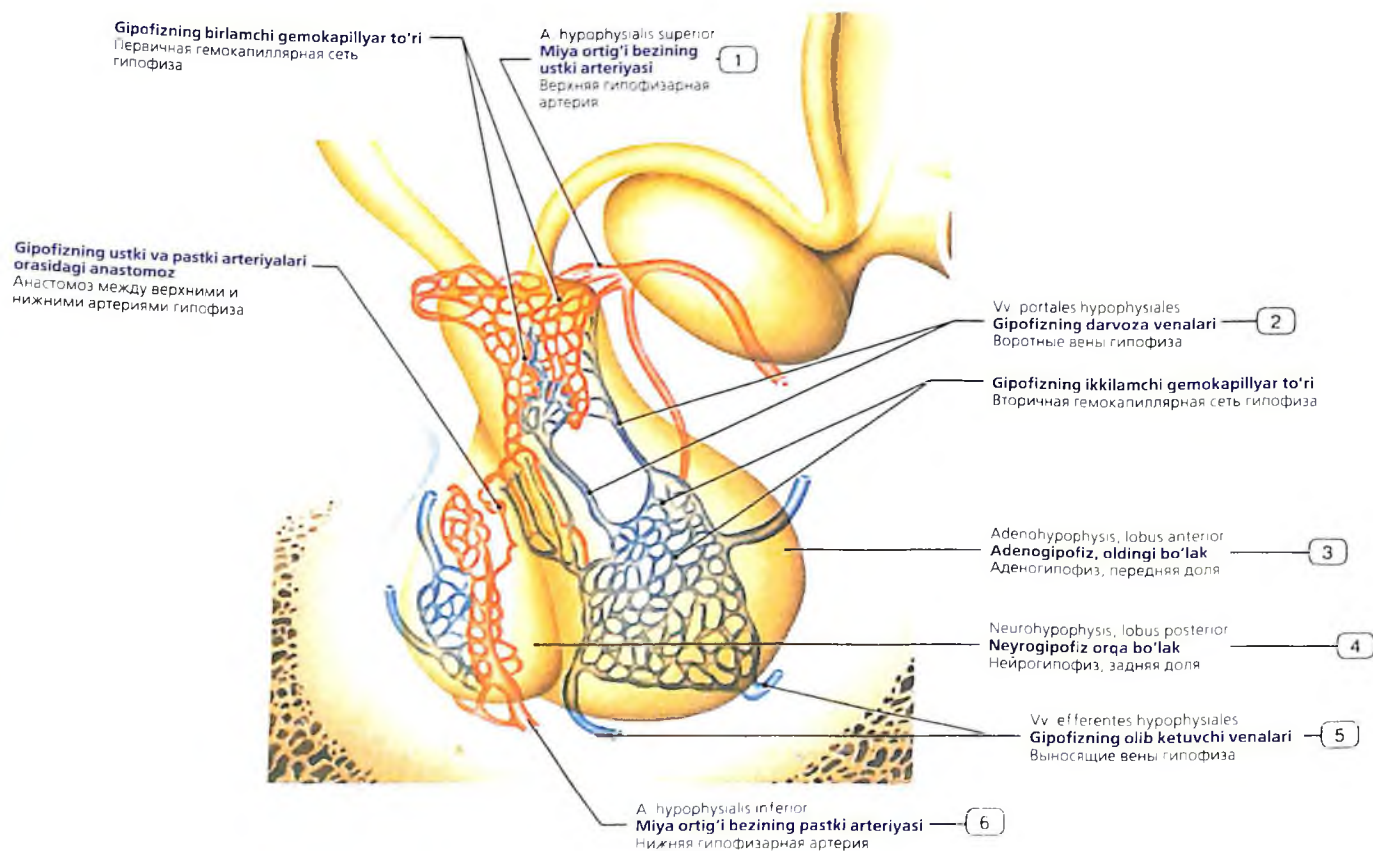
Rasm № 272. Bosh miya magnit-rezonans tomogrammasida gipofiz E2-Asoslangan tasvir. Saggital kesma.
Рисунок № 272. Гипофиз на магнитно-резонансной томограмме головного мозга E2-взвешенное изображение. Сагиттальное сечение.

- | | | |
|---|----------------------------|------------------------------|
| 1 Cerebellum | 5 Pituitary gland | 10 Thalamus; Dorsal thalamus |
| 2 Myelencephalon, Medulla oblongata, Bulb | 6 Sphenoidal sinus | 11 Corpus callosum |
| 3 Fourth ventricle | 7 Chiasmatic cistern | 12 Internal cerebral vein |
| 4 Pons | 8 Anterior cerebral artery | 13 Quadrigeminal cistern |
| | 9 Mammillary body | 14 Great cerebral vein |



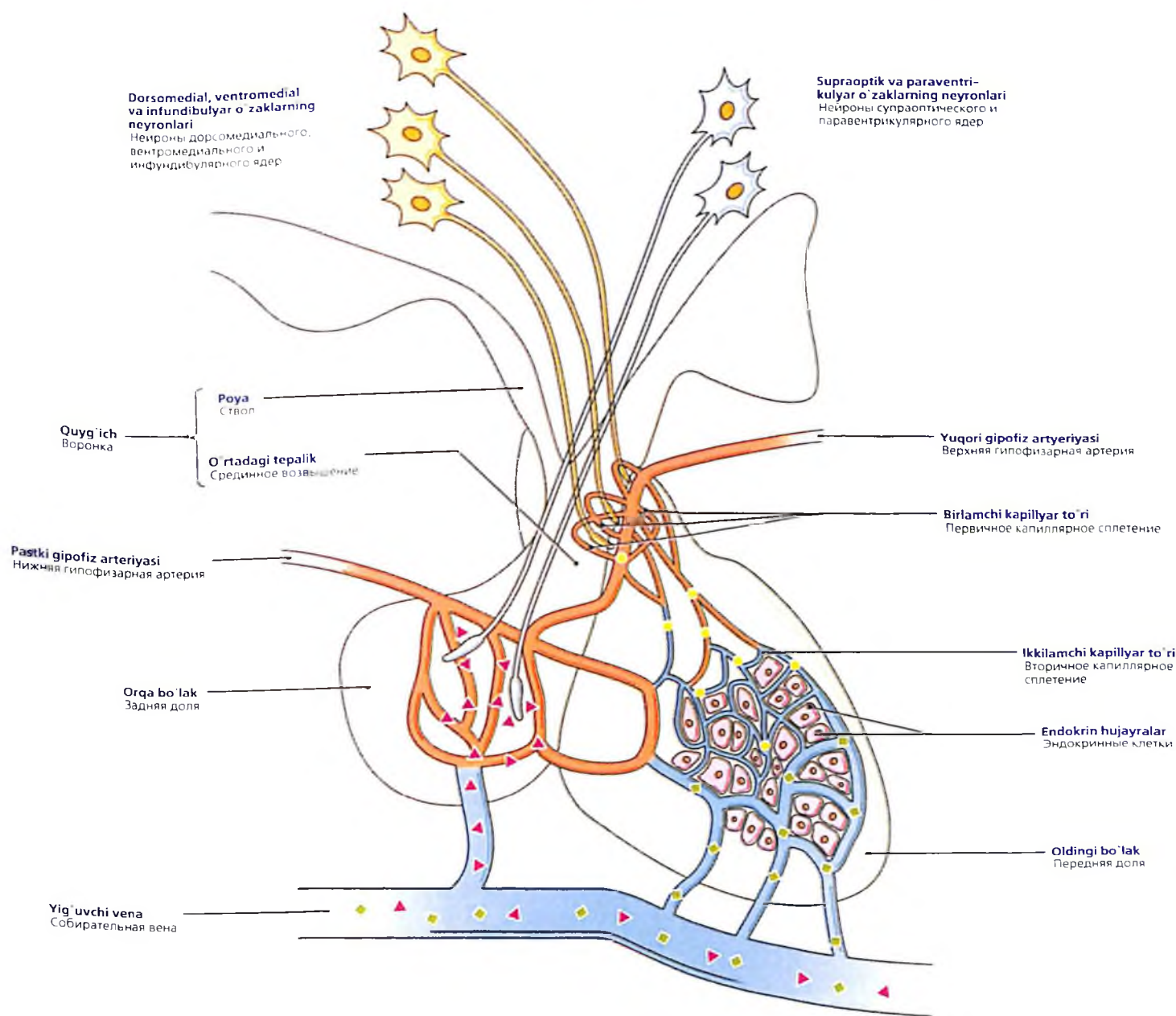
Rasm № 273. Odam gipofizi (sagittal kesma).
Рисунок № 273. Гипофиз человека (сагиттальный разрез).

- | | | |
|----------------------------------|-------------------|-----------------------------------|
| 1 Distal part | 3 Pars intermedia | 5 Pars tuberalis |
| 2 Adenohypophysis, anterior lobe | 4 Infundibulum | 6 Neurohypophysis, posterior lobe |



Rasm № 274. Gipofizning qon b ilan ta'minlanishi (chizma).
Рисунок № 274. Кровоснабжение гипофиза (схема).

- | | | |
|-------------------------------|-----------------------------------|--------------------------------|
| 1 Superior hypophyseal artery | 3 Adenohypophysis, anterior lobe | 5 Efferent veins of hypophysis |
| 2 Portal veins of hypophysis | 4 Neurohypophysis, posterior lobe | 6 Inferior hypophyseal artery |

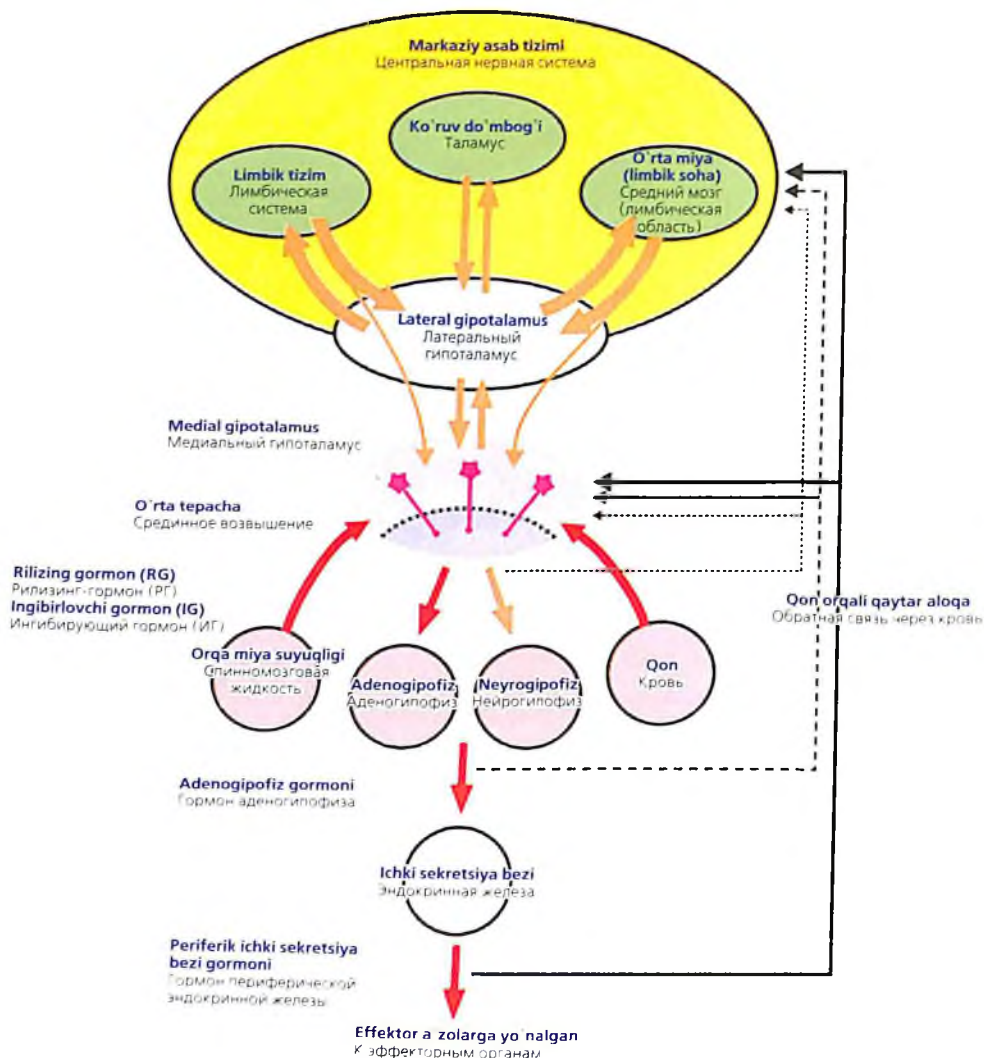


- ▲ Gipotalamusda ishlab chiqariladigan va gipofizning orqa bo'lagidan ajraladigan gormonlar
Гормоны, вырабатываемые в гипоталамусе и выделяемые из задней доли гипофиза
- Gipotalamusda ishlab chiqariladigan rilizing gormonlar
Рилизинг- или (ингибирующие) гормоны, вырабатываемые в гипоталамусе
- Gipofizning oldingi bo'lagida ishlab chiqariladigan gormonlar
Гормоны, вырабатываемые в передней доле гипофиза

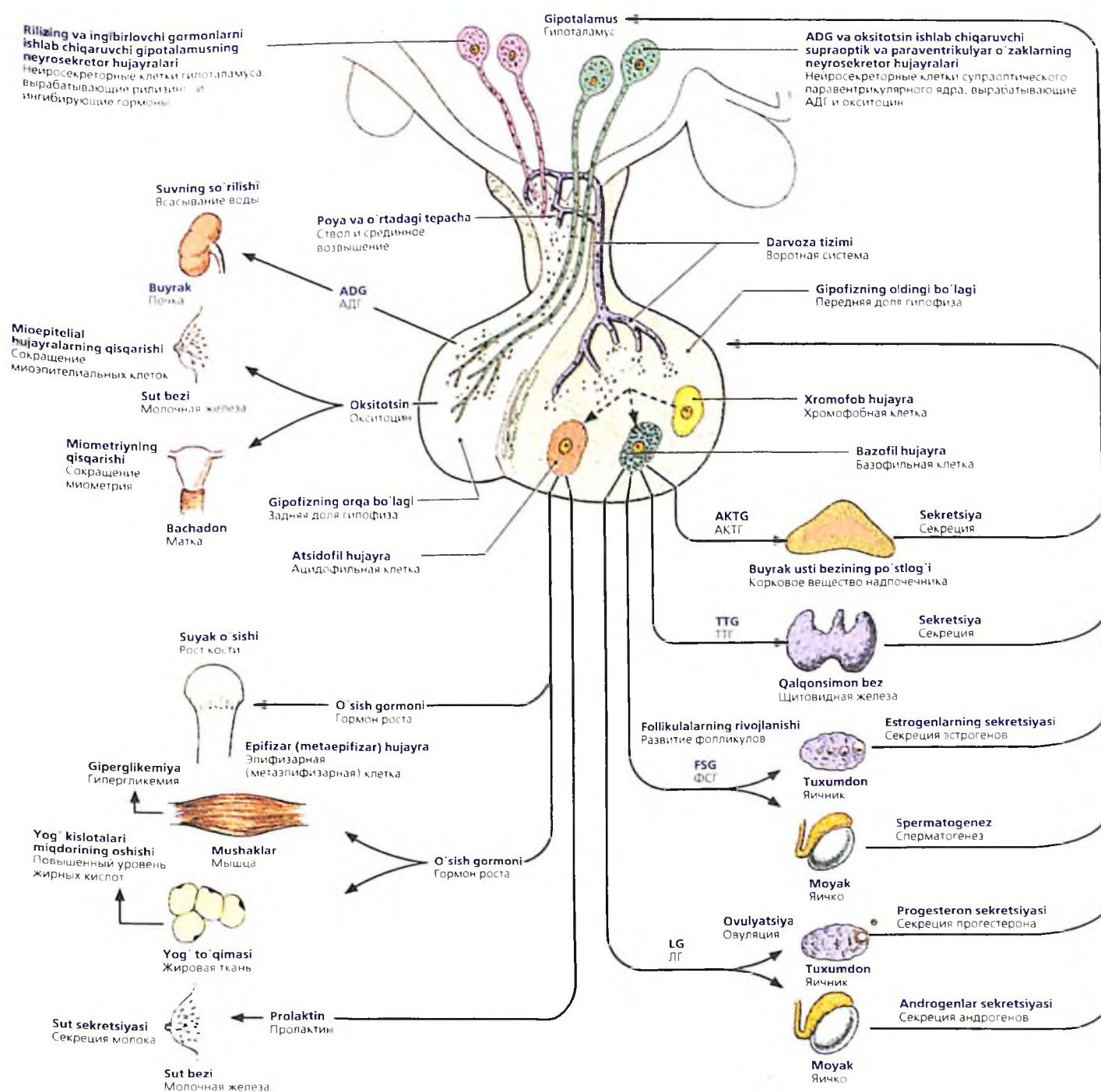
Rasm № 275. Gipotalamo-gipofizar tizim (chizma). Gipotalamo-gipofizar tizimning qon-tomir to'ri, shuningdek, gormonlarning ishlab chiqarilish, to'planish va ajralish sohalari ko'rsatilgan (L.K. Junkeyro, J. Karneyro bo'yicha).
Рисунок № 275. Гипоталамо-гипофизарная система (схема). Показана сосудистая сеть гипоталамо-гипофизарной системы, а также участки выработки, накопления и выделения гормонов (по Л.К. Жункейра, Ж. Карнейро).

23 — jadval. Gipotalamusning gipofizotrop gormonlari

Qisqartirilgan nomi	Nomlanishi	Ta'sir yo'nalishi
RILIZING - GORMONLAR		
TRG	Tireotrop gormonning rilizing gormoni yoki tireotropin-rilizing gormoni	TTG (tireotrop gormon)
LG-RG yoki GTRG	Lyuteinlovchi gormonning rilizing gormoni yoki gonadotropin rilizing gormoni	PRL (prolaktin)
KRG (KRF)	Kortikotropin rilizing gormoni (kortikoliberin)	LG va FSG (lyuteotrop va follikulstimullovchi gormonlar)
O'G-RG	O'sish gormonning rilizing gormoni (somatoliberin)	AKTG (adrenokortikotrop gormoni)
PRL-RG (PRF)	Prolaktinning rilizing gormoni	O'G (o'sish gormoni)
MSG-RG (MRF)	Melonotsitstimullovchi gormonning rilizing gormoni (melanoliberin)	PRL (prolaktin)
		MSG (melonotsitstimullovchi gormon)
INGIBIRLOVCHI GORMONLAR		
O'G-IG	O'sish gormonini ingibirlovchi gormon (somatostatin)	O'G (o'sish gormoni)
MSG-IG (MIF)	Melonotsitstimullovchi gormonni ingibirlovchi gormon (melanostatin)	MSG (melonotsitstimullovchi gormon)
PRL-IG (PIF)	Prolaktinni ingibirlovchi gormon	PRL (prolaktin)
Dofamin	Biogen amin	PRL, LG, FSG, TTG (prolaktin, lyuteotrop, follikulstimullovchi gormon, tireotrop gormon)

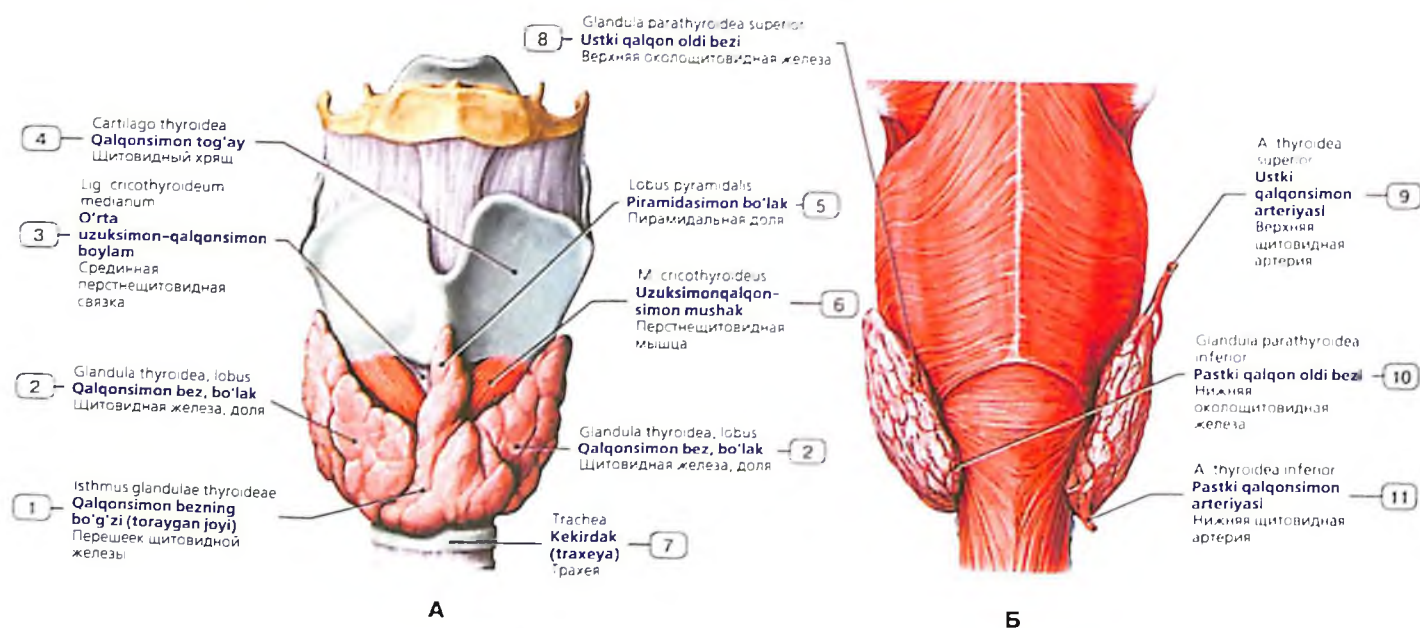


Rasm № 276. Gipotalamo-gipofizar tizimning o'zaro munosabati (chizma).
Рисунок № 276. Гипоталамо-гипофизарные отношения (схема).



Rasm № 277. Turli gipofizar gormonlarning nishon a'zolarga ta'siri, va ularning sekretsiyasini nazorat qiluvchi qaytar aloqa mexanizmlari: ADG — antidiuretik gormon; LG — lyuteinlovchi gormon; FSG — follikulstimullovchi gormon; TTG — tireotrop gormoni; AKTG — adrenokortikotrop gormoni (L.K. Junkeyro, J. Karneyro bo'yicha).

Рисунок № 277. Влияние различных гипофизарных гормонов на органы-мишени и механизмы обратной связи, регулирующие их секрецию: АДГ — антидиуретический гормон; ЛГ — лютеинизирующий гормон; ФСГ — фолликулостимулирующий гормон; ТТГ — тиреотропный гормон; АКТГ — адренокортикотропный гормон (по Л.К. Жункейра, Ж. Карнейро).



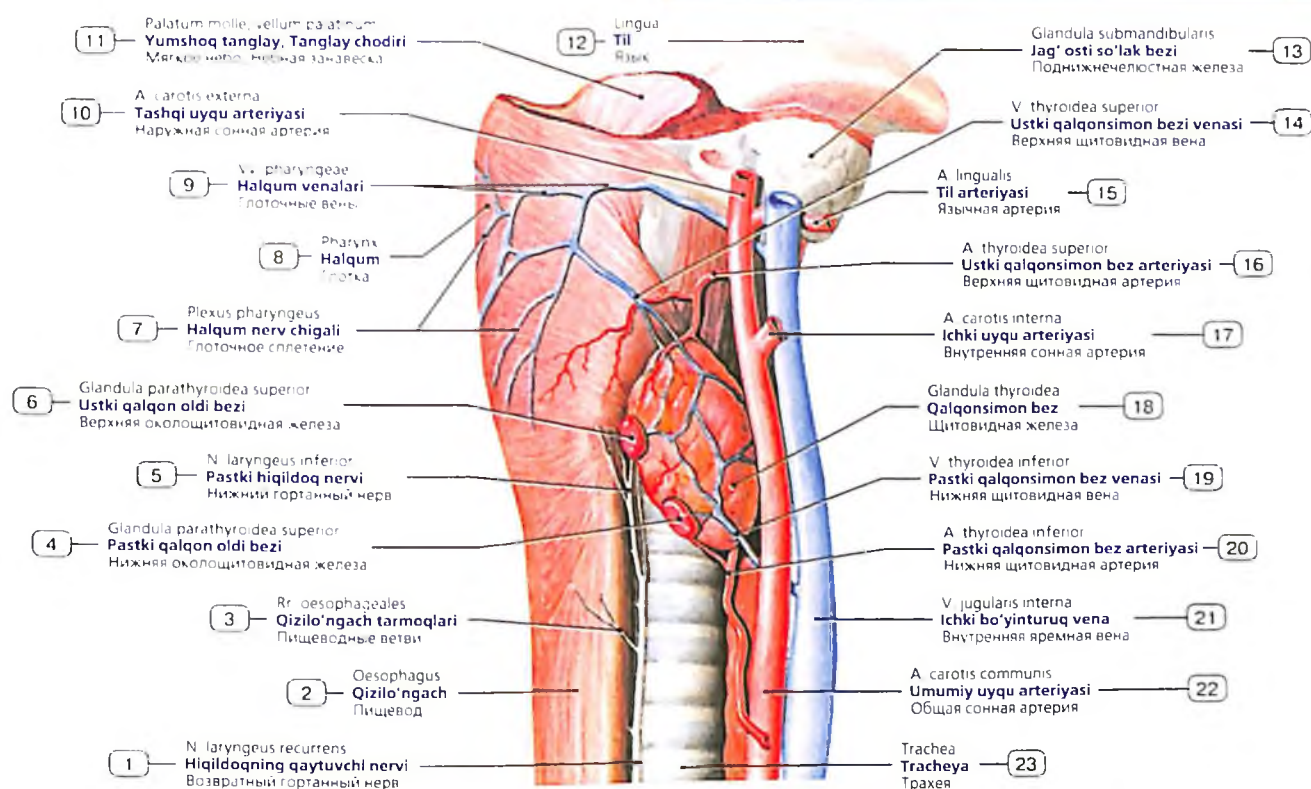
Rasm № 278. Qalqonsimon bez (A — oldindan ko'rinishi; Б — orqadan ko'rinishi).
Рисунок № 278. Щитовидная железа (А — вид спереди; Б — вид сзади).

- | | | | |
|--------------------------------|---------------------|------------------------------|-------------------------------|
| 1 Isthmus | 4 Thyroid cartilage | 7 Trachea | 10 Inferior parathyroid gland |
| 2 Thyroid gland, lobe | 5 Pyramidal lobe | 8 Superior parathyroid gland | 11 Inferior thyroid artery |
| 3 Median cricothyroid ligament | 6 Cricothyroid | 9 Superior thyroid artery | |



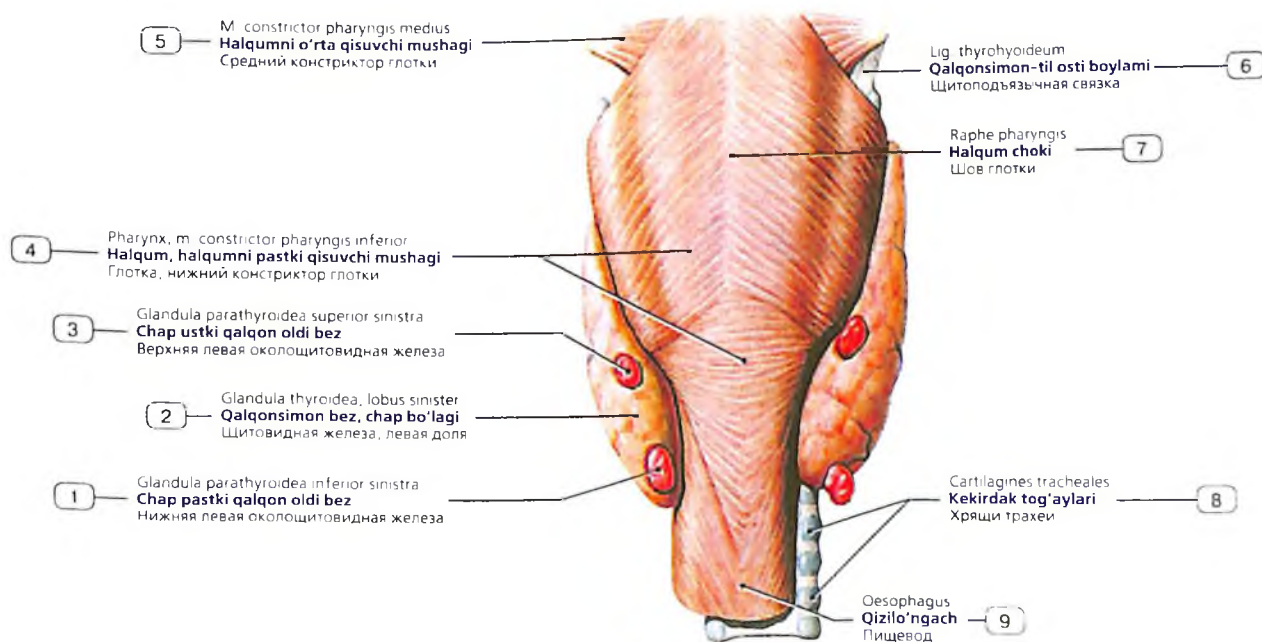
Rasm № 279. Qalqonsimon bez follikulalari (chizma).
Рисунок № 279. Фолликулы щитовидной железы (схема).

- | | |
|------------|-------------------|
| 1 Artery | 3 Blood capillary |
| 2 Follicle | 4 Glandular cells |



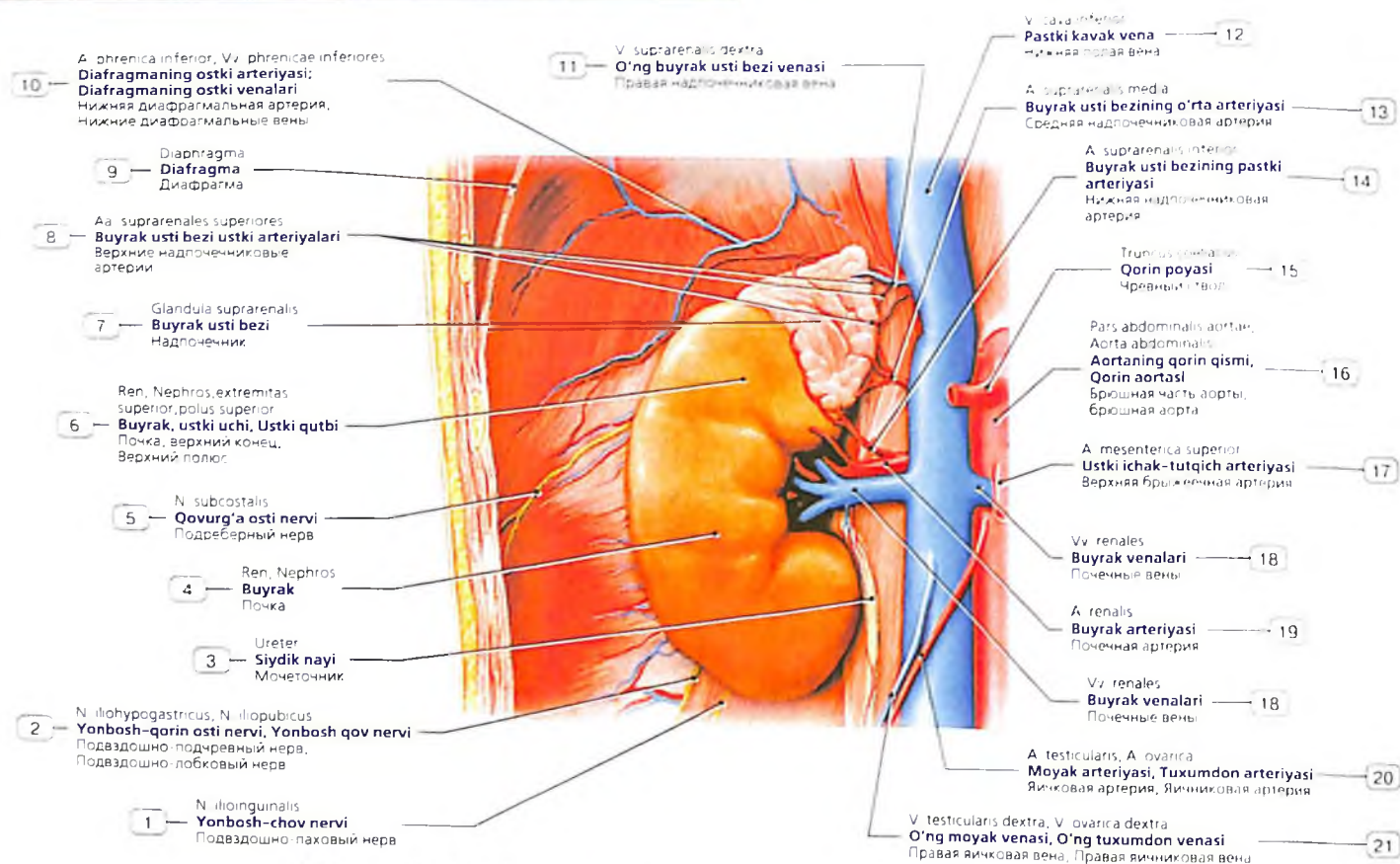
Rasm № 280. Qalqon oldi bezlar, qalqonsimon bez qon tomirlari, o'ng tomondan ko'rinishi.
Рисунок № 280. Паращитовидные железы, кровеносные сосуды щитовидной железы, вид справа.

- | | | | | |
|------------------------------|------------------------------|--------------------------|----------------------------|--------------------------|
| 1 Recurrent laryngeal nerve | 6 Superior parathyroid gland | 11 Soft palate | 16 Superior thyroidartery | 21 Internal jugular vein |
| 2 Oesophagus | 7 Pharyngeal plexus | 12 Tongue | 17 Internal carotid artery | 22 Common carotid artery |
| 3 Oesophageal branches | 8 Pharynx | 13 Submandibular gland | 18 Thyroid gland | 23 Trachea |
| 4 Inferior parathyroid gland | 9 Pharyngeal veins | 14 Superior thyroid vein | 19 Inferior thyroid vein | |
| 5 Inferior laryngeal nerve | 10 External carotid artery | 15 Lingual artery | 20 Inferior thyroid artery | |



Rasm № 281. Qalqon oldi bezlari, orqadan ko'rinishi.
Рисунок № 281. Паращитовидные железы, вид сзади.

- | | | | | |
|-----------------------------------|-----------------------------------|-----------------------|-----------------------|--------------|
| 1 Left inferior parathyroid gland | 3 Superior left parathyroid gland | 5 Middle constrictor | 7 Pharyngeal raphe | 9 Oesophagus |
| 2 Thyroid gland, left lobe | 4 Pharynx, inferior constrictor | 6 Thyrohyoid ligament | 8 Tracheal cartilages | |

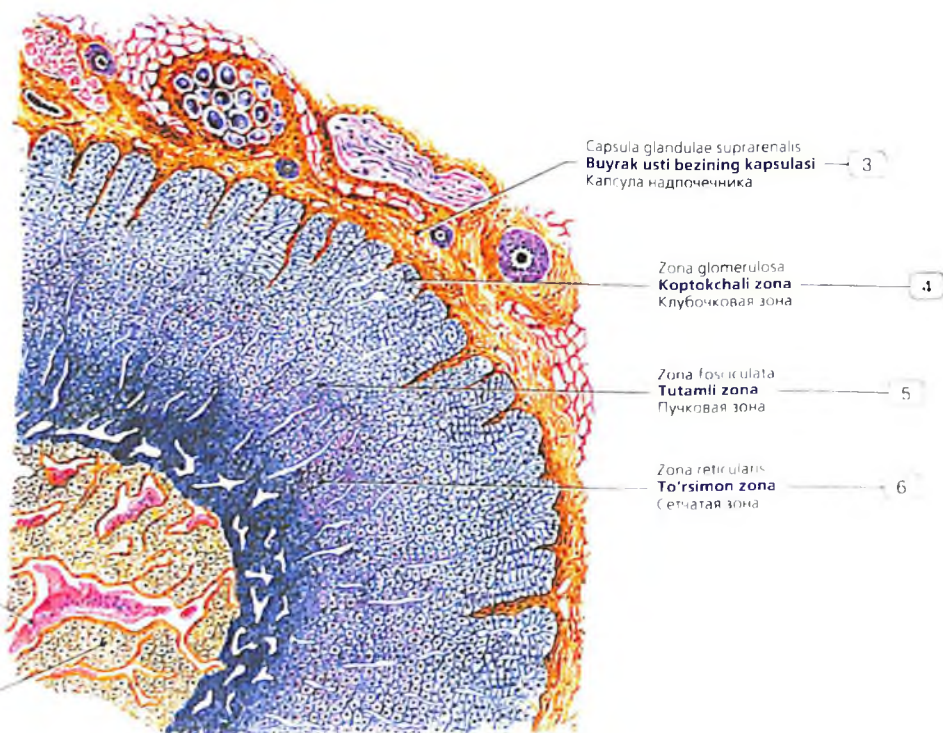


Rasm № 282. Buyrak usti bezlari (Buyrak usti bezi holati), oldindan ko'rinishi.
Рисунок № 282. Надпочечник (положение надпочечника), вид спереди.

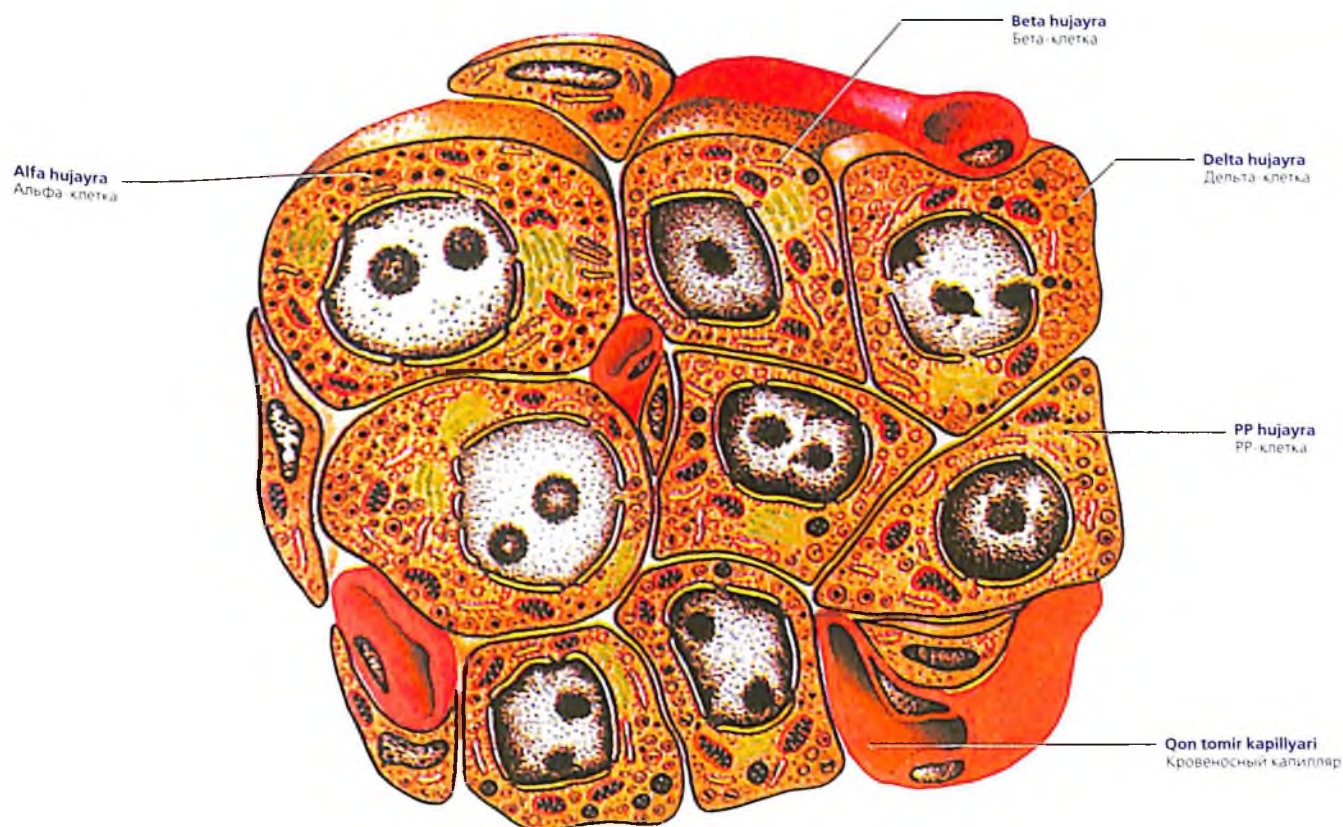
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|------------------------------------|--------------------------------|-------------------------------|-------------------------------|---------------------------|
| 1 Ilio-inguinal nerve | 6 Kidney, superior pole, | 10 Inferior phrenic artery | 15 Coeliac trunk | 20 Testicular artery, |
| 2 Iliohypogastric nerve, Iliopubic | Superior extremity | 11 Right suprarenal vein | 16 Abdominal aorta | Ovarian artery |
| 3 Ureter | 7 Suprarenal gland, | 12 Inferior vena cava | 17 Superior mesenteric artery | 21 Right testicular vein, |
| 4 Kidney | Adrenal gland | 13 Middle suprarenal artery | 18 Renal veins | Right ovarian vein |
| 5 Subcostal nerve | 8 Superior suprarenal arteries | 14 Inferior suprarenal artery | 19 Renal artery | |
| | 9 Diaphragm | | | |

Rasm № 283. Buyrak usti bezining mikroskopik tuzilishi, gistologik preparat, kichik kattalashtirish.
Рисунок № 283. Микроскопическое строение надпочечника, гистологический препарат, малое увеличение.

- Suprarenal gland, Adrenal gland, Medulla
- Sinusoid
- Capsula of suprarenal gland, Adrenal gland capsule
- Glomerular zone
- Fascicular zone
- Reticular zone



- Suprarenal gland, Adrenal gland, Medulla
- Sinusoid
- Capsula of suprarenal gland, Adrenal gland capsule
- Glomerular zone
- Fascicular zone
- Reticular zone

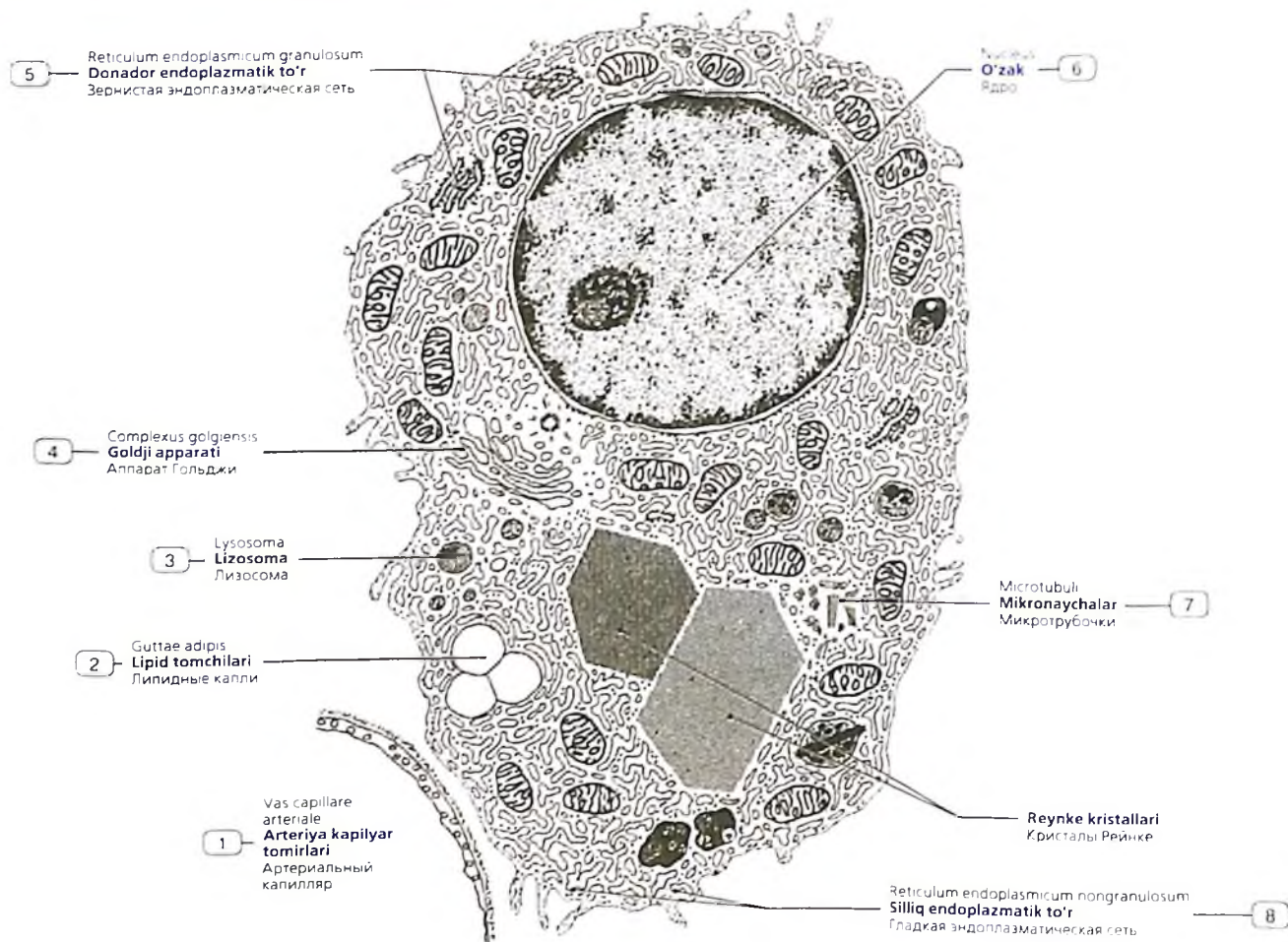


Rasm № 284. Oshqozon osti bezi orolchasining tuzilishi (chizma) (V.G. Eliseev va boshq. bo'yicha).
Рисунок № 284. Строение панкреатического островка (схема) (по В.Г. Елисееву и др.).

24 — jadval. Oshqozon-ichak tizimi enteroendokrin hujayralarning asosiy tiplari

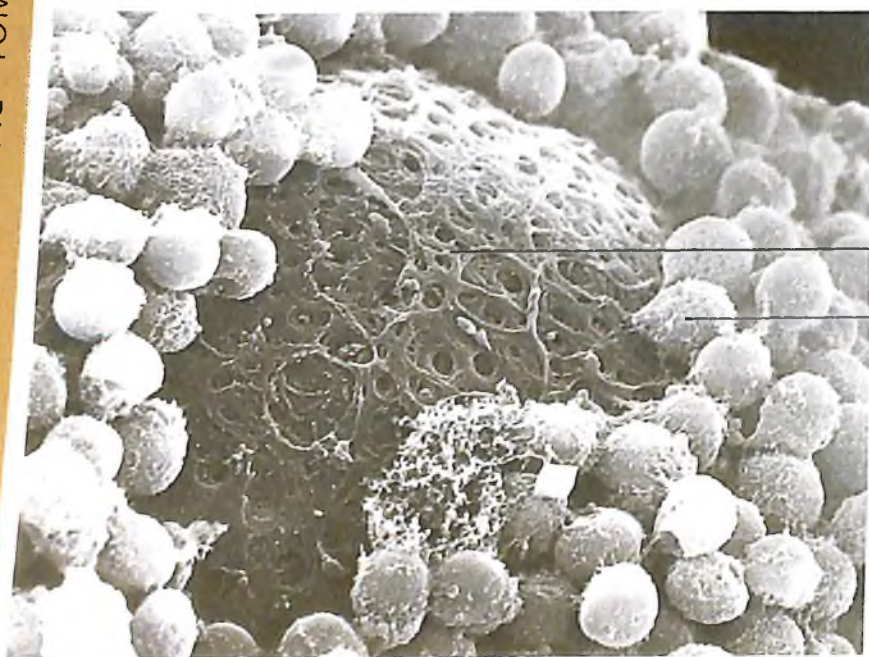
Hujayra turi va uning qayerda joylashganligi	Ishlab chiqaradigan gormon	Asosiy ta'siri
G-oshqozon pilorik qismi	Gastrin	Oshqozon kislotasi ishlab chiqarishni kuchaytiradi
S-ingichka ichak	Sekretin	Oshqozon osti bezi shirasi va o't suyuqligi bilan birga bikorbanatlar, suv sekretsiasini kuchaytiradi
K-ingichka ichak	Oshqozonni ingibirlovchi polipeptid	Oshqozon kislotasi sekretsiasini kamaytiradi Insulin ishlab chiqarilishini kuchaytiradi
L-ingichka ichak	Glyukagonga o'xshagan peptid 1 (GLP-1)	Oshqozon kislotasi sekretsiasini pasaytirish, insulin ajralishini kuchaytirish
I-ingichka ichak	Xoletsistokinin	Oshqozon osti bezi fermentlarining sekretsiasini kuchaytiradi, o't pufagini qisqartiradi
D-ichak	Somatostatın	Endokrin, ekzokrin faktorlar va neyromediatorlar sekretsiasini kamaytiradi
Mo-ingichka ichak	Motilin	Ichak harakatini kuchaytiradi
EC-oshqozon ichak tizimi	Serotonin, P moddasi	Ichak harakatini kuchaytiradi
D1-oshqozon ichak tizimi	Vazoaktiv intestinal polipeptid	Suv va ionlar sekretsiasini, ichak qisqarishini oshiradi

Izoh: oshqozon-ichak nayi va oshqozon osti bezi shilliq qavatida enteroendokrin hujayralar joylashgan bo'lib, ular oshqozon-ichak nayi faoliyatiga ta'sir qiluvchi gormon, peptidlar ishlab chiqaradi



Rasm № 285. Tuxumdon interstitsial endokrin hujayrasi (Leydig hujayrasi), chizma.
Рисунок № 285. Интерстициальная эндокринная клетка яичка (клетка Лейдига), схема.

- | | | | |
|----------------------|----------------------|----------------------------------|-------------------------------------|
| 1 Arterial capillary | 3 Lysosomes | 5 Granular endoplasmic reticulum | 7 Microtubules |
| 2 Lipid droplets | 4 Complex golgiensis | 6 Nucleus | 8 Nongranular endoplasmic reticulum |

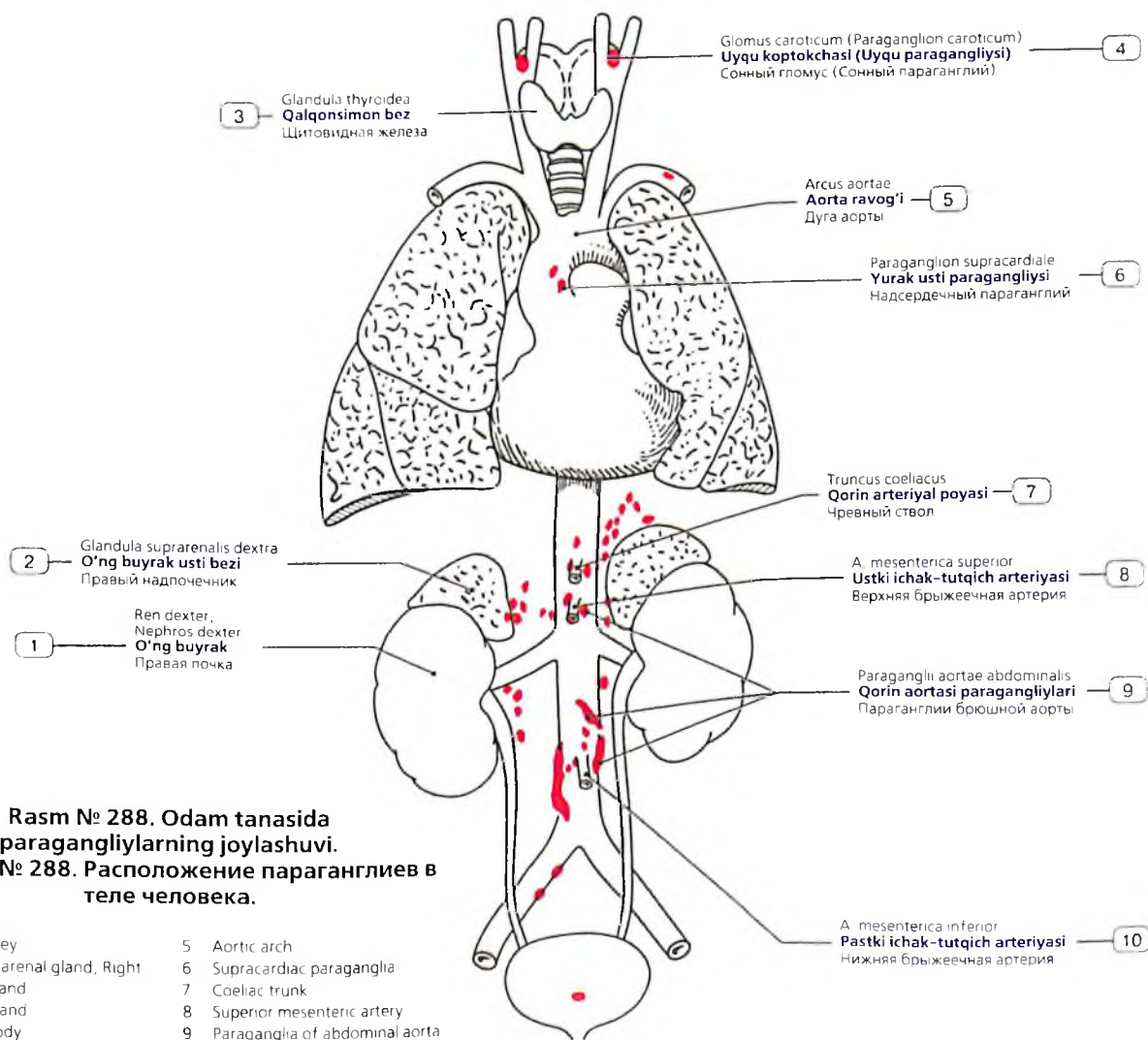
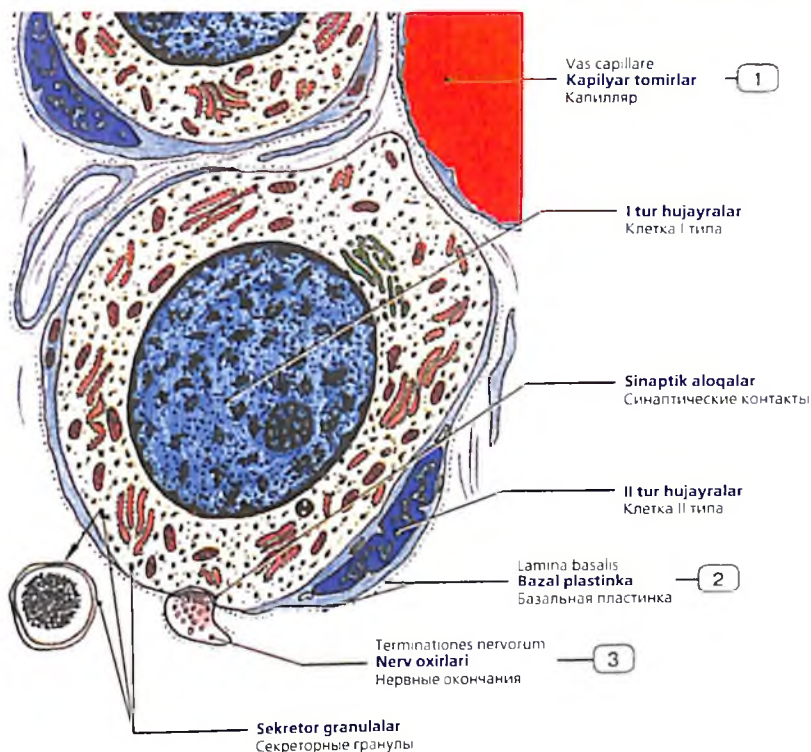


- Ovotsit / Овоцит
- Follikulyar hujayralar / Фолликулярные клетки

Rasm № 286. Follikulyar hujayralar bilan o'ralgan ovotsit (L.K. Junkeyro, J. Karneyro bo'yicha).
Рисунок № 286. Овоцит, окруженный фолликулярными клетками (по Л.К. Жункейра, Ж. Карнейро).

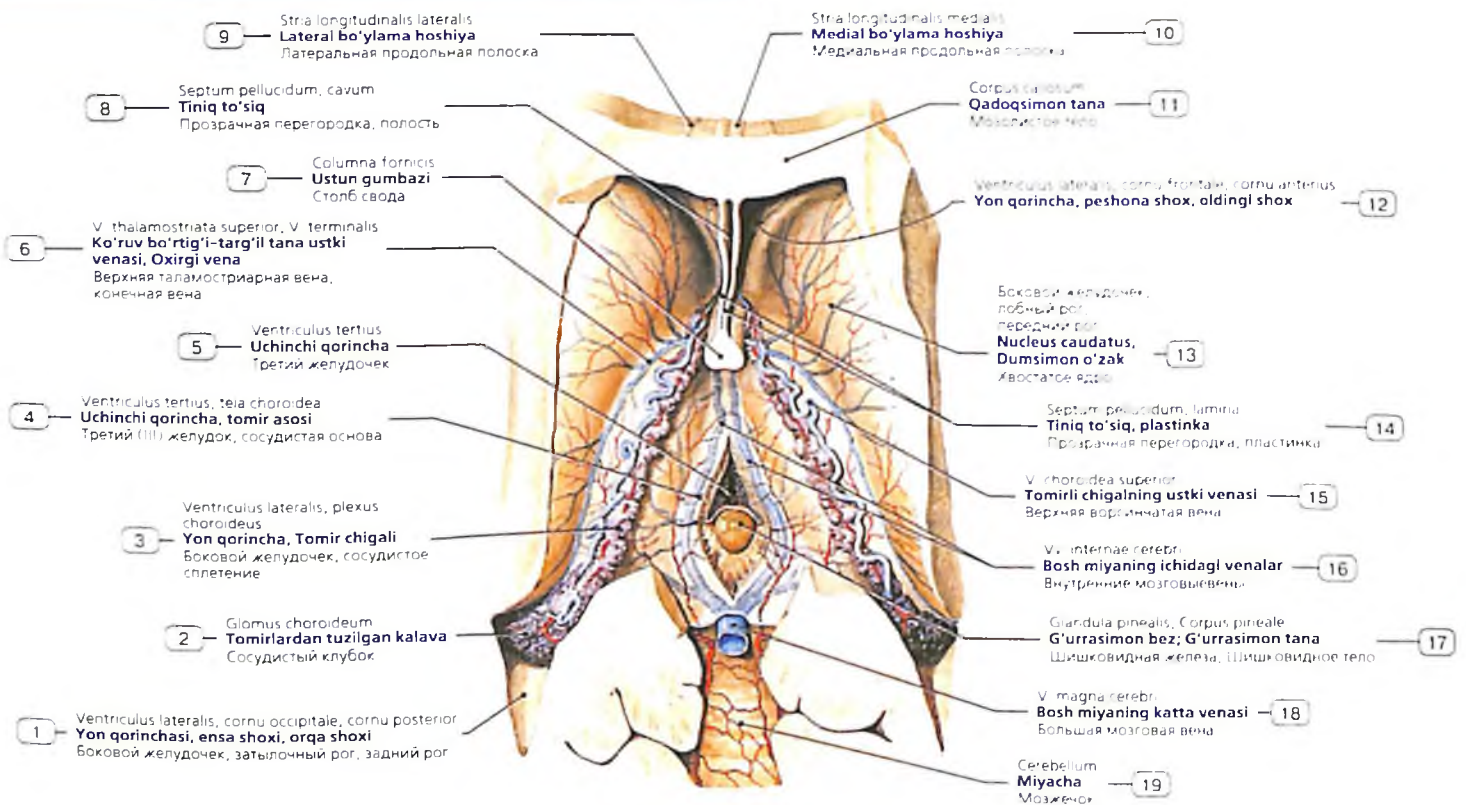
Rasm № 287. Parasimpatik paragangliy.
Рисунок № 287.
Параганглий парасимпатический.

- 1 Capillary
- 2 Basal lamina
- 3 Nerve terminals



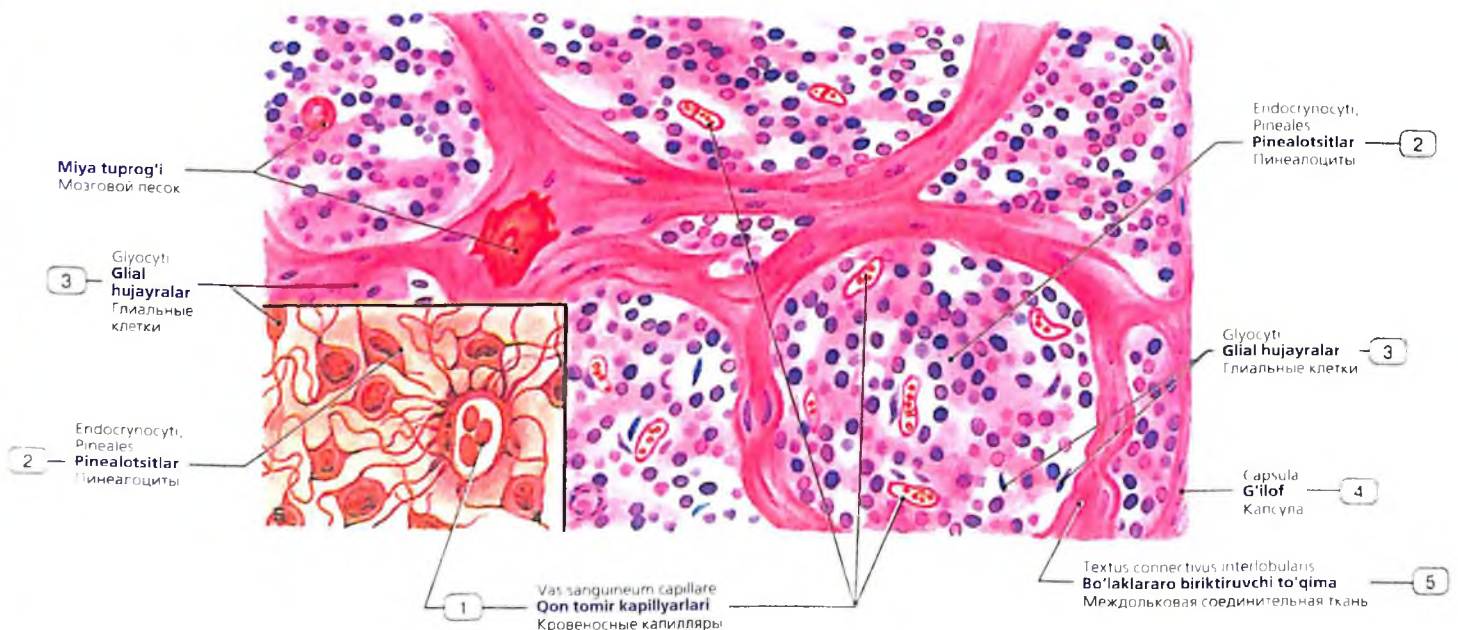
Rasm № 288. Odam tanasida
paragangliylarning joylashuvi.
Рисунок № 288. Расположение параганглиев в
теле человека.

- 1 Right kidney
- 2 Right suprarenal gland, Right adrenal gland
- 3 Thyroid gland
- 4 Carotid body
- 5 Aortic arch
- 6 Supracardiac paraganglia
- 7 Coeliac trunk
- 8 Superior mesenteric artery
- 9 Paraganglia of abdominal aorta



Rasm № 289. Bosh miyada g'urrasimon bezning holati.
Рисунок № 289. Положение эпифиза в головном мозге.

- | | | | | |
|---|-------------------------------------|------------------------------|---|------------------------------|
| 1 Lateral ventricle, occipital horn, posterior horn | 4 Third ventricle, Choroid membrane | 8 Septum pellucidum, cave | 12 Lateral ventricle, frontal horn, anterior horn | 16 Internal cerebral veins |
| 2 Choroidal enlargement | 5 Third ventricle | 9 Lateral longitudinal stria | 13 Caudate nucleus | 17 Pineal gland, Pineal body |
| 3 Lateral ventricle, choroid plexus | 6 Superior thalamostriate vein | 10 Medial longitudinal stria | 14 Septum pellucidum, lamina | 18 Great cerebral vein |
| | 7 Column of fornix | 11 Corpus callosum | 15 Superior choroid vein | 19 Cerebellum |



Rasm № 290. G'urrasimon bezning mikroskopik tuzilishi (G'urrasimon bez. G'urrasimon tana) gistologik preparat, kichik kattalashtirish.

Рисунок № 290. Микроскопическое строение эпифиза (шишковидная железа, шишковидное тело), гистологический препарат, малое увеличение.

- | | | | | |
|-------------------|----------------------------|-------------|-----------|----------------------------------|
| 1 Blood capillary | 2 Endocrinocytus, Pineales | 3 Glyocytus | 4 Capsule | 5 Interlobular connective tissue |
|-------------------|----------------------------|-------------|-----------|----------------------------------|



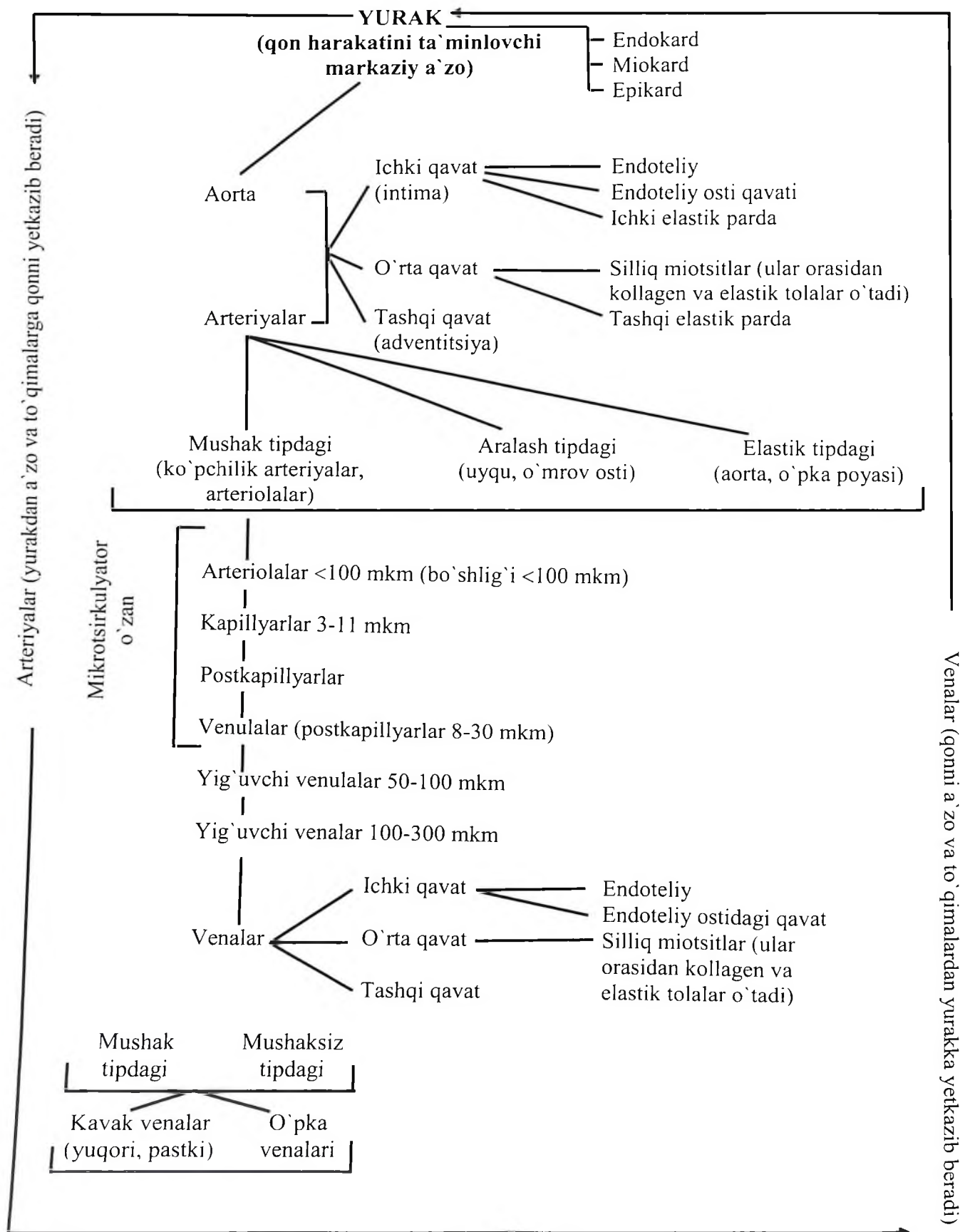
**CARDIOVASCULAR
SYSTEM**

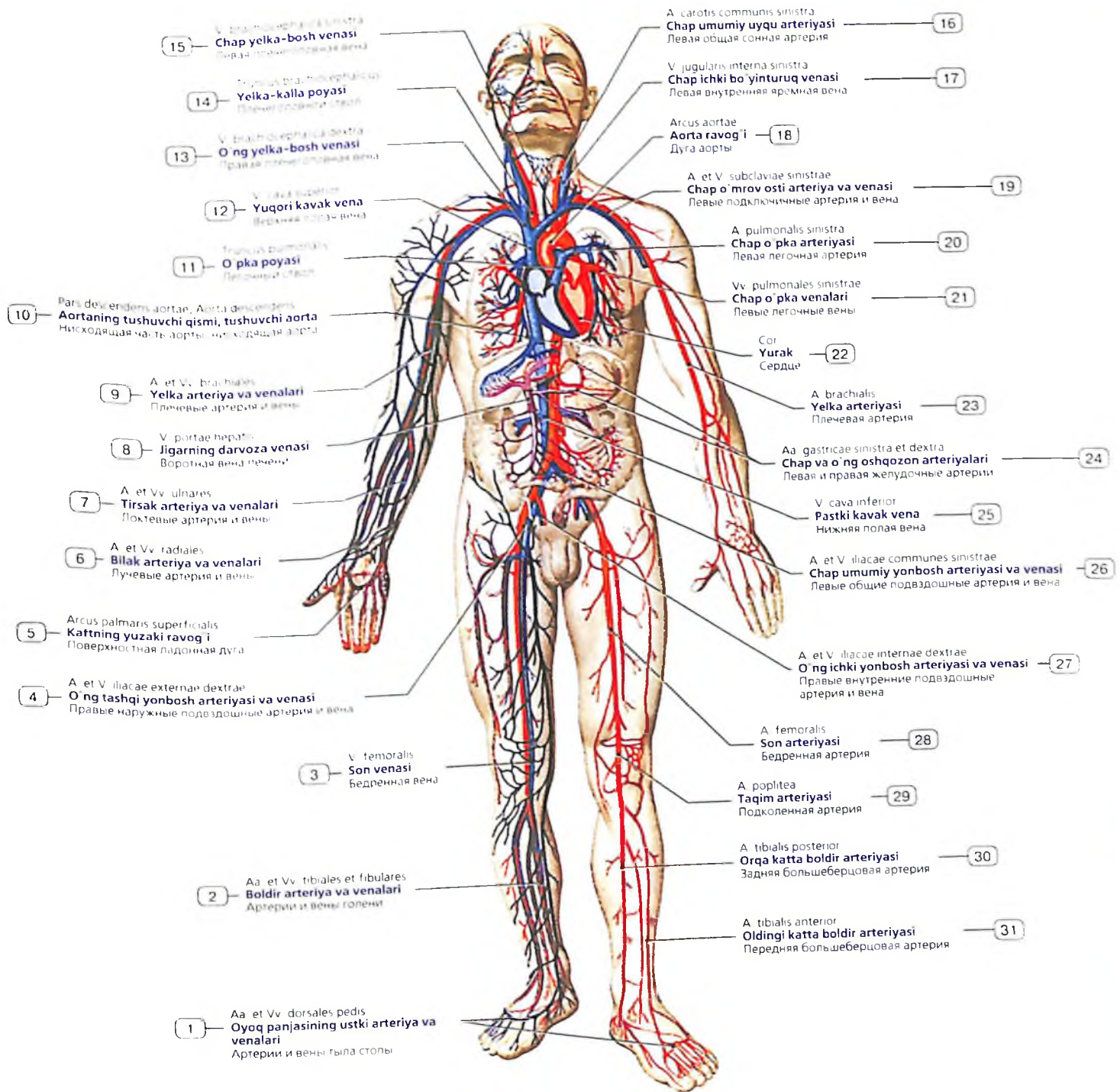
**YURAK QON-TOMIR
TIZIMI**

**СЕРДЕЧНО-
СОСУДИСТАЯ
СИСТЕМА**



Jadval №25. Yurak - qon tomir tizimi





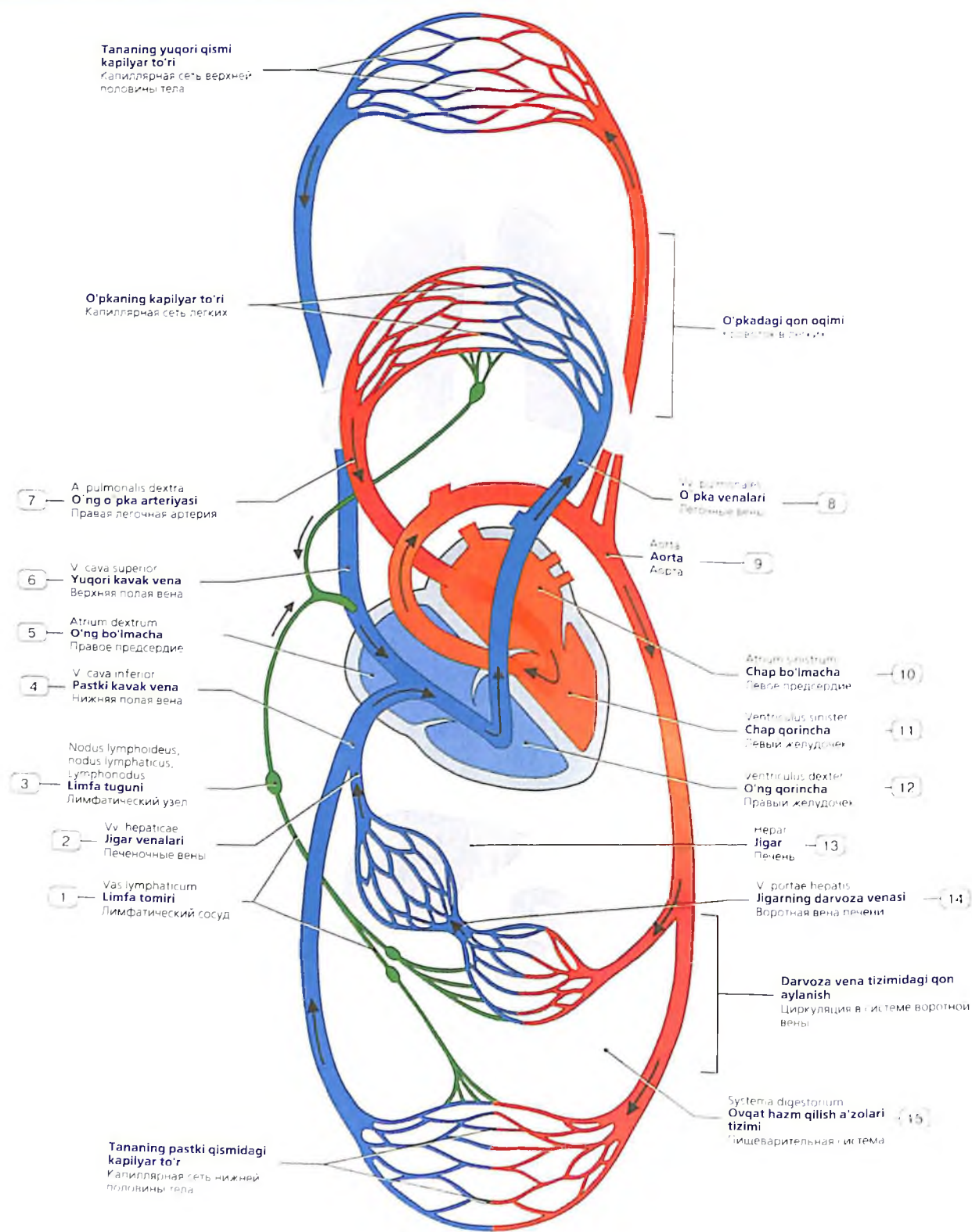
Rasm № 291. Yurak-qon tomir tizimi (chizma).
Рисунок № 291. Сердечно-сосудистая система (схема).

- 1 Dorsalis pedis arteries and veins
- 2 Tibial and fibular arteries and veins
- 3 Femoral vein
- 4 External iliac artery and vein
- 5 Superficial palmar artery
- 6 Radial artery and veins
- 7 Ulnar artery and veins
- 8 Hepatic portal vein
- 9 Brachial artery and veins
- 10 Descending aorta Pulmonary trunk
- 11 Pulmonary trunk

- 12 Superior vena cava
- 13 Right brachiocephalic vein
- 14 Brachiocephalic trunk
- 15 Left brachiocephalic vein
- 16 Left common carotid artery
- 17 Left internal jugular vein
- 18 Aortic arch
- 19 Subclavian artery and vein
- 20 Left pulmonary artery
- 21 Left pulmonary veins
- 22 Heart

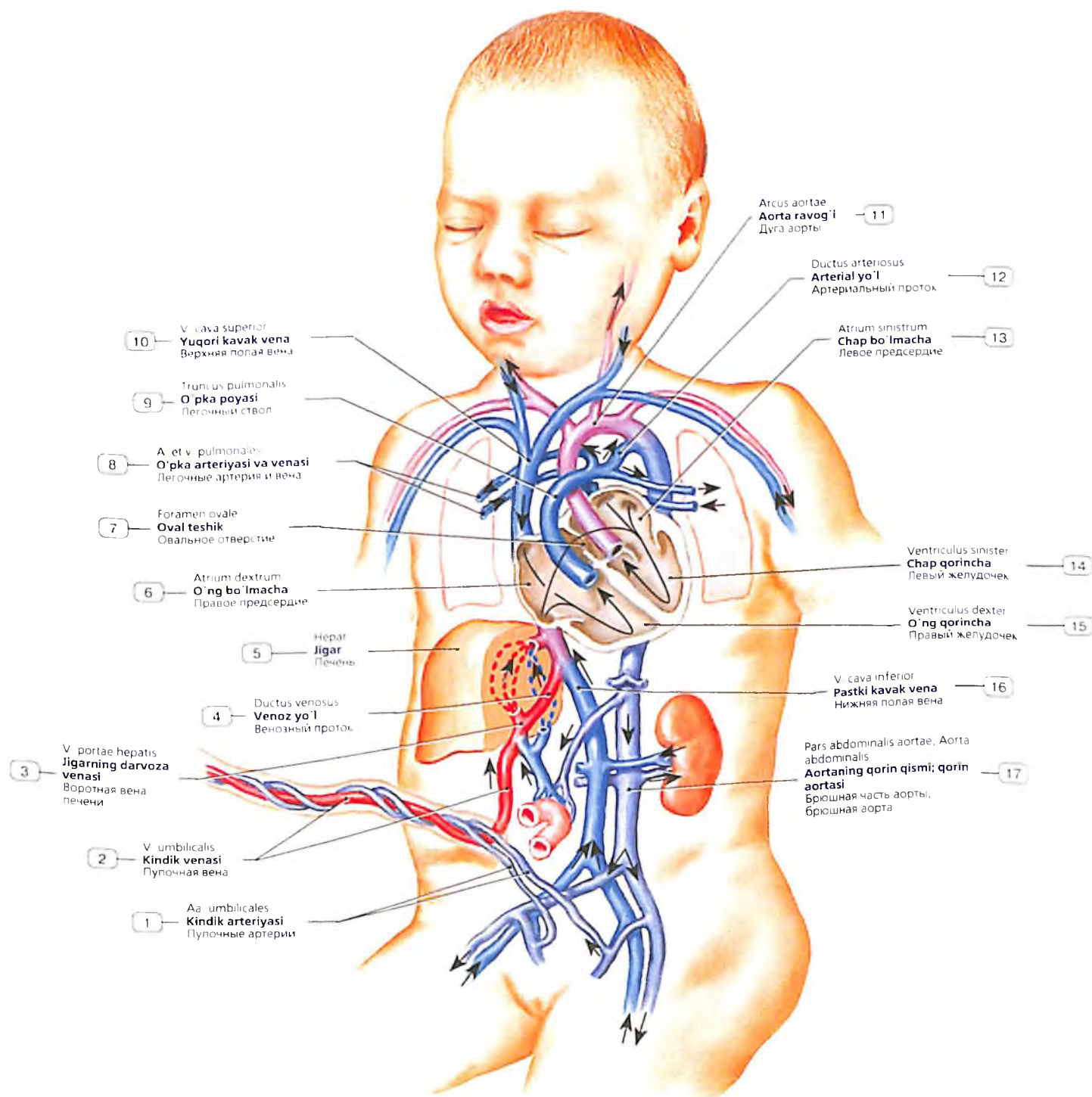
- 23 Brachial artery
- 24 Left and right gastric arteries
- 25 Inferior vena cava
- 26 Common iliac artery and vein
- 27 Internal iliac artery and vein
- 28 Femoral artery
- 29 Popliteal artery
- 30 Posterior tibial artery
- 31 Anterior tibial artery

СЕРДЕЧНО-СОСУДИСТАЯ СИСТЕМА



Rasm № 292. Katta va kichik qon aylanish doiralari (chizma).
Рисунок № 292. Большой и малый круги кровообращения (схема).

- | | | |
|-----------------------|---------------------------|-------------------------|
| 1. Lymphatic vessel | 7. Right pulmonary artery | 13. Liver |
| 2. Hepatic veins | 8. Pulmonary veins | 14. Hepatic portal vein |
| 3. Lymph node | 9. Aorta | 15. Alimentary system |
| 4. Inferior vena cava | 10. Left atrium | |
| 5. Right atrium | 11. Left ventricle | |
| 6. Superior vena cava | 12. Right ventricle | |



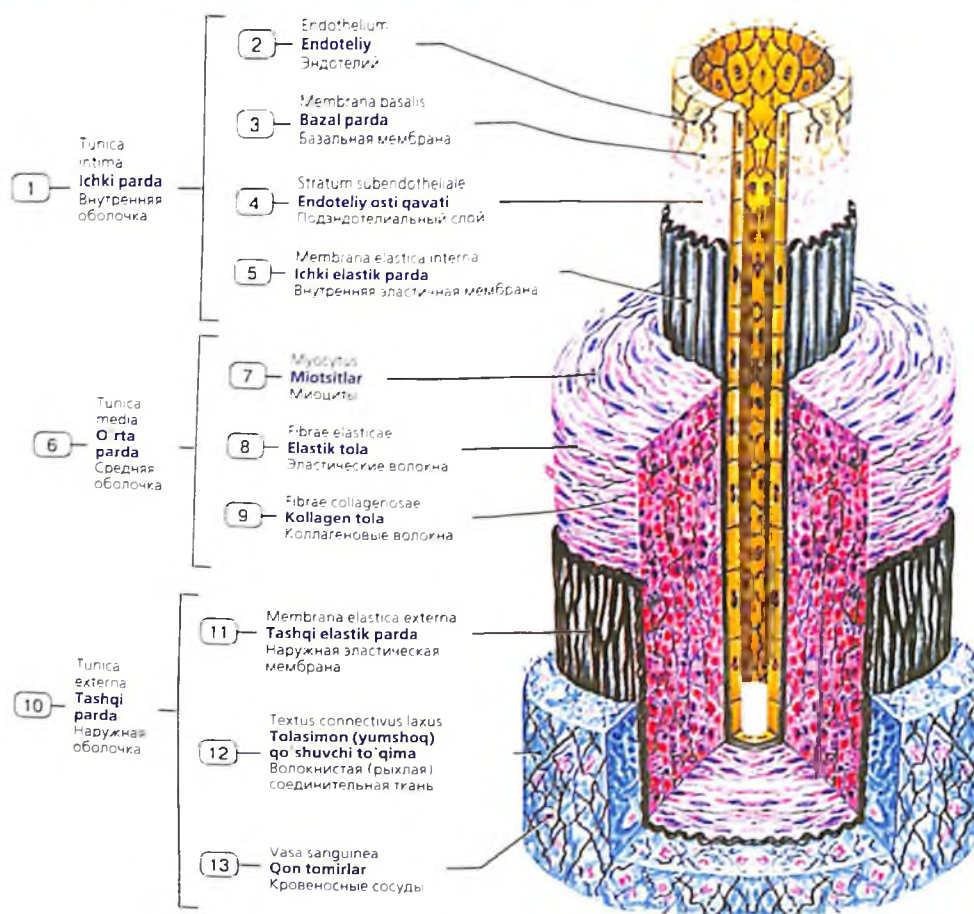
Rasm № 293. Homilada platsentar qon aylanishi, qizil bilan kislorodga to'yingan, ko'k bilan karbonat angidridga to'yingan, siyohrangda aralash qon ko'rsatilgan.

Рисунок № 293. Плацентарное кровообращение плода. Красным цветом показана оксигенированная кровь, синим — карбоксигенированная, фиолетовым — смешанная.

- 1 Umbilical arteries
- 2 Umbilical vein
- 3 Hepatic portal vein
- 4 Venous duct
- 5 Liver
- 6 Right atrium

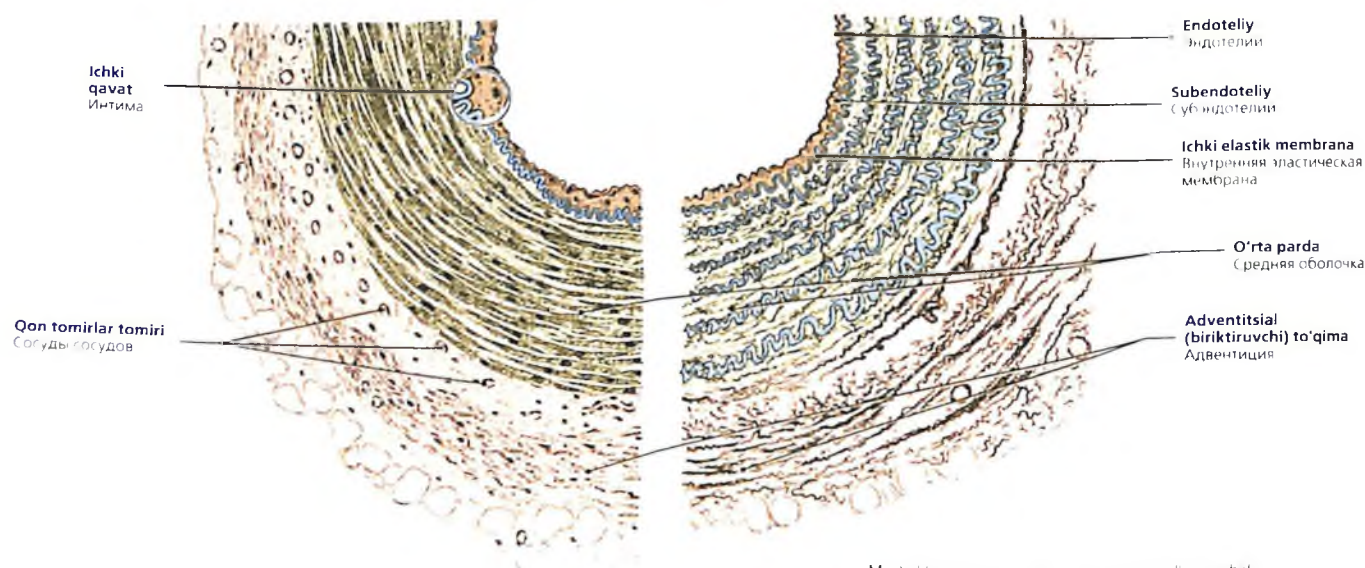
- 7 Foramen ovale
- 8 Pulmonary artery and vein
- 9 Pulmonary trunk
- 10 Superior vena cava
- 11 Arch of aorta, aortic arch
- 12 Ductus arteriosus

- 13 Left atrium
- 14 Left ventricle
- 15 Right ventricle
- 16 Inferior vena cava
- 17 Abdominal aorta



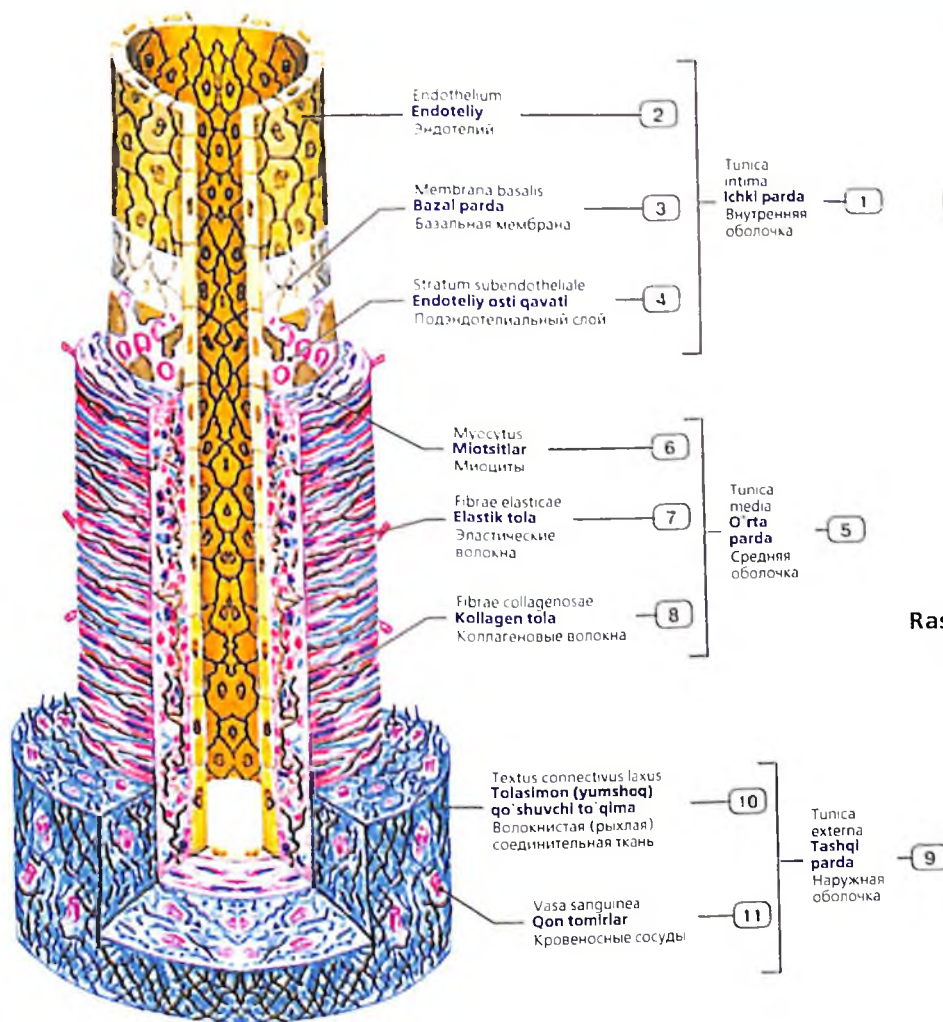
Rasm № 294. O'rta kalibrdagi mushak tipidagi arteriyalar devorining tuzilishi (chizma).
Рисунок № 294. Строение стенки артерии мышечного типа среднего калибра (схема).

- | | |
|---------------------------------|--------------------------------------|
| 1 = 2 + 3 + 4 + 5 Tunica intima | 8 Elastic fibres |
| 2 Endothelium | 9 Collagen fibres |
| 3 Basal membrane | 10 = 11 + 12 + 13 Tunica externa |
| 4 Subendothelial layer | 11 External elastic membrane |
| 5 Internal elastic membrane | 12 Fibrous (loose) connective tissue |
| 6 = 7 + 8 + 9 Tunica media | 13 Blood vessels |
| 7 Myocytus | |



Mushakli arteriyaning o'rta qavatini asosan silliq mushak to'qimasidan iborat, elastik arteriyaning o'rta qavatini esa elastik membranalar bilan o'rin almashuvchi silliq mushak hujayralaridan tashkil topgan. O'rta qavatning adventitsial va tashqi qismida qon tomirlari, elastik va kollagen tolalar mavjud.

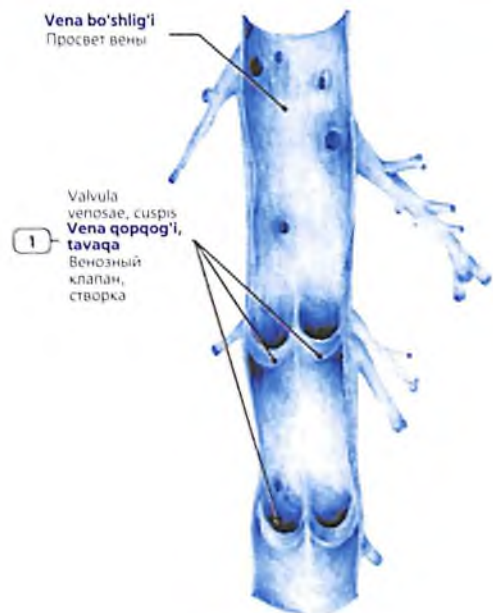
Rasm № 295. Mushakli arteriya, gemotoksilin va eozin bilan bo'yalgan (chapdan), elastik arteriya, Veygert usulida bo'yalgan (o'ngdan) (L.K.Junkeyra, J.Karneyro bo'yicha).
Рисунок № 295. Мышечная артерия, окраска гематоксилином и эозином (слева), эластическая артерия, окраска по методу Вейгерта (справа) (по Л.К.Жункейра, Ж.Карнейро).



Rasm № 296. O'rta kalibrdagi mushak tipidagi venalar devorining tuzilishi (chizma).
Рисунок № 296. Строение стенки вены мышечного типа среднего калибра (схема).

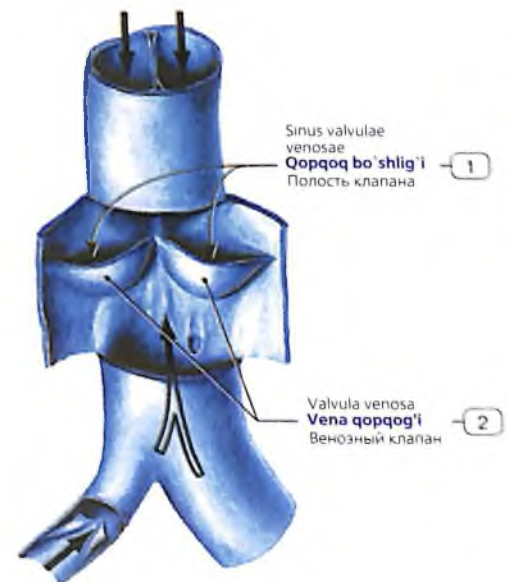
- | | |
|-----------------------------------|--------------------------------------|
| 1 Рисунок1=2+3+4
Tunica intima | 6 Myocytus |
| 2 Endothelium | 7 Elastic fibres |
| 3 Basal membrane | 8 Collagen fibres |
| 4 Subendothelial layer | 9 9=10+11 Tunica externa |
| 5 5=6+7+8 Tunica media | 10 Fibrous (loose) connective tissue |
| | 11 Blood vessels |

Venalarining tuzilishi arteriyalarning tuzilishiga o'xshash. Venalarining devori ham uch qavatdan iborat. Venalarining ikki turi farqlanadi: mushaksiz va mushakli. Mushaksiz venalarga bosh miyaning qattiq va yumshoq pardalari, ko'zning to'ri pardasi, suyaklar, taloq va yo'l doshda joylashgan venalar kiradi. Mushakli venalar sust, o'rta va kuchli rivojlangan mushak elementlariga ega venalarga ajratiladi. Mushak elementlari sust rivojlangan (venalar diametri 1-2 mm gacha) venalar asosan tananing yuqori qismida, bo'yin va yuz sohasida joylashgan. Venalarining diametri kattalashgan sari ularda ikki qavat halqasimon silliq miotsitlar paydo bo'ladi. Mushak elementlari o'rta rivojlangan (yelka venasi) venalarining o'rta qavatini biriktiruvchi to'qimali to'siqlar orqali bo'lingan halqasimon joylashgan silliq miotsitlar tutamidan tashkil topgan. Mushak elementlari kuchli rivojlangan venalar bu tananing pastki qismidagi va oyoqdagi venalar bo'lib, uchqala qavatida ham silliq mushak hujayralari tutamlari bo'lishi bilan farqlanadi.



Rasm № 297. Vena tomirlarining qopqoqlari. Vena ko'ndalang kesilgan va ochilgan.
Рисунок № 297. Венозные клапаны. Вена разрезана вдоль и развернута.

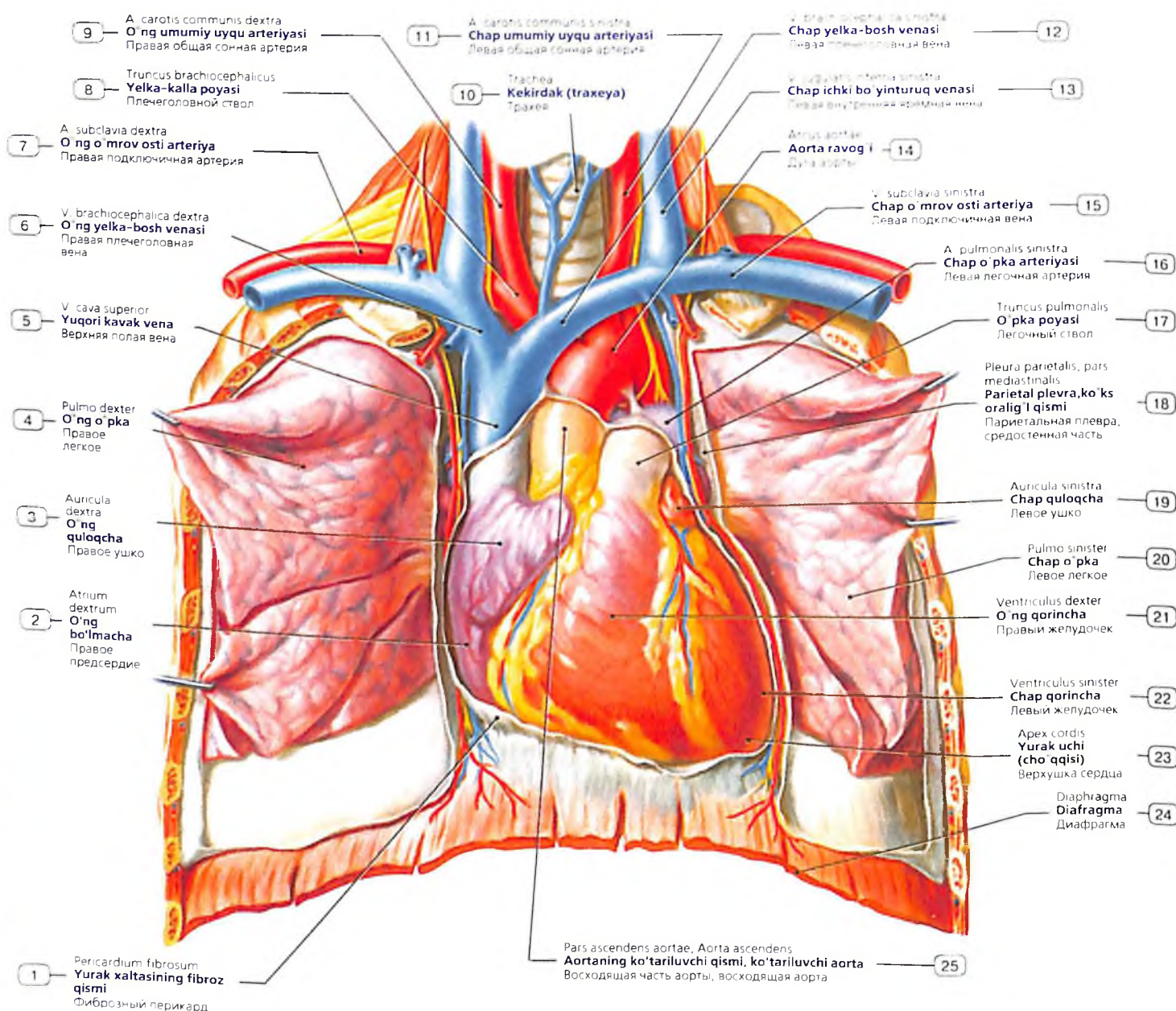
1 Venous valve, cusp



Rasm № 298. Vena tomirlarining qopqoqlari ishlash printsiplari. O'qlar qon oqimini ko'rsatmoqda. Vena tomirlarining qopqoqlari qonning teskari oqimiga to'sqinlik qiladi (chizma).

Рисунок № 298. Принцип работы венозных клапанов. Стрелки указывают на ток крови. Клапаны противодействуют противотоку крови (стрелки).

1 Sinus of venous valve 2 Venouse valve

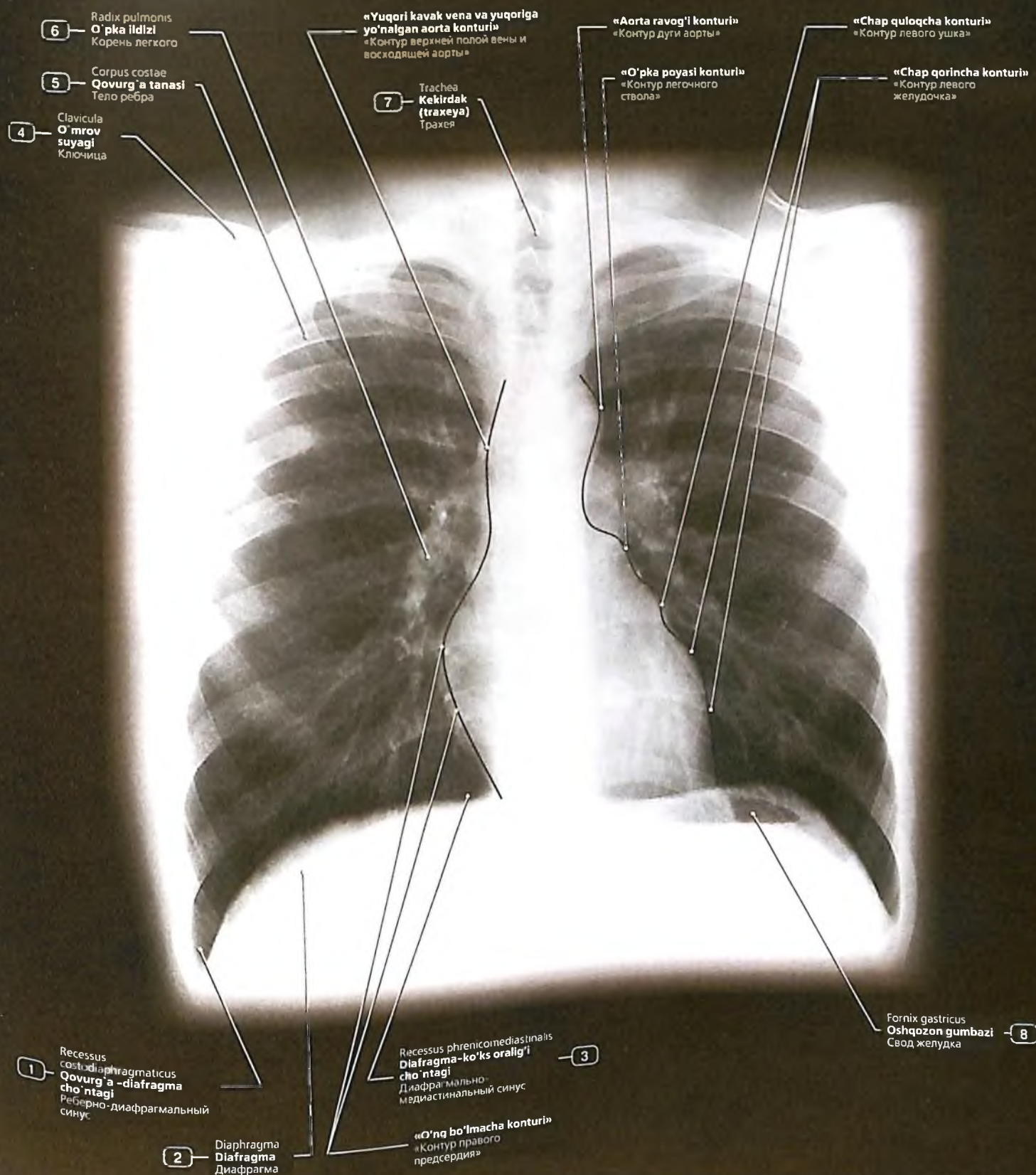


Rasm № 299. Yurakning ko'krak qafasida joylashuvi.
Рисунок № 299. Положение сердца в грудной полости.

- 1 Fibrous pericardium
- 2 Right atrium
- 3 Right auricle
- 4 Right lung
- 5 Superior vena cava
- 6 Right brachiocephalic vein
- 7 Right subclavian vein
- 8 Brachiocephalic trunk
- 9 Right common carotid artery

- 10 Trachea
- 11 Left common carotid artery
- 12 Left brachiocephalic vein
- 13 Left internal jugular vein
- 14 Arch of aorta, Aorta arch
- 15 Left subclavian vein
- 16 Left pulmonary artery
- 17 Pulmonary trunk
- 18 Parietal pleura, mediastinal part

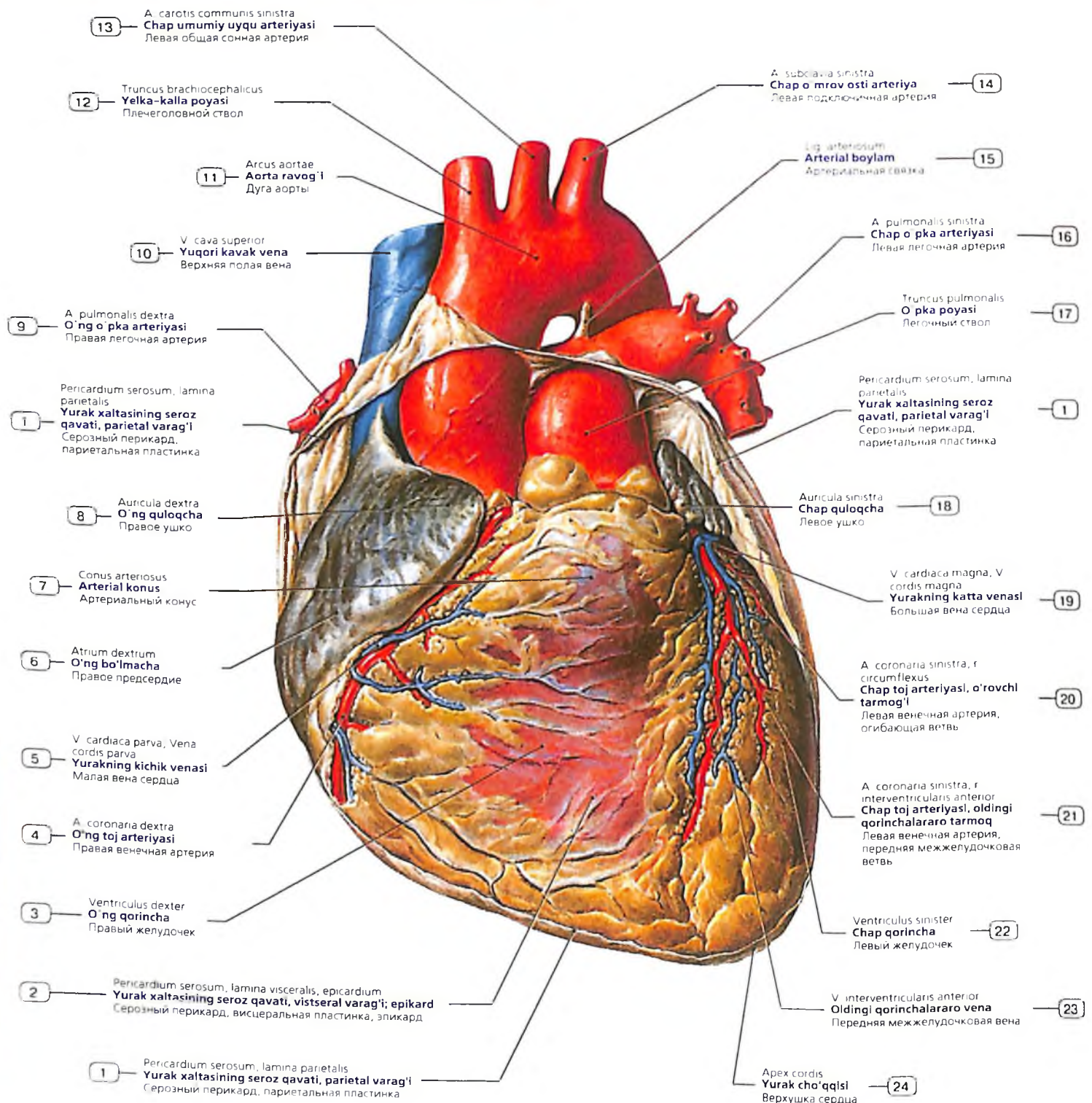
- 19 Left auricle
- 20 Left lung
- 21 Right ventricle
- 22 Left ventricle
- 23 Apex of heart
- 24 Diaphragm
- 25 Ascending aorta



Rasm № 300. Oldingi-orqa rentgenogrammada yurak va yirik qon tomirlarning soyasi.
Рисунок № 300. Тень сердца и крупных сосудов на переднезадней рентгенограмме.

- 1 Costodiaphragmatic recess
- 2 Diaphragma
- 3 Phrenicomedastinal recess
- 4 Clavicle

- 5 Body of rib; Shaft of rib
- 6 Root of lung
- 7 Trachea
- 8 Fornix of stomach

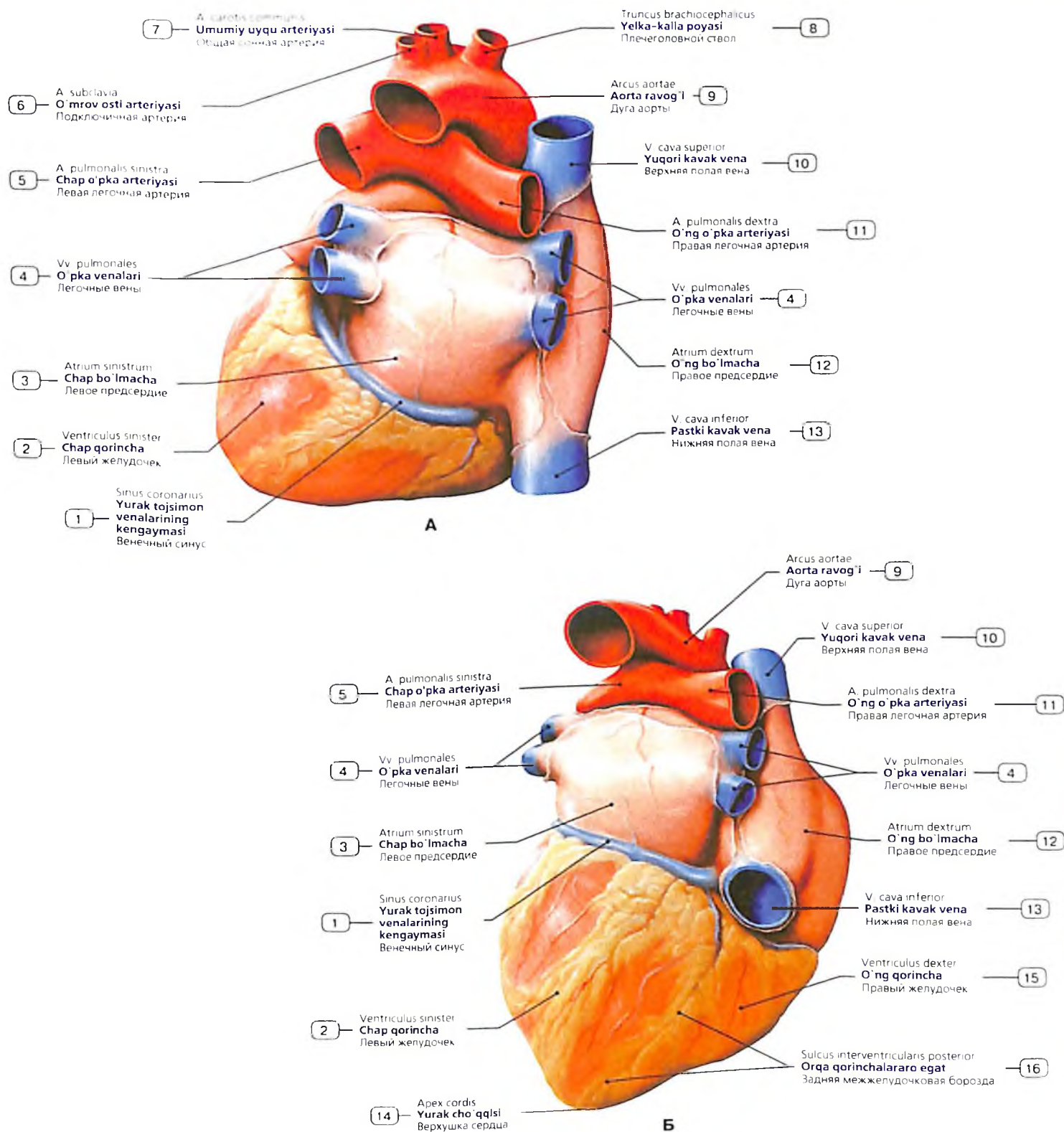


Rasm № 301. Yurak, oldindan ko'inishi.
Рисунок № 301. Сердце, вид спереди.

- 1 Serous pericardium, parietal layer
- 2 Serous pericardium, visceral layer, epicardium
- 3 Right ventricle
- 4 Right coronary artery
- 5 Small cardiac vein
- 6 Right atrium
- 7 Conus arteriosus, Infundibulum
- 8 Right auricle
- 9 Right pulmonary artery

- 10 Superior vena cava
- 11 Arch of aorta, aortic arch
- 12 Brachiocephalic trunk
- 13 Left common carotid artery
- 14 Left subclavian artery
- 15 Ligamentum arteriosum
- 16 Left pulmonary artery
- 17 Pulmonary trunk
- 18 Left auricle

- 19 Great cardiac vein
- 20 Left coronary artery, circumflex branch
- 21 Left coronary artery, anterior interventricular branch
- 22 Left ventricle
- 23 Anterior interventricular vein
- 24 Apex of heart

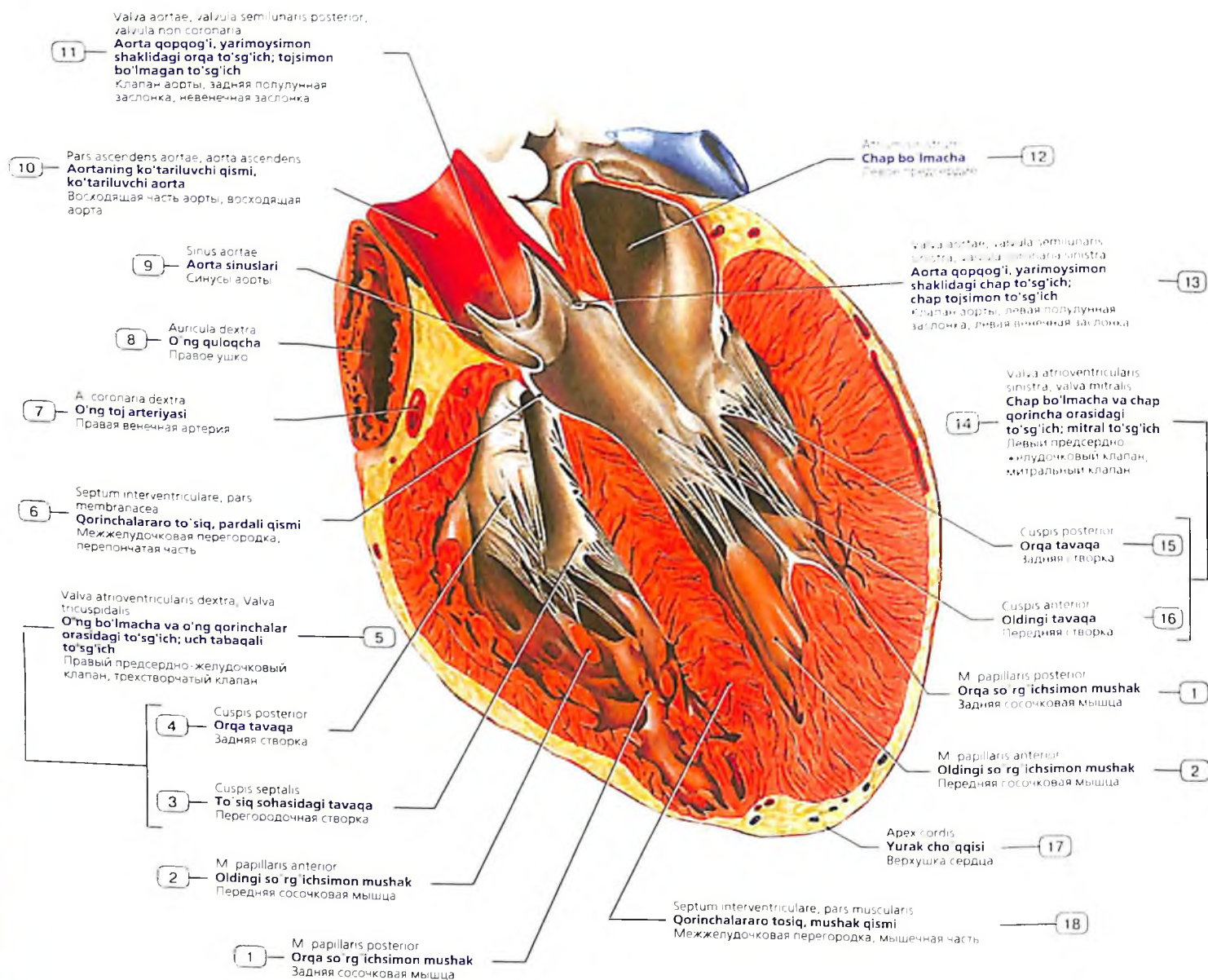


Rasm № 302. Yurak (A — orqadan ko'rinishi; B — orqadan va pastdan ko'rinishi).
Рисунок № 302. Сердце (A — вид сзади; B — вид сзади и снизу).

- 1 Coronary sinus
- 2 Left ventricle
- 3 Left atrium
- 4 Pulmonary veins
- 5 Left pulmonary artery
- 6 Subclavian artery

- 7 Common carotid artery
- 8 Brachiocephalic trunk
- 9 Arch of aorta, aortic arch
- 10 Superior vena cava
- 11 Right pulmonary artery
- 12 Right atrium

- 13 Inferior vena cava
- 14 Apex of heart
- 15 Right ventricle
- 16 Posterior interventricular sulcus

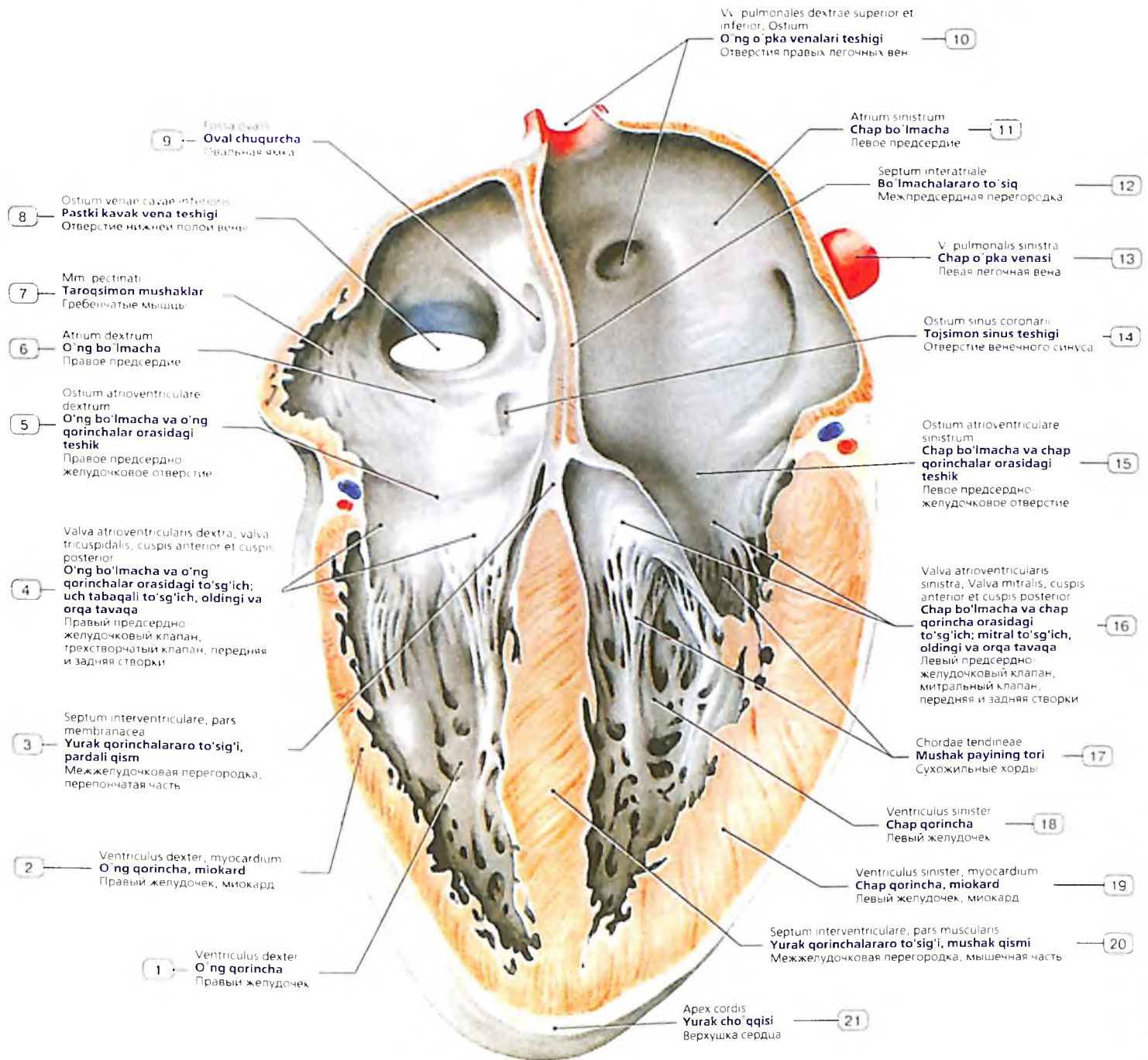


Rasm № 303. Yurak kameralari frontal kesmasi.
Рисунок № 303. Камеры сердца, фронтальный разрез.

- 1. Posterior papillary muscle
- 2. Anterior papillary muscle
- 3. Septal cusp
- 4. Posterior cusp
- 5. 3 + 4 Tricuspid valve
- 6. Atrioventricular valve
- 7. Right coronary artery
- 8. Right auricle
- 9. Aortic sinus
- 10. Ascending aorta
- 11. Aortic valve, posterior semilunar cusp, noncoronary cusp
- 12. Left atrium
- 13. Aortic valve, left semilunar cusp, Left coronary cusp
- 14. 14=15+16 Mitral valve, Left atrioventricular valve
- 15. Posterior cusp
- 16. Anterior cusp
- 17. Apex of heart
- 18. Interventricular septum, muscular part

- 7. Right coronary artery
- 8. Right auricle
- 9. Aortic sinus
- 10. Ascending aorta
- 11. Aortic valve, posterior semilunar cusp, noncoronary cusp
- 12. Left atrium
- 13. Aortic valve, left semilunar cusp, Left coronary cusp
- 14. 14=15+16 Mitral valve, Left atrioventricular valve
- 15. Posterior cusp
- 16. Anterior cusp
- 17. Apex of heart
- 18. Interventricular septum, muscular part

- 13. Aortic valve, left semilunar cusp, Left coronary cusp
- 14. 14=15+16 Mitral valve, Left atrioventricular valve
- 15. Posterior cusp
- 16. Anterior cusp
- 17. Apex of heart
- 18. Interventricular septum, muscular part

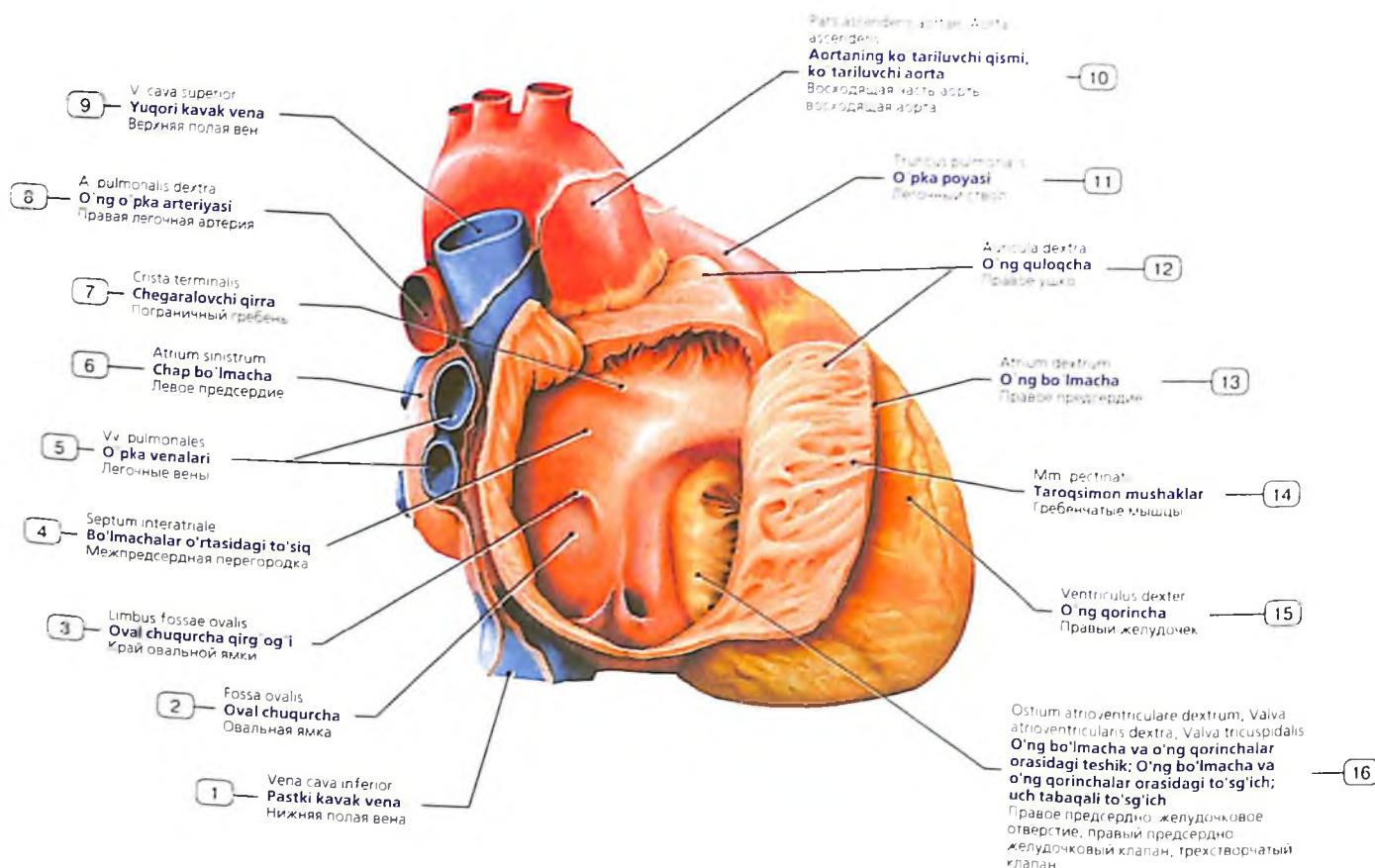


Rasm № 304. Yurakning bo'lmacha va qorinchalari, frontal kesma, oldindan ko'rinishi.
Рисунок № 304. Предсердия и желудочки сердца, фронтальный разрез, вид спереди.

- 1 Right ventricle
- 2 Right ventricle, myocardium
- 3 Interventricular septum, membranous part
- 4 Tricuspid valve, Right atrioventricular valve, anterior and posterior cusp
- 5 Right atrioventricular orifice
- 6 Right atrium
- 7 Musculi pectinati, pectinate muscles

- 8 Opening of inferior vena cava
- 9 Fossa ovalis, Oval fossa
- 10 Right superior and inferior pulmonary veins, Opening
- 11 Left atrium
- 12 Interatrial septum
- 13 Left pulmonary vein
- 14 Opening of coronary sinus

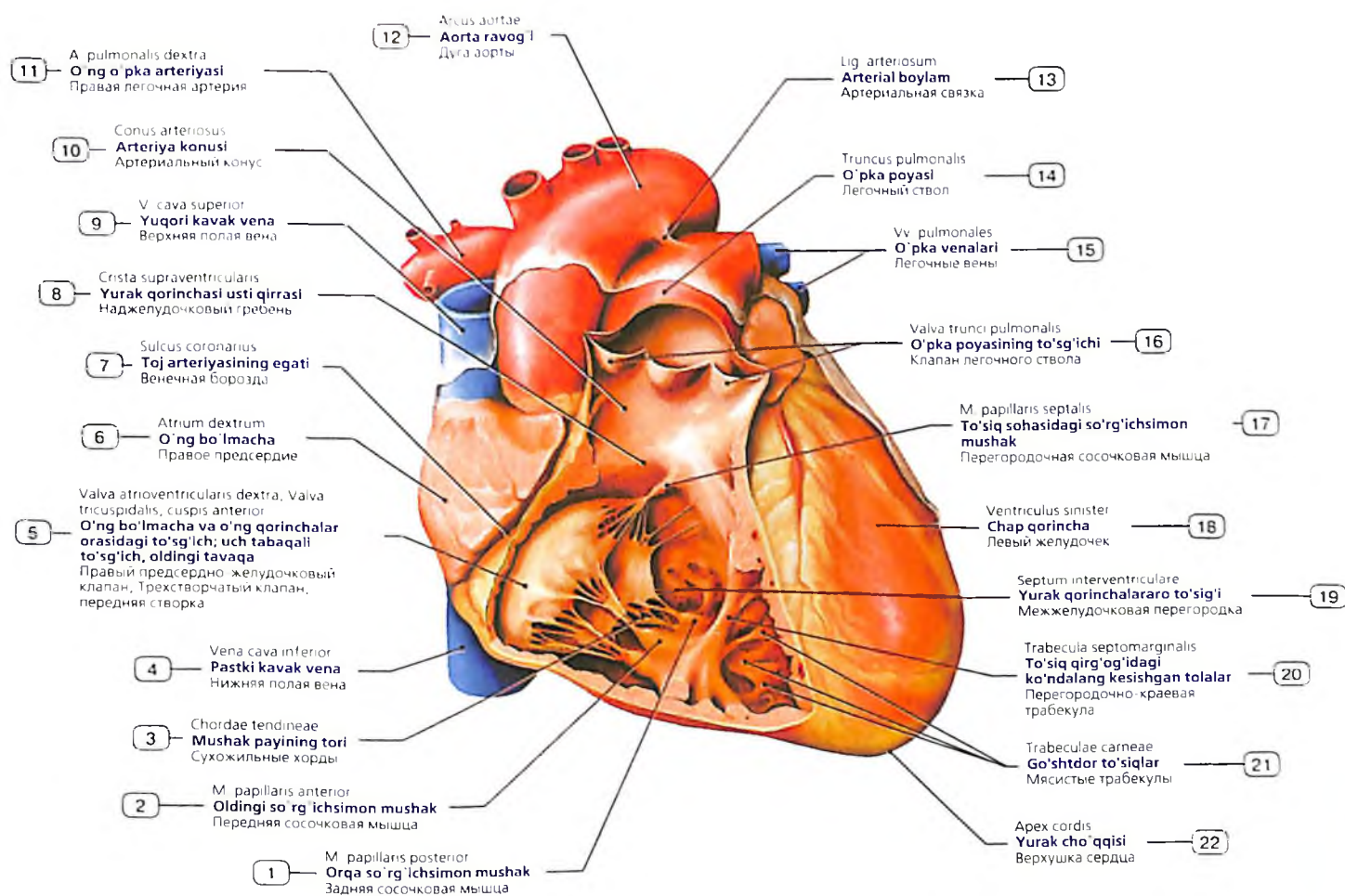
- 15 Left atrioventricular orifice
- 16 Mitral valve, Left atrioventricular valve, Anterior and posterior cusp
- 17 Chordae tendineae, Tendinous cords
- 18 Left ventricle
- 19 Left ventricle, myocardium
- 20 Interventricular septum, muscular part
- 21 Apex of heart



Rasm № 305. Yurakning o'ng yarmi, o'ng bo'lmacha.
Рисунок № 305. Правая половина сердца, правое предсердие.

- 1 Inferior vena cava
- 2 Fossa ovalis, Oval fossa
- 3 Limbus fossae ovalis, Border of oval fossa
- 4 Interatrial septum
- 5 Pulmonary veins
- 6 Left atrium
- 7 Crista terminalis
- 8 Right pulmonary artery

- 9 Superior vena cava
- 10 Ascending aorta
- 11 Pulmonary trunk
- 12 Right auricle
- 13 Right atrium
- 14 Musculi pectinati, Pectinate muscles
- 15 Right ventricle
- 16 Right atrioventricular orifice, Tricuspid valve, Right atrioventricular valve

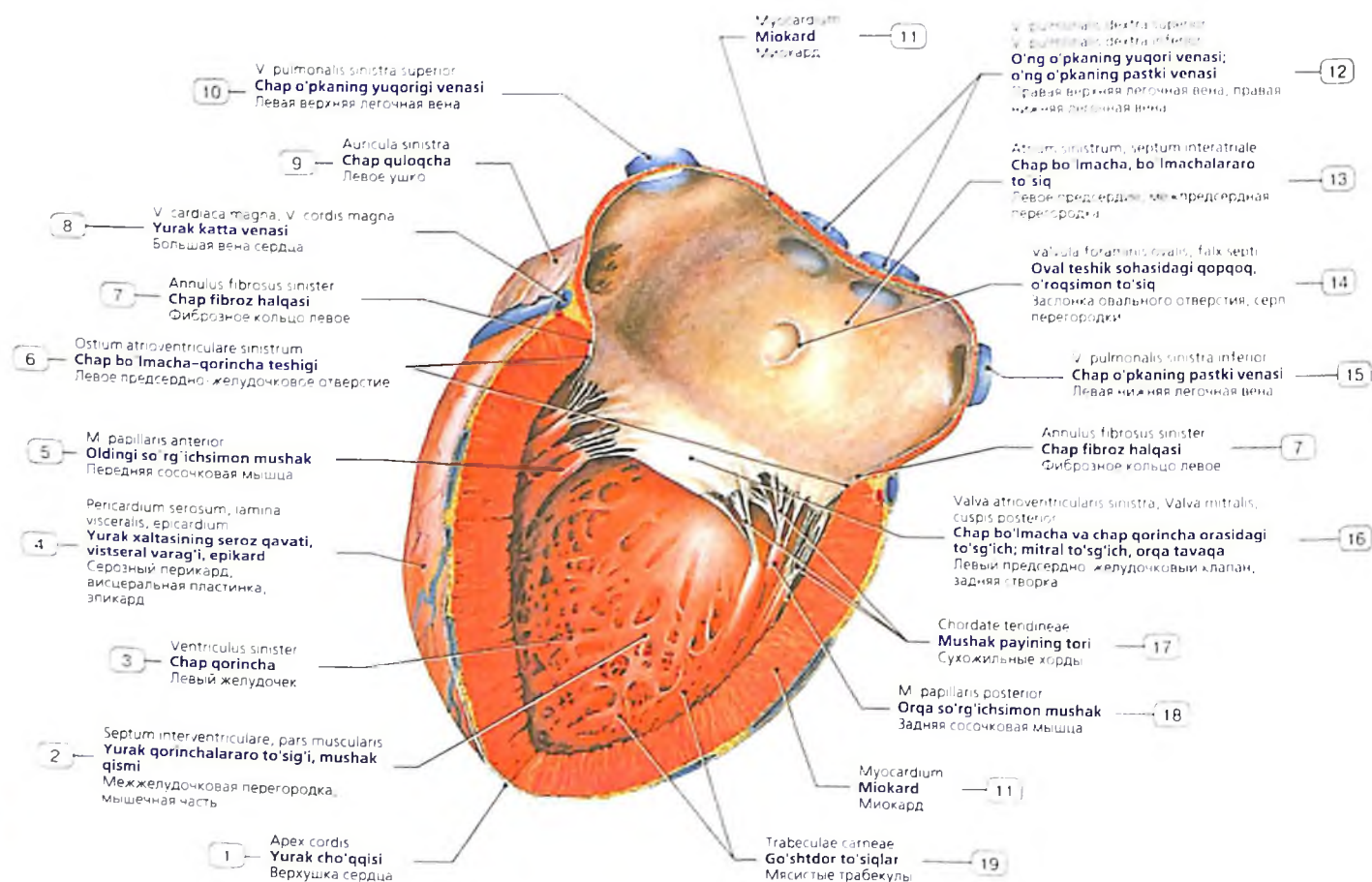


Rasm № 306. Yurakning o'ng yarmi, o'ng qorincha.
Рисунок № 306. Правая половина сердца, правый желудочек.

- 1 Posterior papillary muscle
- 2 Anterior papillary muscle
- 3 Chordae tendineae, tendinous cords
- 4 Inferior vena cava
- 5 Tricuspid valve, Right atrioventricular valve, anterior cusp
- 6 Right atrium
- 7 Coronary sulcus

- 8 Supraventricular crest
- 9 Superior vena cava
- 10 Conus arteriosus, Infundibulum
- 11 Right pulmonary artery
- 12 Arch of aorta, Aortic arch
- 13 Ligamentum arteriosum
- 14 Pulmonary trunk
- 15 Pulmonary veins

- 16 Pulmonary valve
- 17 Septal papillary muscle
- 18 Left ventricle
- 19 Interventricular septum
- 20 Septomarginal trabecula, Moderator band
- 21 Trabeculae carneae
- 22 Apex of heart

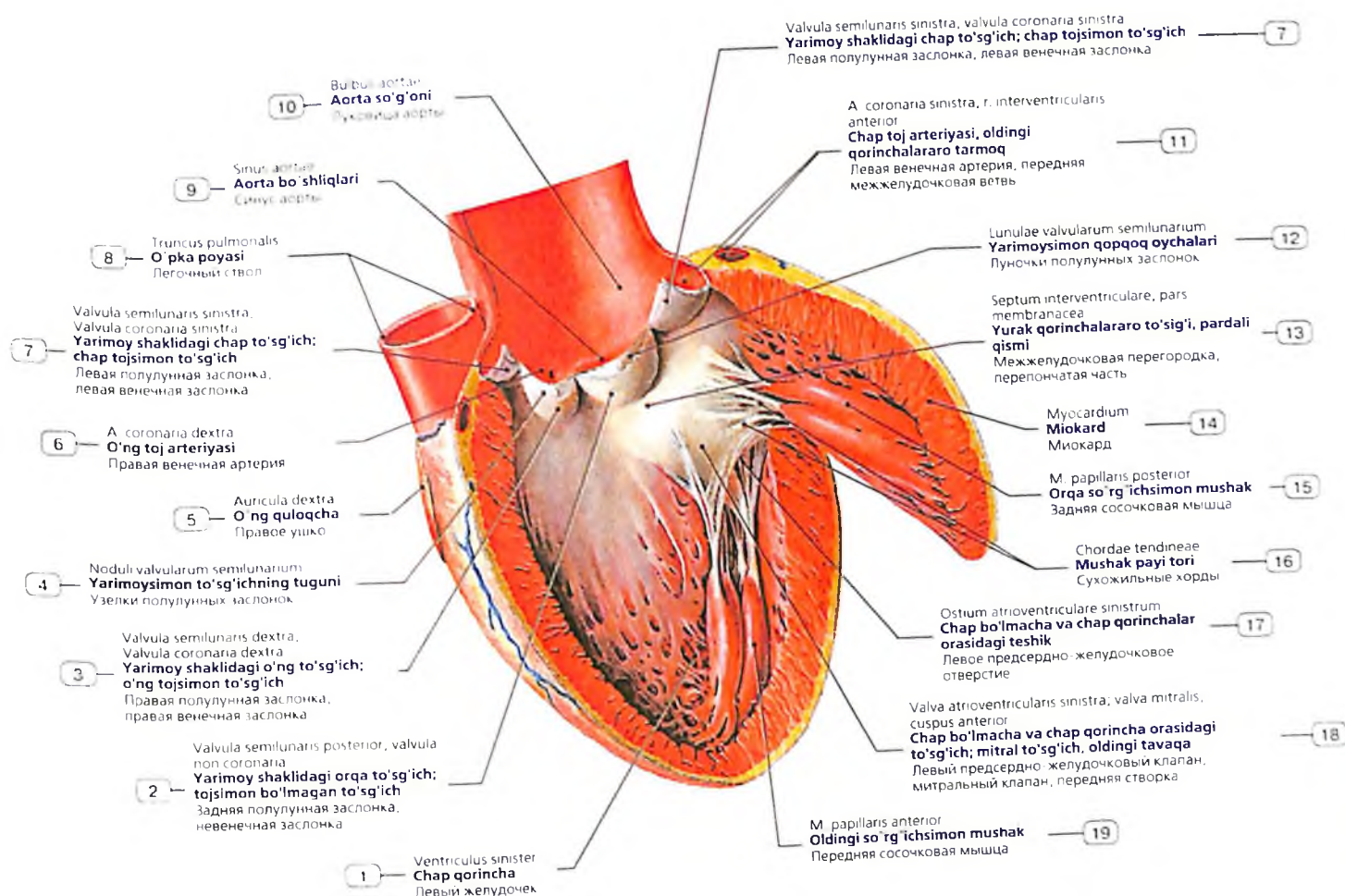


Rasm № 307. Yurakning chap bo'lagi, bo'lmacha va qorincha.
Рисунок № 307. Левая половина сердца, предсердие и желудочек.

1. Apex of heart
2. Interventricular septum, muscular part
3. Left ventricle
4. Serous pericardium, visceral layer, epicardium
5. Anterior papillary muscle
6. Left atrioventricular orifice
7. Left fibrous ring

8. Great cardiac vein
9. Left auricle
10. Left superior pulmonary vein
11. Myocardium
12. Right superior pulmonary vein
13. Right inferior pulmonary vein
14. Left atrium, interatrial septum

15. Valve of foramen ovale, falk of septum
16. Left inferior pulmonary vein
17. Mitral valve, left atrioventricular valve, posterior cusp
18. Chordae tendineae, tendinous cords
19. Posterior papillary muscle
20. Trabeculae carneae



Rasm № 308. Yurakning chap bo'lagi, qorincha.
Рисунок № 308. Левая половина сердца, желудочек.

- 1 Left ventricle
- 2 Posterior semilunar cusp, Noncoronary cusp
- 3 Right semilunar cusp, Right coronary cusp
- 4 Nodules of semilunar cusps
- 5 Right auricle
- 6 Right coronary artery
- 7 Left semilunar cusp, Left coronary cusp

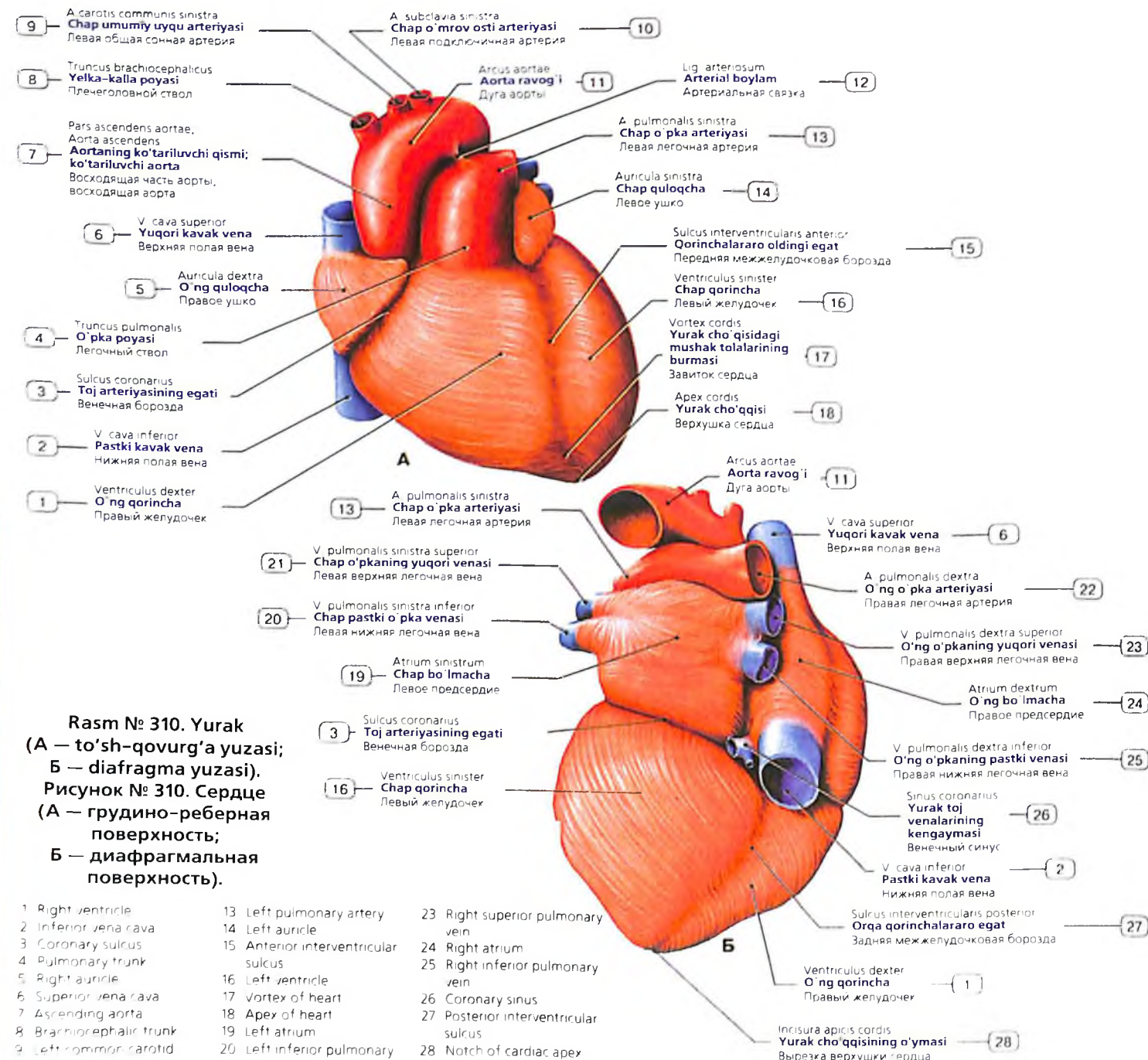
- 8 Pulmonary trunk
- 9 Aortic sinus
- 10 Aortic bulb
- 11 Left coronary artery, anterior interventricular branch
- 12 Lunules of semilunar cusps
- 13 Interventricular septum, membranous part

- 14 Myocardium
- 15 Posterior papillary muscle
- 16 Chordae tendineae, Tendinous cords
- 17 Left atrioventricular orifice
- 18 Mitral valve, left atrioventricular valve, anterior cusp
- 19 Anterior papillary muscle



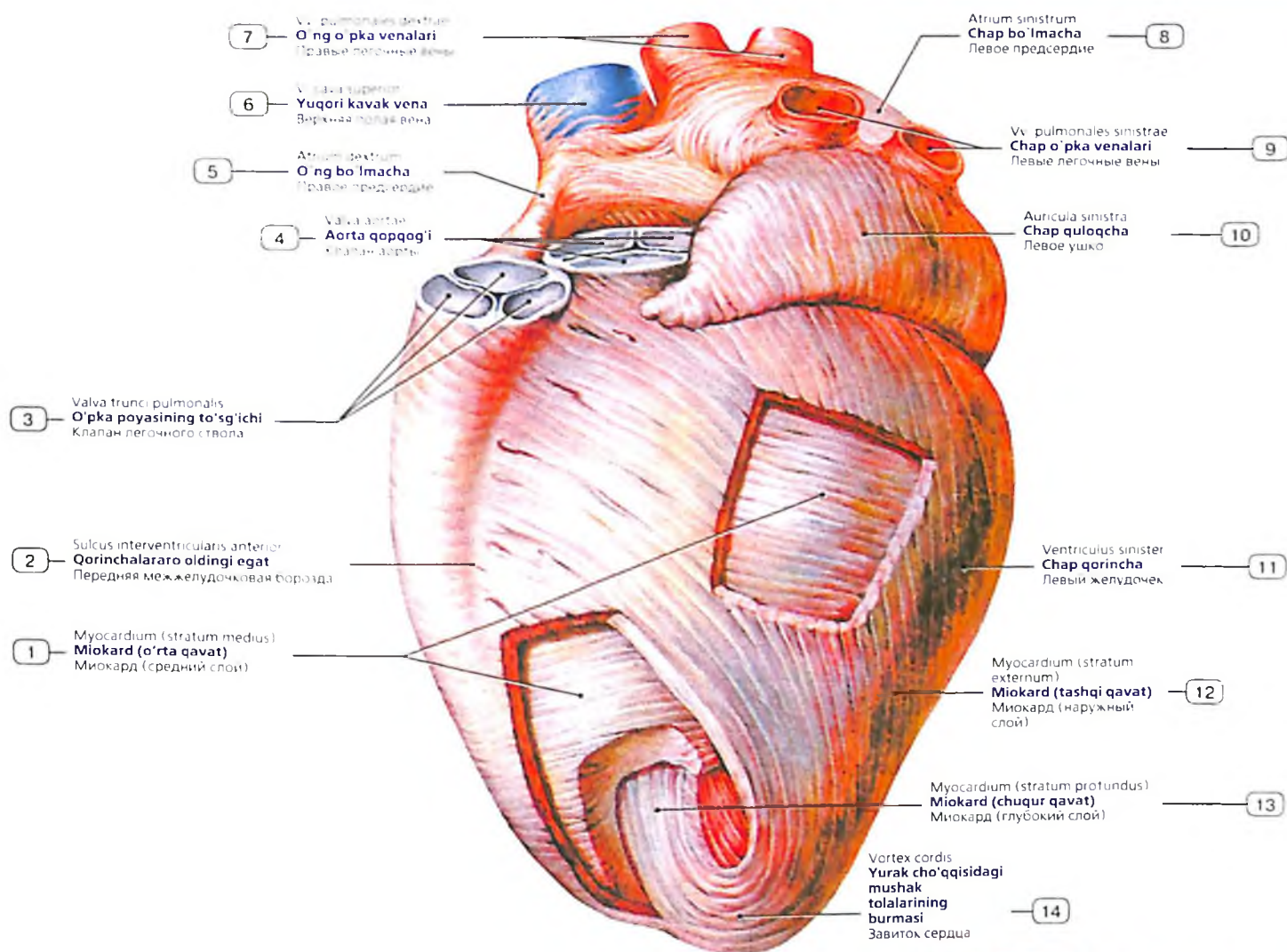
Rasm № 309. Yurak cho'qqisi.
Рисунок № 309. Верхушка сердца.

- 1 Posterior interventricular sulcus
- 2 Apex of heart
- 3 Vortex of heart
- 4 Anterior interventricular sulcus



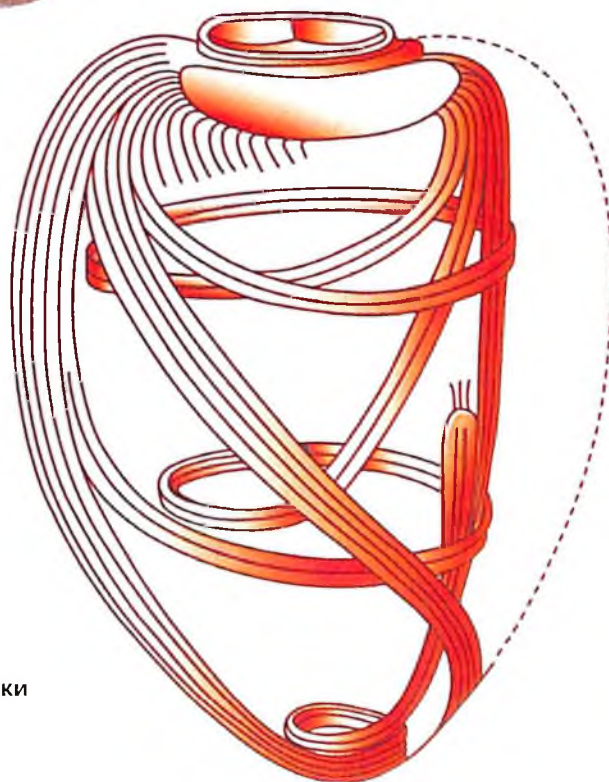
Rasm № 310. Yurak
(A — to'sh-qovurg'a yuzasi;
B — diafragma yuzasi).
Рисунок № 310. Сердце
(A — грудно-реберная
поверхность;
B — диафрагмальная
поверхность).

- | | | |
|-------------------------------|-------------------------------------|--------------------------------------|
| 1 Right ventricle | 13 Left pulmonary artery | 23 Right superior pulmonary vein |
| 2 Inferior vena cava | 14 Left auricle | 24 Right atrium |
| 3 Coronary sulcus | 15 Anterior interventricular sulcus | 25 Right inferior pulmonary vein |
| 4 Pulmonary trunk | 16 Left ventricle | 26 Coronary sinus |
| 5 Right auricle | 17 Vortex of heart | 27 Posterior interventricular sulcus |
| 6 Superior vena cava | 18 Apex of heart | 28 Notch of cardiac apex |
| 7 Ascending aorta | 19 Left atrium | |
| 8 Brachiocephalic trunk | 20 Left inferior pulmonary vein | |
| 9 Left common carotid artery | 21 Left superior pulmonary vein | |
| 10 Left subclavian artery | 22 Right pulmonary artery | |
| 11 Arch of aorta, Aortic arch | | |
| 12 Ligamentum arteriosum | | |

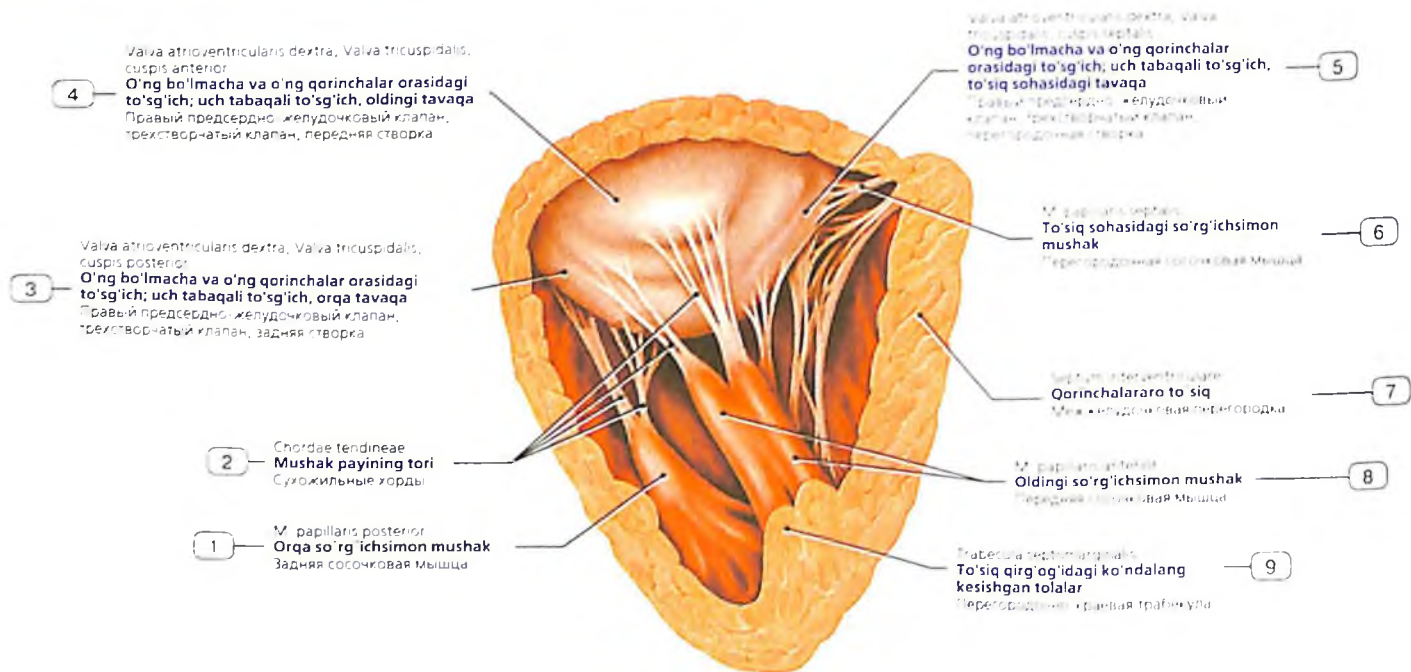


Rasm № 311. Chap bo'lmacha miokardi qavatlari.
Рисунок № 311. Слои миокарда левого желудочка.

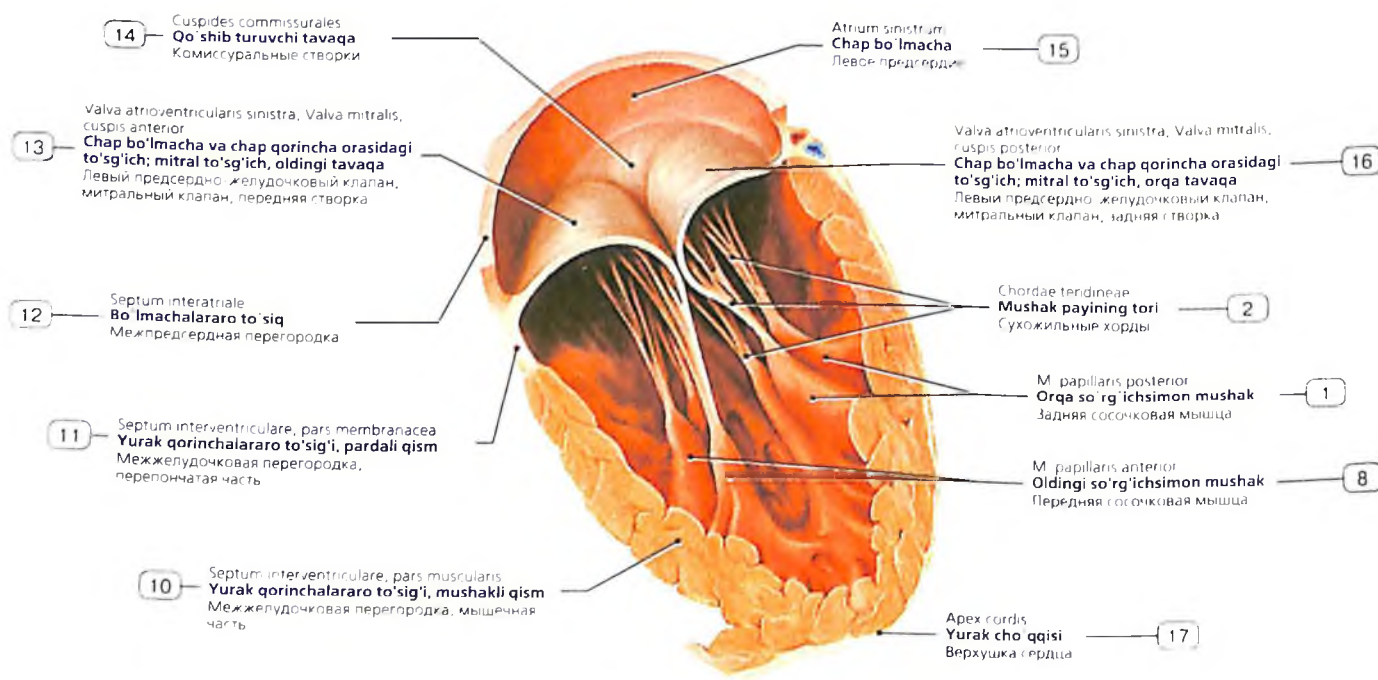
- | | |
|------------------------------------|-----------------------------|
| 1 Myocardium (middle layer) | 8 Left atrium |
| 2 Anterior interventricular sulcus | 9 Left pulmonary veins |
| 3 Pulmonary valve | 10 Left auricle |
| 4 Aortic valve | 11 Left ventricle |
| 5 Right atrium | 12 Myocardium (outer layer) |
| 6 Superior vena cava | 13 Myocardium (deep layer) |
| 7 Right pulmonary veins | 14 Vortex of heart |



Rasm 312. Chap bo'lmacha devoridagi mushak tolalarining yo'nalishi (chizma).
Рисунок № 312. Направление мышечных пучков стенки левого желудочка (схема).



A



B

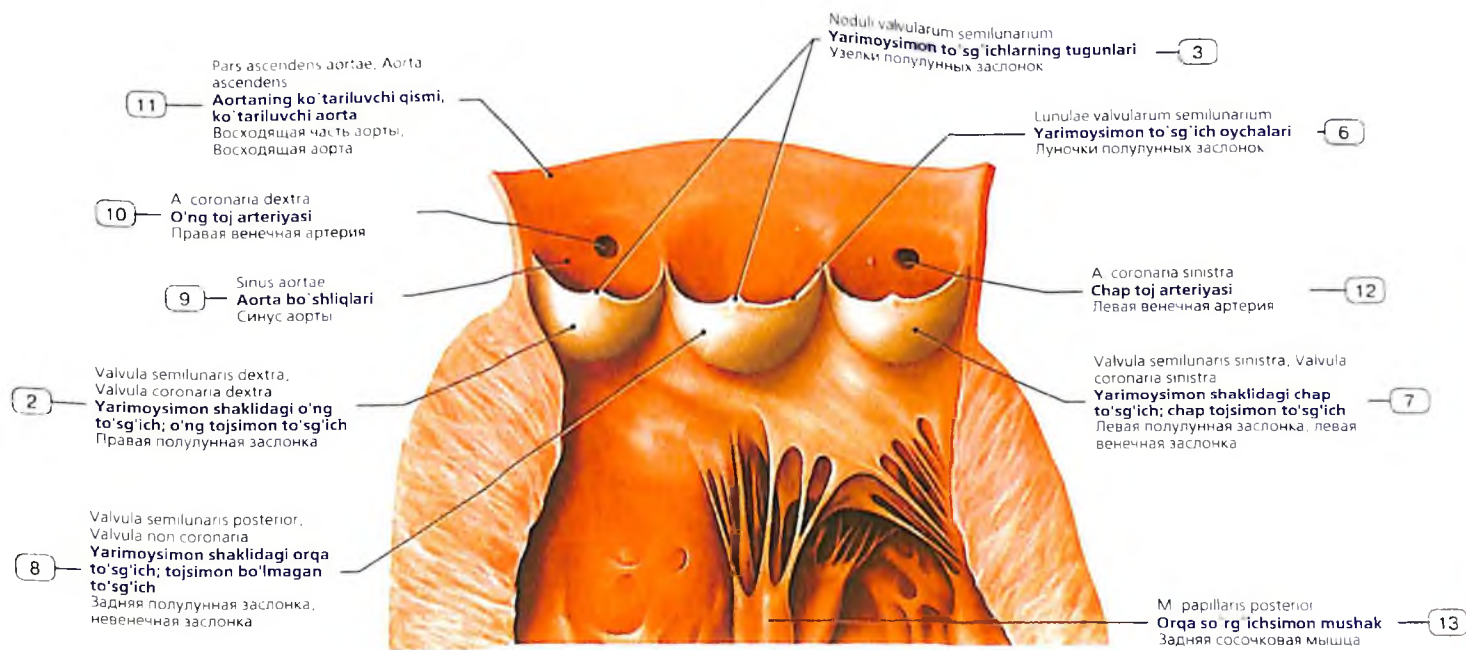
Rasm № 313. Yurak to'sg'ichlari (A - o'ng bo'lmacha va o'ng qorinchalar orasidagi to'sg'ich; B - chap bo'lmacha va chap qorinchalar orasidagi to'sg'ich).

Рисунок № 313. Клапаны сердца (А — правый атриовентрикулярный клапан; Б — левый атриовентрикулярный клапан).

- | | | |
|--|--|---|
| 1. Posterior papillary muscle | 6. Septal papillary muscle | 12. Interatrial septum |
| 2. Chordae tendineae, Tendinous cords | 7. Interventricular septum | 13. Mitral valve, Left atrioventricular valve, anterior cusp |
| 3. Tricuspid valve, Right atrioventricular valve, posterior cusp | 8. Anterior papillary muscle | 14. Commissural cusps |
| 4. Tricuspid valve, Right atrioventricular valve, anterior cusp | 9. Septomarginal trabecula, Moderator band | 15. Left atrium |
| 5. Tricuspid valve, Right atrioventricular valve, septal cusp | 10. Interventricular septum, muscular part | 16. Mitral valve, Left atrioventricular valve, posterior cusp |
| | 11. Interventricular septum, membranous part | 17. Apex of heart |



A

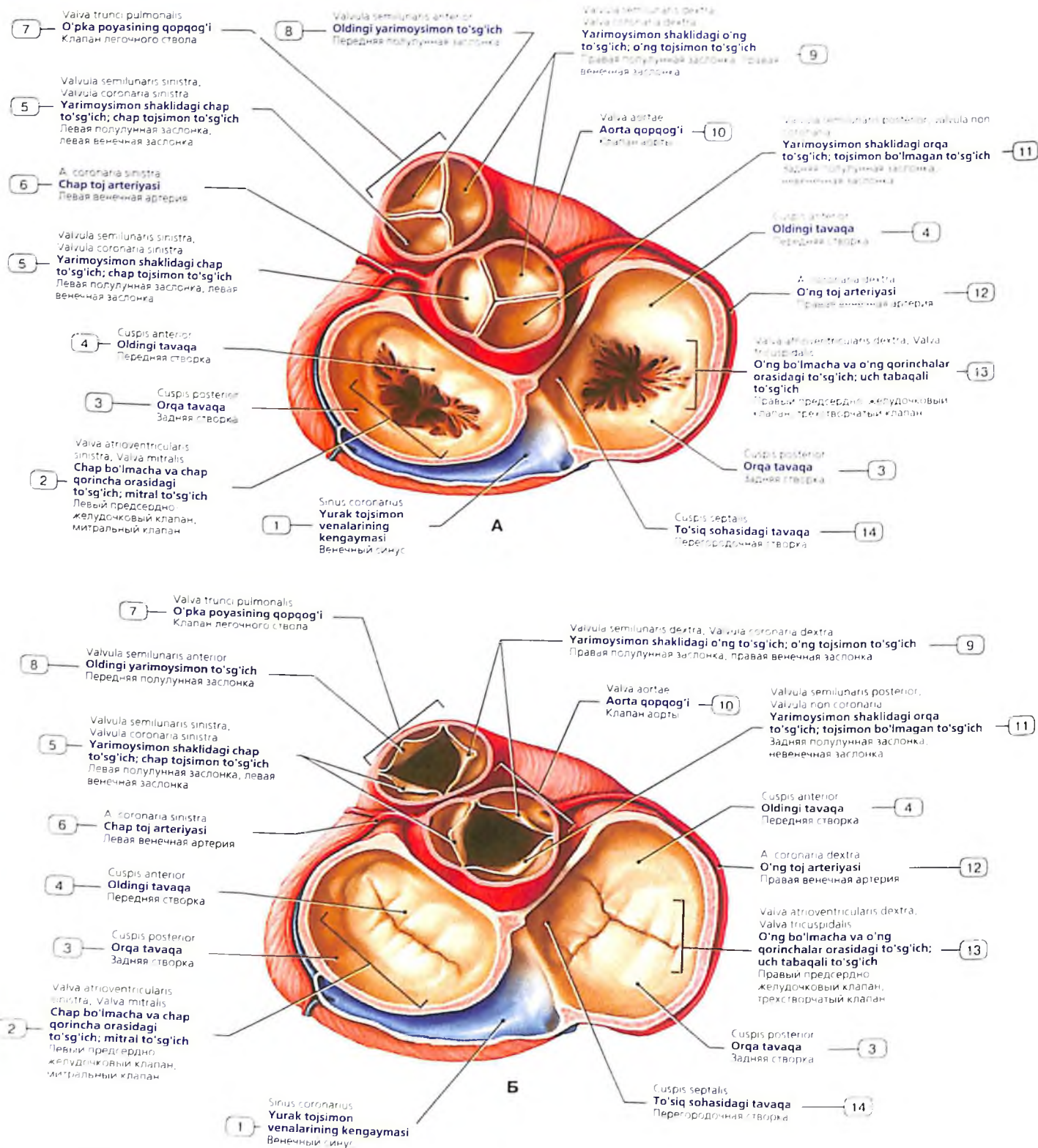


B

Rasm № 314. O'pka poyasi (A) va aorta (B) qopqoqlari (to'sg'ichlari).
Рисунок № 314. Клапаны легочного ствола (А) и аорты (Б).

- 1 Anterior semilunar cusp
- 2 Right semilunar cusp, Right coronary cusp
- 3 Nodules of semilunar cusps
- 4 Right pulmonary artery
- 5 Pulmonary trunk
- 6 Lunules of semilunar cusps
- 7 Left semilunar cusp, left coronary cusp

- 8 Posterior semilunar cusp, noncoronary cusp
- 9 Aortic sinus
- 10 Right coronary artery
- 11 Ascending aorta
- 12 Left coronary artery
- 13 Posterior papillary muscle



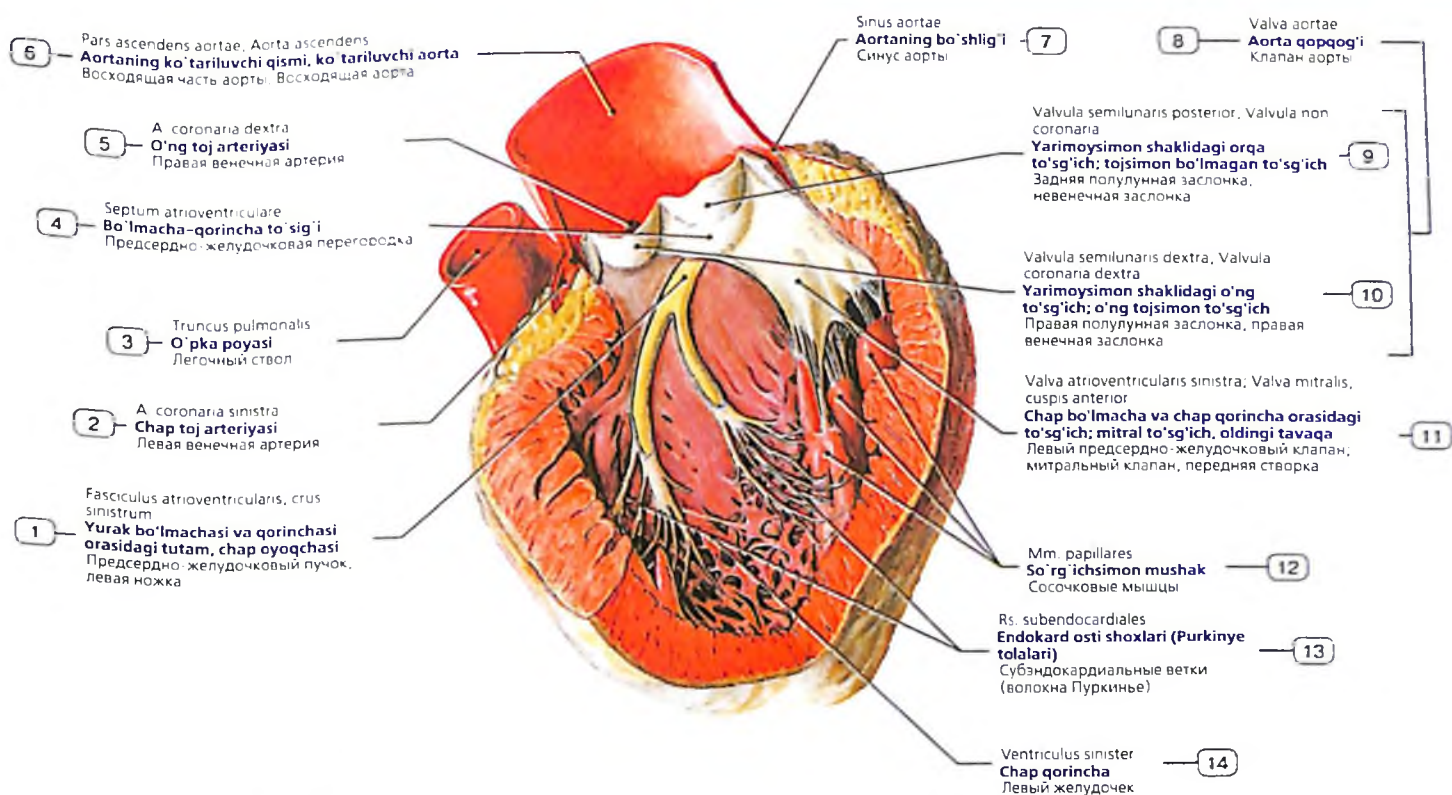
Rasm № 315. Yurak qorpoqlari (A — aorta va o'pka poyasi qorpoqlari yopiq, bo'lmacha-qorinchalararo qorpoqlar ochiq; B — aorta va o'pka poyasi qorpoqlari ochiq, bo'lmacha-qorinchalararo qorpoqlar yopiq).

Рисунок № 315. Клапаны сердца (А — клапаны аорты и легочного ствола закрыты, атриовентрикулярные — открыты, Б — клапаны аорты и легочного ствола открыты, атриовентрикулярные — закрыты).

1. Coronary sinus
2. Mitral valve, left atrioventricular valve
3. Posterior cusp
4. Anterior cusp
5. Left atrioventricular valve, left coronary valve

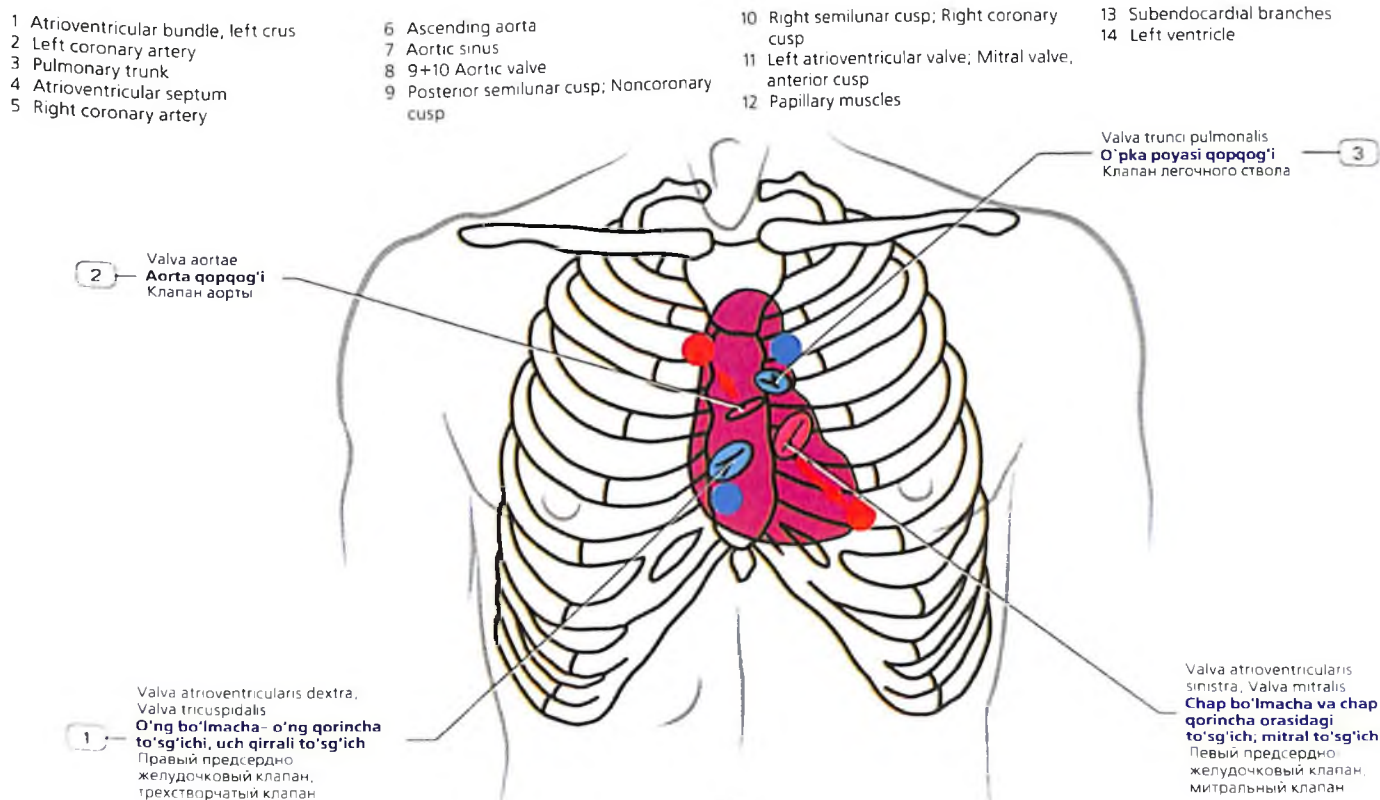
6. Left coronary artery
7. Pulmonary valve
8. Anterior semilunar cusp
9. Right semilunar cusp, right coronary cusp
10. Aortic valve

11. Posterior semilunar cusp, non-coronary cusp
12. Right coronary artery
13. Tricuspid valve, right atrioventricular valve
14. Septal cusp



Rasm № 316. Yurakning o'tkazuv tizimi, bo'lmacha-qorinchali tutam va subendokardial tarmoqlar.

Рисунок № 316. Проводящая система сердца, предсердно-желудочковый пучок и субэндокардиальные ветви.



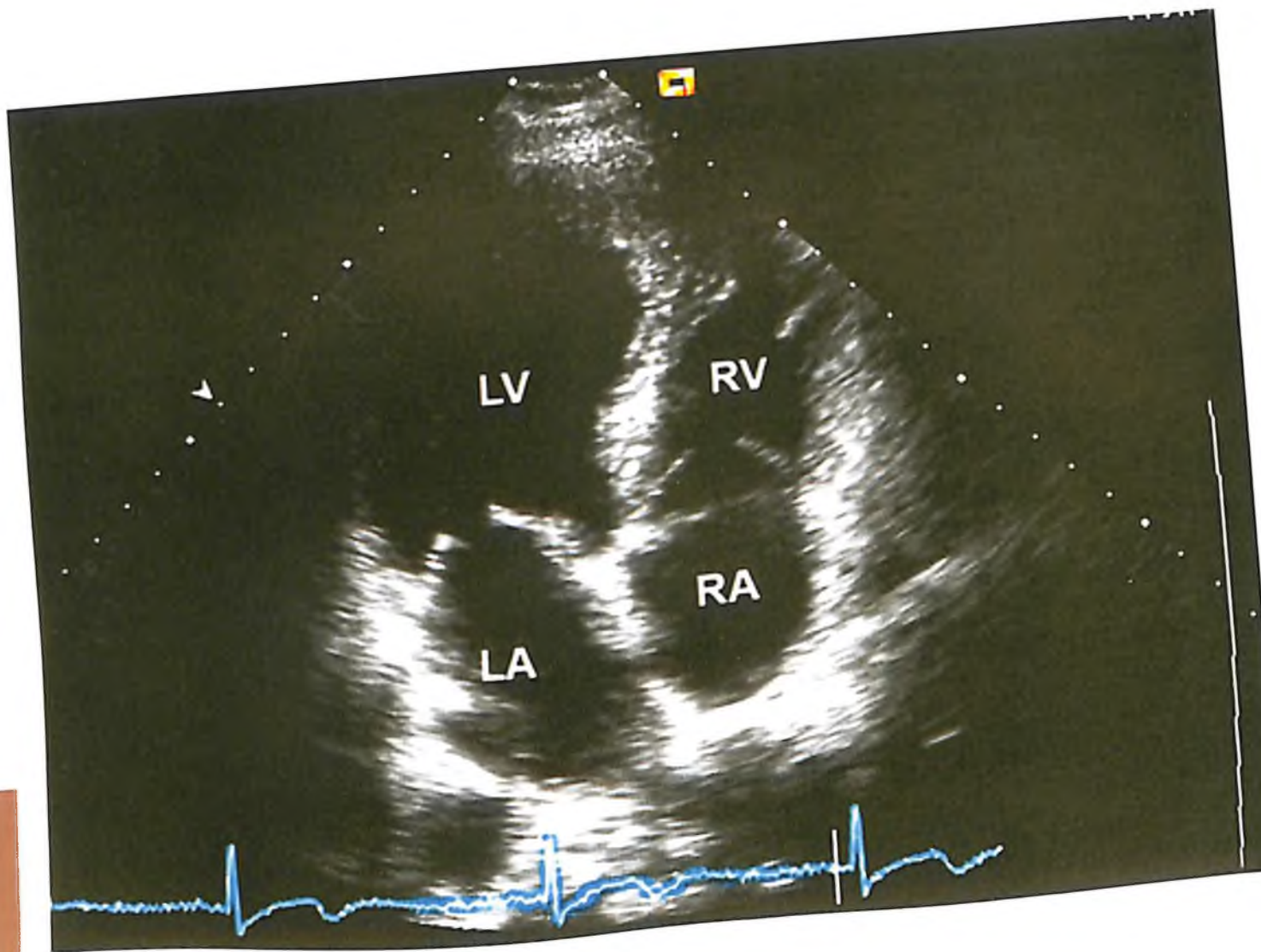
Rasm № 317. Oldingi ko'krak qafasi devorida yurak qopqoqlari proyeksiyasi va ularni eshitish nuqtalari.
Рисунок № 317. Проекция клапанов сердца на переднюю грудную стенку и точки их выслушивания.

1 Tricuspid valve, Right atrioventricular valve

2 Aortic valve

3 Pulmonary valve

4 Mitral valve, Left atrioventricular valve



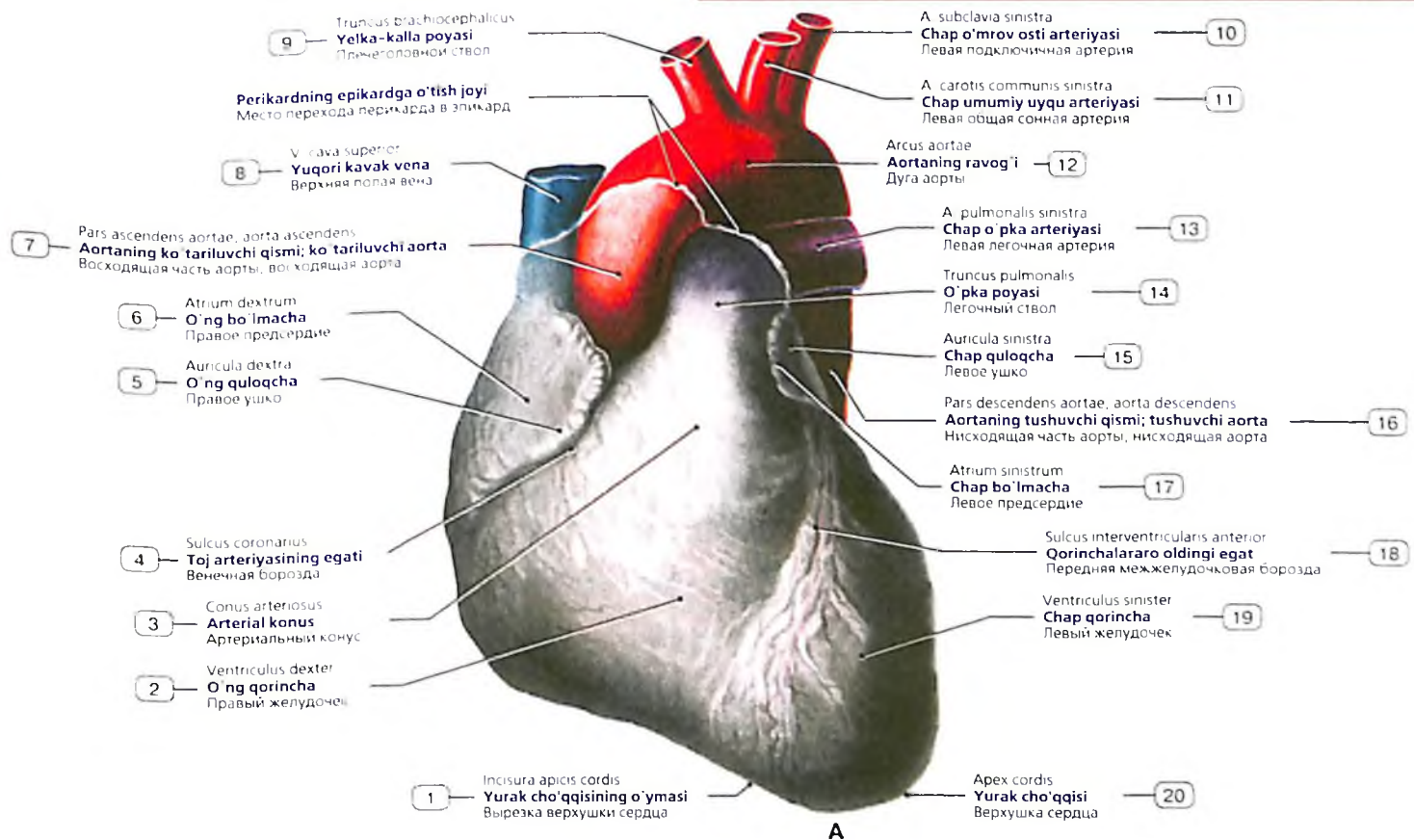
Rasm № 318. Exokardiogramma. Cho'qqili to'rt kamerali holati.
Рисунок № 318. Эхокардиограмма. Верхушечная четырехкамерная позиция.

RV — O'ng qorincha
Правый желудочек

RV — O'ng qorincha
Правый желудочек

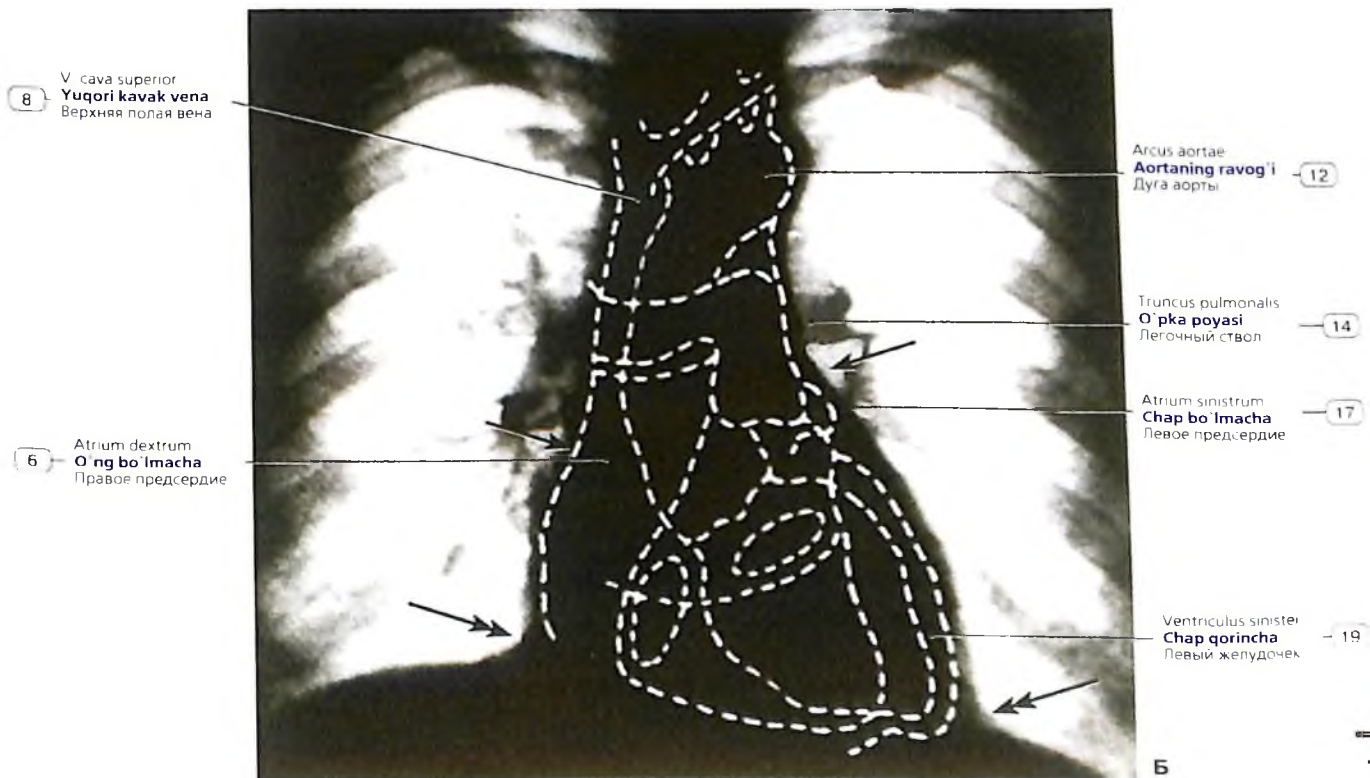
LA — Chap bo'lma
Левое предсердие

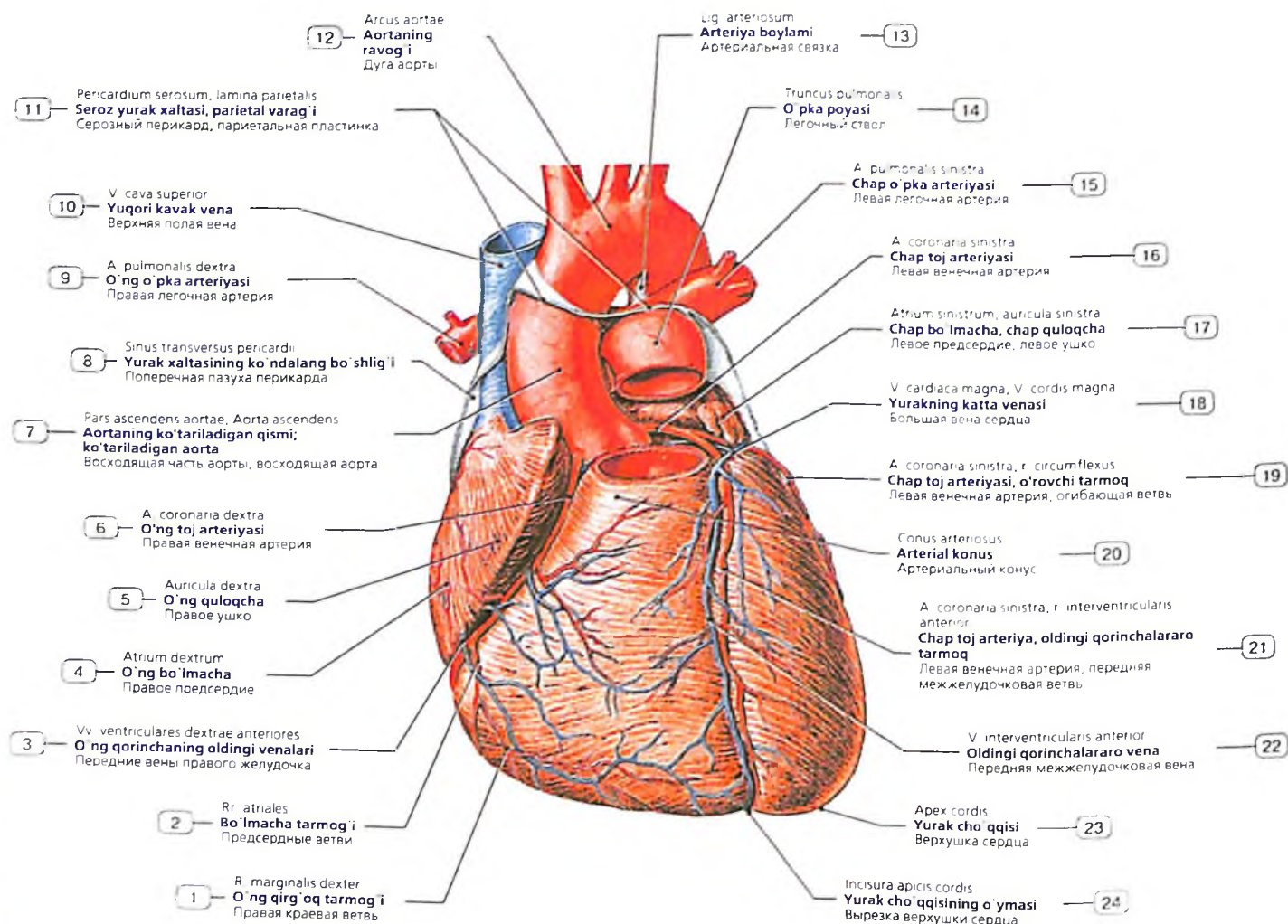
RA — O'ng bo'lma
Правое предсердие



Rasm № 319. Yurak va yirik qon tomirlar rentgen tasvirining shakllanish qonuniyatlari
(A — yurak va yirik qon tomirlarning surati; B — rentgenogrammada yurak soyasining tasviri).
Рисунок № 319. Принцип формирования рентгенологического изображения сердца и крупных сосудов
(A — рисунок сердца и крупных сосудов; B — изображение тени сердца на рентгенограмме).

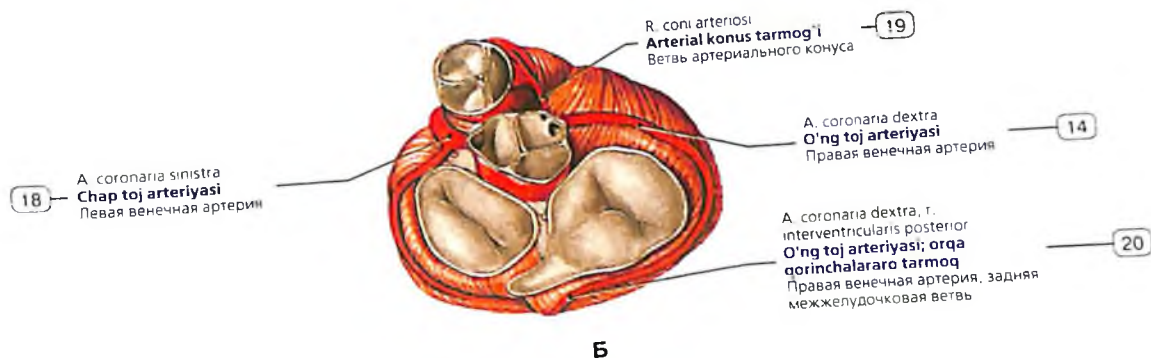
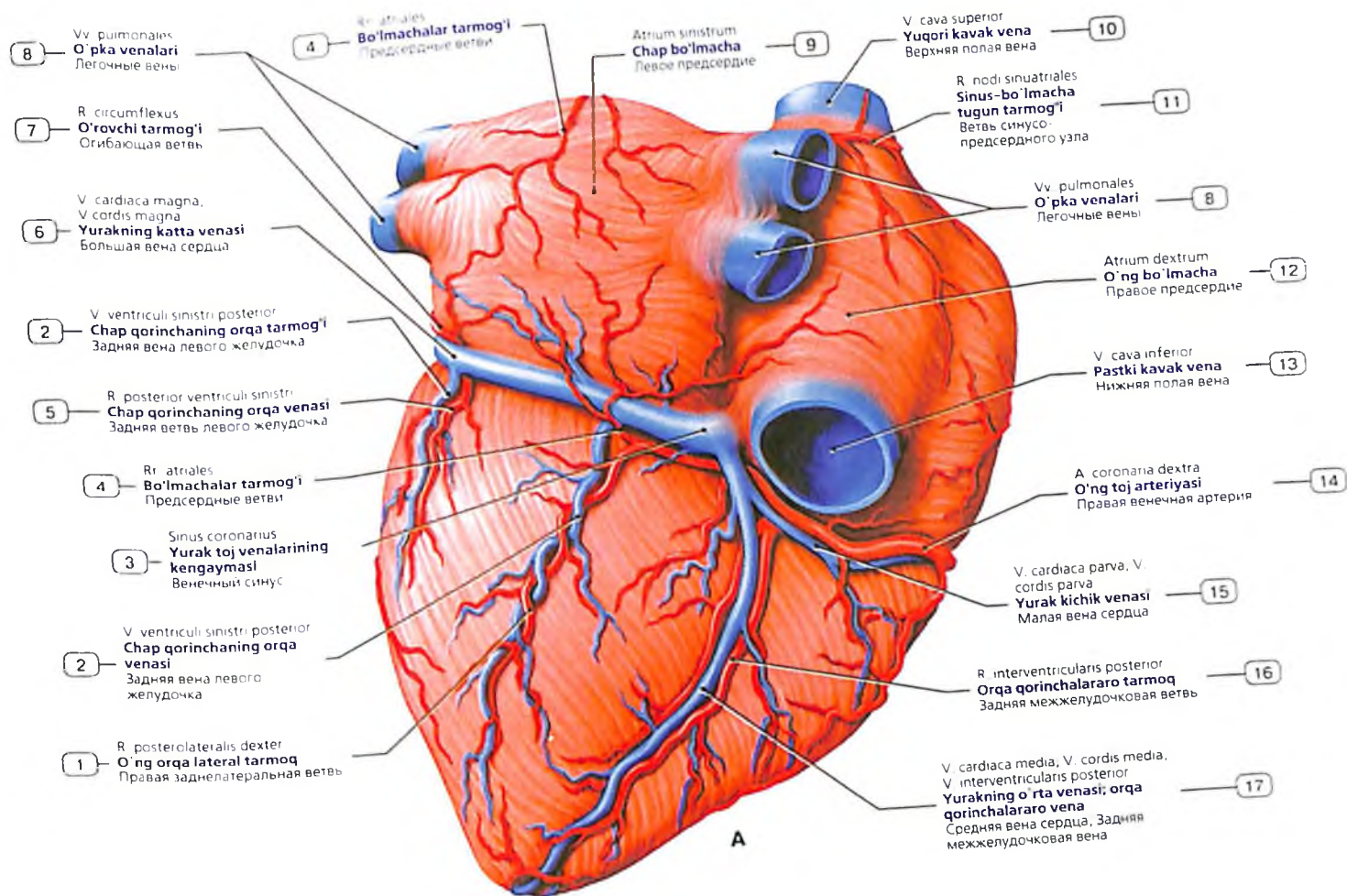
- | | | | |
|-----------------------------------|----------------------------|--------------------------------|--------------------------------------|
| 1. Notch of cardiac apex | 6. Right atrium | 11. Left common carotid artery | 16. Descending aorta |
| 2. Right ventricle | 7. Ascending aorta | 12. Arch of aorta; aortic arch | 17. Left atrium |
| 3. Conus arteriosus; infundibulum | 8. Superior vena cava | 13. Left pulmonary artery | 18. Anterior interventricular sulcus |
| 4. Coronary sulcus | 9. Brachiocephalic trunk | 14. Pulmonary trunk | 19. Left ventricle |
| 5. Right auricle | 10. Left subclavian artery | 15. Left auricle | 20. Apex of heart |





Rasm № 320. Yurakning qon tomirlari, oldindan ko'rinishi.
Рисунок № 320. Сосуды сердца, вид спереди.

- | | | |
|------------------------------------|---------------------------------------|---|
| 1 Right marginal branch | 10 Superior vena cava | 19 Left coronary artery, circumflex branch |
| 2 Atrial branches | 11 Serous pericardium, parietal layer | 20 Conus arteriosus, Infundibulum |
| 3 Anterior right ventricular veins | 12 Arch of aorta, aortic arch | 21 Left coronary artery, anterior interventricular branch |
| 4 Right atrium | 13 Ligamentum arteriosum | 22 Anterior interventricular vein |
| 5 Right auricle | 14 Pulmonary trunk | 23 Apex of heart |
| 6 Right coronary artery | 15 Left pulmonary artery | 24 Notch of cardiac apex |
| 7 Ascending aorta | 16 Left coronary artery | |
| 8 Transverse pericardial sinus | 17 Left atrium, left auricle | |
| 9 Right pulmonary artery | 18 Great cardiac vein | |



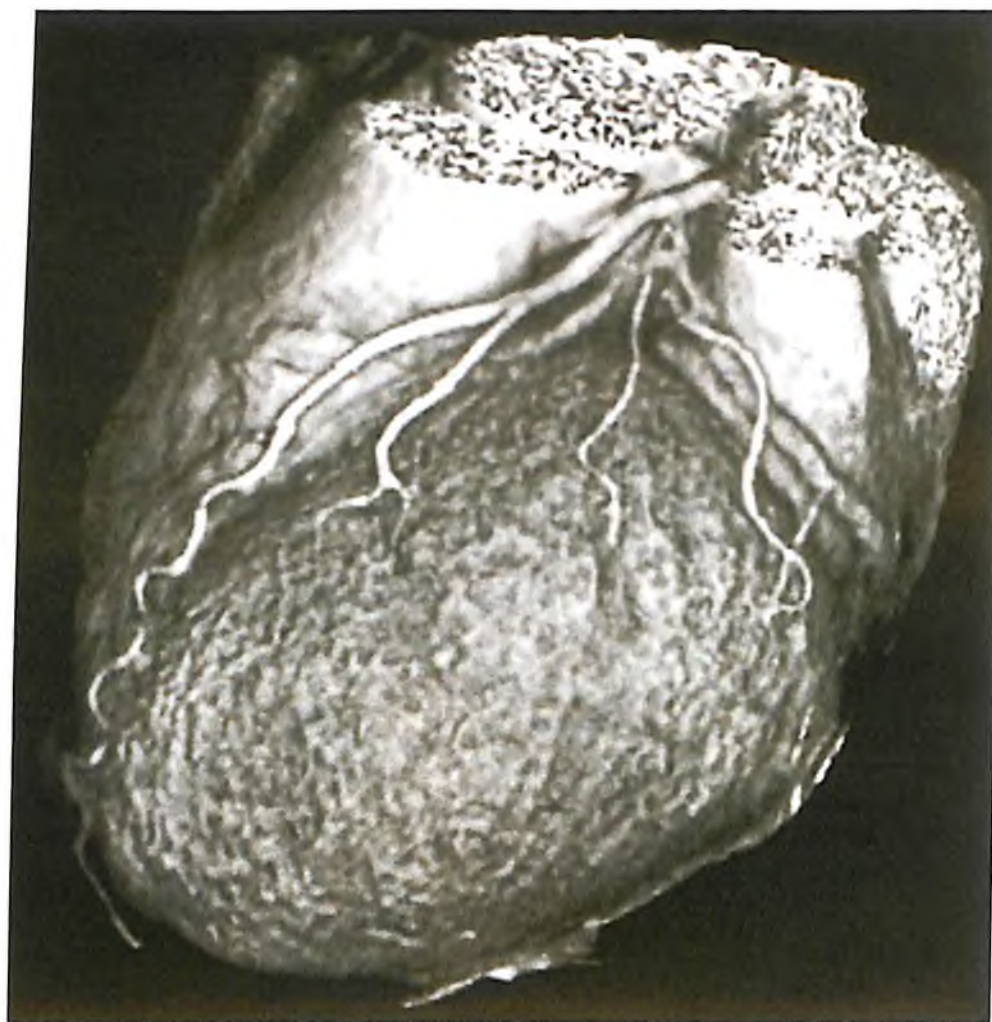
Rasm № 321. Yurakning qon tomirlari (A — orqadan ko'rinishi; B — yurak qorpoqlari sohasida ko'ndalang kesmasi).

Рисунок № 321. Сосуды сердца (А — вид сзади; Б — поперечный разрез на уровне клапанов).

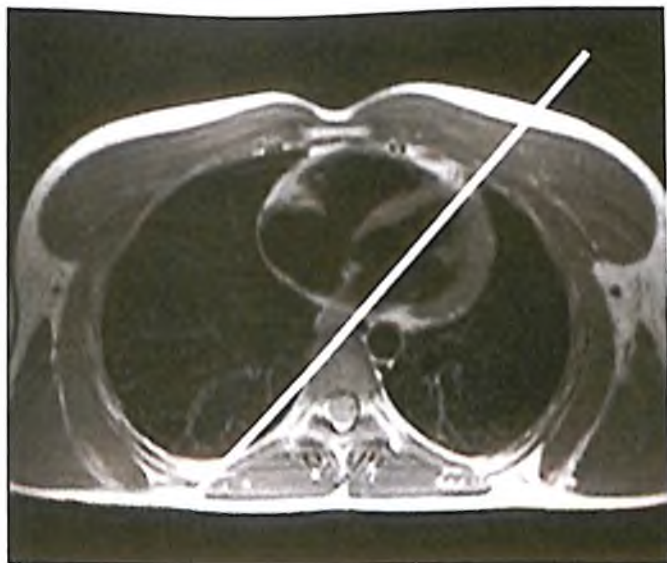
- 1 Right posterolateral branch
- 2 Posterior vein of left ventricle
- 3 Coronary sinus
- 4 Atrial branches
- 5 Posterior left ventricular branch
- 6 Great cardiac vein
- 7 Circumflex branch

- 8 Pulmonary veins
- 9 Left atrium
- 10 Superior vena cava
- 11 Sinu-atrial nodal branch
- 12 Right atrium
- 13 Inferior vena cava
- 14 Right coronary artery

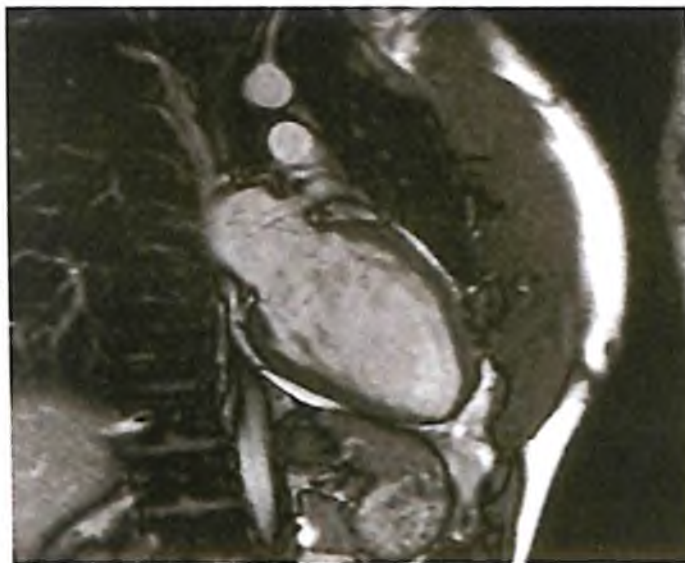
- 15 Small cardiac vein
- 16 Posterior interventricular branch
- 17 Middle cardiac vein, Posterior interventricular vein
- 18 Left coronary artery
- 19 Conus of branch
- 20 Right coronary artery, posterior interventricular branch



Rasm № 322. Tojsimon arteriyalar KTA. Norma. Uch o'lchamli rekonstruktsiyasi.
Рисунок № 322. КТА коронарных артерий. Норма. Трехмерная реконструкция

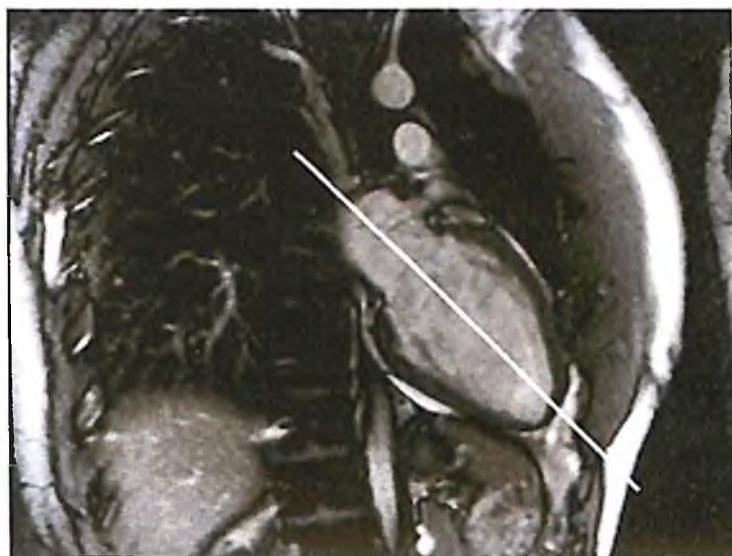


A



Б

Rasm № 323. Kesma sathlarining holati (A), ikki o'lchamli tasvirni olish uchun (B).
Рисунок № 323. Позиционирование плоскости среза (A) для получения двухкамерного изображения (Б).

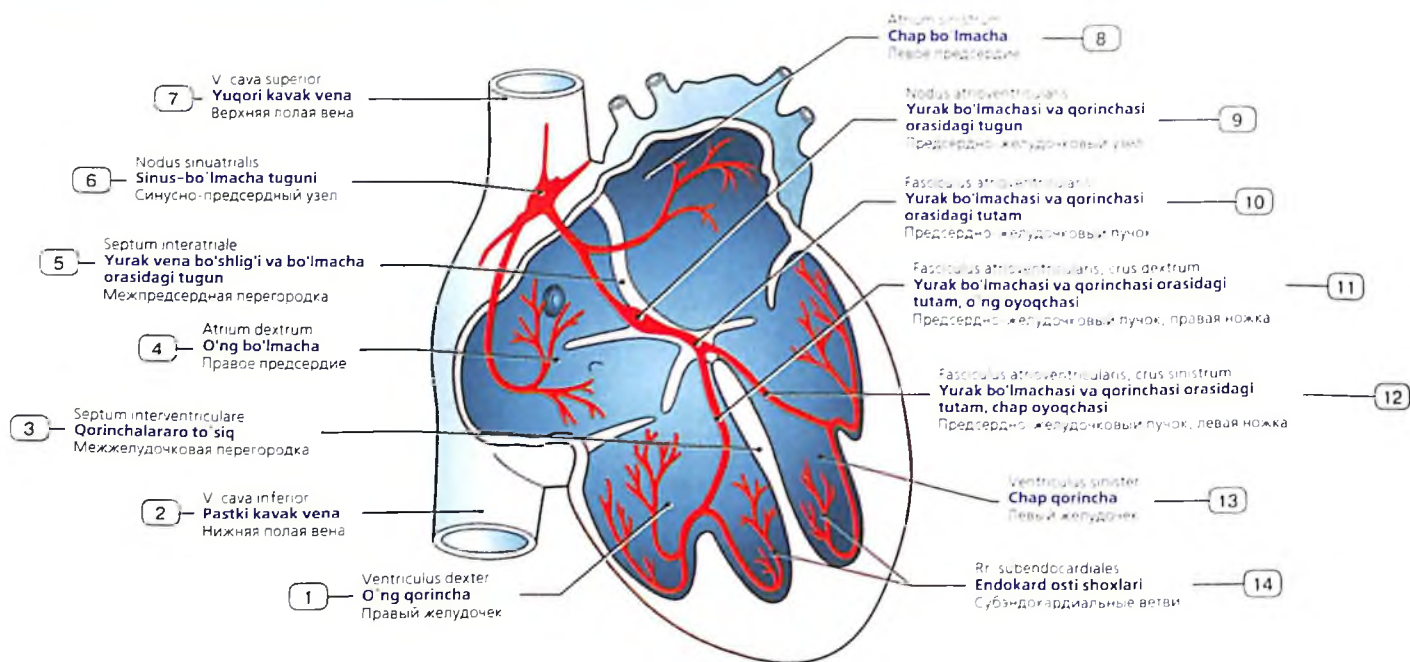


A



Б

Rasm № 324. Kesma sathlarining holati (A), chap qorincha o'qi uzunligidagi tasvirni olish uchun (B).
Рисунок № 324. Позиционирование плоскости среза (A) для получения изображения по длинной оси ЛЖ — левого желудочка (Б).

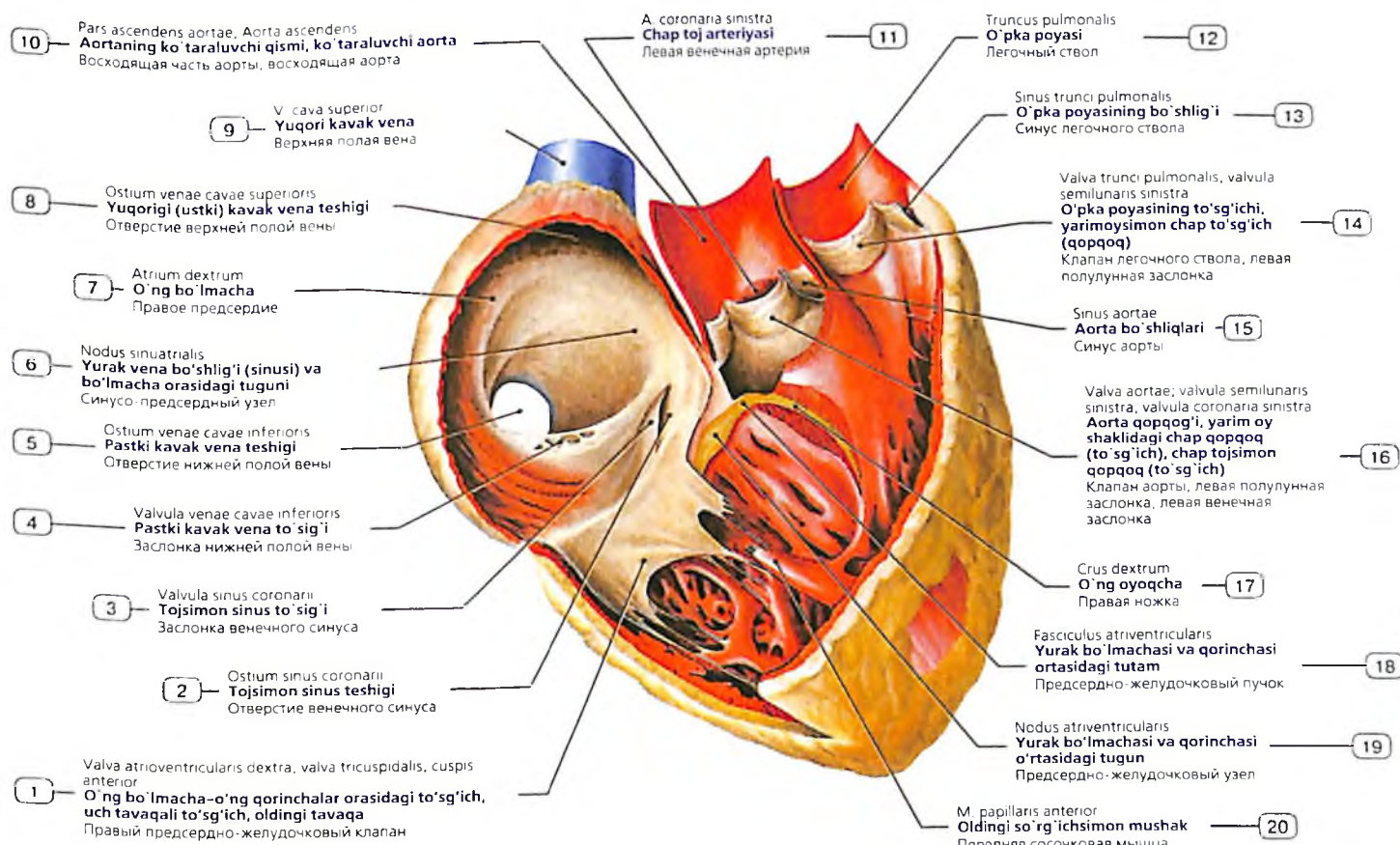


Rasm № 325. Yurakning o'tkazuv tizimi (chizma).
Рисунок № 325. Проводящая система сердца (схема).

- | | | |
|---------------------------|----------------------------|--|
| 1 Right ventricle | 6 Sinu-atrial node | 11 Atrioventricular bundle, right crus |
| 2 Inferior vena cava | 7 Superior vena cava | 12 Atrioventricular bundle, left crus |
| 3 Interventricular septum | 8 Left atrium | 13 Left ventricle |
| 4 Right atrium | 9 Atrioventricular node | 14 Subendocardial branches |
| 5 Interatrial septum | 10 Atrioventricular bundle | |



Rasm № 326. Yurak o'tkazuv tizimining endokard osti tarmoqlari (Purkinye tolalari), skanerli elektrogramma.
Рисунок № 326. Субэндокардиальные ветви проводящей системы сердца (волокна Пуркинье), сканирующая электронограмма.

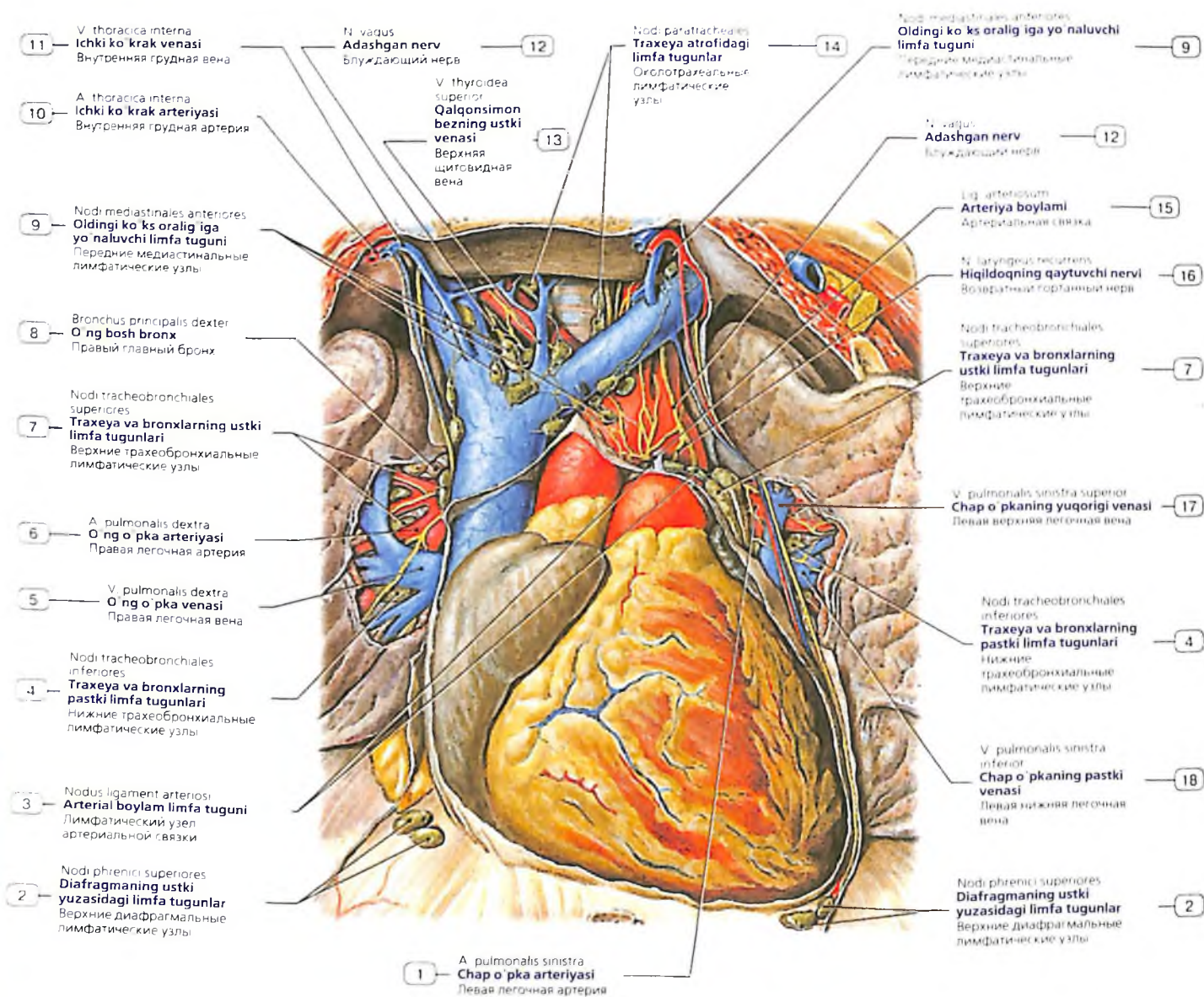


Rasm № 327. Yurakning o'tkazuv tizimi (umumiy ko'rinishi).
Рисунок № 327. Проводящая система сердца (общий вид).

- 1 Right atrioventricular valve, Tricuspid valve; anterior cusp
- 2 Opening of coronary sinus
- 3 Valve of coronary sinus
- 4 Valve of inferior vena cava
- 5 Opening of inferior vena cava
- 6 Sinu atrial node

- 7 Right atrium
- 8 Opening of superior vena cava
- 9 Superior vena cava
- 10 Ascending aorta
- 11 Left coronary artery
- 12 Pulmonary trunk
- 13 Sinus of pulmonary trunk

- 14 Pulmonary valve, left semilunar cusp
- 15 Aortic sinus
- 16 Aortic valve, left semilunar cusp, left coronary cusp
- 17 Right crus
- 18 Atrioventricular bundle
- 19 Atrioventricular node
- 20 Anterior papillary muscle

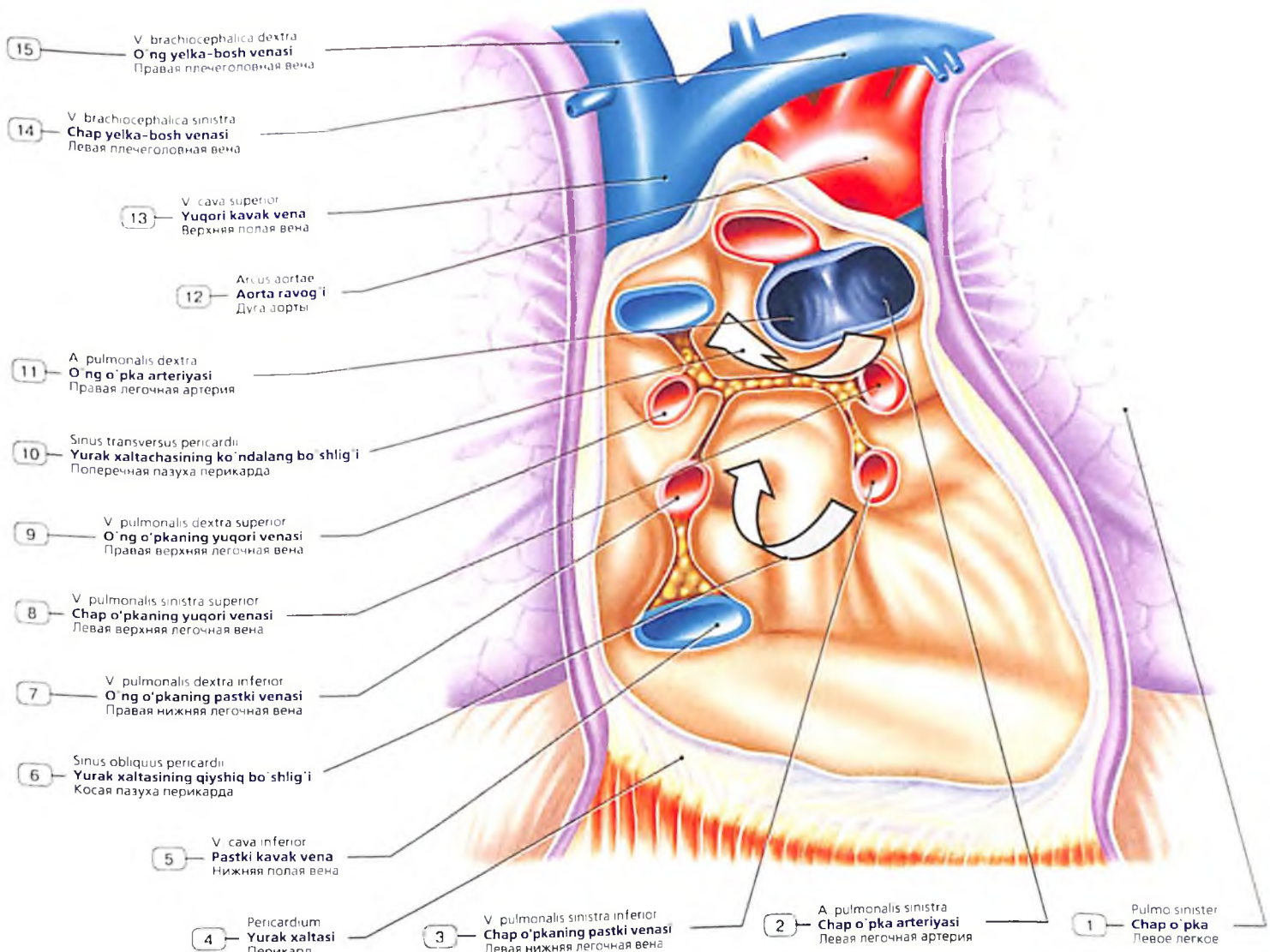


Rasm № 328. Perikard bo'shlig'ida yurak, oldindan ko'rinishi.
Рисунок № 328. Сердце в полости перикарда, вид спереди.

1. Left pulmonary artery
2. Superior diaphragmatic nodes
3. Node of ligamentum arteriosum
4. Inferior tracheobronchial nodes
5. Right pulmonary vein
6. Right pulmonary artery

7. Superior tracheobronchial nodes
8. Right main bronchus
9. Anterior mediastinal nodes
10. Internal thoracic artery
11. Internal thoracic vein
12. Vagus nerve

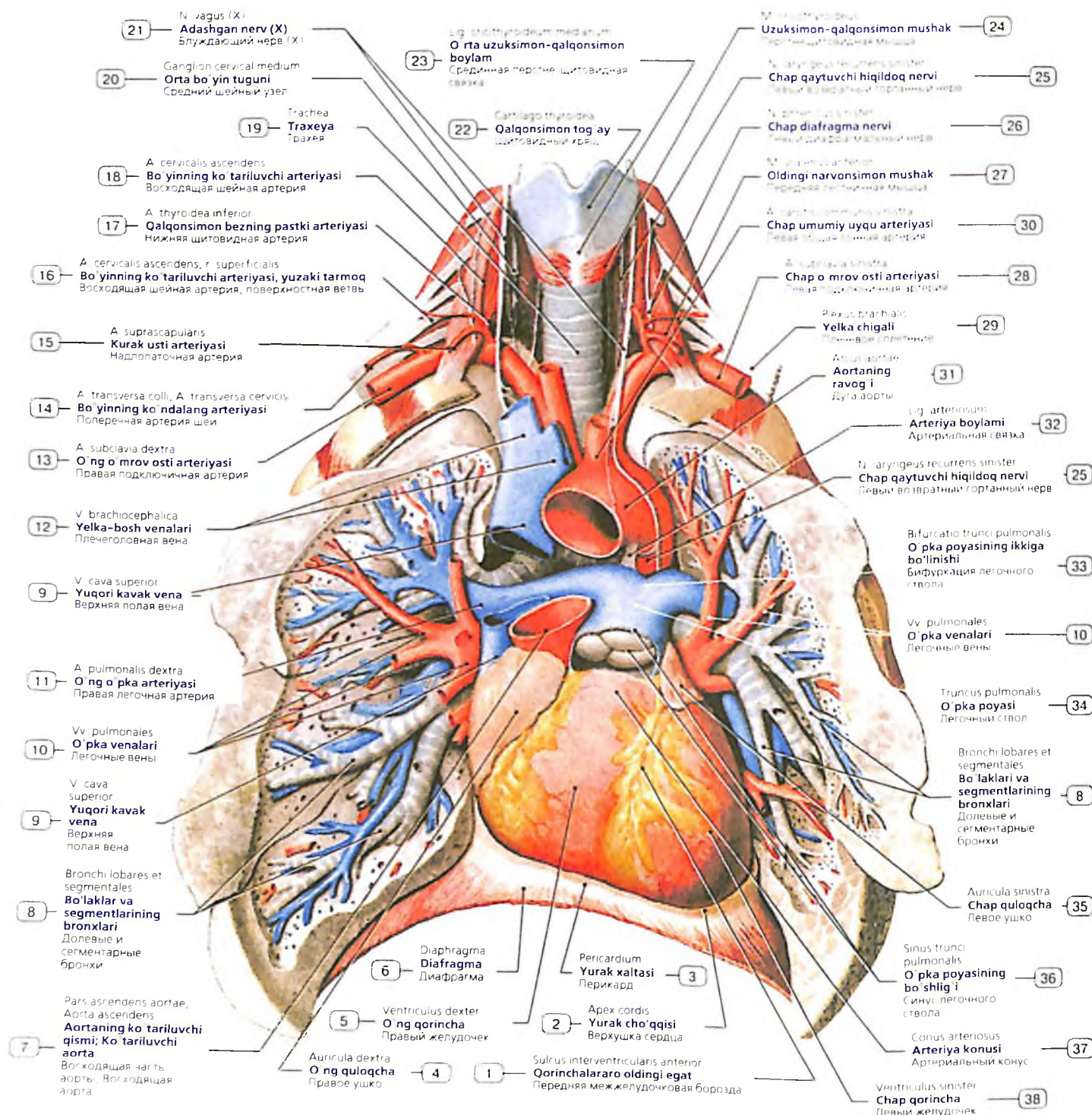
13. Superior thyroid vein
14. Paratracheal nodes
15. Ligamentum arteriosum
16. Recurrent laryngeal nerve
17. Left superior pulmonary vein
18. Left inferior pulmonary vein



Rasm № 329. Yurak xaltasi bo'shlig'i va undagi sinuslar, yurak xaltasi orqa devorining ko'rinishi, yurak olib tashlangan.

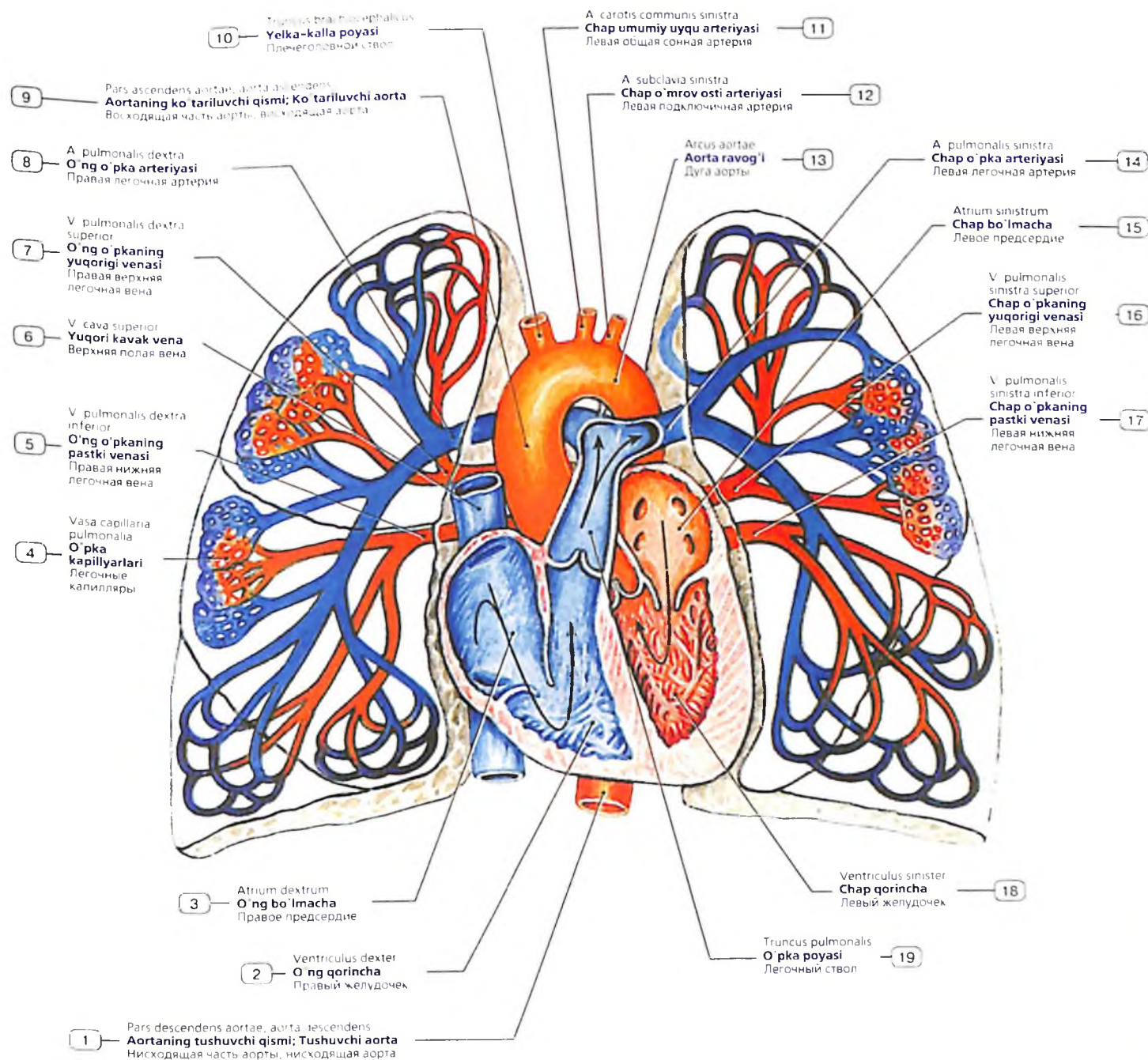
Рисунок № 329. Полость перикарда и его синусы, вид на заднюю стенку полости перикарда, сердце удалено.

- | | |
|---------------------------------|---------------------------------|
| 1 Left lung | 9 Right superior pulmonary vein |
| 2 Left pulmonary artery | 10 Transverse pericardial sinus |
| 3 Left inferior pulmonary vein | 11 Right pulmonary artery |
| 4 Pericardium | 12 Arch of aorta, aortic arch |
| 5 Inferior vena cava | 13 Superior vena cava |
| 6 Oblique pericardial sinus | 14 Left brachiocephalic vein |
| 7 Right inferior pulmonary vein | 15 Right brachiocephalic vein |
| 8 Left superior pulmonary vein | |



Rasm № 330. Kichik qon aylanish doirasining qon tomirlari, oldindan ko'rinishi.
Рисунок № 330. Сосуды малого круга кровообращения, вид спереди.

- | | | | |
|-------------------------------------|---|---|------------------------------------|
| 1. Anterior interventricular sulcus | 11. Right pulmonary artery | 20. Middle cervical ganglion | 30. Left common carotid artery |
| 2. Apex of heart | 12. Brachiocephalic vein | 21. Vagus nerve | 31. Arch of aorta, aortic arch |
| 3. Pericardium | 13. Right subclavian artery | 22. Thyroid cartilage | 32. Recurrent laryngeal nerve |
| 4. Right atrium | 14. Transverse cervical artery | 23. Median cricoid ligament | 33. Bifurcation of pulmonary trunk |
| 5. Right ventricle | 15. Suprascapular artery | 24. Cricoid | 34. Pulmonary trunk |
| 6. Diaphragm | 16. Ascending cervical artery, superficial branch | 25. Left recurrent laryngeal nerve | 35. Left auricle |
| 7. Ascending aorta | 17. Inferior thyroid artery | 26. Left phrenic nerve | 36. Sinus of pulmonary trunk |
| 8. Lobar and segmental bronchi | 18. Ascending cervical artery | 27. Scalenus anterior, anterior scalene | 37. Conus arteriosus, infundibulum |
| 9. Superior vena cava | 19. Trachea | 28. Left subclavian artery | 38. Left ventricle |
| 10. Pulmonary vein | | 29. Brachial plexus | |

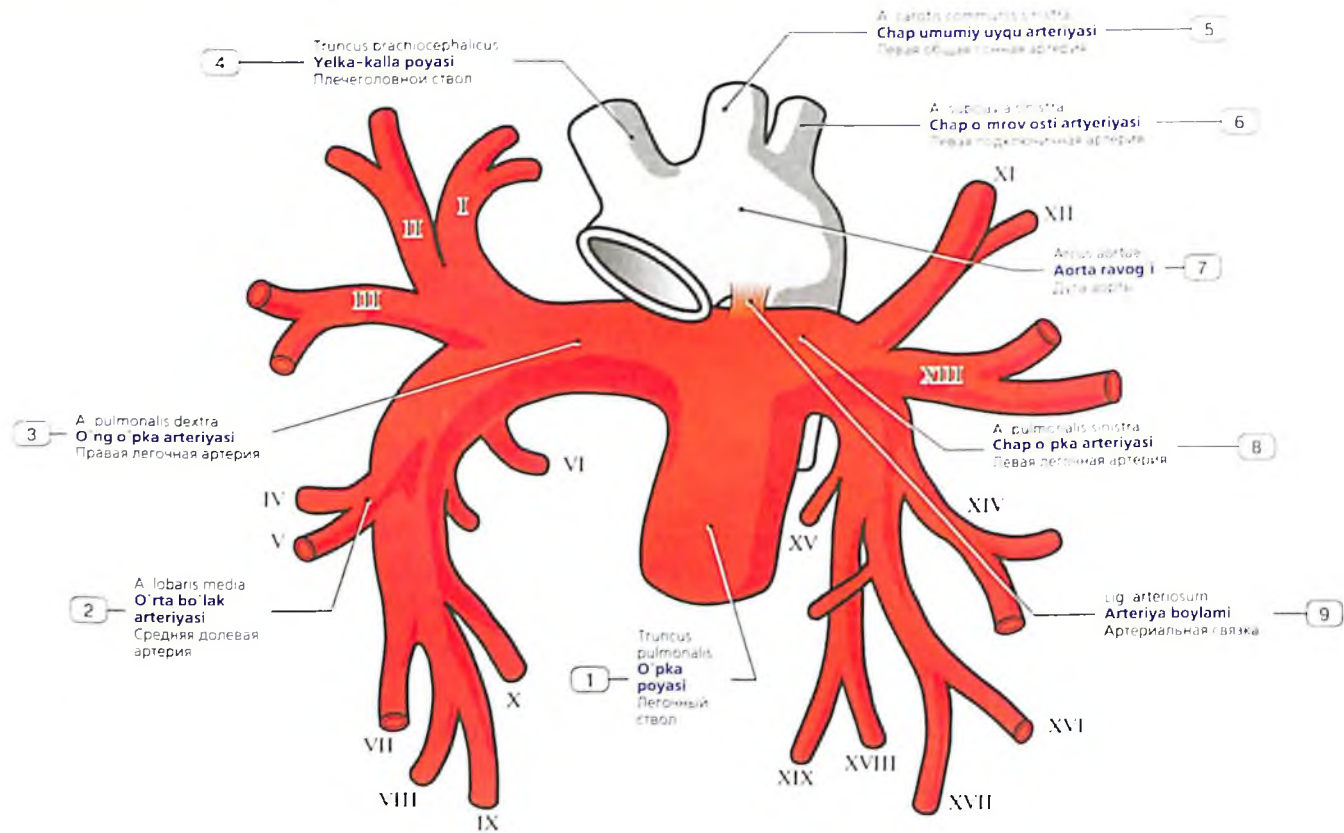


Rasm № 331. Kichik qon aylanish doirasining qon tomirlari (chizma).
Рисунок № 331. Сосуды малого круга кровообращения (схема).

- 1 Descending aorta
- 2 Right ventricle
- 3 Right atrium
- 4 Pulmonary capillaries
- 5 Right inferior pulmonary vein
- 6 Superior vena cava
- 7 Right superior pulmonary vein

- 8 Right pulmonary artery
- 9 Ascending aorta
- 10 Brachiocephalic trunk
- 11 Left common carotid artery
- 12 Left subclavian artery
- 13 Arch of aorta, aortic arch
- 14 Left pulmonary artery

- 15 Left atrium
- 16 Left superior pulmonary vein
- 17 Left inferior pulmonary vein
- 18 Left ventricle
- 19 Pulmonary trunk

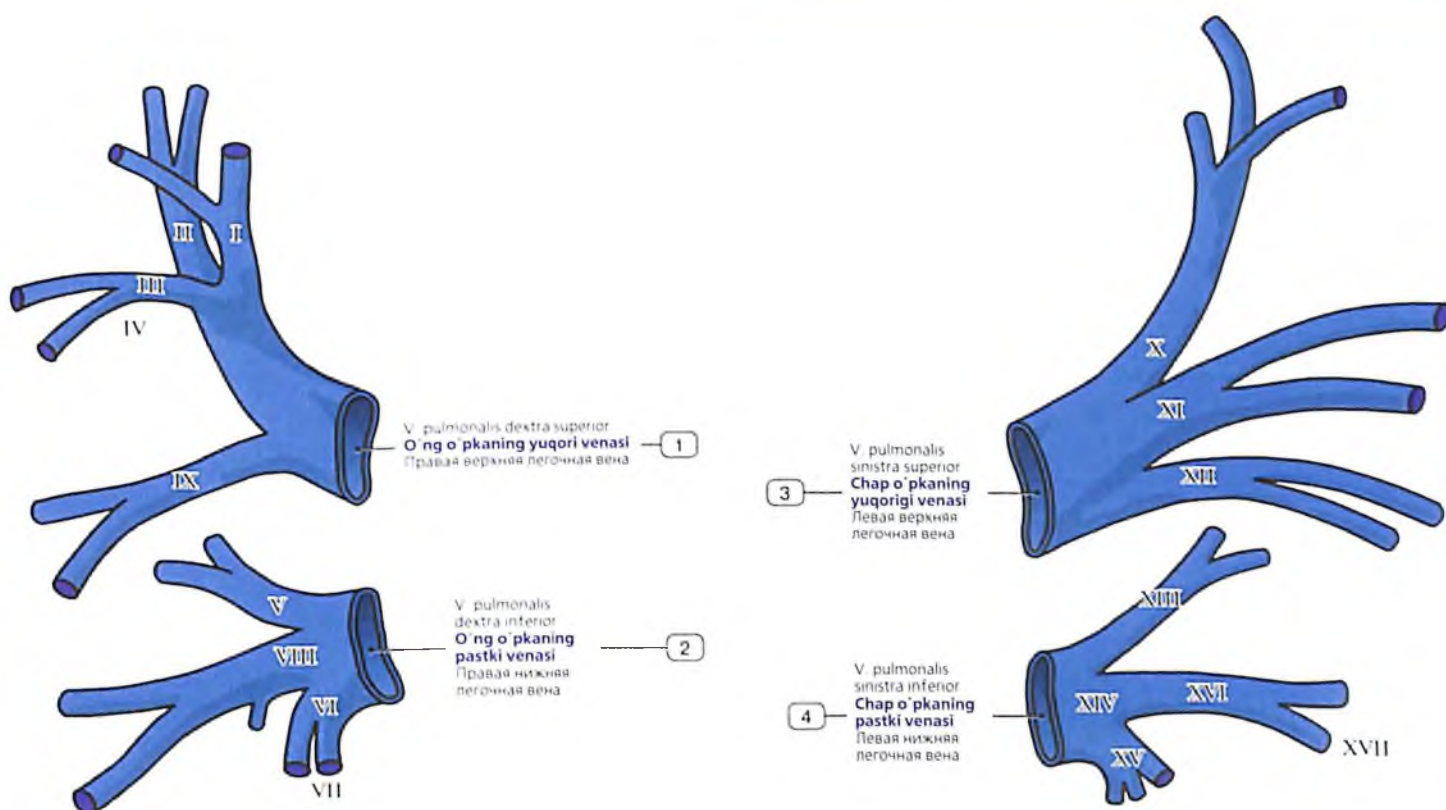


O'pka arteriyalari (kichik qon aylanish doirasi arteriyalari) va ularning shoxlari

O'ng o'pka O'ng o'pka arteriyasi	Chap o'pka Chap o'pka arteriyasi
Yuqori bo'lak arteriyalari: I Cho'qqidagi segment arteriyasi II Orqa segment arteriyasi III Oldingi segment arteriyasi	Yuqori bo'lak arteriyalari: XI Cho'qqidagi segment arteriyasi XII Orqa segment arteriyasi XIII Oldingi segment arteriyasi XIV Tilcha arteriyasi
O'rta bo'lak arteriyalari: IV Lateral segment arteriyasi V Medial segment arteriyasi	
Pastki bo'lak arteriyalari: VI Ustki segment arteriyasi VII O'pka asosining oldingi segment arteriyasi VIII O'pka asosining lateral segment arteriyasi IX O'pka asosining orqa segment arteriyasi X O'pka asosining medial segment arteriyasi	Pastki bo'lak arteriyalari: XV Ustki segment arteriyasi XVI O'pka asosining oldingi segment arteriyasi XVII O'pka asosining lateral segment arteriyasi XVIII O'pka asosining orqa segment arteriyasi XIX O'pka asosining medial segment arteriyasi

Rasm № 332. Kichik qon aylanish doirasining arteriyalari (chizma).
Рисунок № 332. Артерии малого круга кровообращения (схема).

1. Pulmonary trunk
2. Middle lobar artery
3. Right pulmonary artery
4. Brachiocephalic trunk
5. Left common carotid artery
6. Left subclavian artery
7. Arch of aorta, aortic arch
8. Left pulmonary artery
9. Ligamentum arteriosum

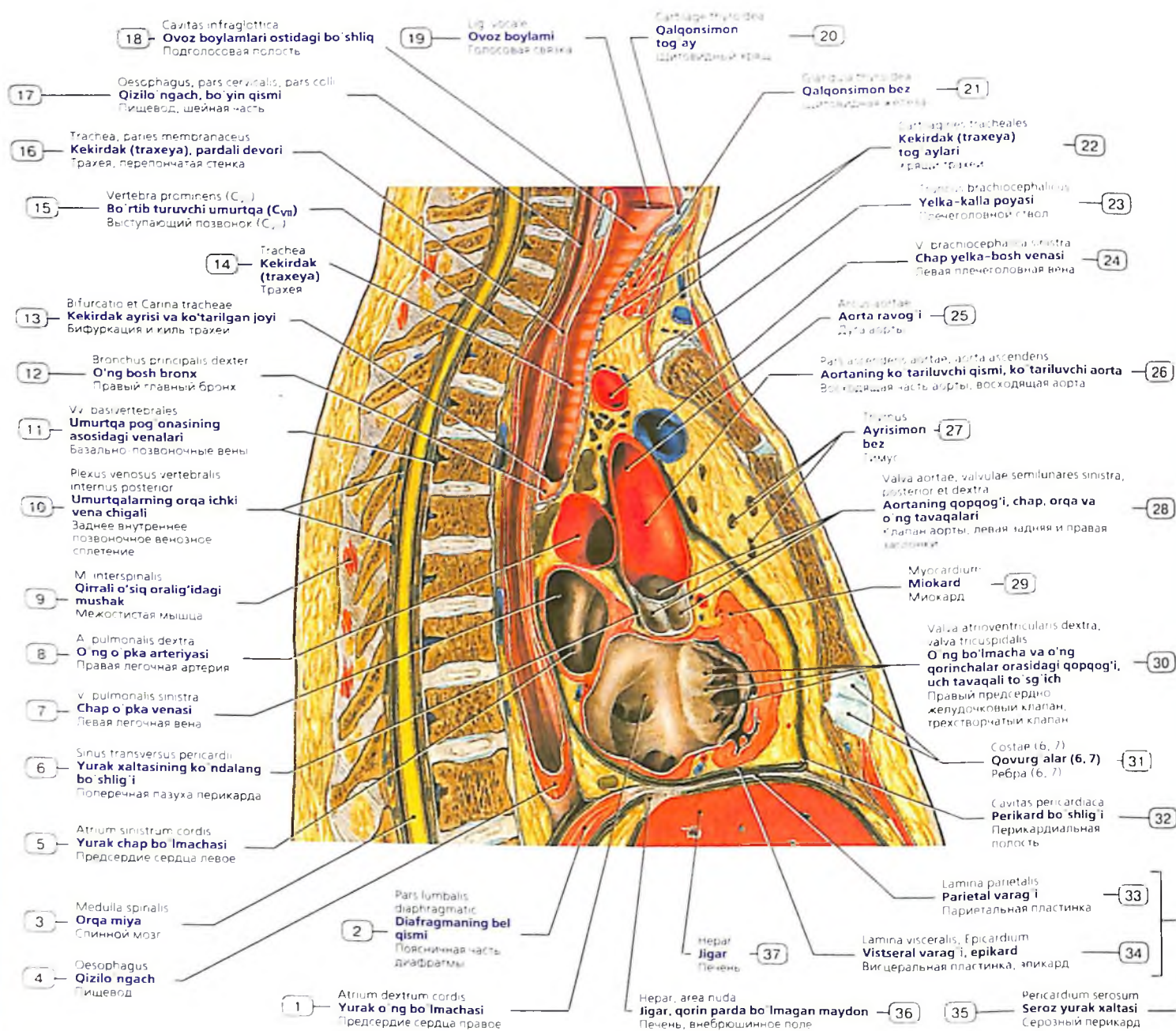


O'pka venalari (kichik qon aylanish doirasi venalari) va ularning shoxlari

O'ng o'pka O'ng o'pka venalari	Chap o'pka Chap o'pka venalari
O'ng o'pkaning yuqorigi venasi I Cho'qqi venasi II Orqa vena III Oldingi vena IV O'rta bo'lak venasi	Chap o'pkaning yuqorigi venasi: X Chap o'pka cho'qqisining orqa venasi XI Oldingi vena XII O'pka tilchasining venasi
O'ng o'pkaning pastki venasi V Yuqorigi vena VI O'pka asosining umumiy venasi VII O'pka asosining pastki venasi VIII O'pka asosining yuqorigi venasi IX O'pka asosining oldingi venasi	Chap o'pkaning pastki venasi XIII Yuqorigi vena XIV O'pka asosining umumiy venasi XV O'pka asosining pastki venasi XVI O'pka asosining yuqorigi venasi XVII O'pka asosining oldingi venasi

Rasm № 333. Kichik qon aylanish doirasining venalari (chizma).
Рисунок № 333. Вены малого круга кровообращения (схема).

- 1 Right superior pulmonary vein
- 2 Right inferior pulmonary vein
- 3 Left superior pulmonary vein
- 4 Left inferior pulmonary vein



Rasm № 334. Ko'ks oralig'ining tuzilishi (ko'krak qafasining sagittal kesmasi).
Рисунок № 334. Строение средостения (сagittalное сечение грудной клетки).

- 1 Right atrium
- 2 Lumbar part
- 3 Spinal cord
- 4 Oesophagus
- 5 Left atrium
- 6 Transverse pericardial sinus
- 7 Left pulmonary vein
- 8 Right pulmonary artery
- 9 Interspinalis
- 10 Posterior internal vertebral venous plexus

- 11 Basivertebral veins
- 12 Right main bronchus
- 13 Tracheal bifurcation and Carina of trachea
- 14 Trachea
- 15 Vertebra prominens (C_{VI})
- 16 Trachea, membranous wall
- 17 Oesophagus, cervical part
- 18 Infraglottic cavity
- 19 Vocal ligament
- 20 Thyroid cartilage
- 21 Thyroid gland

- 22 Tracheal cartilages
- 23 Brachiocephalic trunk
- 24 Left brachiocephalic vein
- 25 Arch of aorta, aortic arch
- 26 Ascending aorta
- 27 Thymus
- 28 Aortic valve, Left, posterior and right semilunar cusps
- 29 Myocardium
- 30 Tricuspid valve, right atrioventricular valve
- 31 Ribs

- 32 Pericardial cavity
- 33 Parietal layer
- 34 Visceral layer, epicardium
- 35 33+34 serous pericardium
- 36 Liver, bare area
- 37 Liver

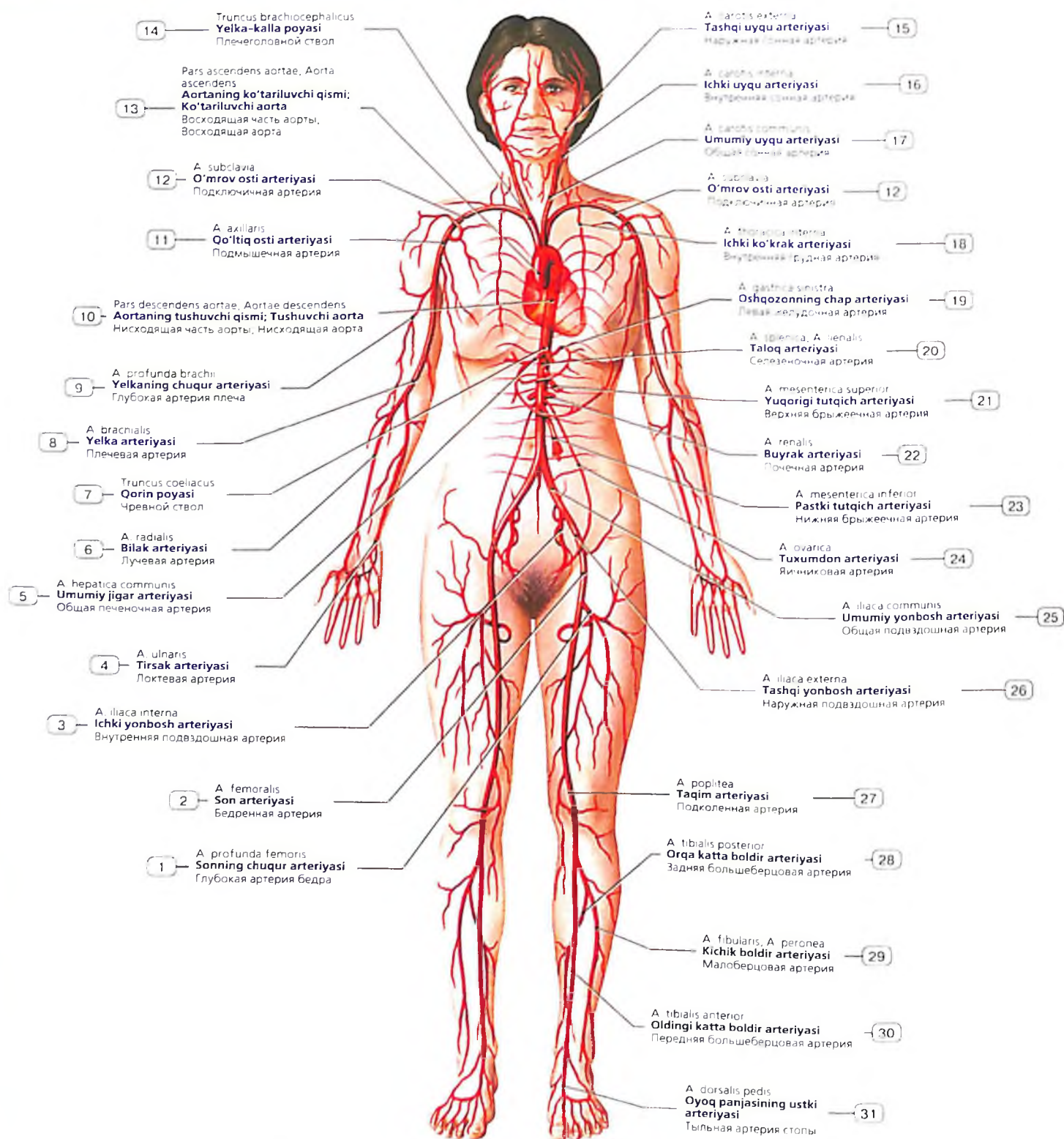


АРТЕРИИ

**ARTERIYA QON-
TOMIRLAR**

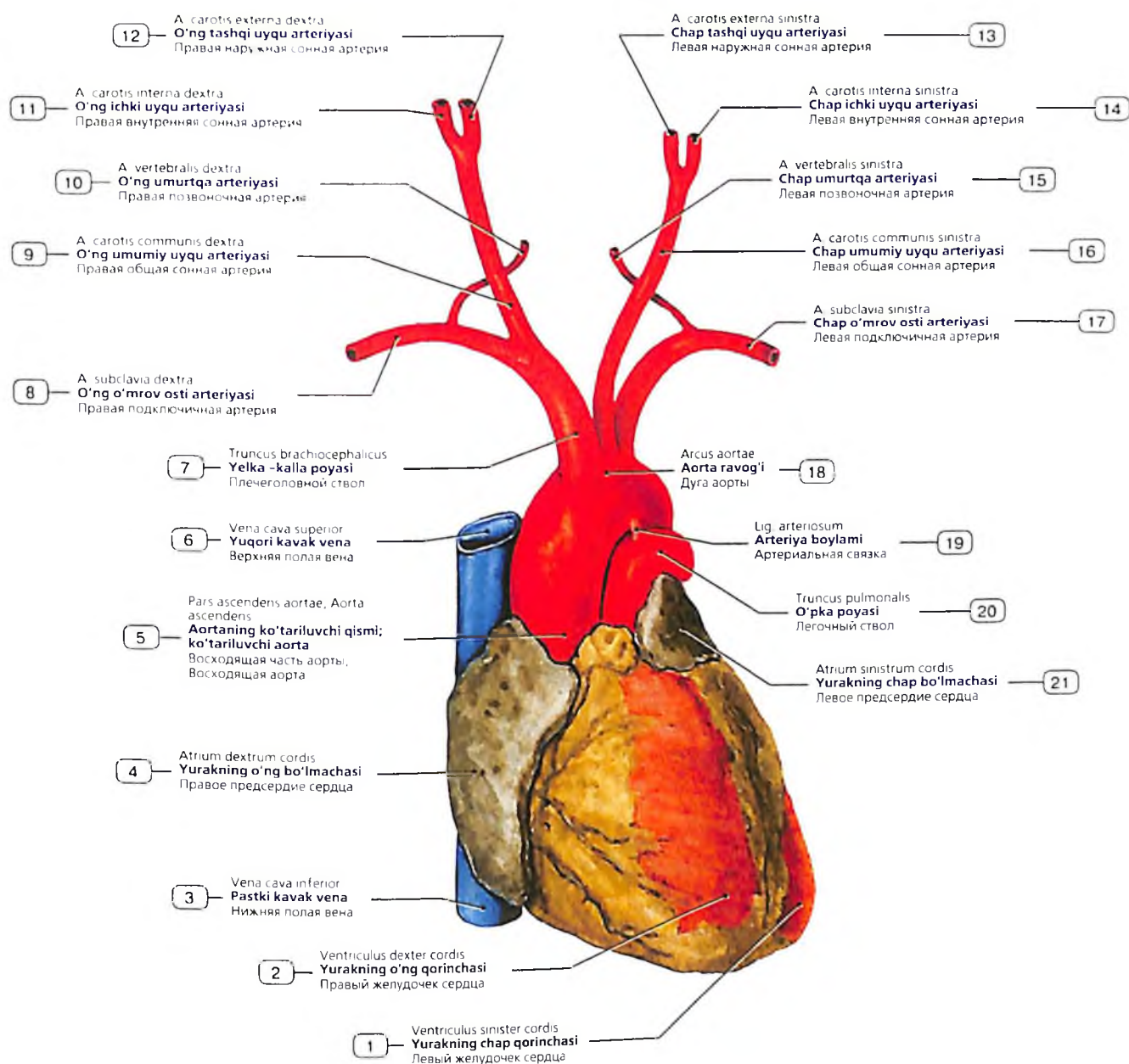
ARTERIES





Rasm № 335. Katta qon aylanish doirasi arteriyalari (chizma).
Рисунок № 335. Артерии большого круга кровообращения (схема).

- | | | | | |
|-------------------------|---------------------------|-----------------------------|-------------------------------|----------------------------|
| 1 Deep artery of thigh | 8 Brachial artery | 14 Brachiocephalic trunk | 21 Superior mesenteric artery | 28 Posterior artery |
| 2 Femoral artery | 9 Profunda brachii artery | 15 External carotid artery | 22 Renal artery | 29 Posterior tibial artery |
| 3 Internal iliac artery | 10 Deep artery of arm | 16 Internal carotid artery | 23 Inferior mesenteric artery | 30 Anterior tibial artery |
| 4 Ulnar artery | 11 Descending aorta | 17 Common carotid artery | 24 Ovarian artery | 31 Dorsalis pedis artery |
| 5 Common hepatic artery | 12 Axillary artery | 18 Internal thoracic artery | 25 Common iliac artery | |
| 6 Radial artery | 13 Subclavian artery | 19 Left gastric artery | 26 External iliac artery | |
| 7 Truncus | 14 Ascending aorta | 20 Splenic artery | 27 Popliteal artery | |

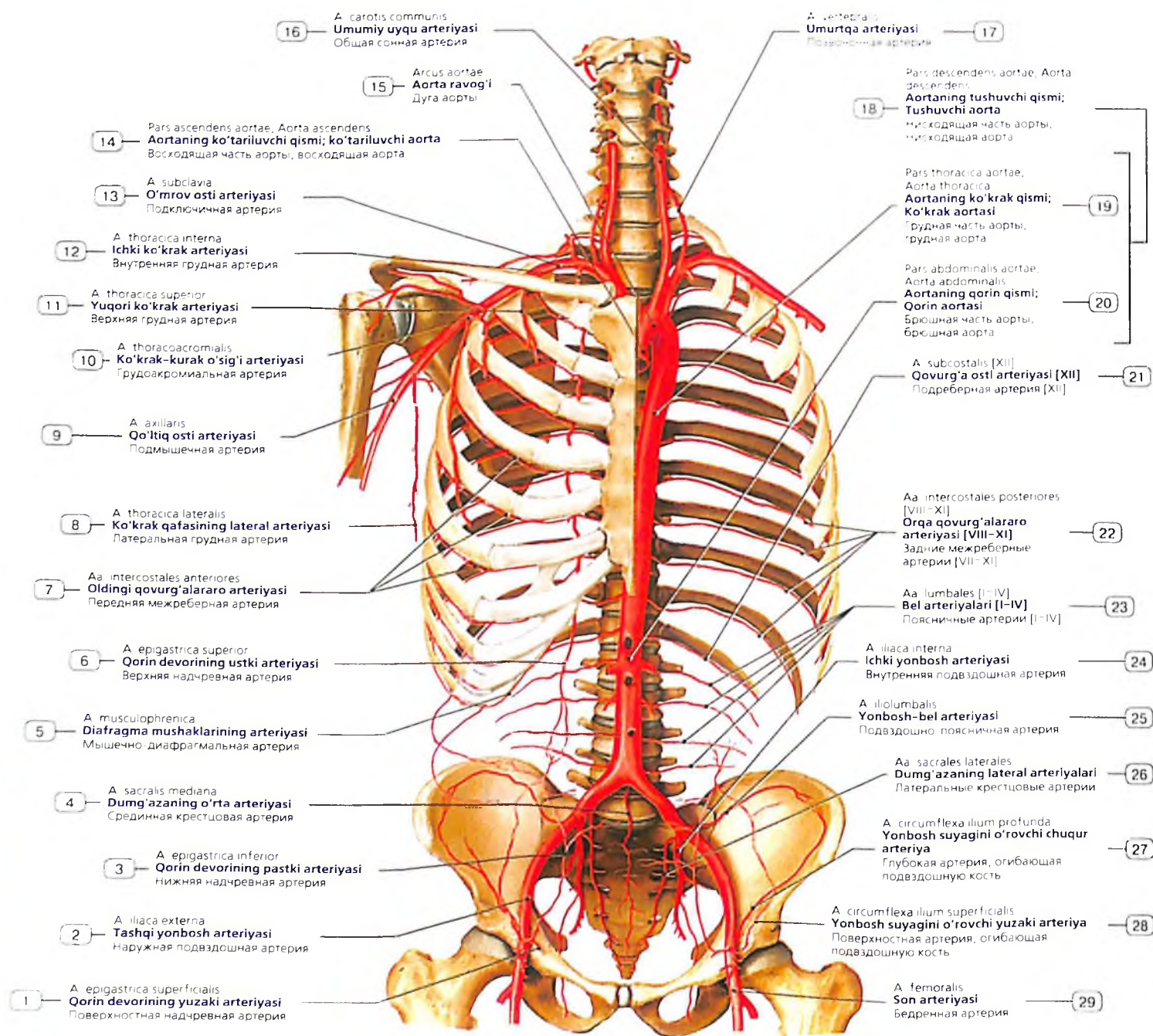


Rasm № 336. Aortaning ravog'i va uning tarmoqlari.
Рисунок № 336. Дуга аорты и ее ветви.

- 1 Heart, left ventricle
- 2 Heart, right ventricle
- 3 Inferior vena cava
- 4 Heart, right atrium
- 5 Ascending aorta
- 6 Superior vena cava
- 7 Brachiocephalic trunk

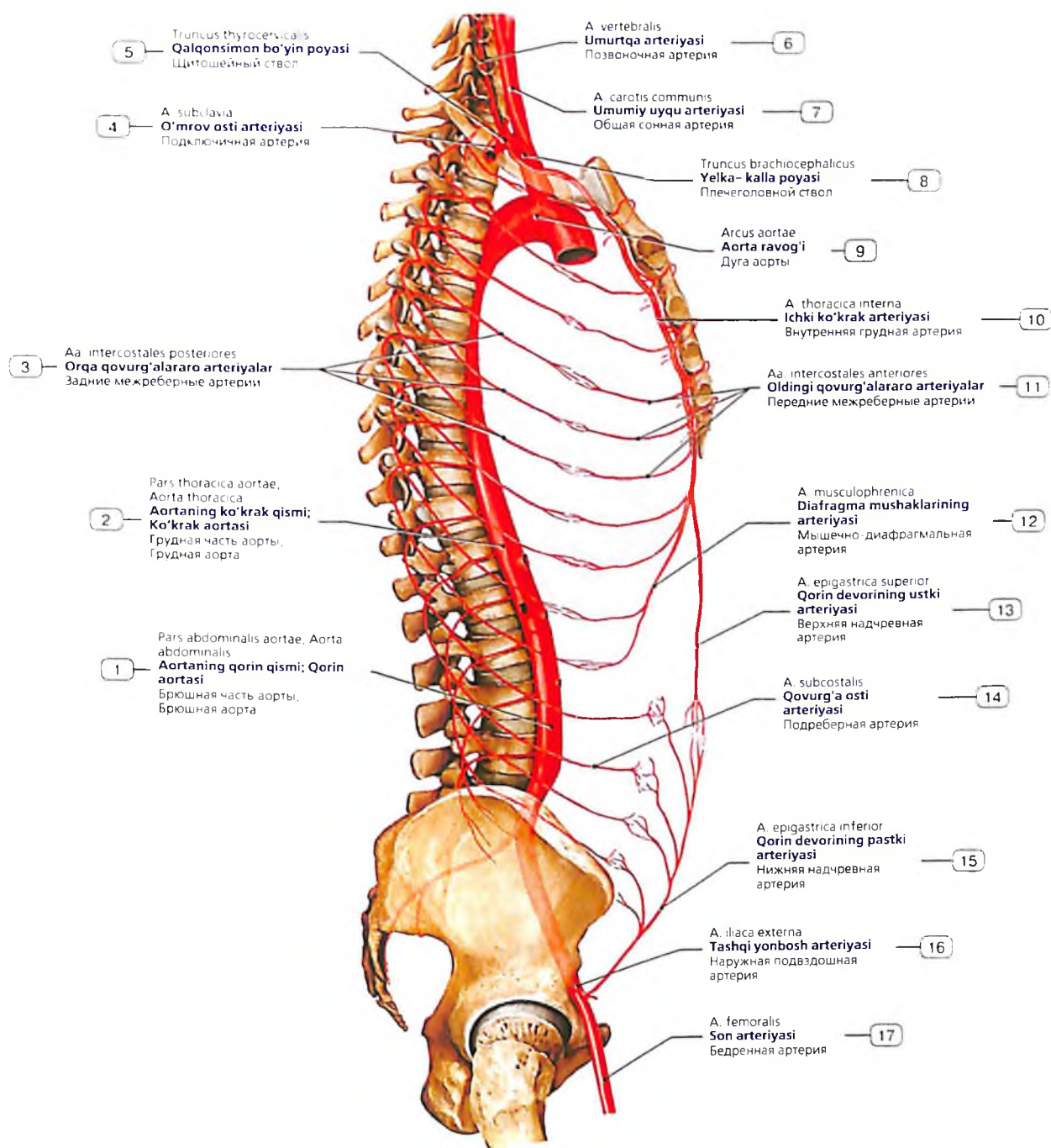
- 8 Right subclavian artery
- 9 Right common carotid artery
- 10 Right vertebral artery
- 11 Right internal carotid artery
- 12 Right external carotid artery
- 13 Left external carotid artery
- 14 Left internal carotid artery

- 15 Left vertebral artery
- 16 Left common carotid artery
- 17 Left subclavian artery
- 18 Arch of aorta, Aortic arch
- 19 Ligamentum arteriosum
- 20 Pulmonary trunk
- 21 Heart, left atrium



Rasm № 337. Aorta va uning asosiy tarmoqlari, oldindan ko'rinishi.
Рисунок № 337. Аорта и ее основные ветви, вид спереди.

- | | | | |
|---------------------------------|-------------------------------|---|--|
| 1 Superficial epigastric artery | 9 Axillary artery | 17 Vertebral artery | 25 Iliolumbar artery |
| 2 External iliac artery | 10 Thoracoacromial artery | 18 19+20 Descending aorta | 26 Lateral sacral arteries |
| 3 Inferior epigastric artery | 11 Superior thoracic artery | 19 Thoracic aorta | 27 Deep circumflex iliac artery |
| 4 Median sacral artery | 12 Internal thoracic artery | 20 Abdominal aorta | 28 Superficial circumflex iliac artery |
| 5 Musculophrenic artery | 13 Subclavian artery | 21 Subcostal artery [XII] | 29 Femoral artery |
| 6 Superior epigastric artery | 14 Ascending aorta | 22 Posterior intercostal arteries [VIII-XI] | |
| 7 Anterior intercostal arteries | 15 Arch of aorta, Aortic arch | 23 Lumbar arteries [I-IV] | |
| 8 Lateral thoracic artery | 16 Common carotid artery | 24 Internal iliac artery | |



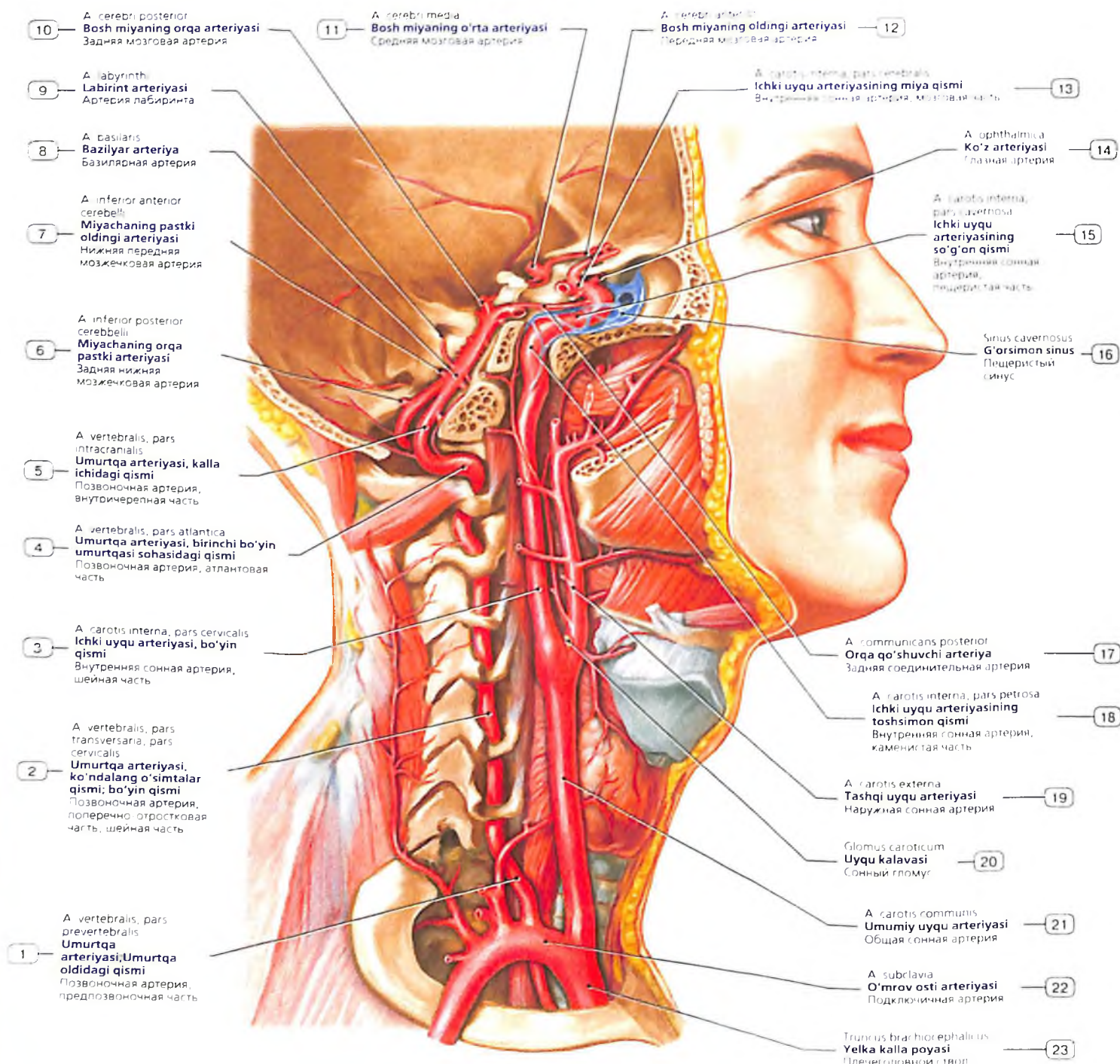
Rasm № 338. Aorta va uning asosiy tarmoqlari, yon tomondan ko'rinishi.

Рисунок № 338. Аорта и ее основные ветви, вид сбоку.

- 1 Abdominal aorta
- 2 Thoracic aorta
- 3 Posterior intercostal arteries
- 4 Subclavian artery
- 5 Thyrocervical trunk
- 6 Vertebral artery

- 7 Common carotid artery
- 8 Brachiocephalic trunk
- 9 Arch of aorta, Aortic arch
- 10 Internal thoracic artery
- 11 Anterior intercostal arteries
- 12 Musculophrenic artery

- 13 Superior epigastric artery
- 14 Subcostal artery
- 15 Inferior epigastric artery
- 16 External iliac artery
- 17 Femoral artery



Rasm № 339. Umurtqa arteriyasi, tashqi va ichki uyqu arteriyalarining topografiyasi.
Рисунок № 339. Топография позвоночной, наружной и внутренней сонных артерий.

- 1 Vertebral artery, prevertebral part
- 2 Vertebral artery, cervical part
- 3 Internal carotid artery, cervical part
- 4 Vertebral artery, atlantic part
- 5 Vertebral artery, intracranial part
- 6 Posterior inferior cerebellar artery
- 7 Anterior inferior cerebellar artery
- 8 Basilar artery

- 9 Labyrinthine arteries
- 10 Posterior cerebral artery
- 11 Middle cerebral artery
- 12 Anterior cerebral artery
- 13 Internal carotid artery, cerebral part
- 14 Ophthalmic artery
- 15 Internal carotid artery, cavernous part
- 16 Cavernous sinus

- 17 Posterior communicating artery
- 18 Internal carotid artery, petrous part
- 19 External carotid artery
- 20 Carotid body
- 21 Common carotid artery
- 22 Subclavian artery
- 23 Brachiocephalic trunk

26 – jadval. Bosh va bo'yin arteriyalari orasidagi sistemalararo anastomozlar

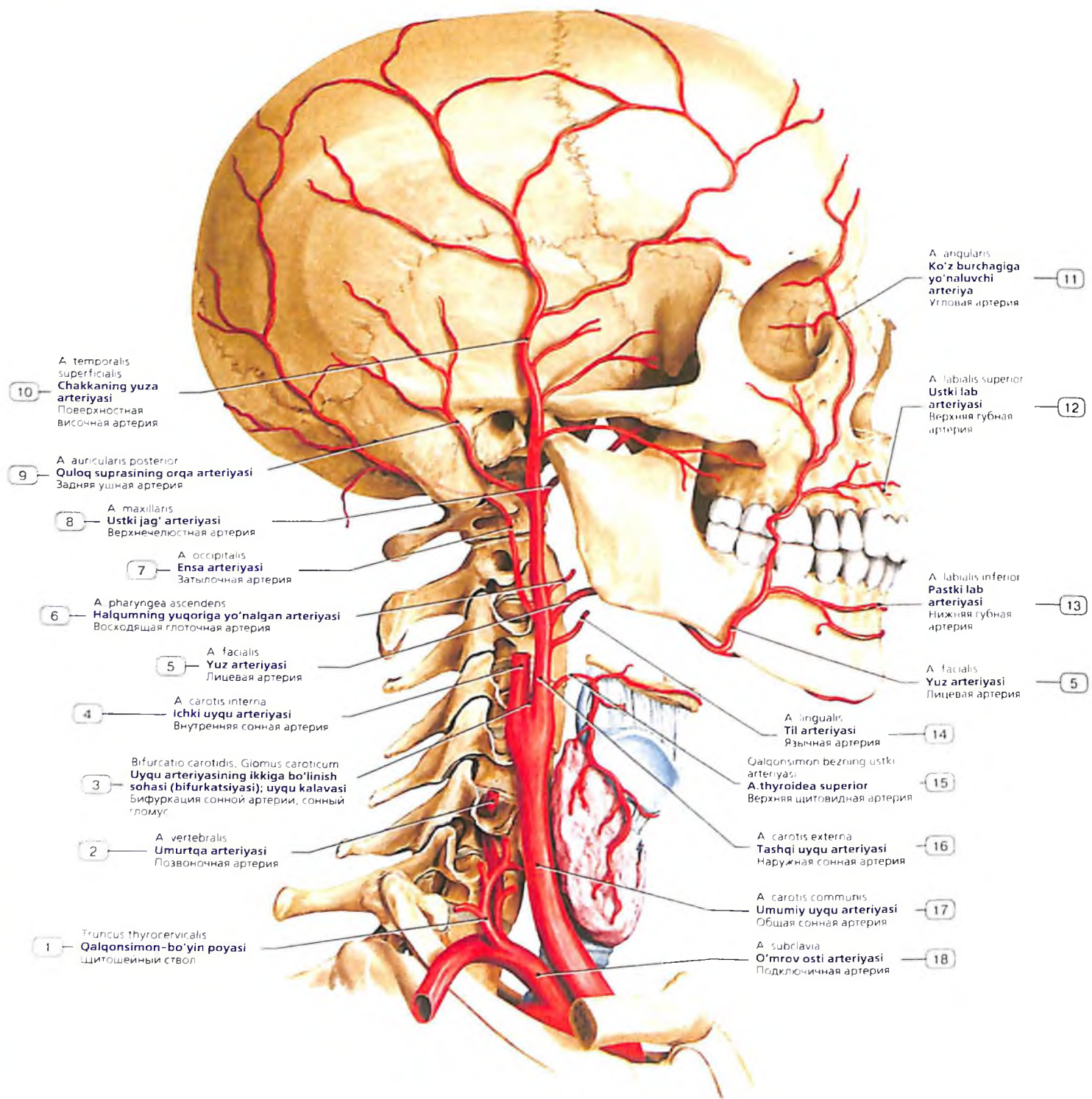
Olib keluvchi magistral arteriyalar	Anastamoz hosil qiluvchi magistral arteriya tarmoqlari		Anastamoz joylashgan soha
Ichki va tashqi uyqu arteriyalari	Burunning orqa (dorsal) arteriyasi (ko'z arteriyasi tarmog'i) - ichki uyqu arteriyasi tarmog'i	Burchak arteriyasi (yuz arteriyasi tarmog'i) - tashqi uyqu arteriyasi tarmog'i	Ko'zning medial burchagida
Ichki va tashqi uyqu arteriyalari	G'altak usti arteriyasi (ko'z arteriyasi) - ichki uyqu arteriyasi tarmog'i	Peshona shoxi (chakkaning yuza arteriyasi tarmog'i) - tashqi uyqu arteriyasi tarmog'i	Peshona sohasining terisi va muskullarida
Ichki uyqu va o'mrov osti arteriyalari	Orqa qo'shuvchi arteriya - ichki uyqu arteriyasi tarmog'i	Bosh miyaning orqa arteriyasi (umurtqa arteriyasining bazilyar shoxi tarmog'i) - o'mrov osti arteriyasi tarmog'i	Ko'priknining oldingi qismida
Tashqi uyqu va o'mrov osti arteriyalari	Ensa arteriyasi - tashqi uyqu arteriyasi tarmog'i	Bo'yinning ko'tariluvchi arteriyasi (qalqonsimon bo'yin poyasi) - o'mrov osti arteriyasi tarmog'i	Bo'yinning orqa yon sohasida

27- jadval. Umumiy uyqu arteriyasi va uning tarmoqlari

Arteriya nomi va uning tarmoqlari	Boshlanishi	Arteriya yo'nalishi	Qon bilan ta'minlaydigan a'zolar (soha)
Tashqi uyqu arteriyasi	Umumiy uyqu arteriyasidan boshlanadi	Yuqoriga - boshdagi a'zolar va yumshoq to'qimalarga yo'naladi	Tarmoqlariga qarang
Oldingi tarmoqlari			
Ustki qalqonsimon bez arteriyasi 1. Ustki hiqildoq arteriyasi 2. To' sh-o' mrov-so' rg ichsimon mushakka boruvchi tarmoq	Tashqi uyqu arteriyasi boshlanish qismidan	Qalqonsimon bezdan pastga va oldinga qarab yo'naladi	Qalqonsimon bez, hiqildoq, til osti suyagi va til osti suyagidan pastda joylashgan mushaklar, to' sh-o' mrov-so' rg ichsimon mushagi
Til arteriyasi Til osti arteriyasi	Til osti suyagining katta shoxi sathida	Til uchburchagi (Pirogov) dan yuqoriga, tilga qarab yo'naladi	Til, milk, og'iz tubi shilliq qavati, tanglay murtagi, til osti va jag' osti so'lak bezlari Mushaklar: engak-til, engak-til osti, jag'-til osti, bo'yinning teri osti mushagi
Yuz arteriyasi 1. Yuqoriga yo'nalgan tanglay arteriyasi 2. Murtakka yo'nalgan tarmoq 3, 4. Ustki va pastki lab arteriyalari 5. Ko'z burchagiga yo'naluvchi arteriya	Pastki jag' burchagi sathida	Pastki jag' qirrasidan aylanib yuzga va ko'zning medial burchagiga yo'naladi	Yuz terisi va mimika mushaklari, qisman burun to'sig'i, yumshoq tanglay, tanglay murtagi, eshituv nayi, ko'z yosh xaltasi, jag' osti so'lak bezi Mushaklar: bigiz-til osti, bigiz-til, bigiz-yutqin mushaklari
Orqa tarmoqlari			
Ensa arteriyasi 1. To' sh-o' mrov-so' rg ichsimon mushakka boruvchi tarmoq 2. Quloqqa boruvchi tarmoq	Ikki qorinchali mushak orqa qorinchasi sathida	Ensa sohasining shu nomli egatida so'rg'ichsimon o'siqdan yuqoriga va ichkariga qarab yo'naladi	Ensa terisi va qisman tepa sohasi, quloq suprasi, bosh miyaning orqa chuqurchasi qattiq pardasi, so'rg'ichsimon o'siq (katakchalarning shilliq qavati bilan birgalikda). Mushaklar: to' sh-o' mrov-so' rg ichsimon, ikki qorinchali mushakning orqa qorinchasi, qisman bo'yinning orqa mushaklari
Quloq suprasining orqa arteriyasi Bigizsimon-so'rg'ichsimon arteriya	Ikki qorinchali mushak orqa qorinchasi ustidan o'tadi	Quloq chig'anoqidan yuqori va orqaga qarab yo'naladi	Quloq orqasi terisi, quloq suprasi, nog'ora bo'shlig'i shilliq qavati, so'rg'ichsimon o'siq katakchalari, bosh miyaning orqa chuqurchasi qattiq pardasi Mushaklar: ikki qorinchali (orqa qorinchasi), bigiz-tilosti, bigiz-til, to' sh-o' mrov-so' rg ichsimon, uzangi mushagi
Medial tarmoqlari			
Halqumning yuqoriga yo'nalgan arteriyasi 1. Miya pardasining orqa arteriyasi 2. Nog'ora pardaning pastki arteriyasi	Tashqi uyqu arteriyasining boshlanish qismiga yaqin joyda	Yutqinning yon devori bo'ylab yuqoriga yo'naladi	Yutqin, yumshoq tanglay, tanglay murtagi, eshituv nayi, nog'ora bo'shlig'i shilliq pardasi, bosh miyaning o'rta, orqa chuqurchasi qattiq pardasi Mushaklar: halqumni qisuvchi mushaklar, bigizsimon o'siq, halqum mushagi

27 jadval yakuni

Arteriya nomi va uning tarmoqlari	Boshlanishi	Arteriya yo'nalishi	Qon bilan ta'minlaydigan a'zolar (soha)
Oxirgi tarmoqlar			
Chakkaning yuza arteriyasi 1. Yuzning ko'ndalang arteriyasi 2. Peshona tarmog'i 3. Tapa tarmog'i 4. Quloq oldi so'lak beziga yo'naluvchi tarmoq 5. Quloq suprasining oldingi tarmoqlari 6. Chakkaning o'rta arteriyasi	Tashqi uyqu arteriyasining davomi bo'lib, pastki jag' suyagi tojsimon o'sig'ining bo'yinchasi sathida boshlanadi	Tashqi eshituv yo'lidan oldinda chakka sohasiga yo'naladi	Peshona, chakka va tapa sohasi terisi, tashqi eshituv yo'li, quloq suprasini, chakka - pastki jag' bo'g'imi kapsulasi, quloq oldi bezi. Mushaklar: ko'zning aylana mushagi, quloq suprasini mushaklari, kallaning pay qalpog'i, chakka mushagi
Ustki jag' arteriyasi 1. Quloq suprasining chuqur arteriyasi 2. Nog'ora pardaning oldingi arteriyasi 3. Pastki jag'dagi tish kataklari arteriyasi 4. Chaynov arteriyasi 5. Lunj arteriyasi 6,7. Ustki jag'dagi tish katakchalarining oldingi va orqa arteriyalari 8. Ko'z kosasining pastki arteriyasi 9. Tanglayning pastga yo'nalgan arteriyasi 10. Ponasimon suyak - tanglay arteriyasi 11. Qanotsimon kanal arteriyasi 12. Oldingi chakkaning chuqur arteriyasi	Tashqi uyqu arteriyasining oxirgi tarmog'i	Pastki jag' suyagining tojsimon o'sig'i bo'yicha oldindan aylanib o'tib, chakka osti va qanot - tanglay chuqurchasiga yo'naladi	Engak sohasi terisi va mushaklari, pastki qovoq, yuqori va pastki lablar, tashqi eshituv yo'li, eshituv nayi, nog'ora bo'shlig'i, o'rta miya chuqurchasining qattiq pardasi, chakka pastki jag' bo'g'imi, yuqori va pastki jag' tishlari, ko'z yosh xaltasi, lunj, qattiq va yumshoq tanlay, tanglay murtaklari, burunning tashqi devori, burun to'sig'i, yuqori jag' va burun bo'shlig'ining shilliq pardasi. Mushaklar: chaynov, lunj, jag' - tilosti
Ichki uyqu arteriyasi	Umumiy uyqu arteriyasidan chiqadi	Kalla bo'shlig'iga chakka suyagining uyqu kanali orqali kiradi	Tarmoqlariga qarang
Ko'z arteriyasi 1. Ko'z yosh bezi arteriyasi 2. Kiprikning kalta va uzun arteriyalari 3. Ko'zning to'r pardasidagi markaziy arteriya 4,5. Oldingi va orqa g'alvirsimon arteriyalar 6. Mushaklarning arteriyalari 7. Ko'z kosasi usti arteriyasi 8. Qovoqning medial arteriyasi 9. Burunning orqa arteriyasi	Ko'ruv kanali boshlanish qismida	Ko'ruv kanali orqali ko'z kosasi bo'shlig'iga yo'naladi	Ko'z olmasi, uning mushaklari, ko'z yosh bezi, xaltasi, qovoqlar, burun bo'shlig'i, shilliq qavatining oldingi qismi, ponasimon bo'shlig', g'alvirsimon suyak katakchalari, peshona terisi va mushaklari Mushaklar: ko'zning, peshonaning, burun ildizi sohasi mimika mushaklari
Bosh miyaning oldingi arteriyasi (har ikkala tarafdagi chap va o'ng arteriyalar oldingi qo'shuvchi arteriya yordamida qo'shiladi)	Ko'z arteriyasidan yuqorida (oxirgi tarmog'i)	Oldinga, keyin yuqoriga va orqaga bosh miya yarimsharlarining medial yuzasi bo'ylab, qadoqsimon tana egati bo'ylab tepa-ensa egatigacha yo'naladi	Peshona, tapa, qisman ensa bo'laklarining medial yuzasi, katta miya yarimsharlarining bazal, dorsolateral yuzalarining yuqori qismi, qadoqsimon tananing poyasi, tizza qismi, hidlov piyozchasi, hidlov trakti, bazal o'zaklar
Bosh miyaning o'rta arteriyasi (oxirgi tarmoq, eng katta tarmoq)	Bosh miyaning oldingi arteriyasidan keyin boshlanadi	Bosh miya yarimsharlarining lateral egati tubining orqa qismi bo'ylab yo'naladi	Peshona, tapa, chakka bo'laklarining yuqori lateral yuzasi, orolcha (miya po'stlog'i, oq modda)
Orqa qo'shuvchi arteriya	Ichki uyqu arteriyasidan ko'z arteriyasidan pastda boshlanadi	Orqaga yo'nalib, bosh miyaning orqa arteriyasiga qo'shiladi	Peshona, tapa, chakka bo'laklarining yuqori lateral yuzasi, orolcha, ko'ruv bo'rtig'i, qisman bazal o'zaklar, ko'ruv trakti

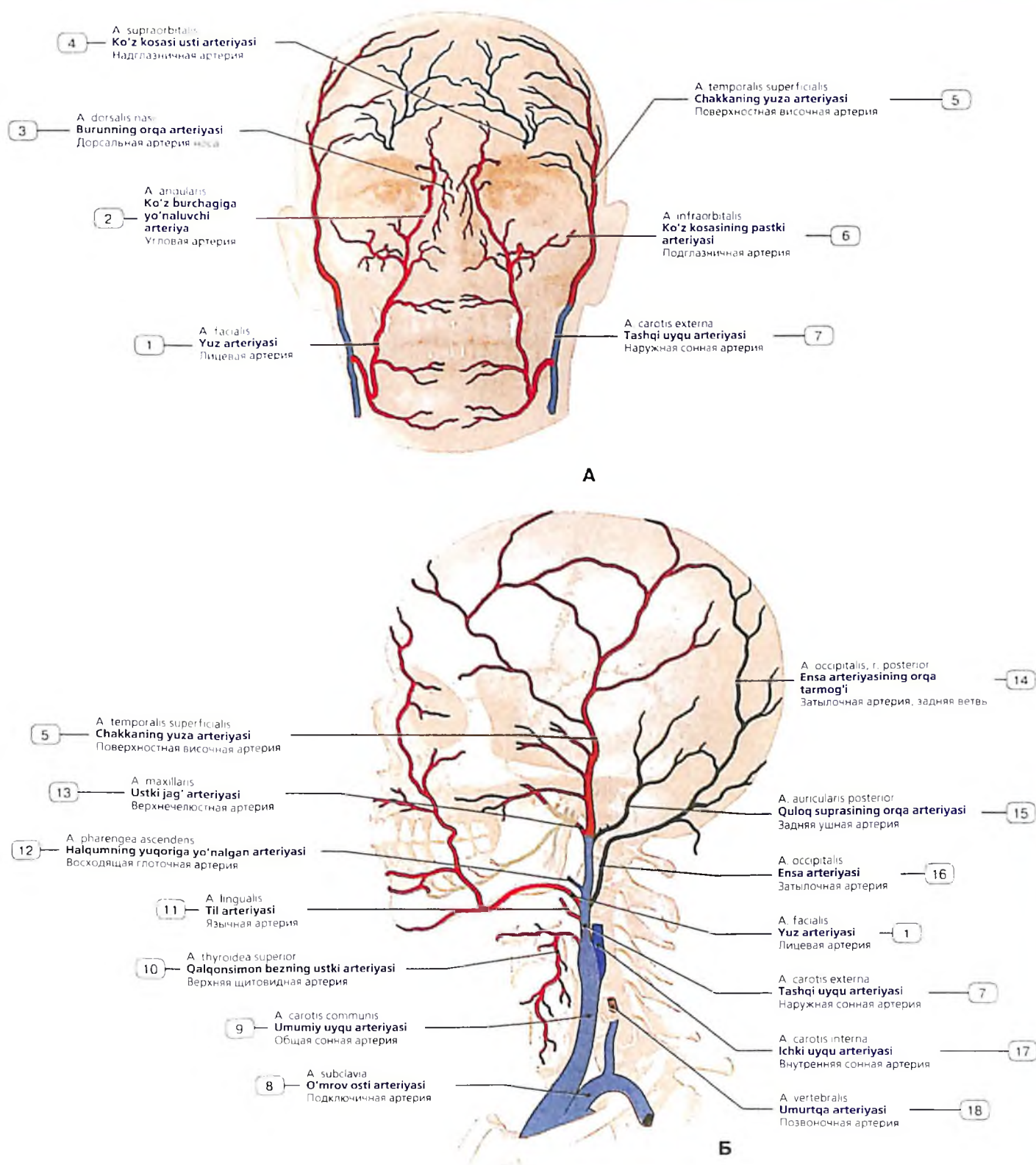


Rasm № 340. Tashqi uyqu arteriyasi va uning tarmoqlari, yon tomondan ko'rinishi (chizma).
Рисунок № 340. Наружная сонная артерия и ее ветви, вид сбоку (схема).

1. Thyrocarotiv trunk
2. Vertebral artery
3. Carotid bifurcation, Carotid body
4. Internal carotid artery
5. Facial artery
6. Ascending pharyngeal artery
7. Occipital artery

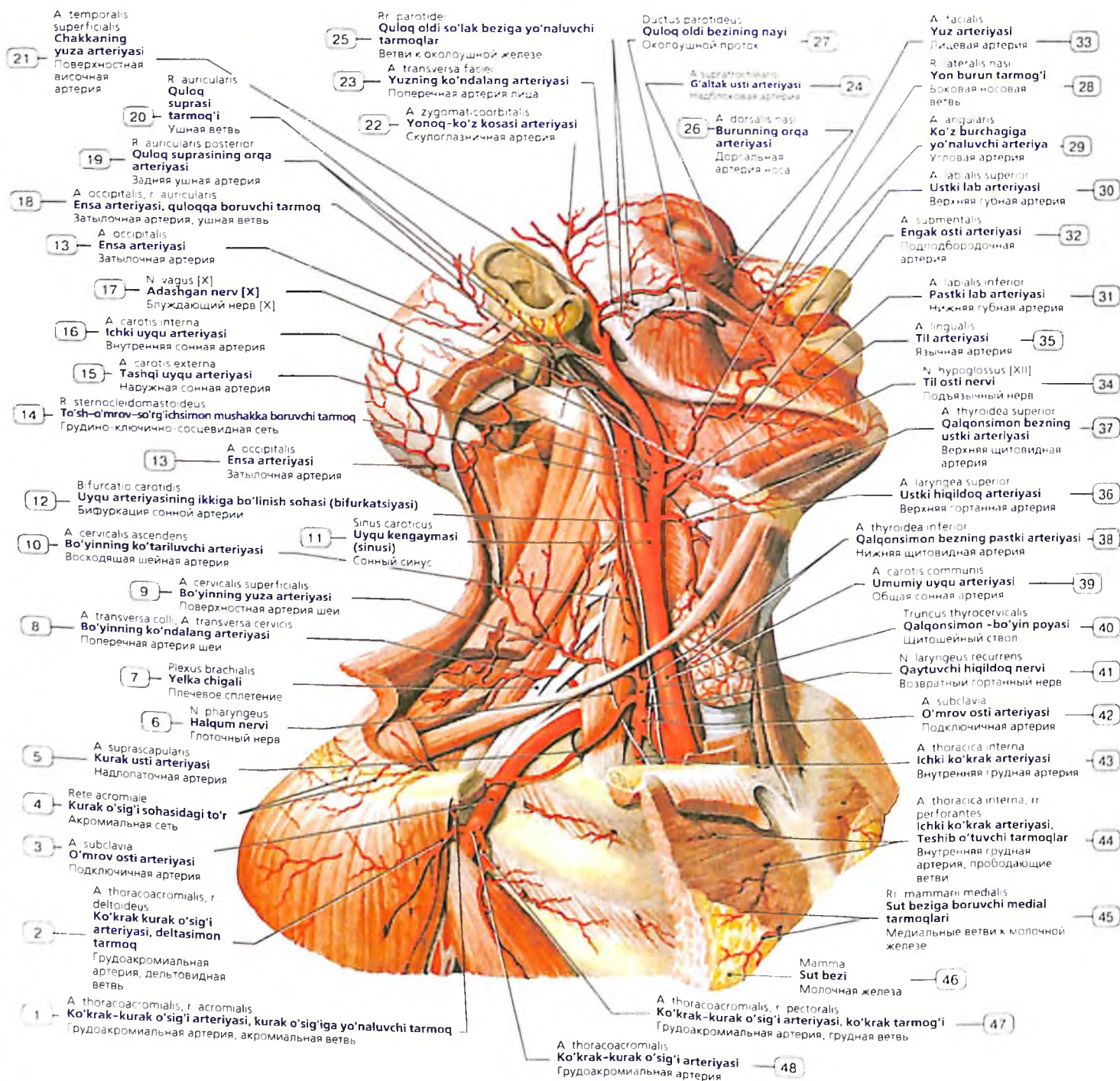
8. Maxillary artery
9. Posterior auricular artery
10. Superficial temporal artery
11. Angular artery
12. Superior labial artery
13. Inferior labial artery
14. Lingual artery

15. Superior thyroid artery
16. External carotid artery
17. Common carotid artery
18. Subclavian artery



Rasm № 341. Tashqi uyqu arteriyasining tarmoqlanishi (chizmalar) (A — oldindan ko'rinishi; B — yon tomondan ko'rinishi).
Рисунок № 341. Ветвление наружной сонной артерии (схемы) (A — вид спереди; B — вид сбоку).

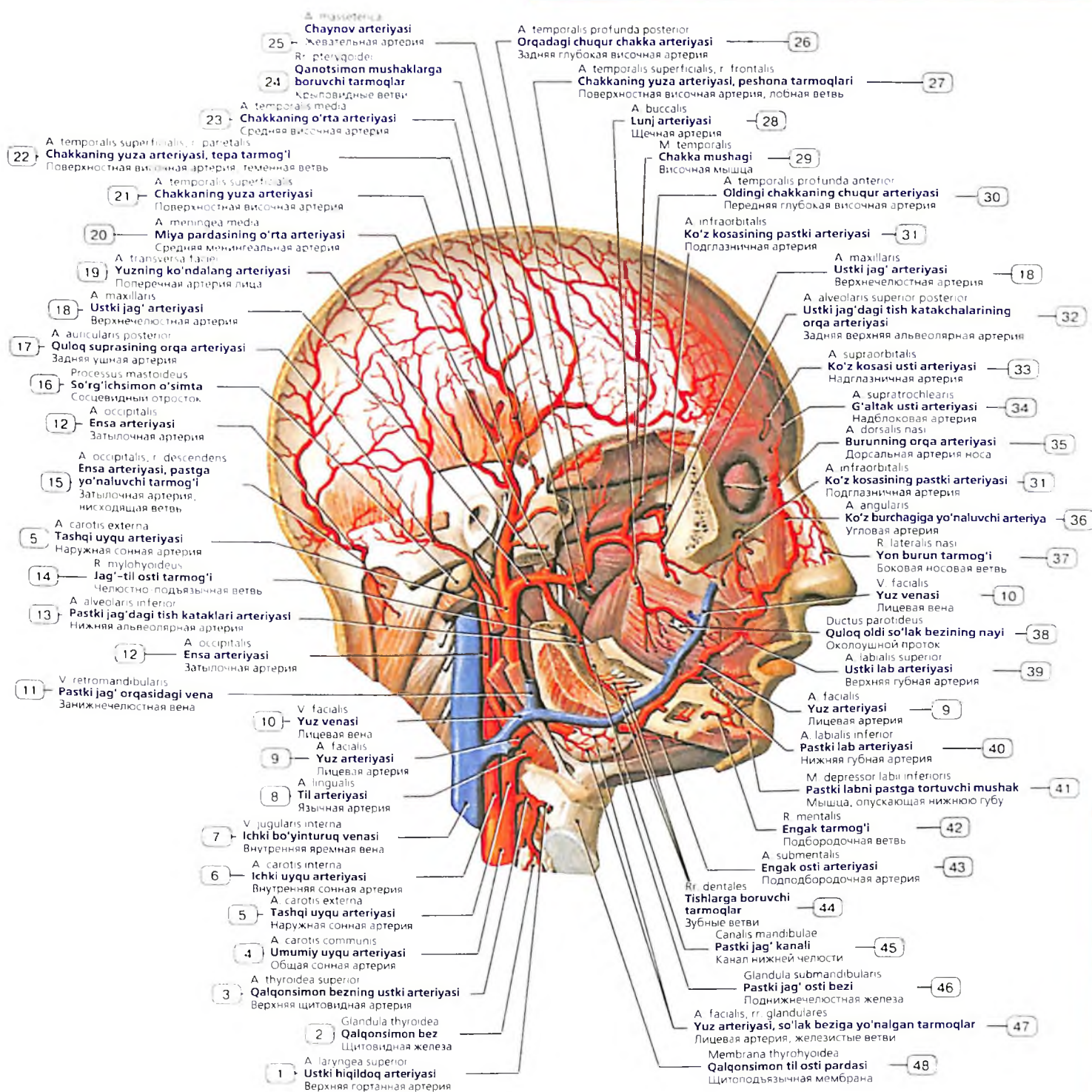
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|---|-----------------------------|--|-----------------------------|
| 1. Facial artery | 6. Infra-orbital artery | 11. Lingual artery | 16. Occipital artery |
| 2. Angular artery | 7. External carotid artery | 12. Ascending pharyngeal artery | 17. Internal carotid artery |
| 3. Dorsal nasal artery, External nasal artery | 8. Subclavian artery | 13. Maxillary artery | 18. Vertebral artery |
| 4. Supra-orbital artery | 9. Common carotid artery | 14. Occipital artery, posterior branch | |
| 5. Superficial temporal artery | 10. Superior thyroid artery | 15. Posterior auricular artery | |



Rasm № 342. Bosh, bo'yin va o'ng yelka kamari arteriyalari, oldindan va yon tomondan ko'rinishi, bo'yin mushaklari qisman olib tashlangan.

Рисунок № 342. Артерии головы, шеи и пояса правой верхней конечности, вид спереди и сбоку, мышцы шеи частично удалены.

- | | | | | |
|---|---------------------------------------|---|------------------------------|---|
| 1 Thoracoacromial artery, acromial branch | 10 Ascending cervical artery | 20 Auricular branch | 30 Superior labial artery | 41 Recurrent laryngeal nerve |
| 2 Thoracoacromial artery, deltoideus branch | 11 Carotid sinus | 21 Superficial temporal artery | 31 Inferior labial artery | 42 Subclavian artery |
| 3 Subclavian artery | 12 Carotid bifurcation | 22 Zygomatico-orbital artery | 32 Submental artery | 43 Internal thoracic artery |
| 4 Acromial anastomosis | 13 Occipital artery | 23 Transverse facial artery | 33 Facial artery | 44 Internal thoracic artery, perforating branches |
| 5 Suprascapular artery | 14 Sternocleidomastoid branch | 24 Supratrochlear artery | 34 Hypoglossal nerve [XII] | 45 Medial mammary branches |
| 6 Pharyngeal nerve | 15 External carotid artery | 25 Parotid branches | 35 Lingual artery | 46 Breast |
| 7 Brachial plexus | 16 Internal carotid artery | 26 Dorsal nasal artery, External nasal artery | 36 Superior laryngeal artery | 47 Thoracoacromial artery, pectoral branch |
| 8 Transverse cervical artery | 17 Vagus nerve [X] | 27 Parotid duct | 37 Superior thyroid artery | 48 Thoracoacromial artery |
| 9 Superficial cervical artery | 18 Occipital artery, auricular branch | 28 Lateral nasal branch | 38 Inferior thyroid artery | |
| | 19 Posterior auricular artery | 29 Angular artery | 39 Common carotid artery | |
| | | | 40 Thyrocervical trunk | |



Rasm № 343. Tashqi uyqu arteriyasining oxirgi tarmoqlari.
Рисунок № 343. Конечные ветви наружной сонной артерии.

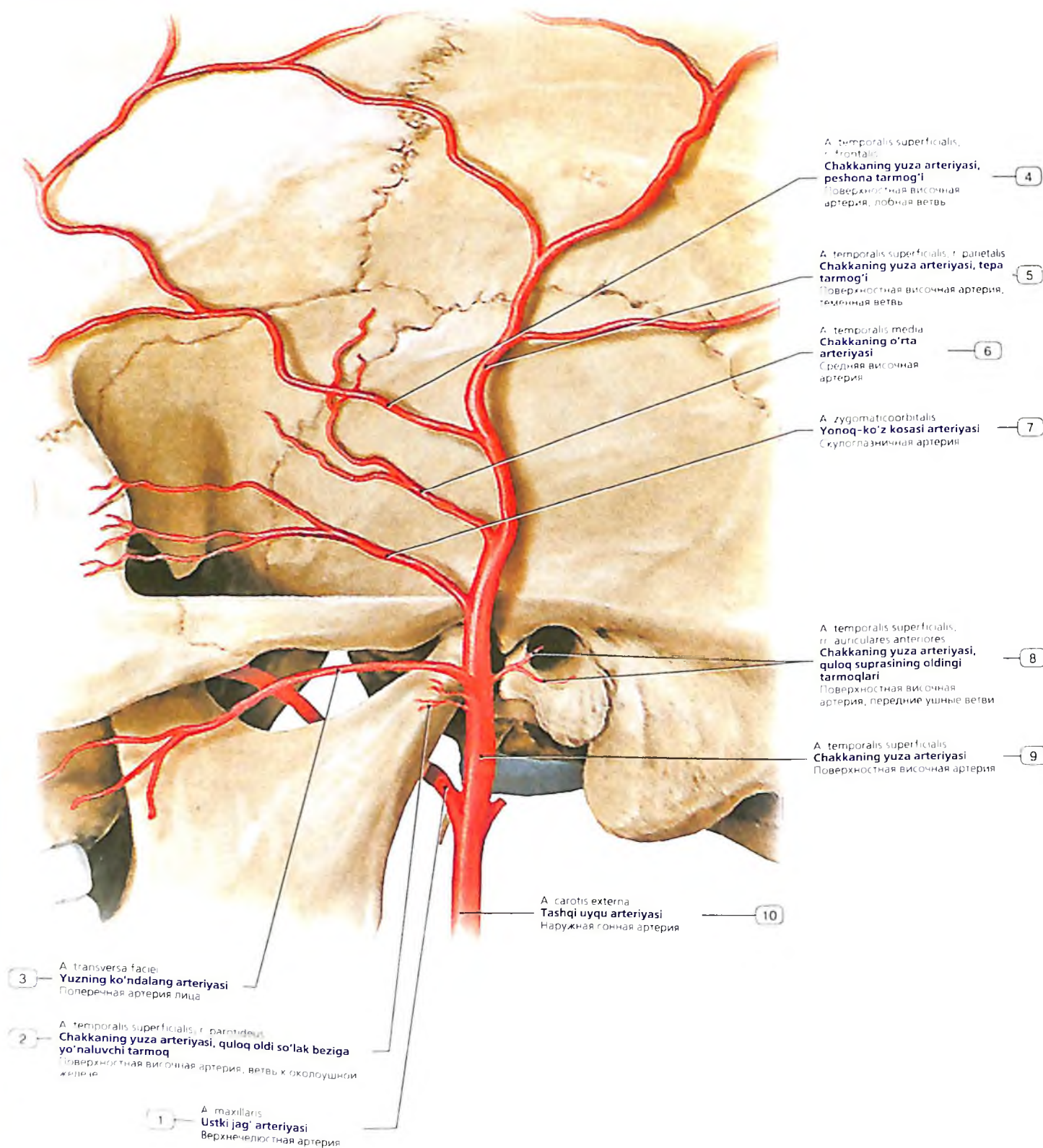
- 1 Superior laryngeal artery
- 2 Thyroid gland
- 3 Superior thyroid artery
- 4 Common carotid artery
- 5 External carotid artery
- 6 Internal carotid artery
- 7 Internal jugular vein
- 8 Lingual artery
- 9 Facial artery
- 10 Facial vein
- 11 Retromandibular vein

- 12 Occipital artery
- 13 Inferior alveolar artery
- 14 Mylohyoid branch
- 15 Occipital artery, descending branch
- 16 Mastoid process
- 17 Posterior auricular artery
- 18 Maxillary artery
- 19 Transverse facial artery
- 20 Middle meningeal artery
- 21 Superficial temporal artery

- 22 Superficial temporal artery, parietal branch
- 23 Middle temporal artery
- 24 Pterygoid branches
- 25 Masseteric artery
- 26 Posterior deep temporal artery, parietal branch
- 27 Superficial temporal artery, frontal branch
- 28 Buccal artery
- 29 Temporalis, Temporal muscle

- 30 Anterior deep temporal artery
- 31 Infra-orbital artery
- 32 Posterior superior alveolar artery
- 33 Supra-orbital artery
- 34 Supratrochlear artery
- 35 Dorsal nasal artery, External nasal artery
- 36 Angular artery
- 37 Lateral nasal branch
- 38 Parotid duct

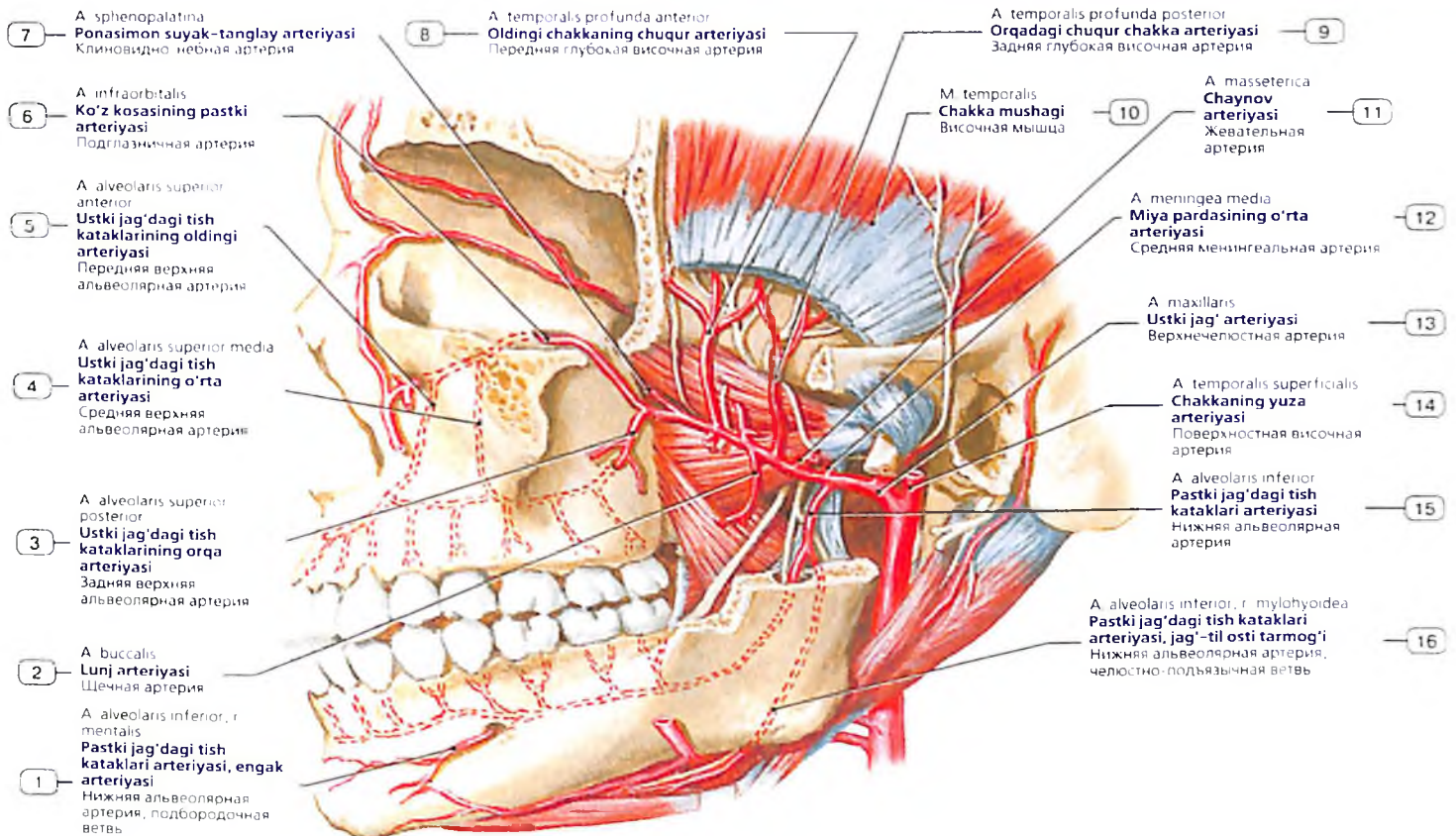
- 39 Superior labial artery
- 40 Inferior labial artery
- 41 Depressor labii inferioris
- 42 Mental nasal branch
- 43 Submental artery
- 44 Dental branches
- 45 Mandibular canal
- 46 Submandibular gland
- 47 Facial artery, glandular branches
- 48 Thyroid gland



Rasm № 344. Chakkaning yuza arteriyasi.
Рисунок № 344. Поверхностная височная артерия.

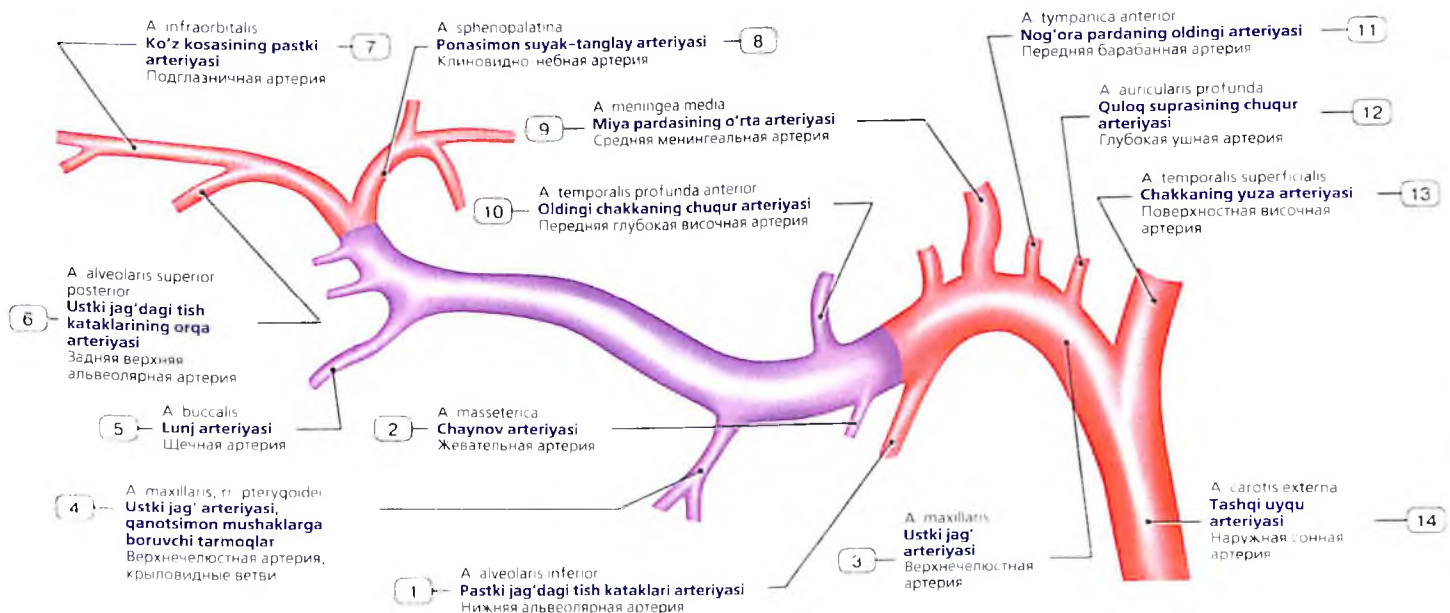
- 1 Maxillary artery
- 2 Superficial temporal artery, parotid branch
- 3 Transverse facial artery
- 4 Superficial temporal artery, frontal branch
- 5 Superficial temporal artery, parietal branch

- 6 Middle temporal artery
- 7 Zygomatico-orbital artery
- 8 Superficial temporal artery, anterior auricular branches
- 9 Superficial temporal artery
- 10 External carotid artery



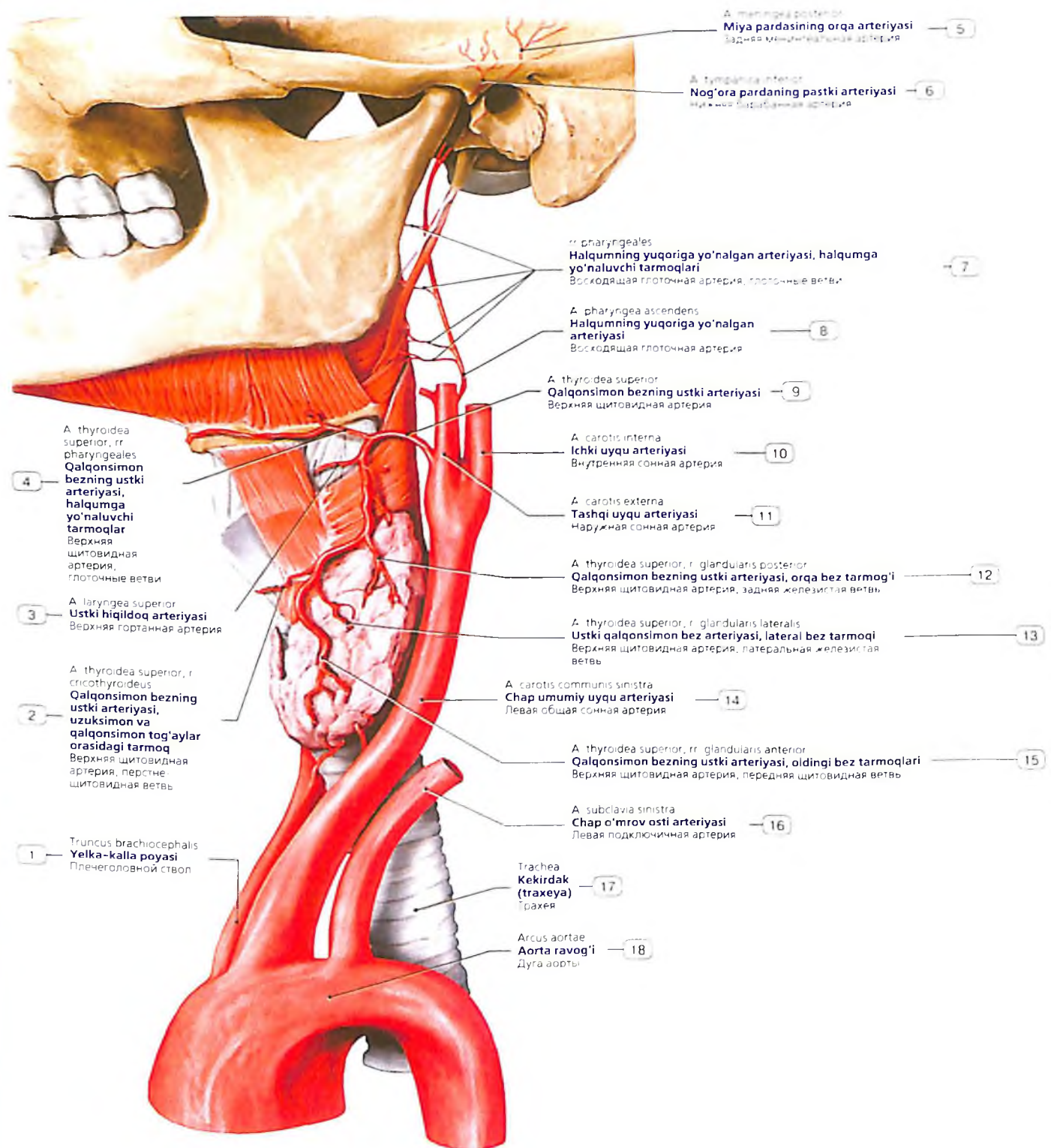
Rasm № 345. Ustki jag' arteriyasi. Рисунок № 345. Верхнечелюстная артерия.

- | | | | |
|---|-------------------------------------|----------------------------------|---|
| 1 Inferior alveolar artery, mental branch | 5 Anterior superior alveolar artery | 9 Posterior deep temporal artery | 13 Maxillary artery |
| 2 Buccal artery | 6 Infra-orbital artery | 10 Temporalis, Temporal muscle | 14 Superficial temporal artery |
| 3 Posterior superior alveolar artery | 7 Sphenopalatine artery | 11 Masseteric artery | 15 Inferior alveolar artery |
| 4 Middle superior alveolar artery | 8 Anterior deep temporal artery | 12 Middle meningeal artery | 16 Inferior alveolar artery, mylohyoid branch |



Rasm № 346. Ustki jag' arteriyasining qismlari va tarmoqlari (chizma).
Рисунок № 346. Отделы и ветви верхнечелюстной артерии (схема).

- | | | | |
|--|--------------------------------------|----------------------------------|--------------------------------|
| 1 Inferior alveolar artery | 5 Buccal artery | 9 Middle meningeal artery | 13 Superficial temporal artery |
| 2 Masseteric artery | 6 Posterior superior alveolar artery | 10 Anterior deep temporal artery | 14 External carotid artery |
| 3 Maxillary artery | 7 Infra-orbital artery | 11 Anterior tympanic artery | |
| 4 Maxillary artery, pterygoid branches | 8 Sphenopalatine artery | 12 Deep auricular artery | |

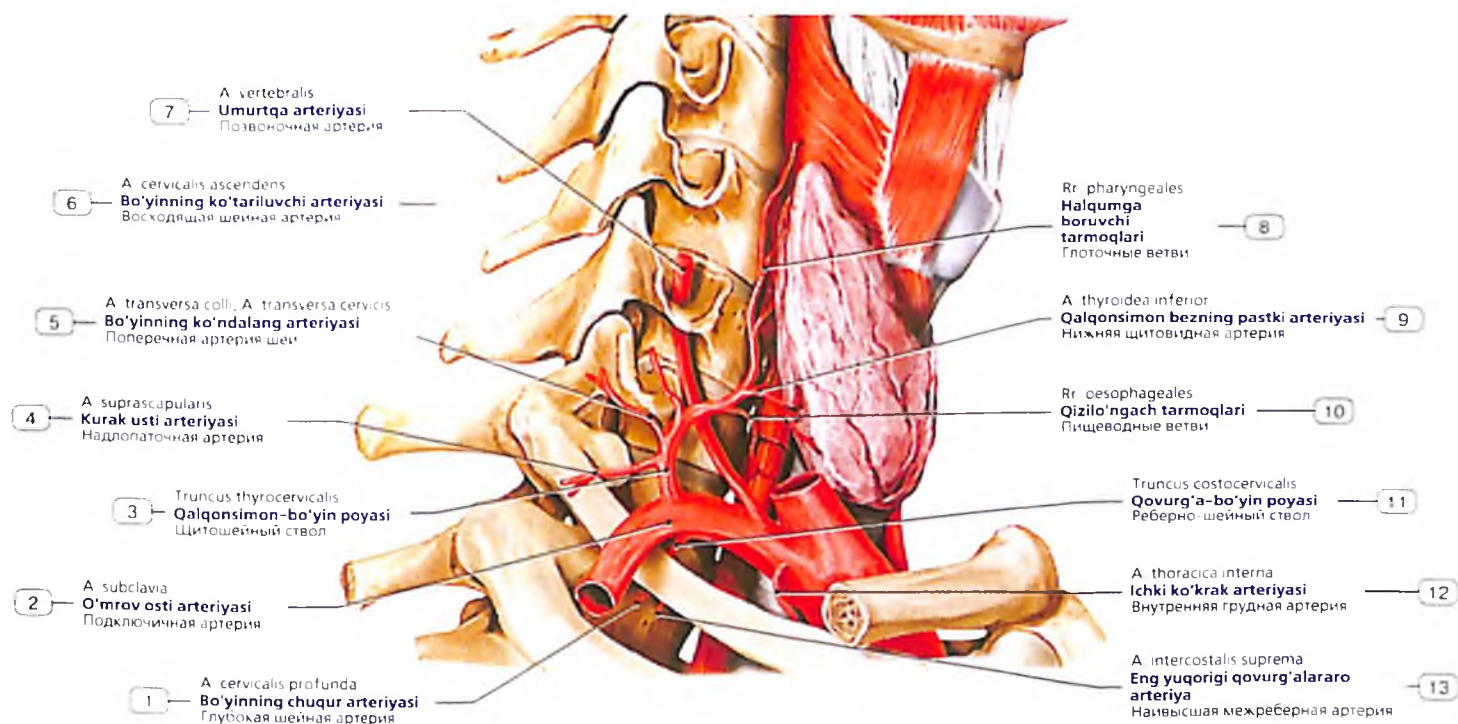


Rasm № 347. Qalqonsimon bezning ustki va halqumning yuqoriga yo'nalgan arteriyalari.
Рисунок № 347. Верхняя щитовидная и восходящая глоточная артерии.

- 1 Brachiocephalic trunk
- 2 Superior thyroid artery, cricothyroid branch
- 3 Superior laryngeal artery
- 4 Superior thyroid artery, pharyngeal branches
- 5 Posterior meningeal artery
- 6 Anterior tympanic artery
- 7 Ascending pharyngeal artery, pharyngeal branches

- 8 Ascending pharyngeal artery
- 9 Superior thyroid artery
- 10 Internal carotid artery
- 11 External carotid artery
- 12 Superior thyroid artery, posterior glandular branch
- 13 Superior thyroid artery, lateral glandular branch
- 14 Left common carotid artery

- 15 Superior thyroid artery, anterior glandular branch
- 16 Left subclavian artery
- 17 Trachea
- 18 Arch of aorta, Aortic arch

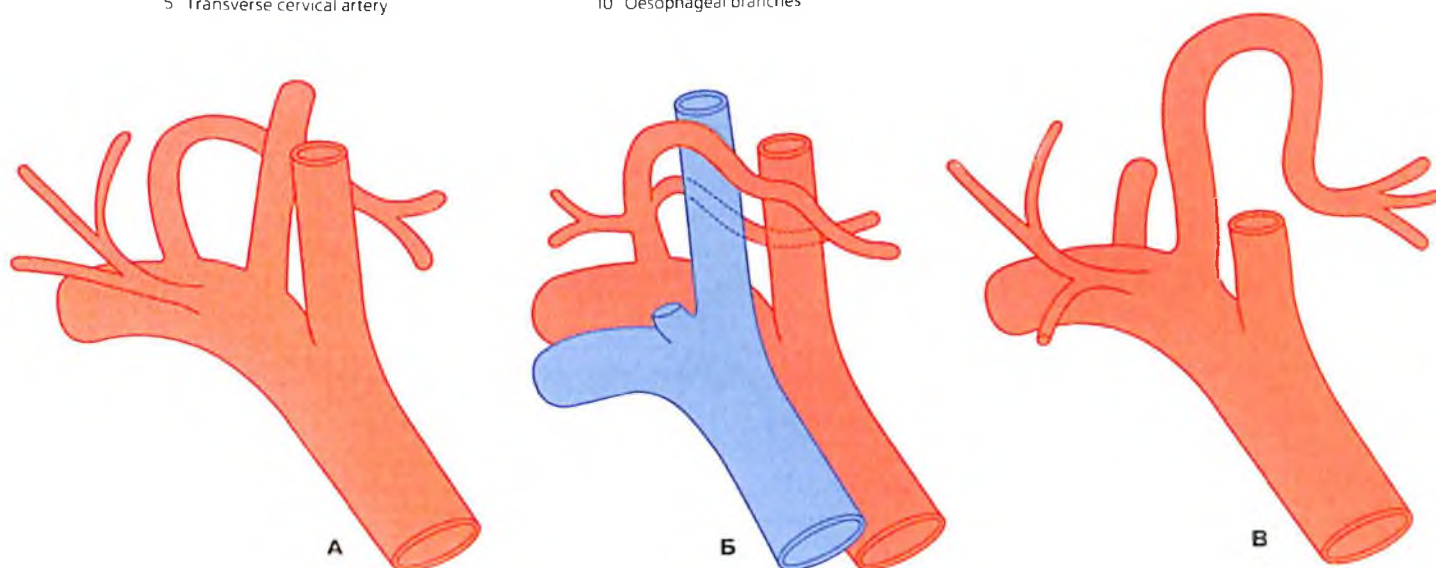


Rasm № 348. Qalqonsimon-bo'yin poyasi.
Рисунок № 348. Щитошейный ствол.

- 1 Deep cervical artery
- 2 Subclavian artery
- 3 Thyrocervical trunk
- 4 Suprascapular artery
- 5 Transverse cervical artery

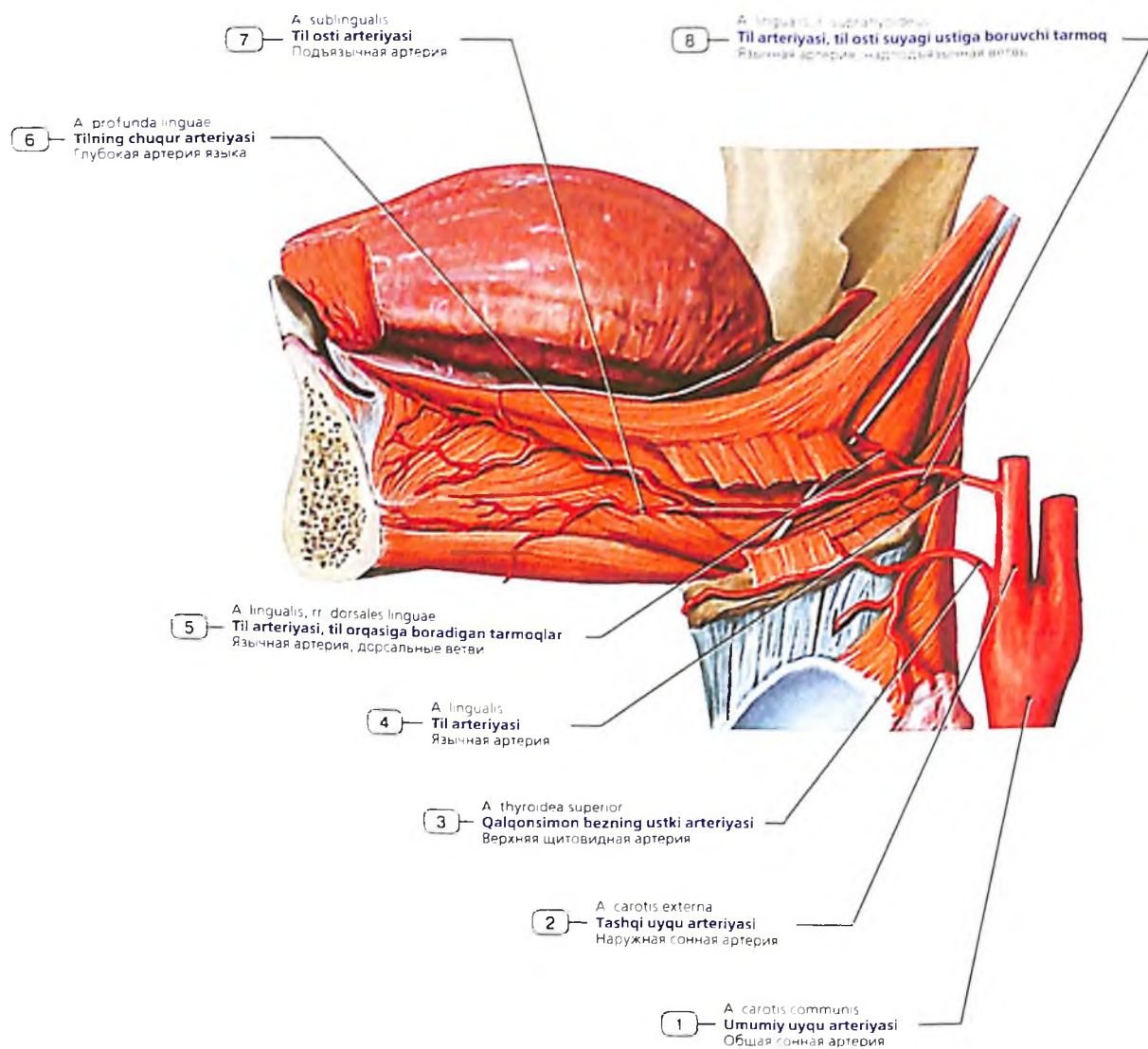
- 6 Ascending cervical artery
- 7 Vertebral artery
- 8 Pharyngeal branches
- 9 Inferior thyroid artery
- 10 Oesophageal branches

- 11 Costocervical trunk
- 12 Internal thoracic artery
- 13 Supreme intercostal artery



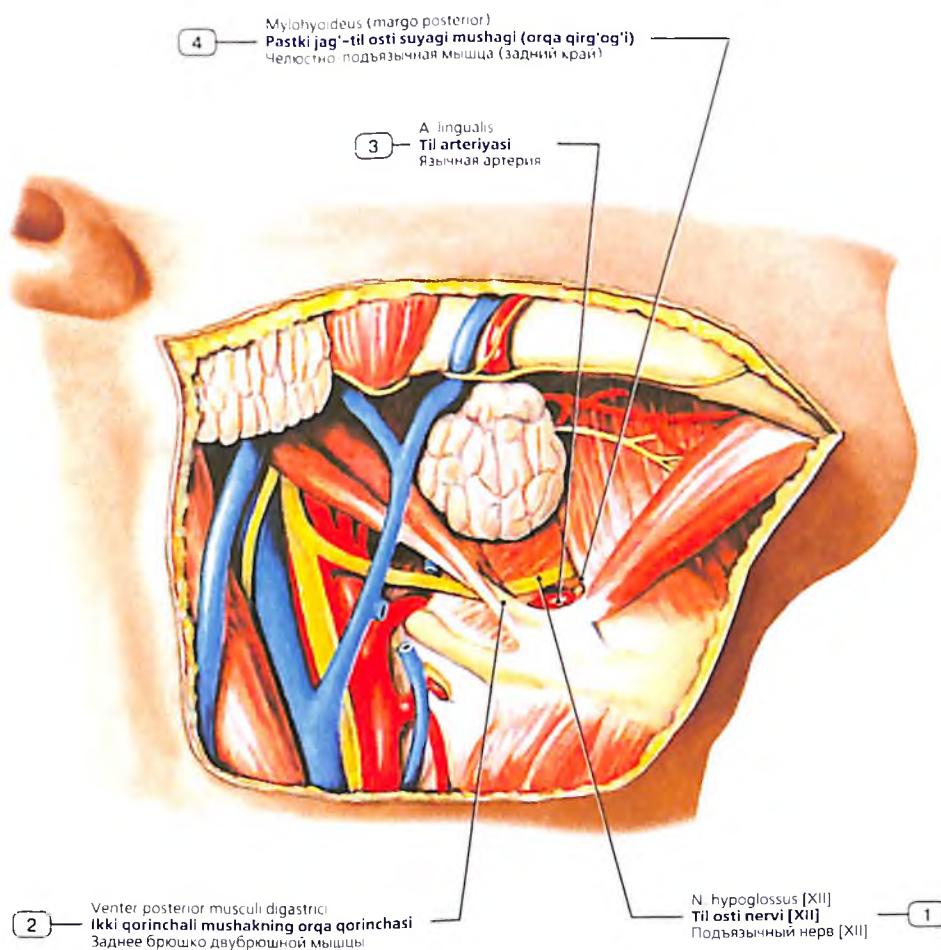
Rasm № 349. Qalqonsimon-bo'yin poyasining tuzilish turlari (chizma).
Рисунок № 349. Варианты строения щитошейного ствола (схема).

- A Qalqonsimon bezning pastki arteriyasining yo'nalishi juda o'zgaruvchan. U umurtqa arteriyasining orqasidan medial yo'nalishi mumkin.
Ход нижней щитовидной артерии весьма изменчив. Она может проходить медиально позади позвоночной артерии
- B Qalqonsimon bo'yin poyasidan ajralganidan so'ng darhol bo'linishi mumkin.
Может разделиться сразу же после отхождения от щитошейного ствола
- V O'mrov osti arteriyasining birinchi tarmog'i sifatida boshlanishi mumkin.
Может начинаться как первая ветвь подключичной артерии



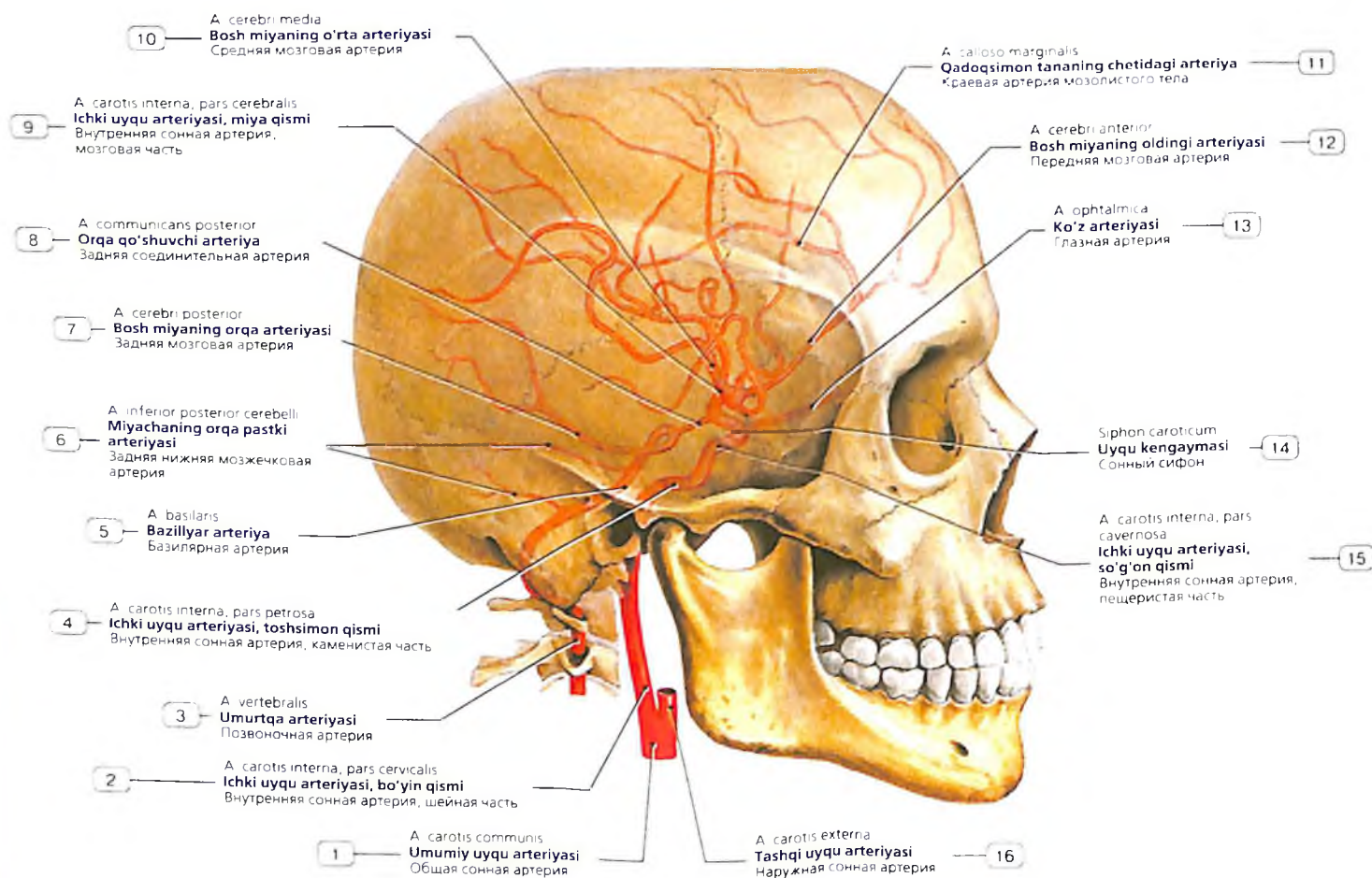
Rasm № 350. Til arteriyasi, pastki jag' va og'iz bo'shlig'i tubining saggital kesmasi.
Рисунок № 350. Язычная артерия, сагиттальный распил нижней челюсти и дна полости рта.

- | | |
|---------------------------|---|
| 1 Common carotid artery | 5 Lingual artery, dorsal lingual branches |
| 2 External carotid artery | 6 Deep lingual artery |
| 3 Superior thyroid artery | 7 Sublingual artery |
| 4 Lingual artery | 8 Lingual artery, suprathyroid branch |



Rasm № 351. Til arteriyasi, til uchburchagi (Pirogov uchburchagi) da til arteriyasining topografiyasi.
Рисунок № 351. Язычная артерия, топография язычной артерии в язычном треугольнике (Пирогова).

- 1 Hypoglossal nerve [XII]
- 2 Posterior belly of digastric
- 3 Lingual artery
- 4 Mylohyoid (posterior border)



Rasm № 352. Ichki uyqu arteriyasining skeletotopiyasi (chizma).
Рисунок № 352. Скелетотопия внутренней сонной артерии (схема).

- | | |
|--|--|
| 1 Common carotid artery | 9 Internal carotid artery, cerebral part |
| 2 Internal carotid artery, cervical part | 10 Middle cerebral artery |
| 3 Vertebral artery | 11 Callosomarginal artery |
| 4 Internal carotid artery, petrous part | 12 Anterior cerebral artery |
| 5 Basilar artery | 13 Ophthalmic artery |
| 6 Posterior inferior cerebellar artery | 14 Carotid siphon |
| 7 Posterior cerebral artery | 15 Internal carotid artery, cavernous part |
| 8 Posterior communicating artery | 16 External carotid artery |



Rasm № 353. Uyqu arteriyalari. Angiogramma, yon proyeksiya.
Рисунок № 353. Сонные артерии. Ангиограмма, боковая проекция.

- 1 Superior thyroid artery
2 Lingual artery
3 Facial artery

- 4 Maxillary artery
5 Occipital artery
6 Posterior auricular artery

- 7 Superficial temporal artery
8 Internal carotid artery, cervical part
9 Internal carotid artery, cavernous part

- 10 Internal carotid artery, petrous part
11 Internal carotid artery, cervical part
12 Carotid sinus

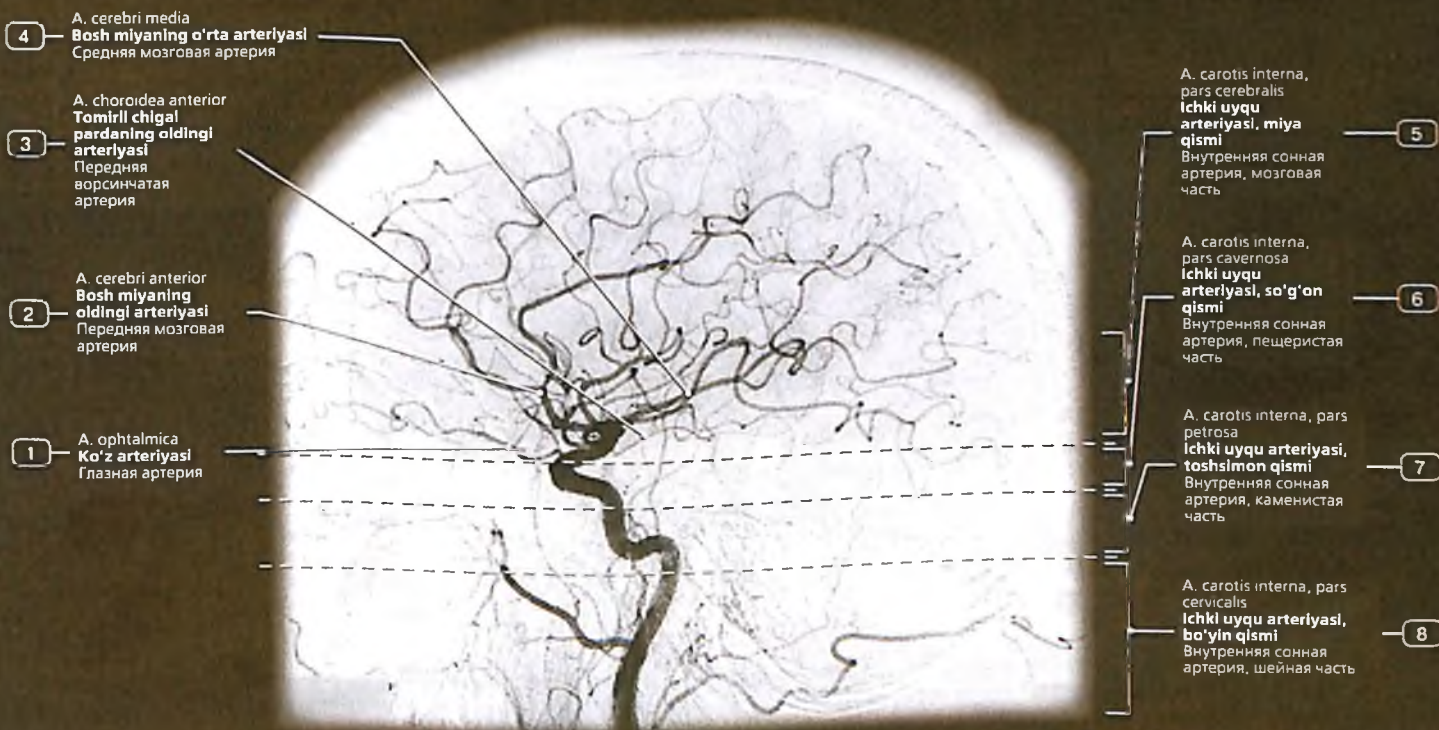


Рисунок № 354. Конечные ветви внутренней сонной артерии. Ангиограмма, боковая проекция.
Rasm № 354. Ichki uyqu arteriyasining oxirgi tarmoqlari. Angiogramma, yon proyeksiya.

- 1 Ophthalmic artery
2 Anterior cerebral artery

- 3 Anterior choroidal artery
4 Middle cerebral artery

- 5 Internal carotid artery, cerebral part
6 Internal carotid artery, cavernous part

- 7 Internal carotid artery, petrous part
8 Internal carotid artery, cervical part

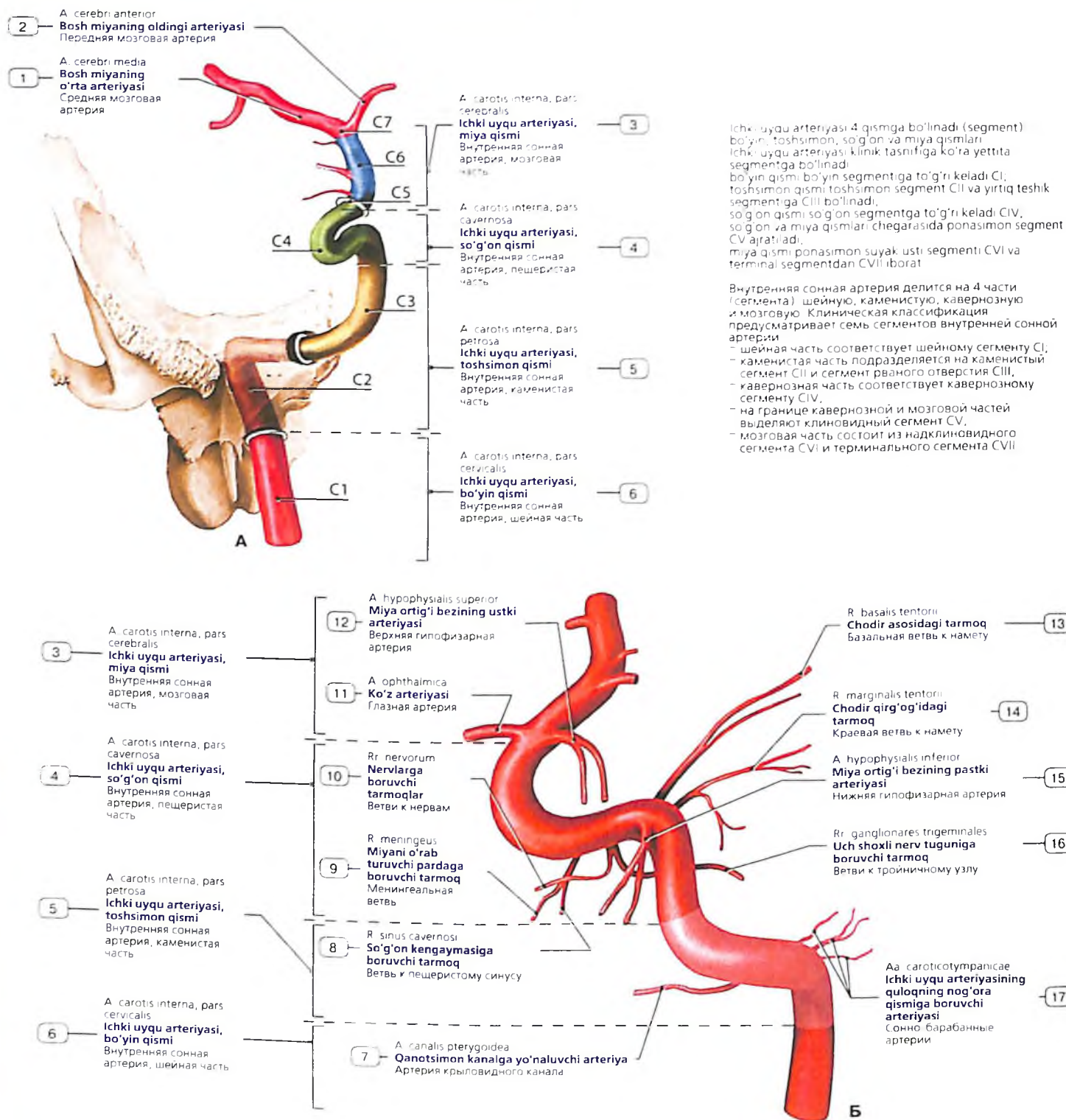
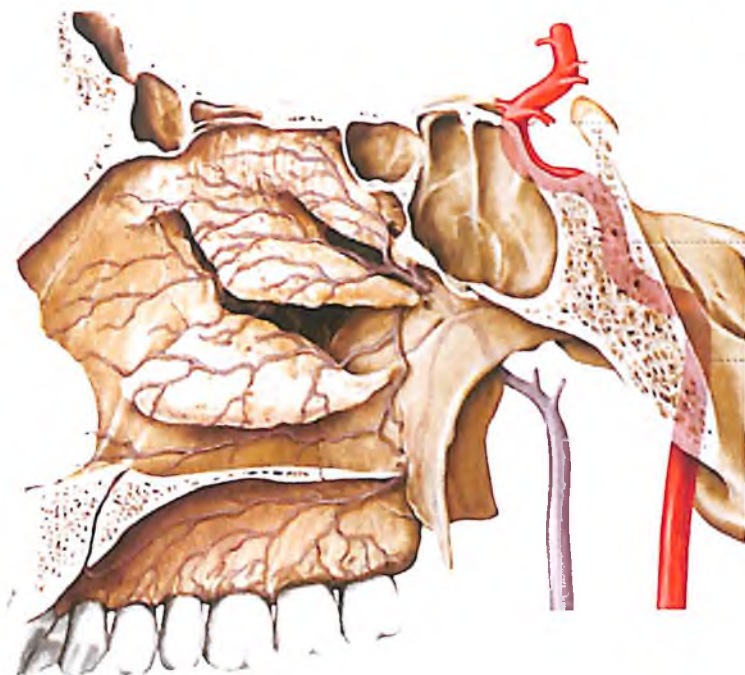


Рис. № 355. Ichki uyqu arteriyasining qismlari va segmentlari (A) va ularning tarmoqlari (B).
Рисунок № 355. Части и сегменты внутренней сонной артерии (A) и их ветви (B).

- Middle cerebral artery
- Anterior cerebral artery
- Internal carotid artery, cerebral part
- Internal carotid artery, cavernous part
- Internal carotid artery, petrous part
- Internal carotid artery, cervical part

- Artery of pterygoid canal
- Cavernous branch
- Meningeal branch
- Branches to nerves
- Ophthalmic artery
- Superior hypophyseal artery

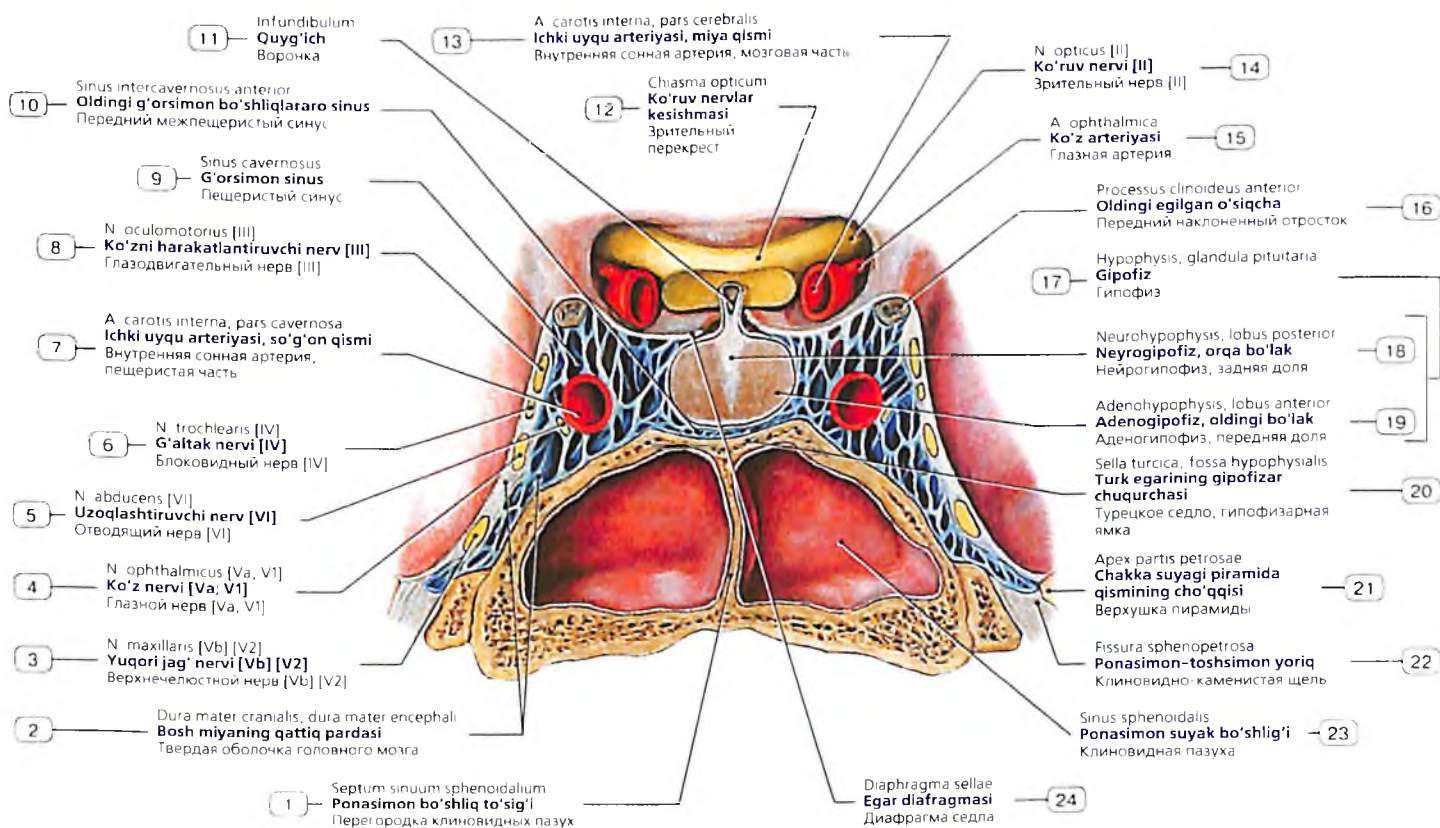
- Tentorial basal branch
- Tentorial marginal branch
- Inferior hypophyseal artery
- Branches to trigeminal ganglion
- Caroticotympanic arteries



- 1 Pars cerebialis
Miya qismi
Мозговая часть
- 2 Pars cavernosa
So'g'on qismi
Пещеристая часть
- 3 Pars petrosa
Toshimon qismi
Каменная часть
- 4 Pars cervicalis, pars colli
Bo'yin qismi
Шейная часть

Rasm № 356. Ichki uyqu arteriyasining qismlari, skeletotopiyasi.
Рисунок № 356. Части внутренней сонной артерии, скелетотопия.

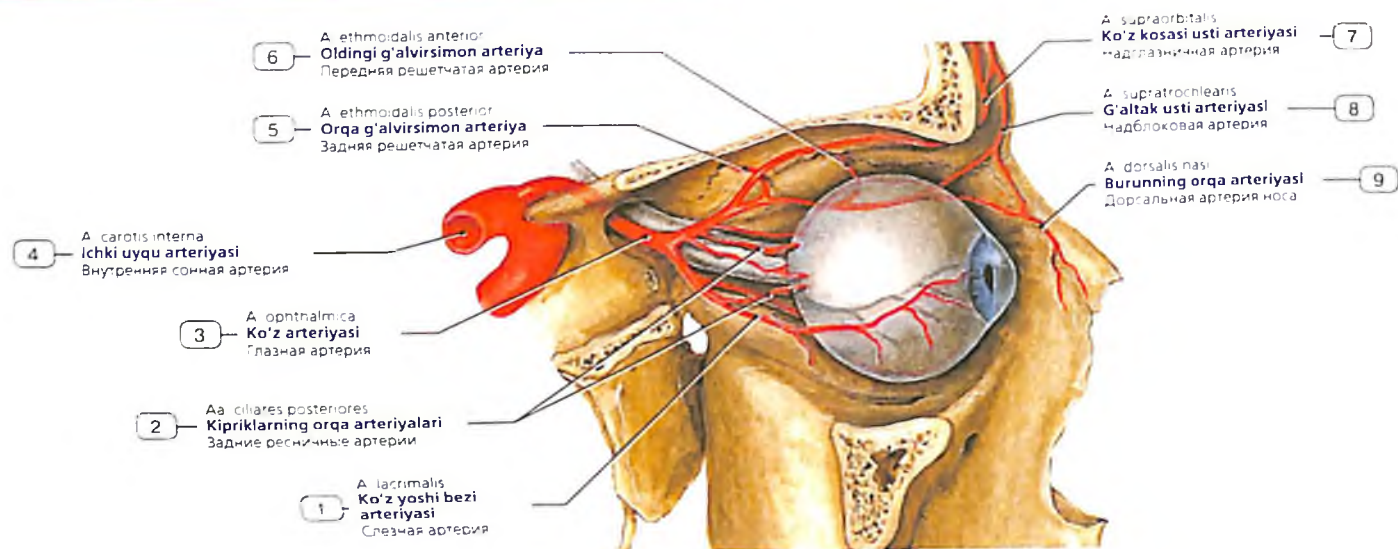
- 1 Cerebral part
- 2 Cavernous part
- 3 Petrous part
- 4 Cervical part



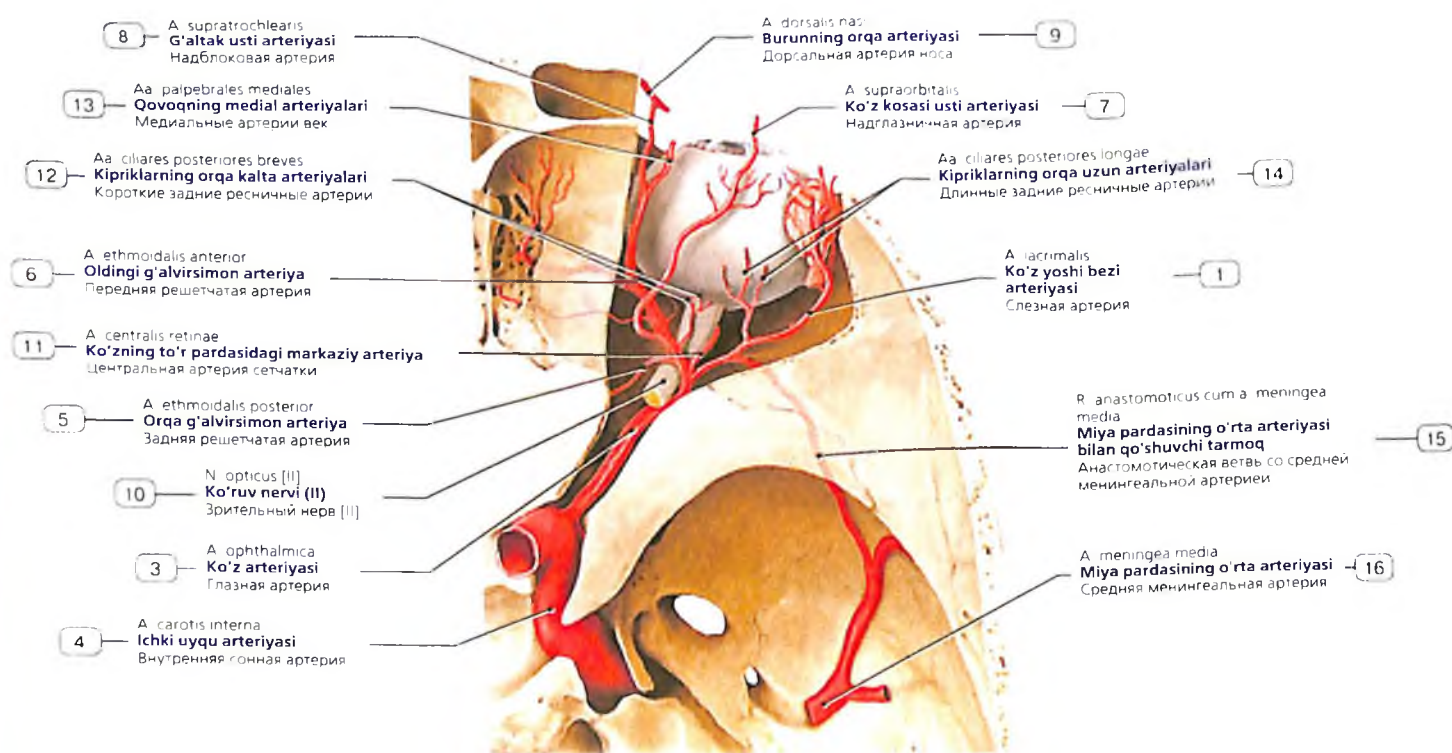
Rasm № 357. G'orsimon sinus, ichki uyqu arteriya va gipofiz, frontal kesma.

Рисунок № 357. Пещеристый синус, внутренняя сонная артерия и гипофиз, фронтальный распил.

- 1 Septum sinuum sphenoidalium
Ponasimon bo'shliq to'sig'i
Перегорodka клиновидных пазух
- 2 Dura mater cranialis, dura mater encephali
Bosh miyaning qattiq pardasi
Твердая оболочка головного мозга
- 3 N. maxillaris [Vb] [V2]
Yuqori jag' nervi [Vb] [V2]
Верхнечелюстной нерв [Vb] [V2]
- 4 N. ophthalmicus [Va, V1]
Ko'z nervi [Va, V1]
Глазной нерв [Va, V1]
- 5 N. abducens [VI]
Uzoqlashtiruvchi nerv [VI]
Отводящий нерв [VI]
- 6 N. trochlearis [IV]
G'altak nervi [IV]
Блоковидный нерв [IV]
- 7 Internal carotid artery, cavernous part
- 8 Oculomotor nerve [III]
- 9 Cavernous sinus
- 10 Anterior intercavernous sinus
- 11 Infundibulum
Quyg'ich
Воронка
- 12 Optic chiasm, optic chiasma
- 13 Internal carotid artery, cerebral part
Ichki uyqu arteriyasi, miya qismi
Внутренняя сонная артерия, мозговая часть
- 14 Optic nerve [II]
- 15 Ophthalmic artery
- 16 Anterior clinoid process
- 17 17= 18+19 – pituitary gland
- 18 Neurohypophysis, posterior lobe
Neurogipofiz, orqa bo'lak
Нейрогипофиз, задняя доля
- 19 Adenohypophysis, anterior lobe
Adenogipofiz, oldingi bo'lak
Аденогипофиз, передняя доля
- 20 Sella turcica, hypophysial fossa
Turk egarining gipofizar chuqurchasi
Турецкое седло, гипофизарная ямка
- 21 Apex of petrous part
- 22 Petrosphenoidal fissure, Sphenopetrosal fissure
- 23 Sphenoidal sinus
- 24 Diaphragma sellae, Sellar diaphragm



А



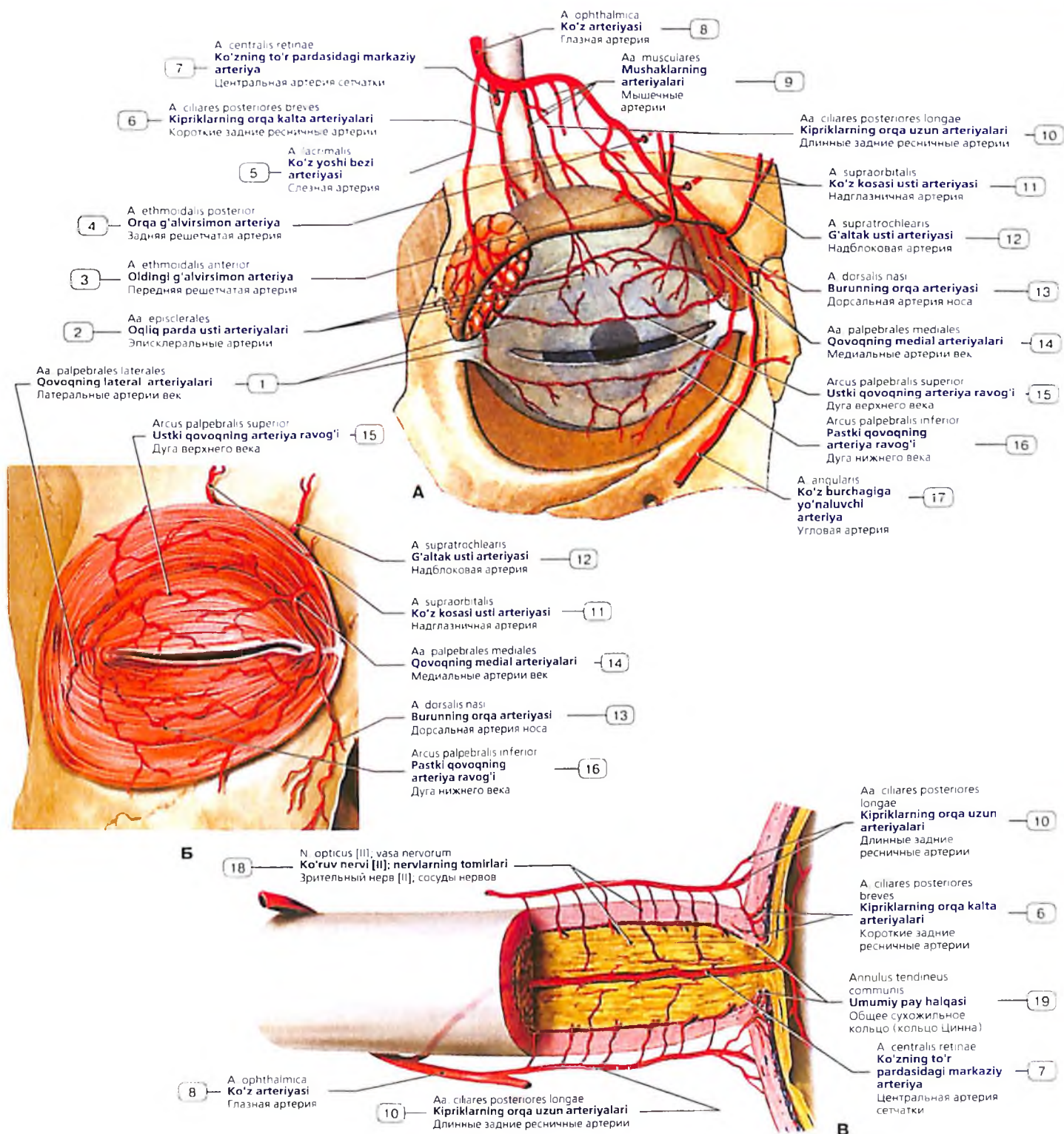
Б

Рис. № 358. Ко́з артерия и ее ветви (А — вид сбоку; Б — вид сверху).

- 1 Lacrimal artery
- 2 Posterior ciliary arteries
- 3 Ophthalmic artery
- 4 Internal carotid artery
- 5 Posterior ethmoidal artery
- 6 Anterior ethmoidal artery

- 7 Supra-orbital artery
- 8 Supratrochlear artery
- 9 Dorsal nasal artery
- 10 Optic nerve [II]
- 11 Central retinal artery
- 12 Short posterior ciliary arteries

- 13 Medial palpebral arteries
- 14 Long posterior ciliary arteries
- 15 Anastomotic branch with middle meningeal artery
- 16 Middle meningeal artery



Rasm № 359. Ko'z arteriyasi va uning tarmoqlari (A — oldindan ko'rinishi; B — ko'z arteriyasining ko'z kosasidan tashqariga yo'naluvchi tarmoqlari; B — ko'ruv nervida ko'z arteriyasining yo'nalishi).

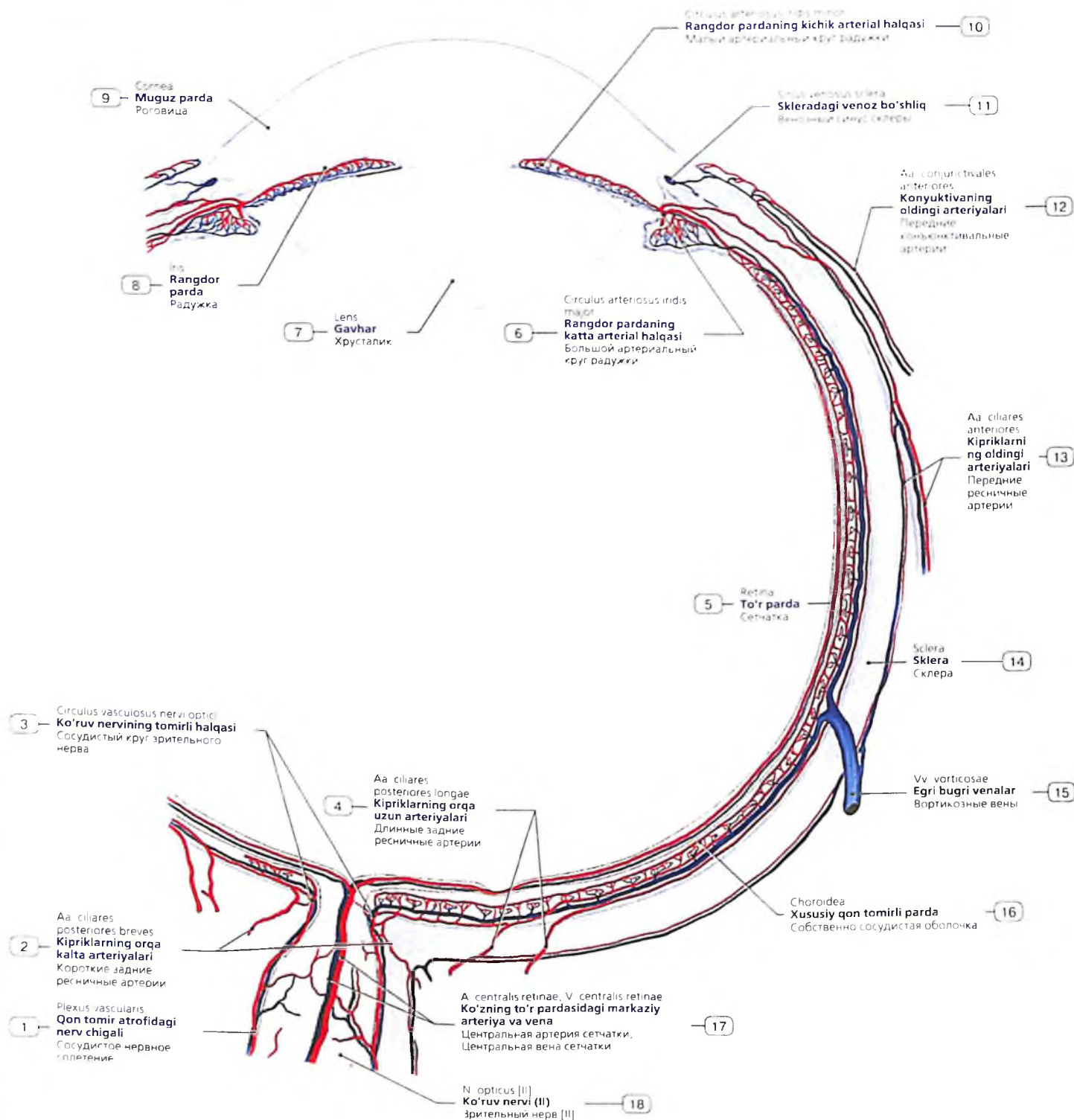
Рисунок № 359. Глазная артерия и ее ветви (A — вид спереди; B — внеглазные ветви глазной артерии; B — ход глазной артерии в зрительном нерве).

- 1 Lateral palpebral arteries
- 2 Episceral arteries
- 3 Anterior ethmoidal artery
- 4 Posterior ethmoidal artery
- 5 Lacrimal artery

- 6 Short posterior ciliary arteries
- 7 Central retinal artery
- 8 Ophthalmic artery
- 9 Muscular arteries
- 10 Long posterior ciliary arteries

- 11 Supra-orbital artery
- 12 Supratrochlear artery
- 13 Dorsal nasal artery
- 14 Medial palpebral arteries
- 15 Superior palpebral arch

- 16 Inferior palpebral arch
- 17 Angular artery
- 18 Optic nerve [III], vessels of nerve
- 19 Common tendinous ring, common anular tendon

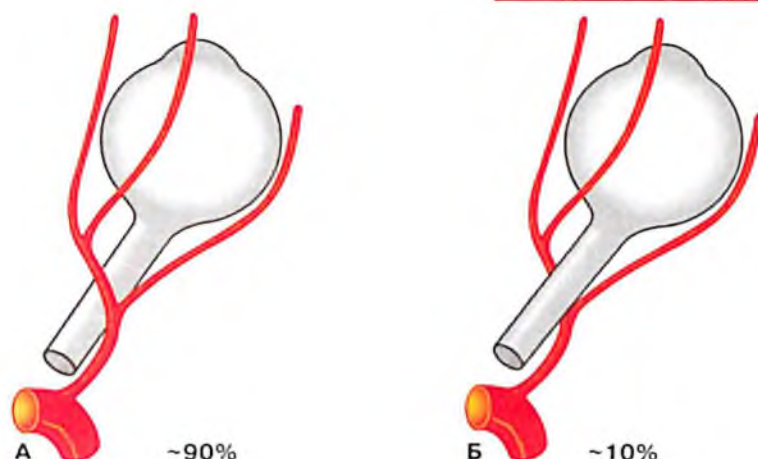


Rasm № 360. Ko'z olmasining qon bilan ta'minlanishi (chizma).
Рисунок № 360. Кровоснабжение глазного яблока (схема).

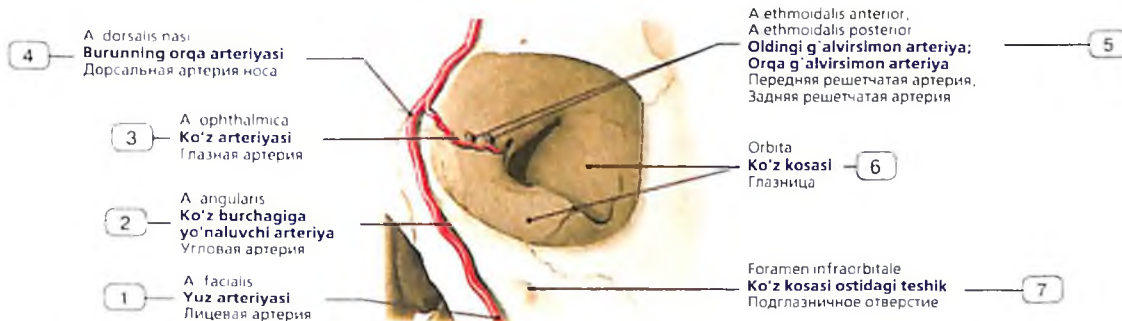
- 1 Vascular plexus
- 2 Short posterior ciliary arteries
- 3 Vascular circle of optic nerve
- 4 Long posterior ciliary arteries
- 5 Retina
- 6 Major circulus arteriosus of iris

- 7 Lens
- 8 Iris
- 9 Cornea
- 10 Minor circulus arteriosus of iris
- 11 Scleral venous sinus
- 12 Anterior conjunctival arteries

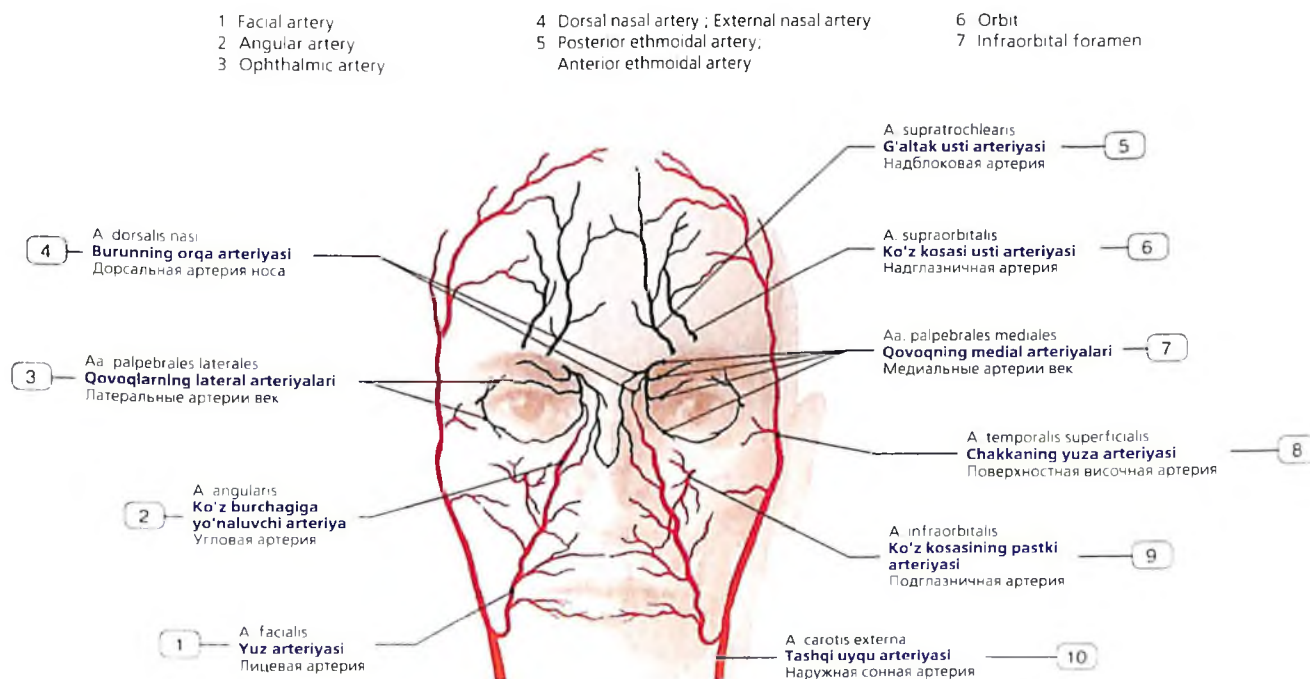
- 13 Anterior ciliary arteries
- 14 Sclera
- 15 Vorticosae veins
- 16 Choroid
- 17 Central retinal artery, (Central retinal vein)
- 18 Optic nerve [II]



Rasm № 361. Ko'z arteriyasining variantlari.
Рисунок № 361. Варианты глазной артерии.

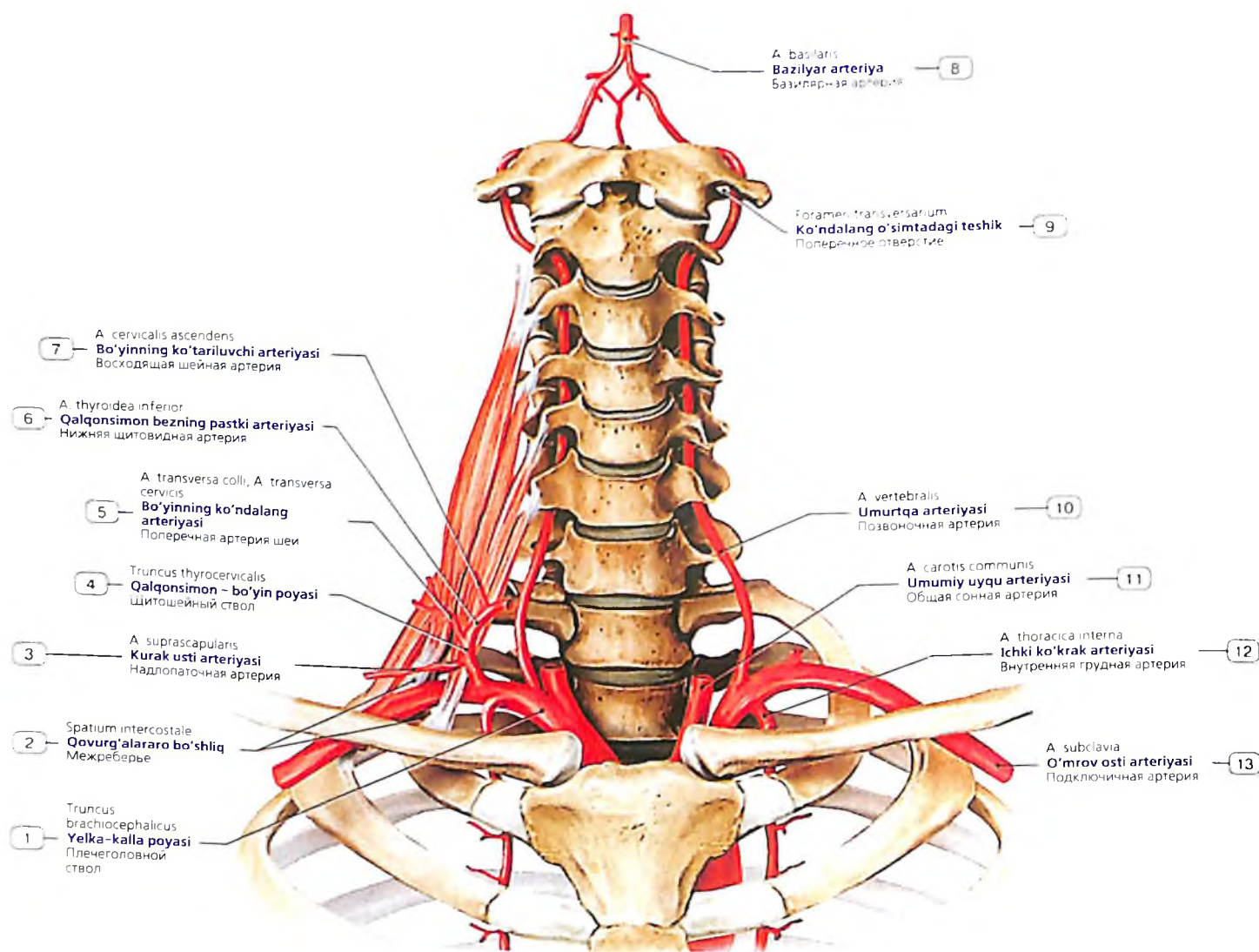


Rasm № 362. Tashqi va ichki uyqu arteriyalari orasidagi anastomoz.
Рисунок № 362. Анастомоз между наружной и внутренней сонной артериями.



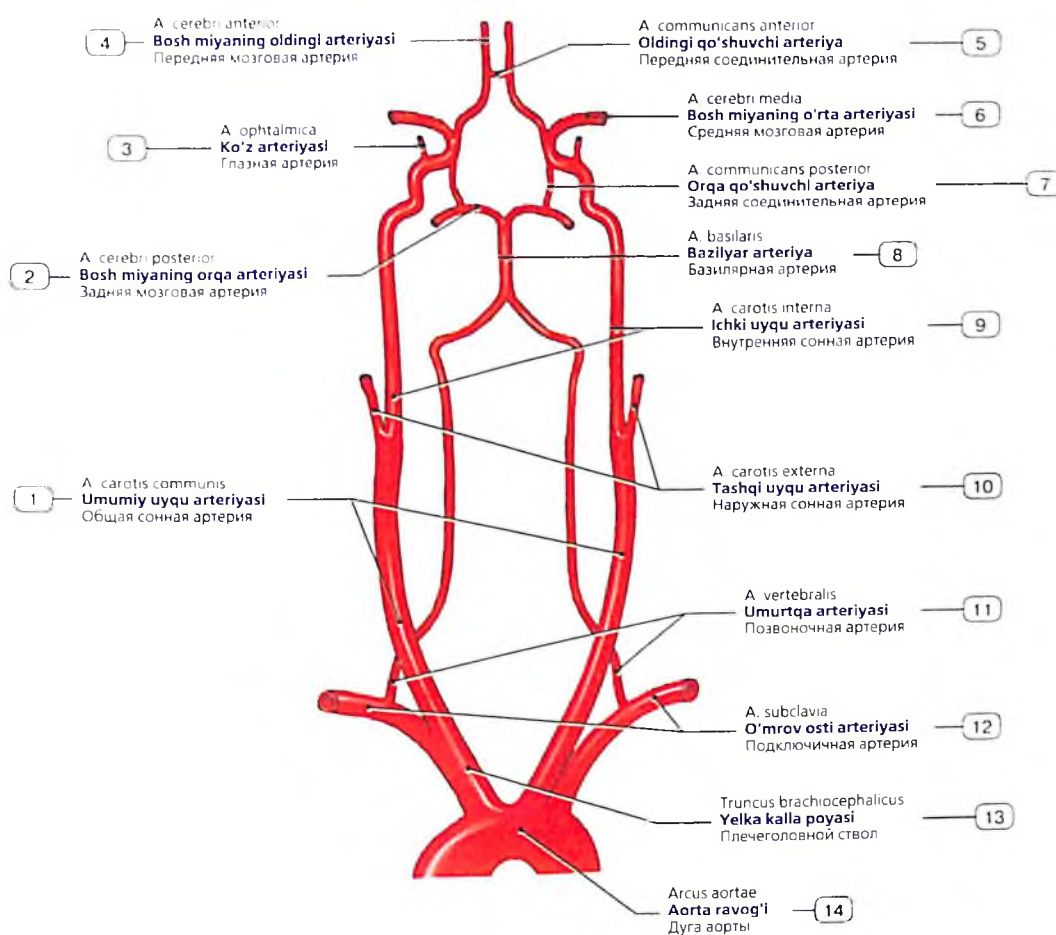
Rasm № 363. Yuzda tashqi va ichki uyqu arteriyalar tarmoqlarining tarqalishi.
Рисунок № 363. Распределение ветвей наружной и внутренней сонных артерий на лице.

- | | | | |
|-------------------------------|---|--------------------------------|-----------------------------|
| 1. Facial artery | 4. Dorsal nasal artery, External nasal artery | 7. Medial palpebral arteries | 10. External carotid artery |
| 2. Angular artery | 5. Supratrochlear artery | 8. Superficial temporal artery | |
| 3. Lateral palpebral arteries | 6. Supra-orbital artery | 9. Infraorbital artery | |



Rasm № 364. Umurtqa arteriyasi.
Рисунок № 364. Позвоночная артерия.

- | | |
|------------------------------|-----------------------------|
| 1 Brachiocephalic trunk | 8 Basilar artery |
| 2 Intercostal space | 9 Foramen transversarium |
| 3 Suprascapular artery | 10 Vertebral artery |
| 4 Thyrocervical trunk | 11 Common carotid artery |
| 5 Transverse cervical artery | 12 Internal thoracic artery |
| 6 Inferior thyroid artery | 13 Subclavian artery |
| 7 Ascending cervical artery | |

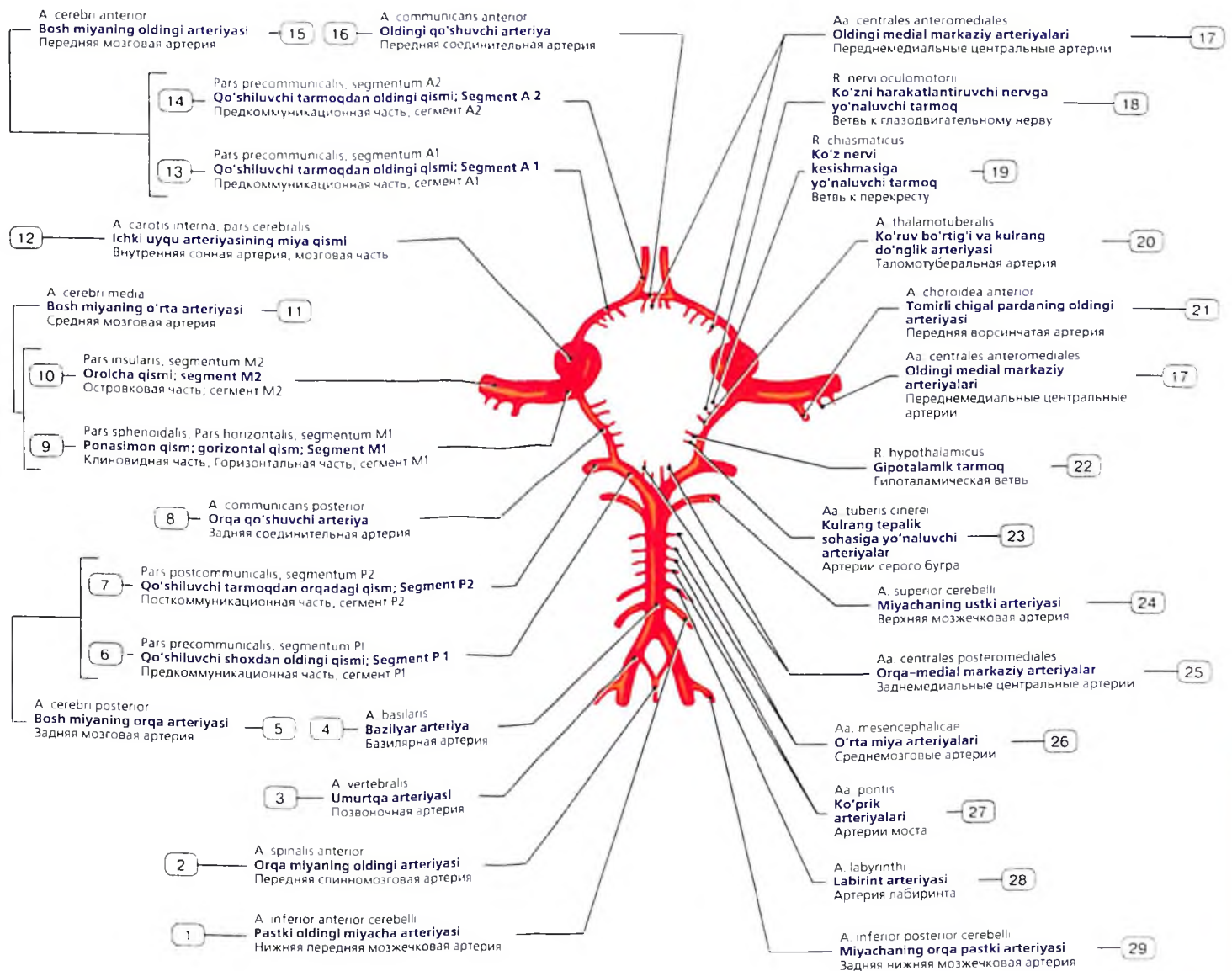


Rasm № 365. Miyaning qon bilan ta'minlanishi (chizma).
Рисунок № 365. Кровоснабжение мозга (схема).

- | | |
|----------------------------------|-------------------------------|
| 1 Common carotid artery | 8 Basilar artery |
| 2 Posterior cerebral artery | 9 Internal carotid artery |
| 3 Ophthalmic artery | 10 External carotid artery |
| 4 Anterior cerebral artery | 11 Vertebral artery |
| 5 Anterior communicating artery | 12 Subclavian artery |
| 6 Middle cerebral artery | 13 Brachiocephalic trunk |
| 7 Posterior communicating artery | 14 Arch of aorta, Aortic arch |

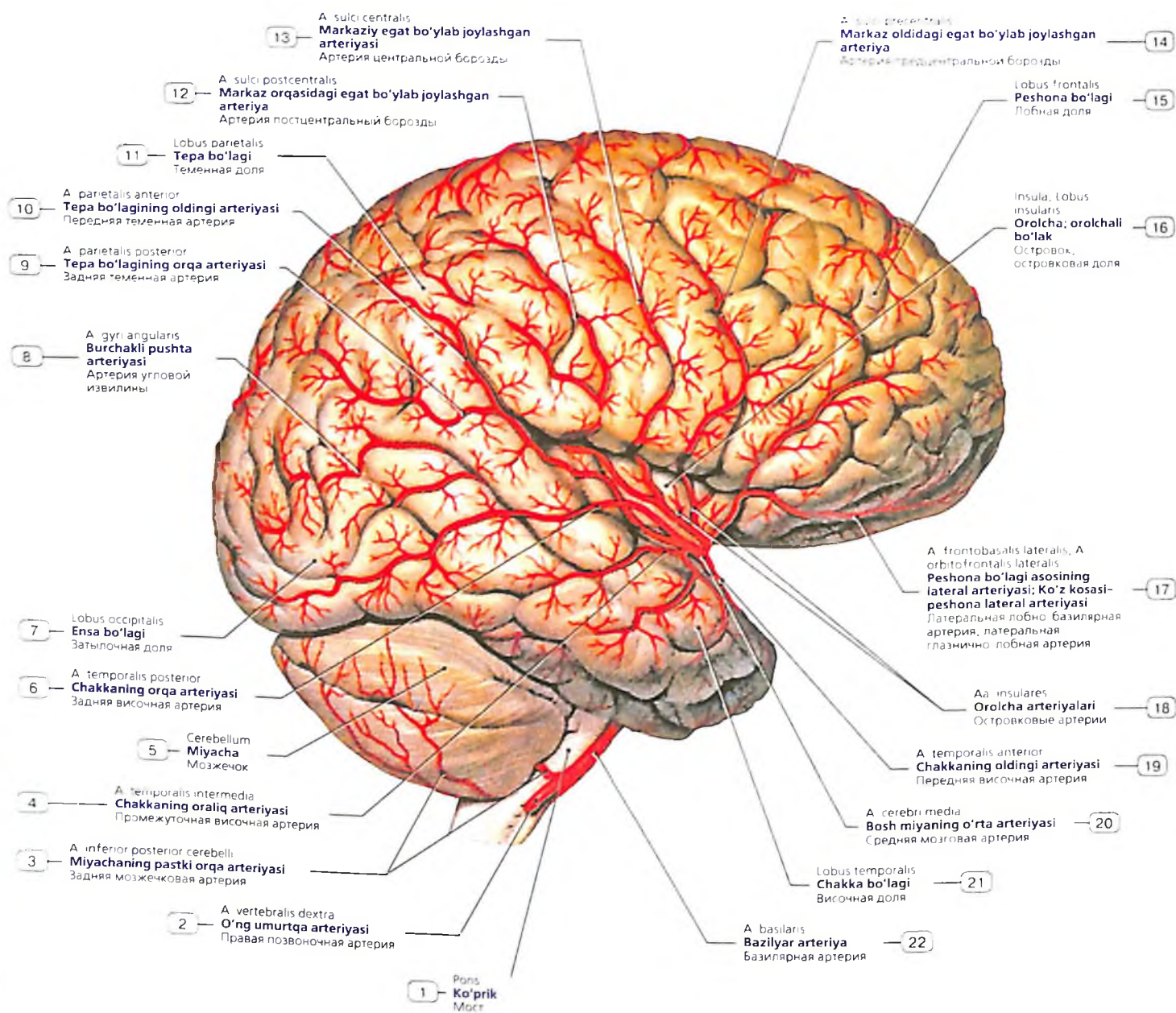


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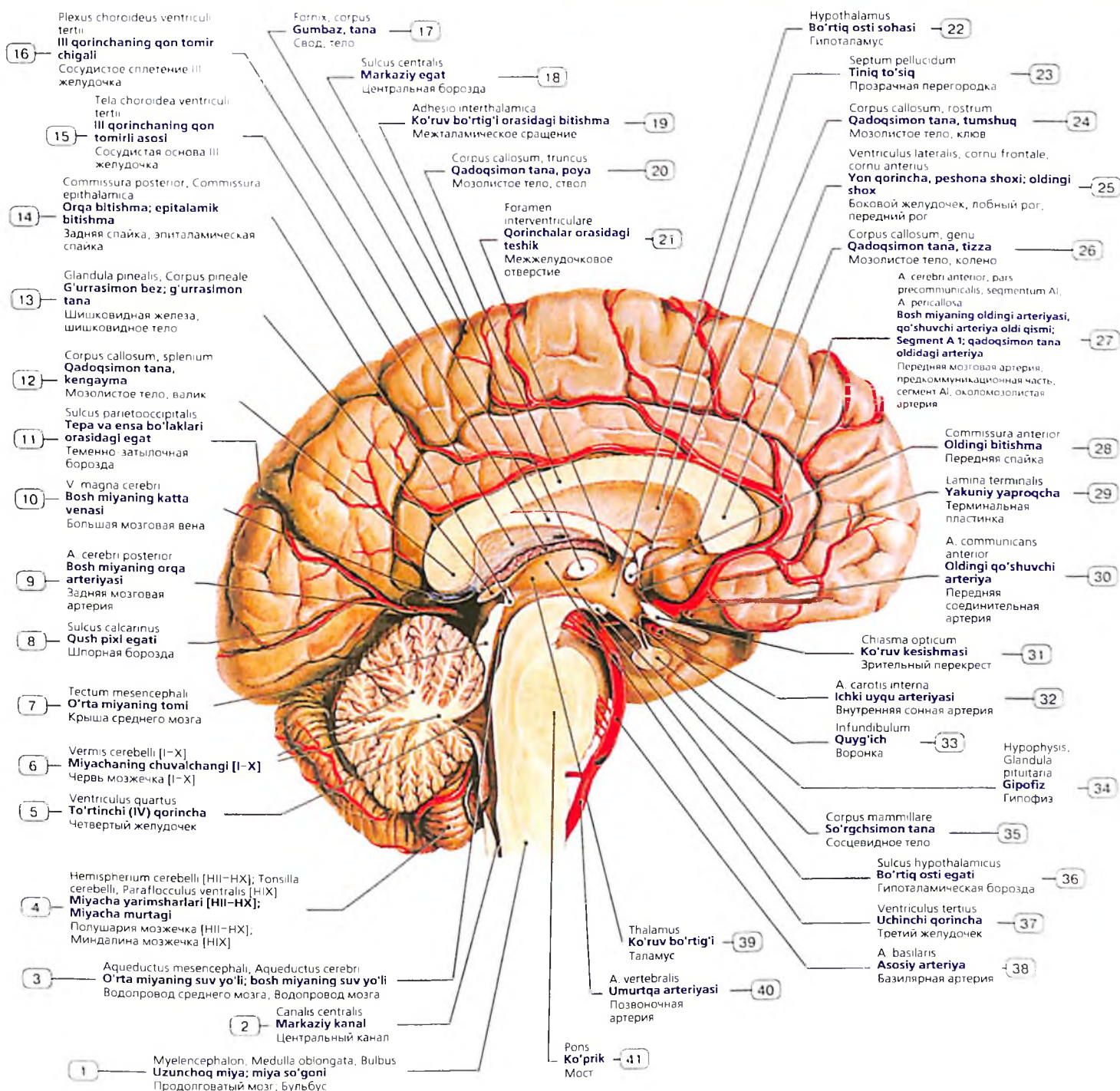
Rasm № 367. Katta miyaning (villiziye) arterial halqasi (chizma).
Рисунок № 367. Артериальный круг (виллизиев) большого мозга (схема).

- | | | |
|--|--|--|
| 1 Anterior inferior cerebellar artery | 11 Middle cerebral artery | 21 Branch of oculomotor nerve |
| 2 Anterior spinal artery | 12 Internal carotid artery, cerebral part | 22 Hypothalamic branch |
| 3 Vertebral artery | 13 Precommunicating part, A1 segment | 23 Artery of tuber cinereum |
| 4 Basilar artery | 14 Precommunicating part, A2 segment | 24 Superior cerebellar artery |
| 5 Posterior cerebral artery | 15 Anterior cerebral artery | 25 Posteromedial central arteries, Paramedian arteries |
| 6 Precommunicating part, P1 segment | 16 Anterior communicating artery | 26 Mesencephalic arteries |
| 7 Precommunicating part, P2 segment | 17 Anteromedial central arteries | 27 Pontine arteries |
| 8 Posterior communicating artery | 18 Branch to oculomotor nerve | 28 Labyrinthine artery |
| 9 Sphenoid part, Horizontal part, M1 segment | 19 Chiasmatic branch | 29 Posterior inferior cerebellar artery |
| 10 Insular part, M2 segment | 20 Thalamotuberal artery, Premammillary artery | |



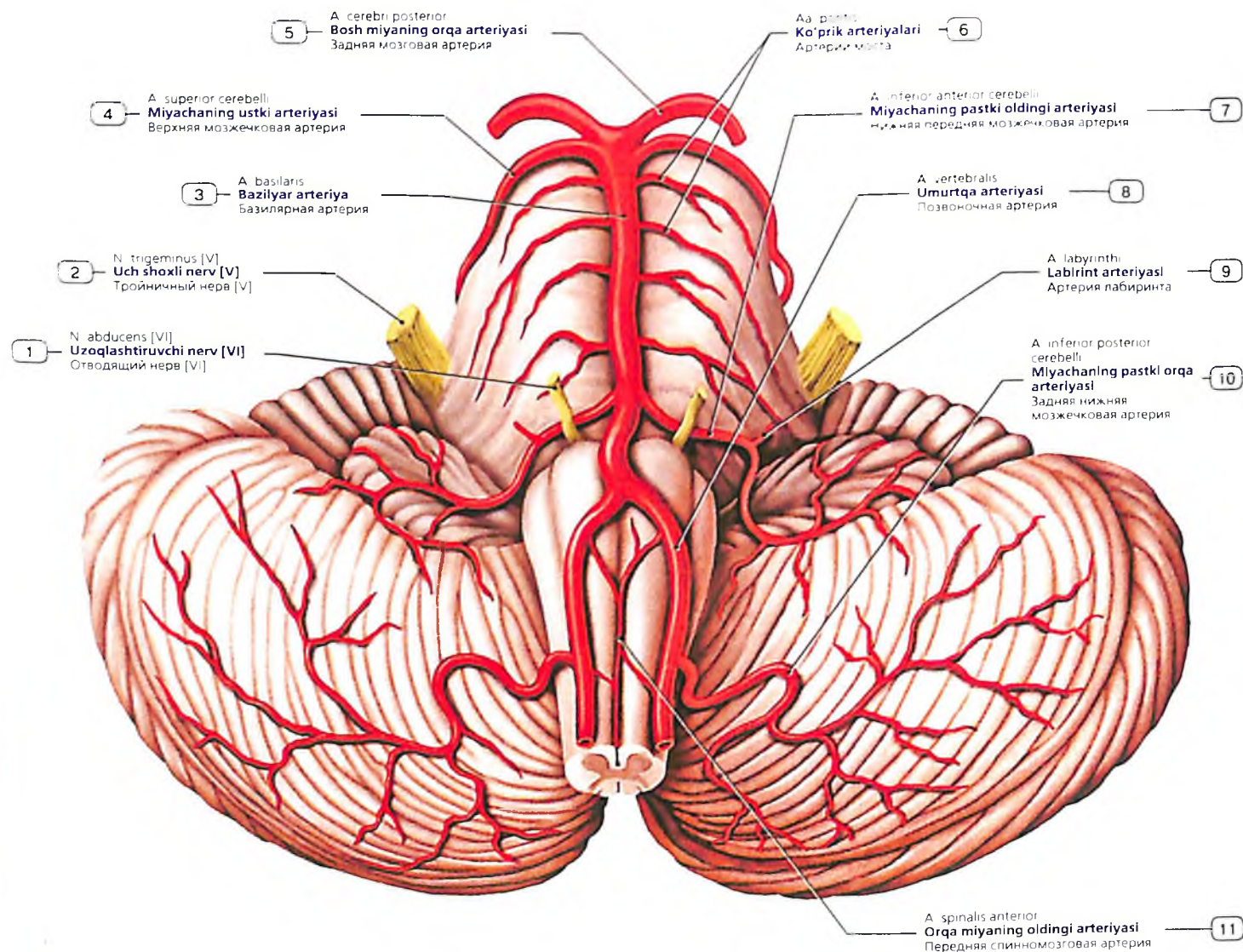
Rasm № 368. Bosh miya arteriyalari, o'ng yarim shar, yuqori-yon yuzasi, chakka qismi ajratilgan.
Рисунок № 368. Артерии головного мозга, правое полушарие, верхнелатеральная поверхность, височная доля отведена.

- | | |
|--|---|
| 1 Pons | 12 Artery of postcentral sulcus |
| 2 Right vertebral artery | 13 Artery of central sulcus |
| 3 Posterior inferior cerebellar artery | 14 Artery of precentral sulcus |
| 4 Intermediate temporal artery | 15 Frontal lobe |
| 5 Cerebellum | 16 Insula; Insular lobe |
| 6 Posterior temporal artery | 17 Lateral frontobasal artery, Lateral orbitofrontal artery |
| 7 Occipital lobe | 18 Insular arteries |
| 8 Angular gyrus artery | 19 Anterior temporal artery |
| 9 Posterior parietal artery | 20 Middle cerebral artery |
| 10 Anterior parietal artery | 21 Temporal lobe |
| 11 Parietal lobe | 22 Basilar artery |



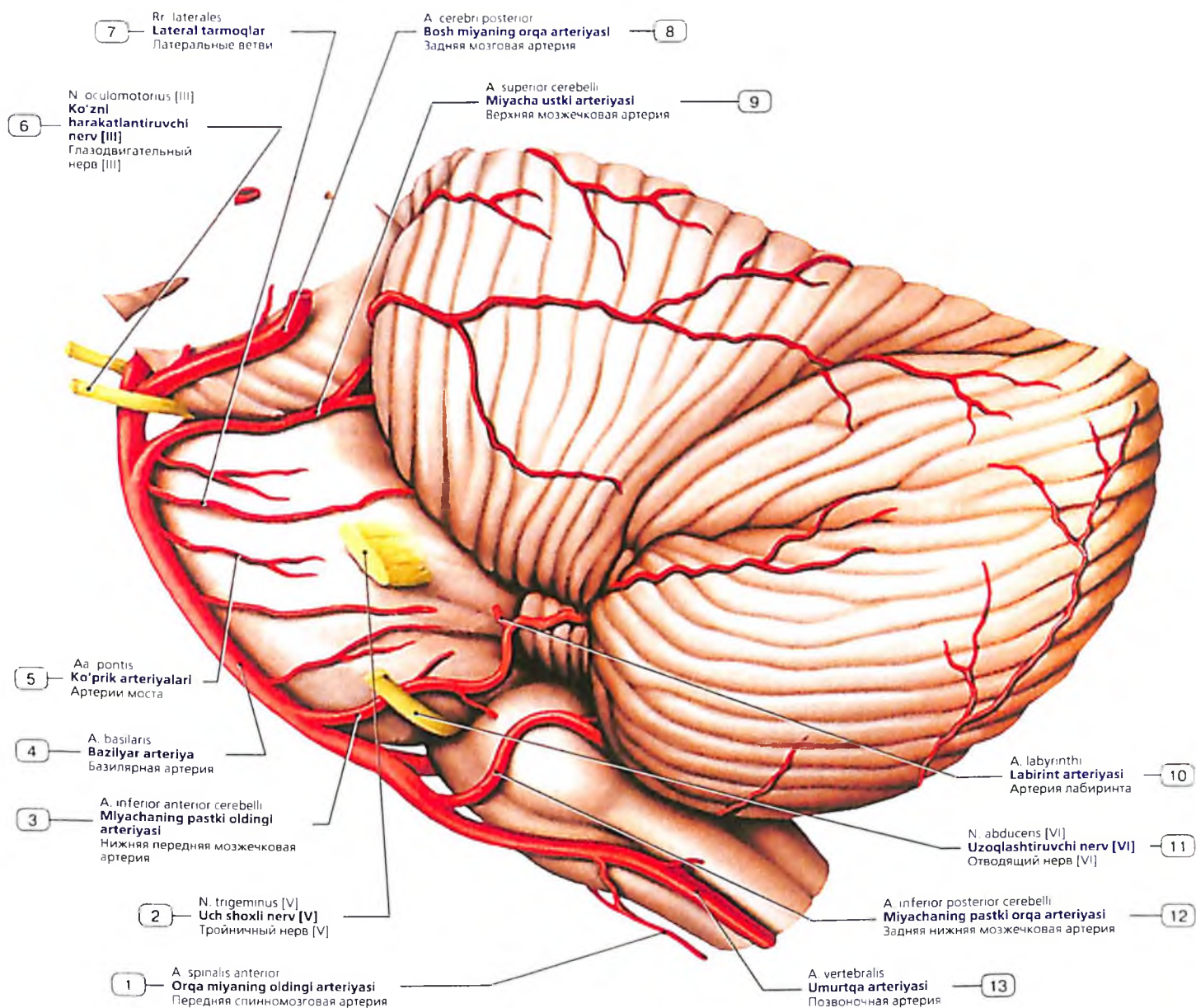
Rasm № 369. Miya arteriyalari, medial yuzasi.
Рисунок № 369. Артерии мозга, медиальная поверхность.

- | | | | |
|--|---|---|------------------------------|
| 1 Myelencephalon, Medulla oblongata, Bulb | 10 Great cerebral vein | 22 Hypothalamus | 32 Internal carotid artery |
| 2 Central canal | 11 Parieto-occipital sulcus | 23 Septum pellucidum | 33 Infundibulum |
| 3 Aqueduct of midbrain, cerebral aqueduct | 12 Corpus callosum, splenium | 24 Corpus callosum, rostrum | 34 Pituitary gland |
| 4 Hemisphere of cerebellum [HII-HX]; Tonsil of cerebellum, Ventral paraflocculus [HIX] | 13 Pineal gland; Pineal body | 25 Lateral ventricle, frontal horn, anterior horn | 35 Mammillary body |
| 5 Fourth ventricle | 14 Posterior commissure | 26 Corpus callosum, genu | 36 Hypothalamic sulcus |
| 6 Vermis of cerebellum [I-X] | 15 Tela choroidea of third ventricle | 27 Anterior cerebral artery, precommunicating part, Asegment; Pericallosal artery | 37 Third ventricle |
| 7 Tectum of midbrain | 16 Choroid plexus of third ventricle | 28 Anterior commissure | 38 Basilar artery |
| 8 Calcarine sulcus | 17 Fornix, body | 29 Lamina terminalis | 39 Thalamus, Dorsal thalamus |
| 9 Posterior cerebral artery | 18 Central sulcus | 30 Anterior communicating artery | 40 Vertebral artery |
| | 19 Interthalamic adhesion, Massa intermedia | 31 Optic chiasm, Optic chiasma | 41 Pons |
| | 20 Corpus callosum, trunk, body | | |
| | 21 Interventricular foramen | | |



Rasm № 370. Miyacha va miya so'g'onining arteriyalari, pastdan ko'rinishi.
Рисунок № 370. Артерии мозжечка и ствола мозга, вид снизу.

- | | |
|---------------------------------------|---|
| 1 Abducent nerve, Abducens nerve [VI] | 7 Anterior inferior cerebellar artery |
| 2 Trigeminal nerve [V] | 8 Vertebral artery |
| 3 Basilar artery | 9 Labyrinthine artery |
| 4 Superior cerebellar artery | 10 Posterior inferior cerebellar artery |
| 5 Posterior cerebral artery | 11 Anterior spinal artery |
| 6 Pontine arteries | |



Rasm № 371. Miyacha va miya so'g'onining arteriyalari, yon tomondan ko'rinishi.
Рисунок № 371. Артерии мозжечка и ствола мозга, вид сбоку.

- | | |
|---------------------------------------|---|
| 1 Anterior spinal artery | 8 Posterior cerebral artery |
| 2 Trigeminal nerve [V] | 9 Superior cerebellar artery |
| 3 Anterior inferior cerebellar artery | 10 Labyrinthine artery |
| 4 Basilar artery | 11 Abducent nerve, Abducens nerve [VI] |
| 5 Pontine arteries | 12 Posterior inferior cerebellar artery |
| 6 Oculomotor nerve [III] | 13 Vertebral artery |
| 7 Lateral branches | |

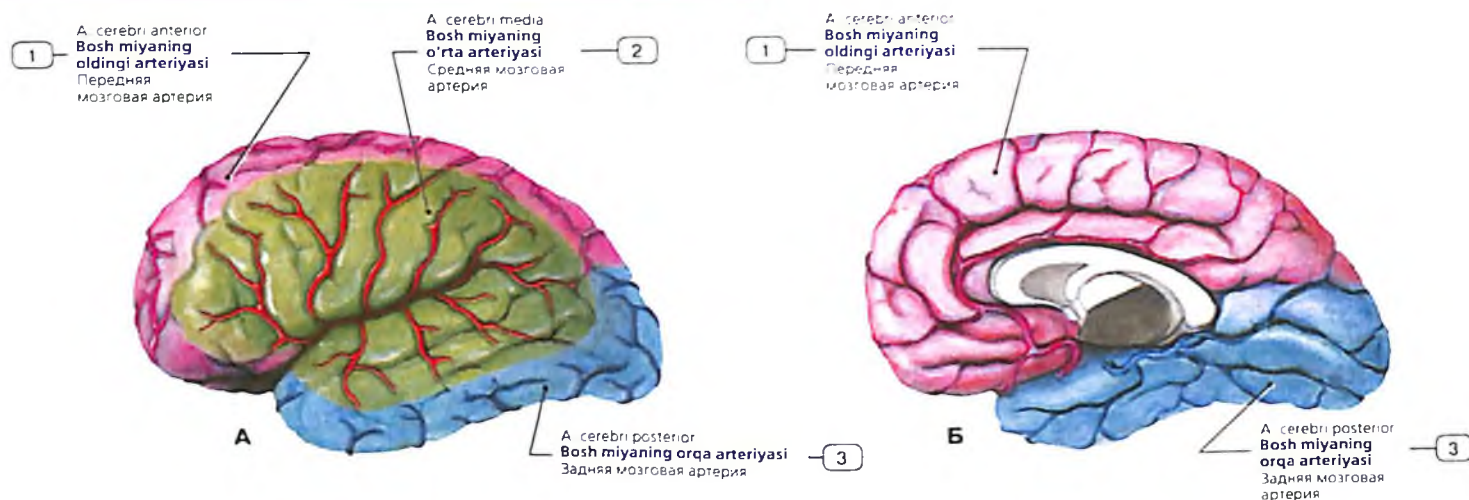


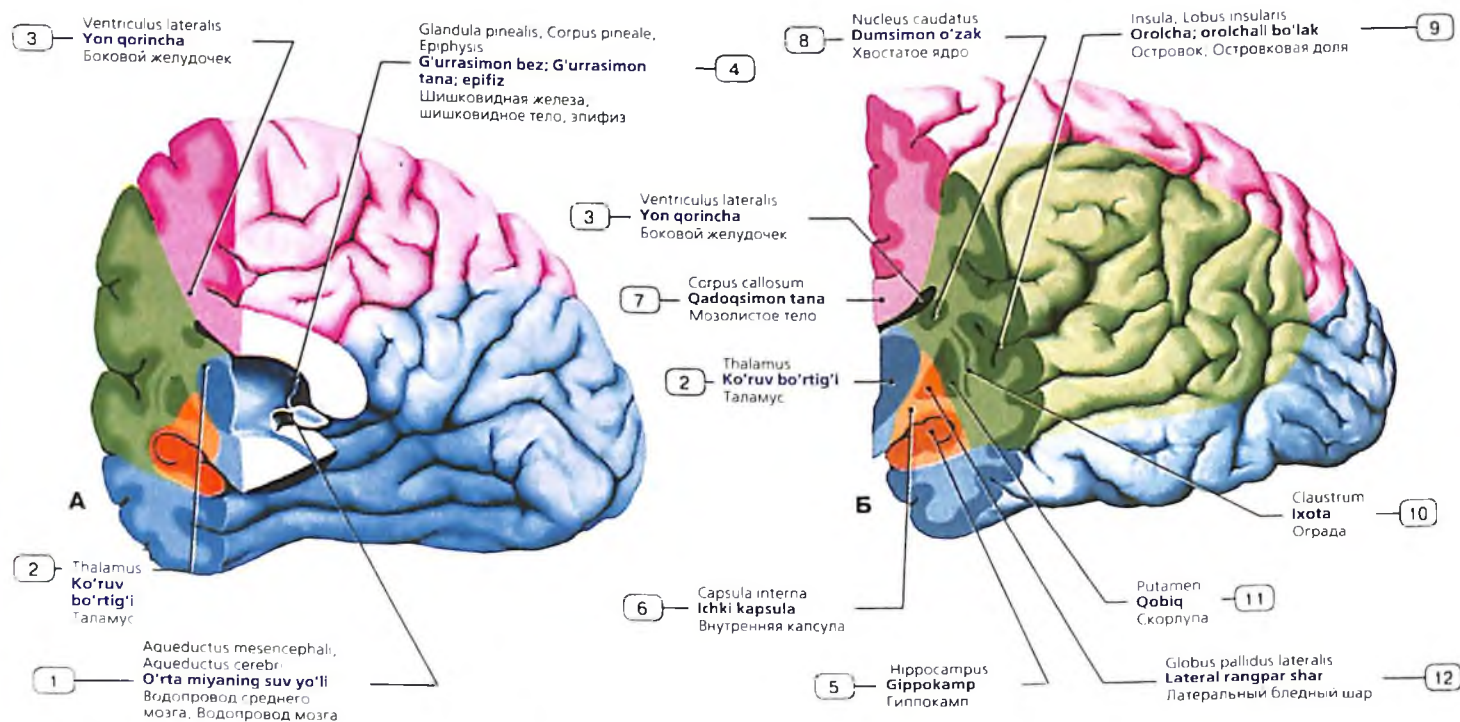
Рис. № 372. Блш мианнг қон билан та'минланнш соһаларн, бннфаша рангда — блш мианнг олдын артернн, яшнл рангда — блш мианнг о'рта артернн, ко'к рангда — Блш мианнг орқа артернн (А — чп Yarнм шар; Б — о'нг yarнм шар).

Рнсунок № 372. Области кровоснабжения головного мозга, фиолетовый цвет — передняя мозговая артерн, зеленый цвет — средняя мозговая артерн, синий цвет — задняя мозговая артерн (А — левое полушарне; Б — правое полушарне).

1 Anterior cerebral artery

2 Middle cerebral artery

3 Posterior cerebral artery



Рнсунок № 373. Блш мианнг қон билан та'минланнш соһаларн, бннфаша рангда — блш мианнг олдын артернн, яшнл рангда — блш мианнг о'рта артернн, ко'к рангда — Блш мианнг орқа артернн (А — о'нг yarнм шар, medнal yuzasn; Б — чп yarнм шар, yuqorн-yon yuzasn).

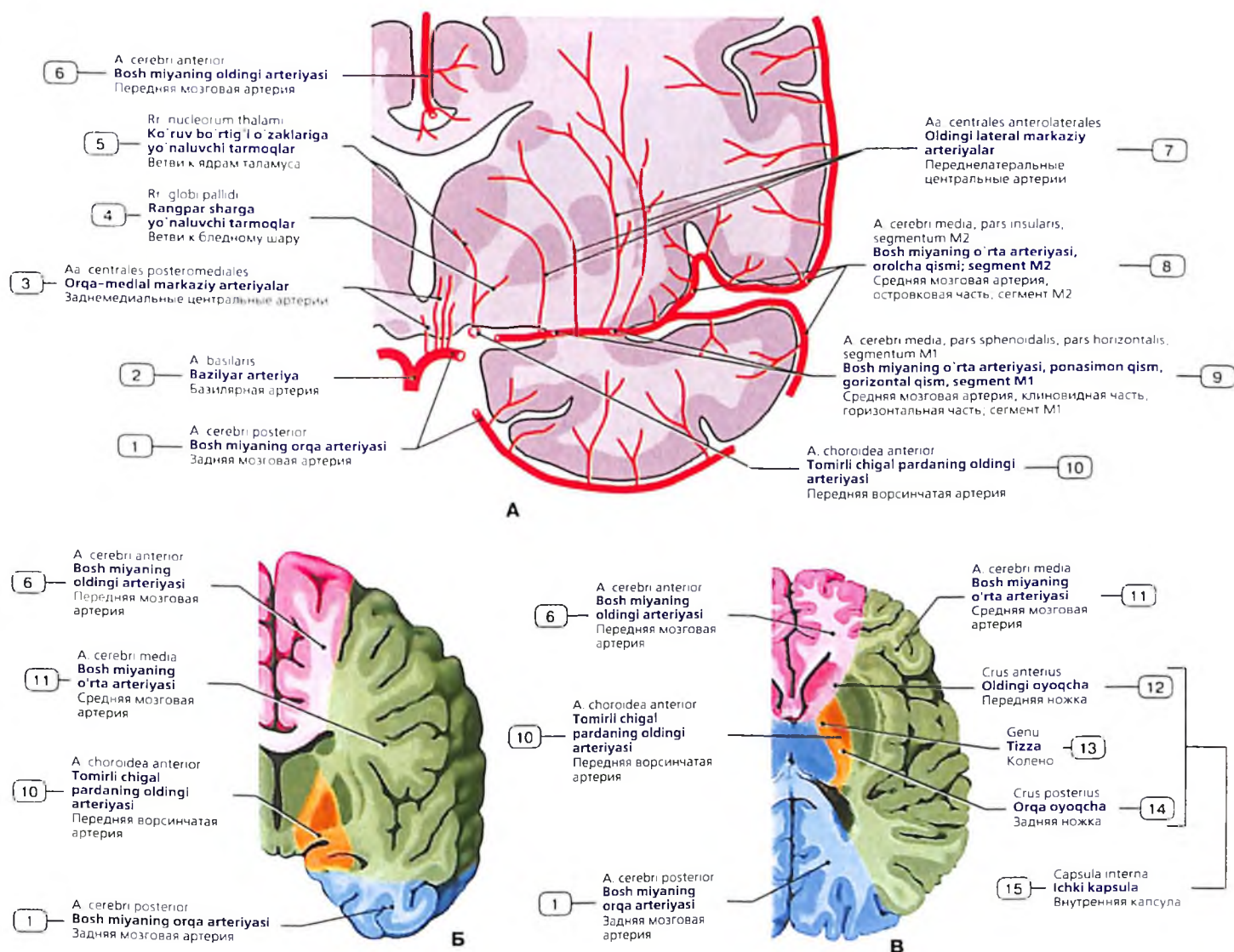
Рнсунок № 373. Области кровоснабжения головного мозга, фиолетовый цвет — передняя мозговая артерн, зеленый цвет — средняя мозговая артерн, синий цвет — задняя мозговая артерн (А — правое полушарне, меднальная поверхность; Б — левое полушарне, верхнелатеральная поверхность).

1 Aqueduct of midbrain, Cerebral aqueduct
2 Thalamus, Dorsal thalamus
3 Lateral ventricle

4 Pineal gland, Pineal body, epiphysis
5 Hippocampus
6 Internal capsule

7 Corpus callosum
8 Caudate nucleus
9 Insula, Insular lobe

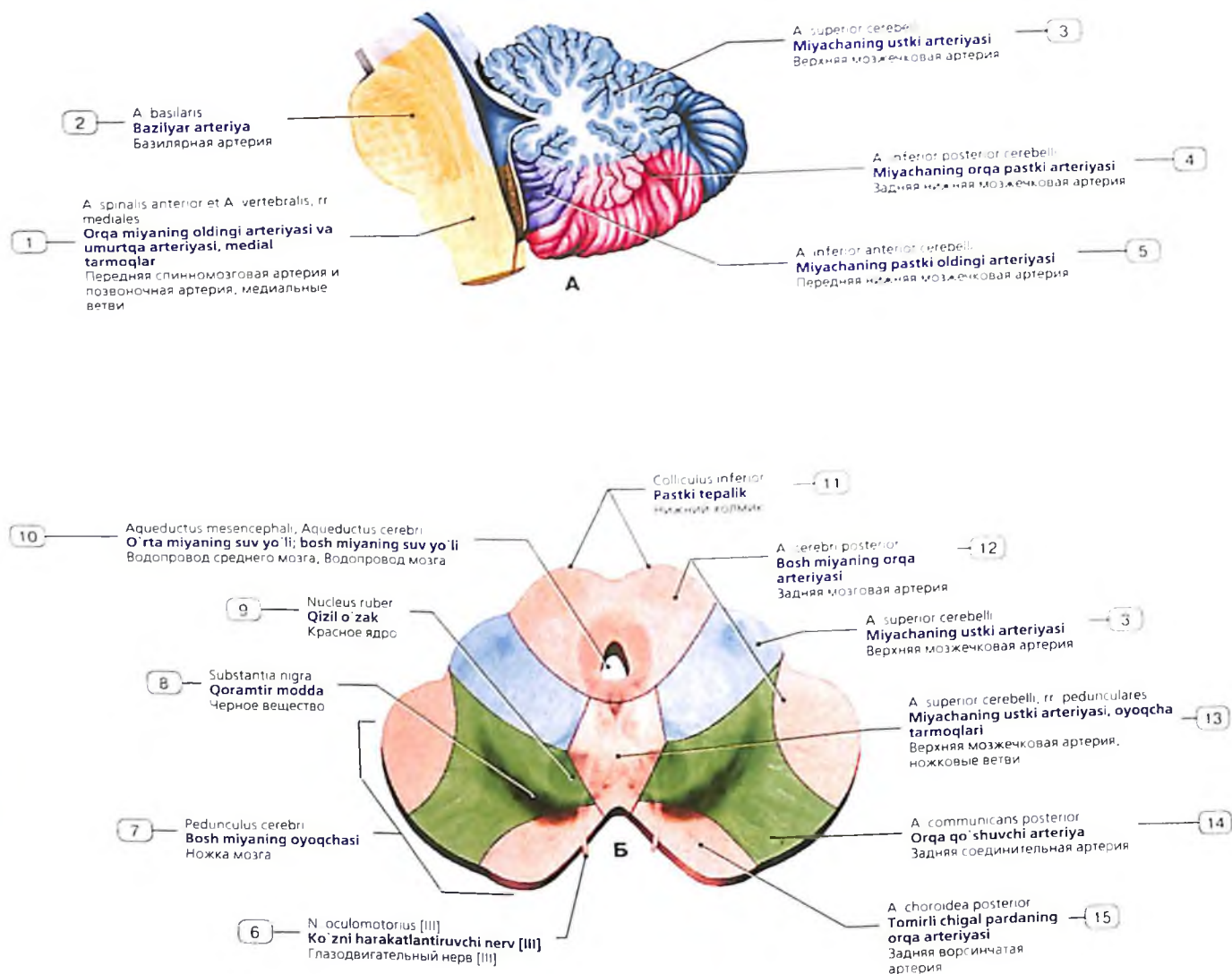
10 Claustrum
11 Putamen
12 Globus pallidus lateral segment



Rasm № 374. Bosh miyaning qon bilan ta'minlanish sohalari [A — bosh miyada asosiy arteriyalarning taqsimlanishi frontal kesmada (so'rg'ichsimon tanalar sohasida tojsimon kesma) (chizma); B — frontal kesma — so'rg'ichsimon tanalar sohasida tojsimon kesma; B — ichki kapsulasi sohasida ko'ndalang kesma].

Рисунок № 374. Области кровоснабжения головного мозга [A — распределение основных артерий в головном мозге на фронтальном срезе (венечное сечение на уровне сосцевидных тел) (схема); B — фронтальный срез — венечное сечение на уровне сосцевидных тел; B — поперечное сечение на уровне внутренней капсулы].

- | | | |
|--|---|----------------------------------|
| 1. Posterior cerebral artery | 6. Anterior cerebral artery | 10. Anterior choroidal artery |
| 2. Basilar artery | 7. Anterolateral central arteries; lenticulostriate arteries | 11. Middle cerebral artery |
| 3. Posteromedial central arteries, paramedian arteries | 8. Middle cerebral artery, insular part, M2 segment | 12. Anterior limb |
| 4. Branches to globus pallidus | 9. Middle cerebral artery, sphenoid part, horizontal part, M1 segment | 13. Genu |
| 5. Branches to thalamic nuclei | | 14. Posterior limb |
| | | 15. 15=12+13+14 Internal capsule |



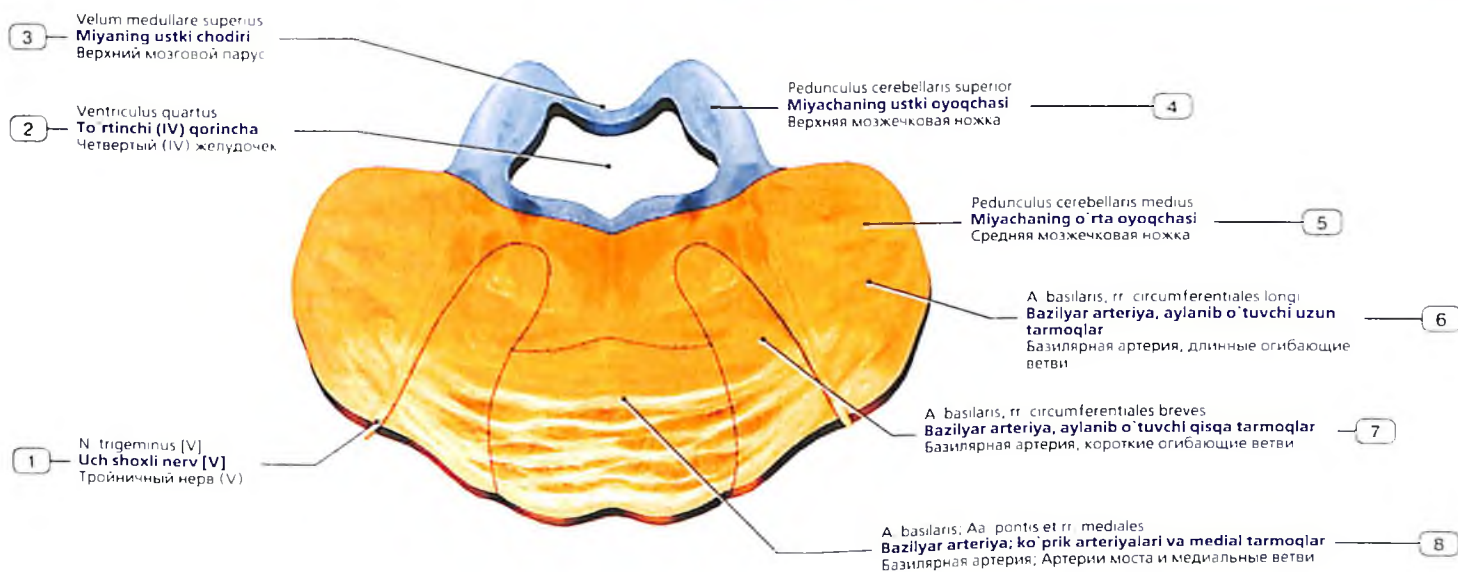
Rasm № 375. Miya pog'onasining va miyacha arteriyalarining taqsimlanishi
(A — miya pog'onasi va miyacha, o'rta sagittal kesmasi; B — o'rta miya, ko'ndalang kesmasi).

Рисунок № 375. Распределение артерий ствола мозга и мозжечка
(A — ствол мозга и мозжечок, средний сагиттальный срез; B — средний мозг, поперечный срез).

1. Anterior spinal artery and vertebral artery, medial branches, paramedian pontine branches
2. Basilar artery
3. Superior cerebellar artery
4. Posterior inferior cerebellar artery
5. Anterior inferior cerebellar artery

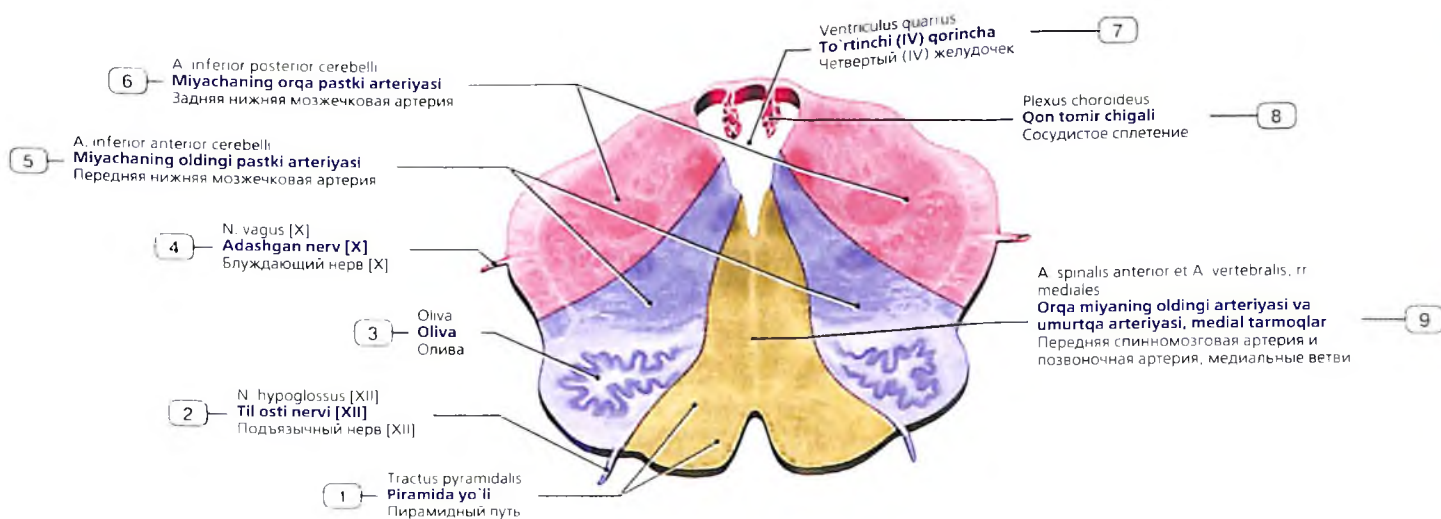
6. Oculomotor nerve [III]
7. Cerebral peduncle
8. Substantia nigra
9. Red nucleus
10. Aqueduct of midbrain, Cerebral aqueduct
11. Inferior colliculus

12. Posterior cerebral artery
13. Superior cerebellar artery, peduncular branches
14. Posterior communicating artery
15. Posterior choroidal artery



Rasm № 376. Miya so'g'onining va miyacha arteriyalarining taqsimlanishi (ko'prik, ko'ndalang kesmasi).
Рисунок № 376. Распределение артерий ствола мозга и мозжечка (мост, поперечный срез).

- | | |
|--------------------------------|---|
| 1 Trigeminal nerve [V] | 6 Basilar artery, long circumferential branches |
| 2 Fourth ventricle | 7 Basilar artery, short circumferential branches |
| 3 Superior medullary velum | 8 Basilar artery, pontine arteries and medial branches; paramedian pontine branches |
| 4 Superior cerebellar peduncle | |
| 5 Middle cerebellar peduncle | |

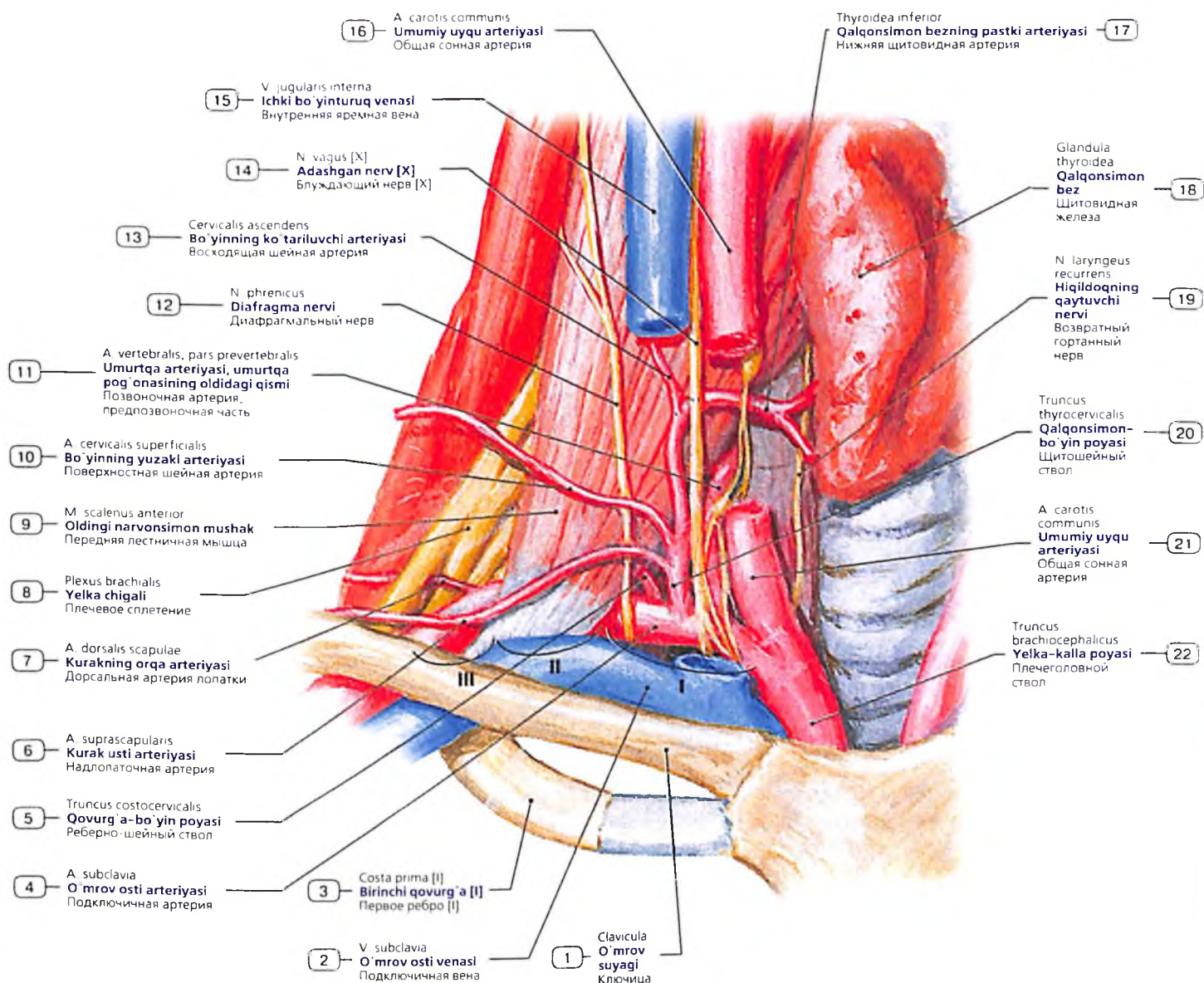


Rasm № 377. Uzunchoq miya arteriyalarining taqsimlanishi (ko'ndalang kesmasi).
Рисунок № 377. Распределение артерий продолговатого мозга (поперечный срез).

- | | |
|---------------------------------------|---|
| 1 Pyramidal tract | 6 Posterior inferior cerebellar artery |
| 2 Hypoglossal nerve [XII] | 7 Fourth ventricle |
| 3 Inferior olive | 8 Vascular plexus |
| 4 Vagus nerve [X] | 9 Anterior spinal artery and Vertebral artery, medial branches, paramedian pontine branches |
| 5 Anterior inferior cerebellar artery | |

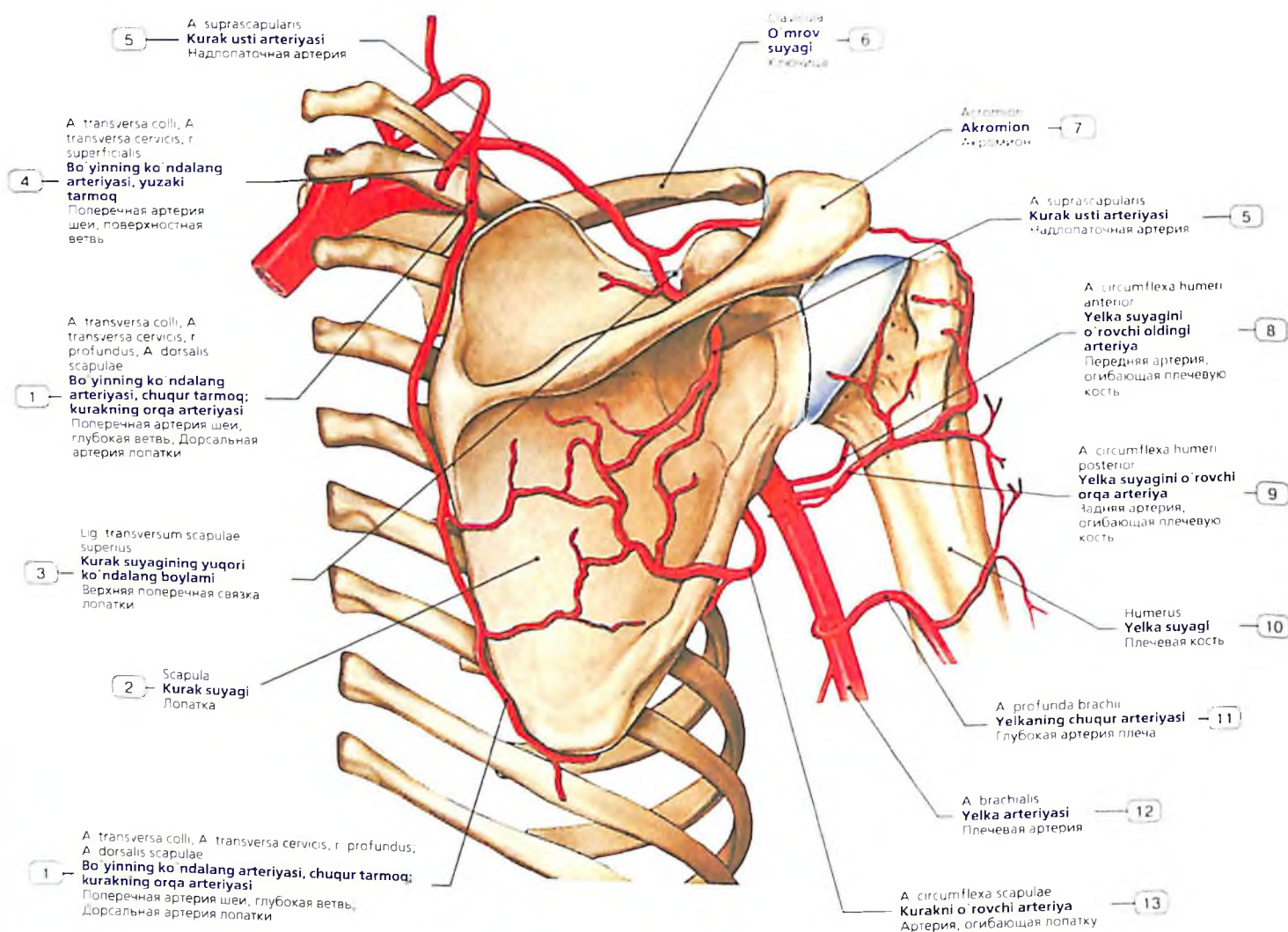
28-jadval. O'mrov osti arteriyasi va uning tarmoqlari

Arteriya nomi va uning tarmoqlari	Boshlanishi	Arteriya yo'nalishi	Qon bilan ta'minlaydigan a'zolar (soha)
O'mrov osti arteriyasi	O'ng arteriya yelka- kalla poyasidan, chap aorta ravog'idan chiqadi	Plevra gumbazini aylanib, I - qovurg'a ustidan o'tib, qo'lliq osti chuqurchasiga yo'naladi	Qisman bosh miya (miyacha, uzunchoq miya, miya oyoqchalari, bosh miya yarimsharlirining ensa va chakka bo'lagi, qisman bazal o'zaklar, o'rta miya, oraliq miya, orqa miyaning bo'yin qismi (orqa miya chuqurchasi), bo'yin a'zolari va mushaklari
Umurtqa arteriyasi 1,2. Orqa miyaning oldingi va orqa arteriyalari 3. Miyachaning orqa pastki arteriyasi 4. Miya pardalariga yo'naluvchi tarmoqlar 5. IV qorincha chigaliga yo'naluvchi tarmoq	VII bo'yin umurtqasining ko'ndalang o'sig'i sathida, o'mrov osti arteriyasining yuqori qismida	VII-I bo'yin umurtqalarining ko'ndalang o'siqlari teshiklaridan yuqoriga va katta ensa teshigi orqali kalla bo'shlig'iga yo'naladi	Miyacha, uzunchoq miya, orqa miya, orqa miya nervlarining bo'yin qismi ildizlari, miya pardalari, bo'yinning chuqur mushaklari
Bazillyar (asos arteriyasi) 1. Miyachaning pastki oldingi arteriyasi 2. Miyachaning ustki arteriyasi 3. Labirint arteriyasi 4. Ko'prik arteriyasi 5. O'rta miya arteriyalari	Miya ko'prigining orqa qismida o'ng va chap umurtqa arteriyalarining qo'shilishidan hosil bo'ladi	Miya ko'prigi o'rtasidan o'tgan ariqchada (sulcus bazillaris) yotadi	Ko'prik, miyacha, uzunchoq miya, miya oyoqchalari, qisman oraliq miya, bosh miyaning ensa bo'lagi (miya po'stlog'i, bosh miyaning oq moddasi), ichki quloq
Miyaning orqa arteriyasi. Asos arteriyasidan tarmoqlanib, Villizi arteriya halqasini hosil qilishda qatnashadi	Miya ko'prigining old qismida asos arteriyasi 2 ga bo'linadi: o'ng va chap miya arteriyalari	Miyaning lateral oyoqchalarini aylanib o'tadi	Bosh miyaning ensa bo'lagi, chakka bo'lagining pastki qismi, bazal o'zaklar, o'rta miya, oraliq miya, miya oyoqchalari
Ichki ko'krak arteriyasi 1. Ko'ks oraliq'i tarmoqlari 2. Ayrisimon bez tarmoqlari 3. Bronxlar tarmoqlari 4. Oldingi qovurg'alararo tarmoqlar 5. Perikard va diafragma arteriyasi 6. Diafragma mushaklari ning arteriyasi 7. Qorin devorining ustki arteriyasi	O'mrov osti arteriyasi chiqqan joy qarshisida, narvonsimon muskullararo oraliq'ida boshlanadi	I - qovurg'aning tog'ay qismidan vertikal pastga, oldingi ko'krak devorining orqa yuzasi to'sh qirg'og'i bo'ylab yo'naladi	Ko'krakning va qorinning oldingi sohasi, to'sh suyagi, diafragma, ayrisimon bez, plevra, perikard, ko'krak bezi, qorinning to'g'ri muskuli, traxeyaning pastki qismi, asosiy bronx
Qalqonsimon - bo'yin poyasi 1. Pastki qalqonsimon arteriya 2. Bo'yinning ko'taruvchi arteriyasi 3. Kurak usti arteriyasi 4. Bo'yinning yuza arteriyasi	Oldingi narvonsimon mushakning medial qirrasidan boshlanadi	Yo'g'on va kalta bo'lib, mushak va a'zolariga qarab yo'naladi	Qalqonsimon bez, hiqildoq, yutqinning hiqildoq qismi, qizilo'ngachning bo'yin qismi, traxeya. Mushaklari: til osti suyagining ostidagi mushaklar, trapetsiyasimon, kurakni ko'taruvchi mushak, kurak qirrası ustidagi va kurak qirrası ostidagi mushaklar, bosh va bo'yinning tasmasimon mushaklari
Qovurg'a - bo'yin poyasi 1. Bo'yinning chuqur arteriyasi 2. Eng yuqorigi qovurg'alararo arteriya	O'mrov osti arteriyasidan narvonsimon muskullararo oraliq'idan chiqadi	I qovurg'a bo'yinchasidan yuqoriga va orqaga yo'naladi	Bo'yinning chuqur mushaklari, orqa miya (bo'yin qismi) va uning pardalari, I-II qovurg'a oraliq'ining terisi va mushaklari
Bo'yinning ko'ndalang arteriyasi (doimiy bo'lmagan)	O'mrov osti arteriyasining yuqori qismidan boshlanadi	Yelka chigalini orasidan o'tib, tashqariga va kurakning lateral yuqori burchagiga yo'naladi	Mushaklar: bo'yinning teri osti mushagi, kurak-til osti mushagining pastki qorinchasi, to'sh o'mrov- so'rg'ichsimon mushagi, katta va kichik rombsimon mushaklar, kurakni ko'taruvchi mushak, trapetsiyasimon va oldingi tishli mushaklar



Rasm № 378. O'mrov osti arteriyasining topografiyasi. I, II, III — o'mrov osti arteriyasining bo'limlari.
Рисунок № 378. Топография подключичной артерии. I, II, III — отделы подключичной артерии.

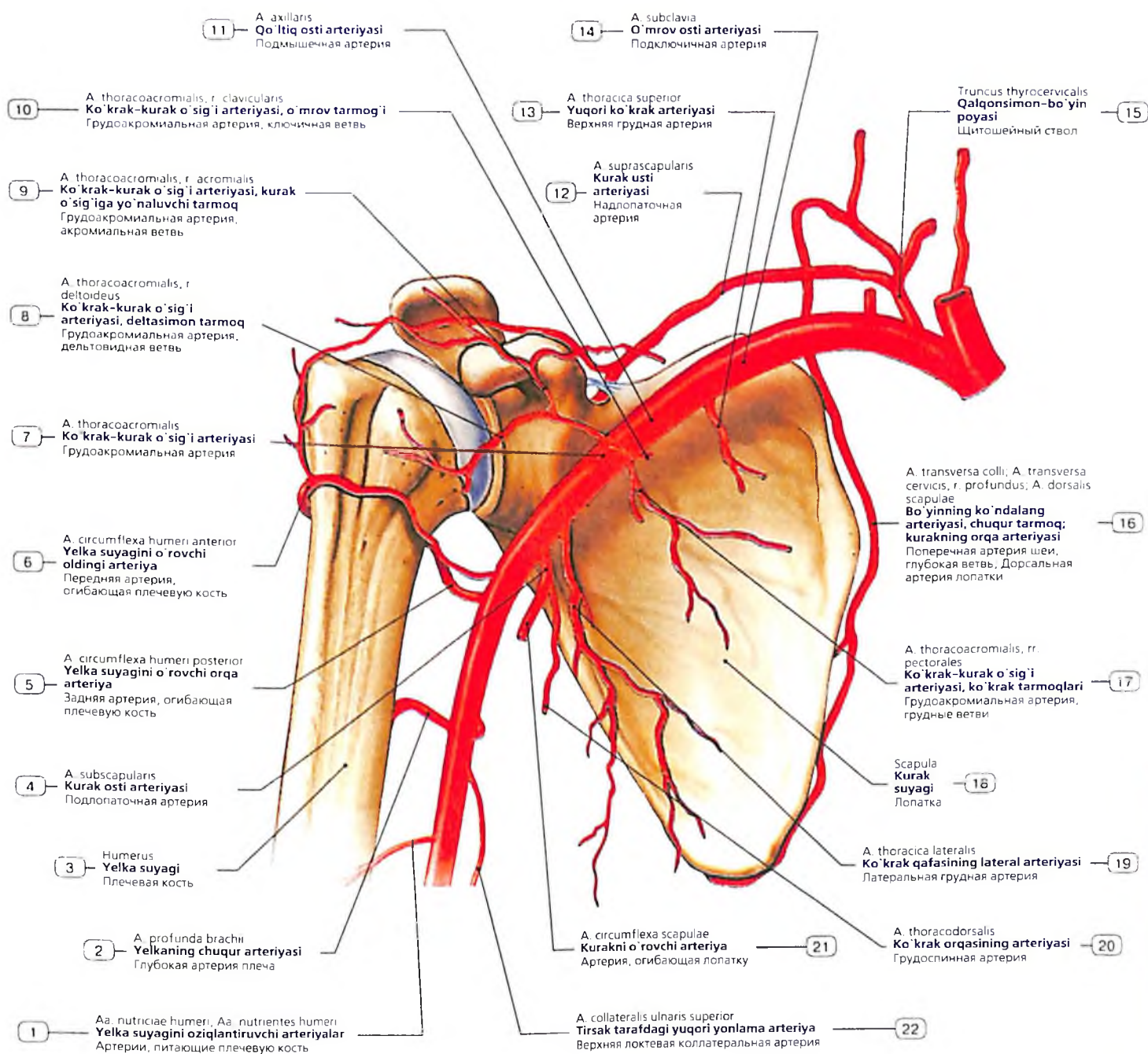
- | | | |
|--------------------------|--|------------------------------|
| 1 Clavicle | 9 Scalenus anterior, Anterior scalene | 17 Inferior thyroid artery |
| 2 Subclavian vein | 10 Superficial cervical artery | 18 Thyroid gland |
| 3 First rib [I] | 11 Vertebral artery, prevertebral part | 19 Recurrent laryngeal nerve |
| 4 Subclavian artery | 12 Phrenic nerve | 20 Thyrocervical trunk |
| 5 Costocervical trunk | 13 Ascending cervical artery | 21 Common carotid artery |
| 6 Suprascapular artery | 14 Vagus nerve [X] | 22 Brachiocephalic trunk |
| 7 Dorsal scapular artery | 15 Internal jugular vein | |
| 8 Brachial plexus | 16 Common carotid artery | |



Rasm № 379. O'mrov osti va qo'ltiq osti arteriyalari va ularning shoxlari, tashqi tomondan ko'rinishi (chizmalar).
Рисунок № 379. Подключичная и подмышечная артерии и их ветви, вид снаружи (схемы).

- 1 Transverse cervical artery, deep branch, Dorsal scapular artery
- 2 Scapula
- 3 Superior transverse scapular ligament
- 4 Transverse cervical artery, superficial branch
- 5 Suprascapular artery
- 6 Clavicle
- 7 Acromion

- 8 Anterior circumflex humeral artery
- 9 Posterior circumflex humeral artery
- 10 Humerus
- 11 Profunda brachii artery, Deep artery of arm
- 12 Brachial artery
- 13 Circumflex scapular artery

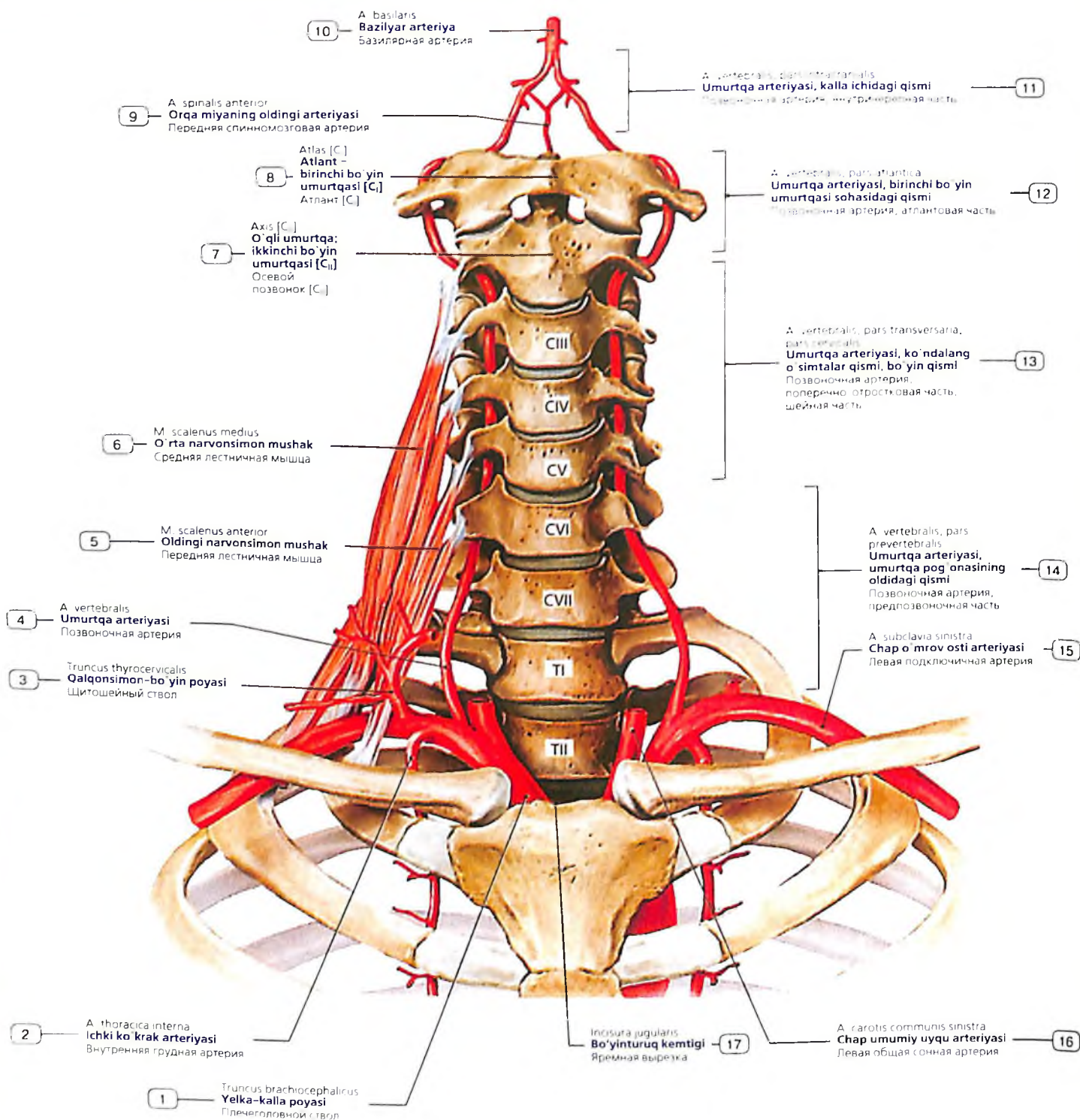


Rasm № 380. O'mrov osti va qo'ltiq osti arteriyalari va ularning shoxlari, ichki tomondan ko'rinishi (chizmalar).
Рисунок № 380. Подключичная и подмышечная артерии и их ветви, вид изнутри (схемы).

- 1 Humeral nutrient arteries
- 2 Profunda brachii artery; Deep artery of arm
- 3 Humerus
- 4 Subscapular artery
- 5 Posterior circumflex humeral artery
- 6 Anterior circumflex humeral artery
- 7 Thoraco-acromial artery
- 8 Thoraco-acromial artery, deltoid branch
- 9 Thoraco-acromial artery, acromial branch

- 10 Thoraco-acromial artery, clavicular branch
- 11 Axillary artery
- 12 Suprascapular artery
- 13 Superior thoracic artery
- 14 Subclavian artery
- 15 Thyrocervical trunk
- 16 Transverse cervical artery, deep branch; Dorsal scapular artery
- 17 Thoraco-acromial artery, pectoral branches

- 18 Scapula
- 19 Lateral thoracic artery
- 20 Thoracodorsal artery
- 21 Circumflex scapular artery
- 22 Superior ulnar collateral artery

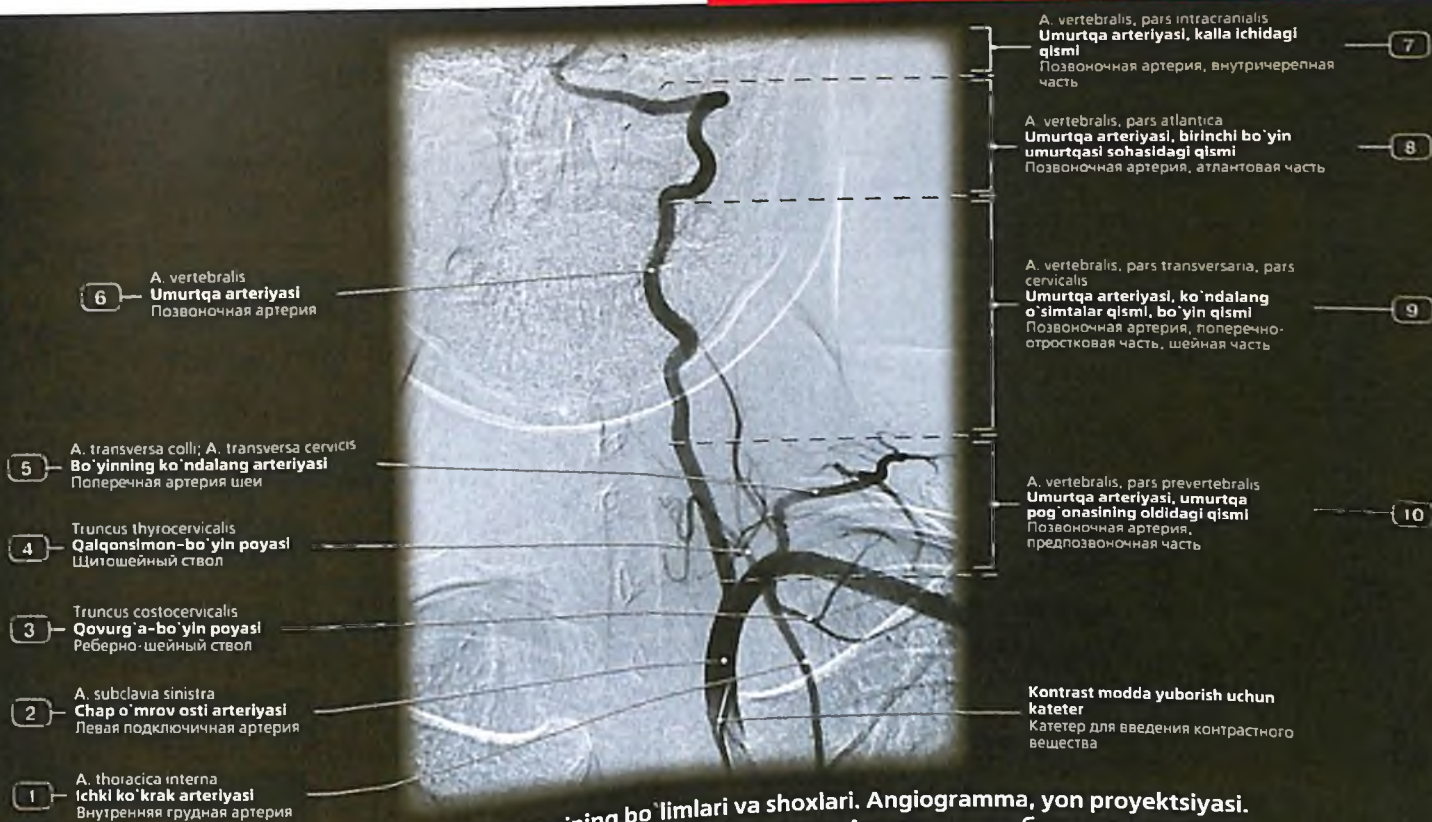


Rasm № 381. Umurtqa arteriyaning topografiyasi. CIII-CVII – bo'yin umurtqalari; TI-TII – ko'krak umurtqalari.
Рисунок № 381. Топография позвоночной артерии. CIII-CVII – соответствующие шейные позвонки;
TI-TII – соответствующие грудные позвонки.

- 1 Brachiocephalic trunk
- 2 Internal thoracic artery
- 3 Thyrocervical trunk
- 4 Vertebral artery
- 5 Scalenus anterior, Anterior scalene
- 6 Scalenus medius, Middle scalene

- 7 Axis [C]
- 8 Atlas [C]
- 9 Anterior spinal artery
- 10 Basilar artery
- 11 Vertebral artery, intracranial part
- 12 Vertebral artery, atlantic part

- 13 Vertebral artery, cervical part
- 14 Vertebral artery, prevertebral part
- 15 Left subclavian artery
- 16 Left common carotid artery
- 17 Jugular notch



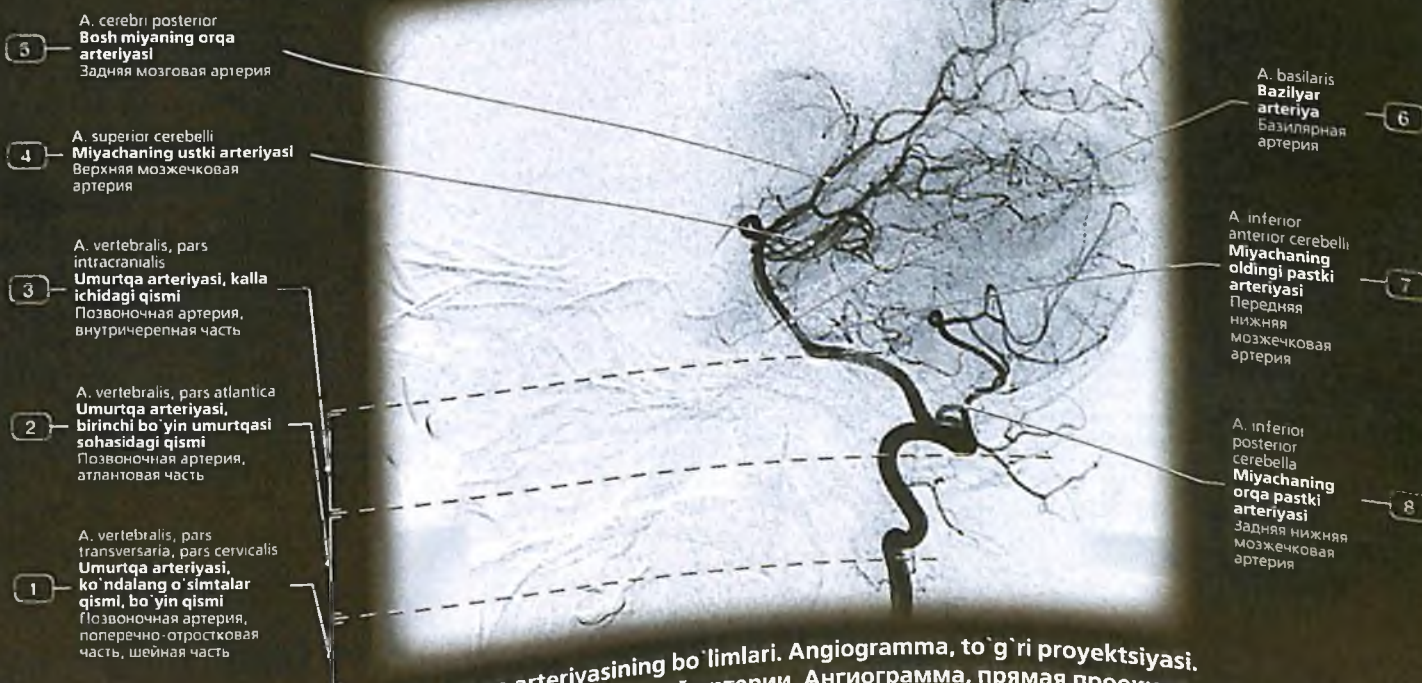
Rasm № 383. Umurtqa arteriyasining bo'limlari va shoxlari. Angiogramma, yon proyeksiyasi.
Рисунок № 383. Отделы и ветви позвоночной артерии. Ангиограмма, боковая проекция.

- 1 Internal thoracic artery
- 2 Left subclavian artery
- 3 Costocervical trunk

- 4 Thyrocervical trunk
- 5 Transverse cervical artery
- 6 Vertebral artery

- 7 Vertebral artery, intracranial part
- 8 Vertebral artery, atlantic part
- 9 Vertebral artery, cervical part

- 10 Vertebral artery, prevertebral part



Rasm № 382. Umurtqa arteriyasining bo'limlari. Angiogramma, to'g'ri proyeksiyasi.
Рисунок № 382. Отделы позвоночной артерии. Ангиограмма, прямая проекция.

- 1 Vertebral artery, cervical part
- 2 Vertebral artery, atlantic part

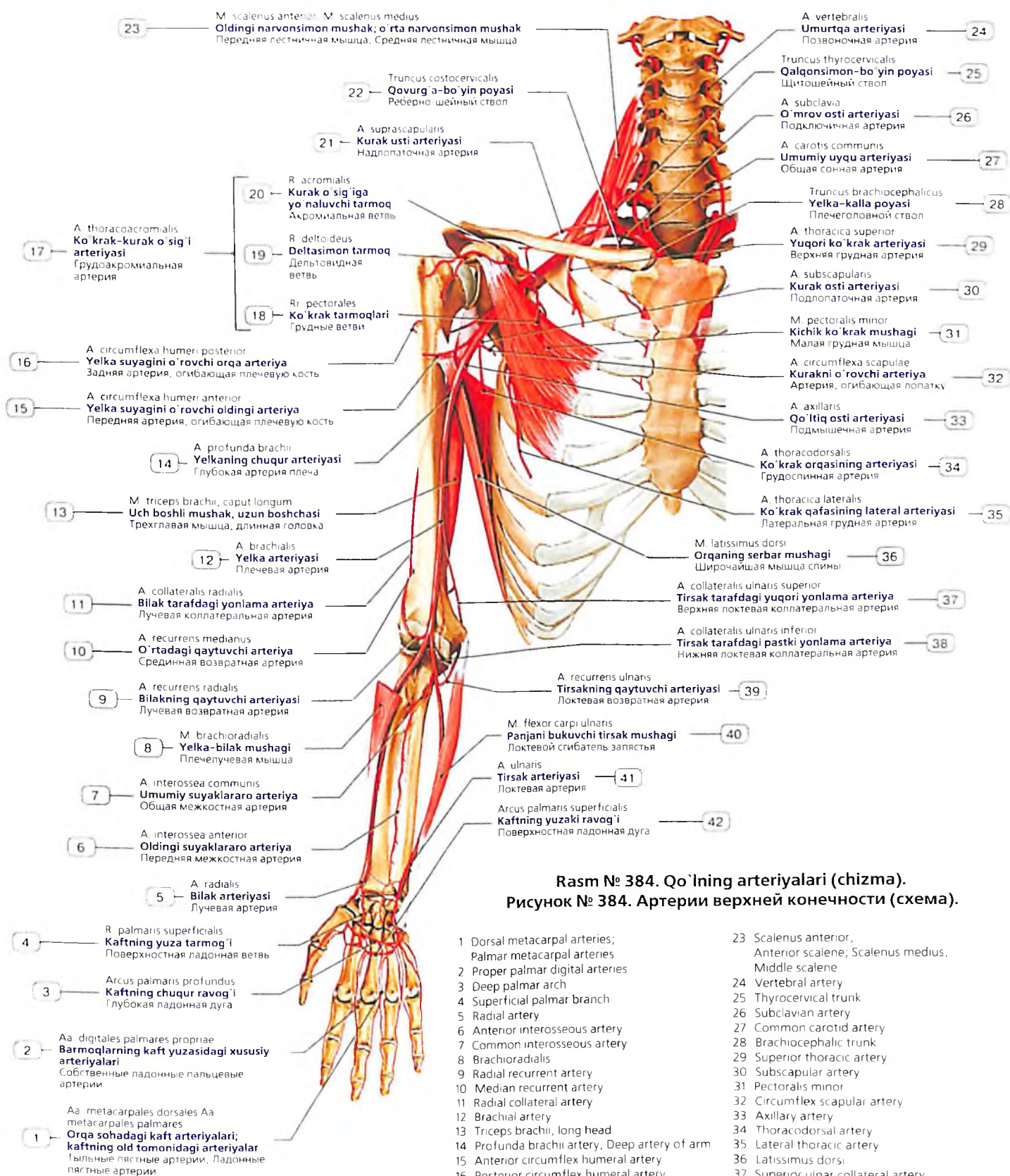
- 3 Vertebral artery, intracranial part
- 4 Superior cerebellar artery

- 5 Posterior cerebral artery
- 6 Basilar artery

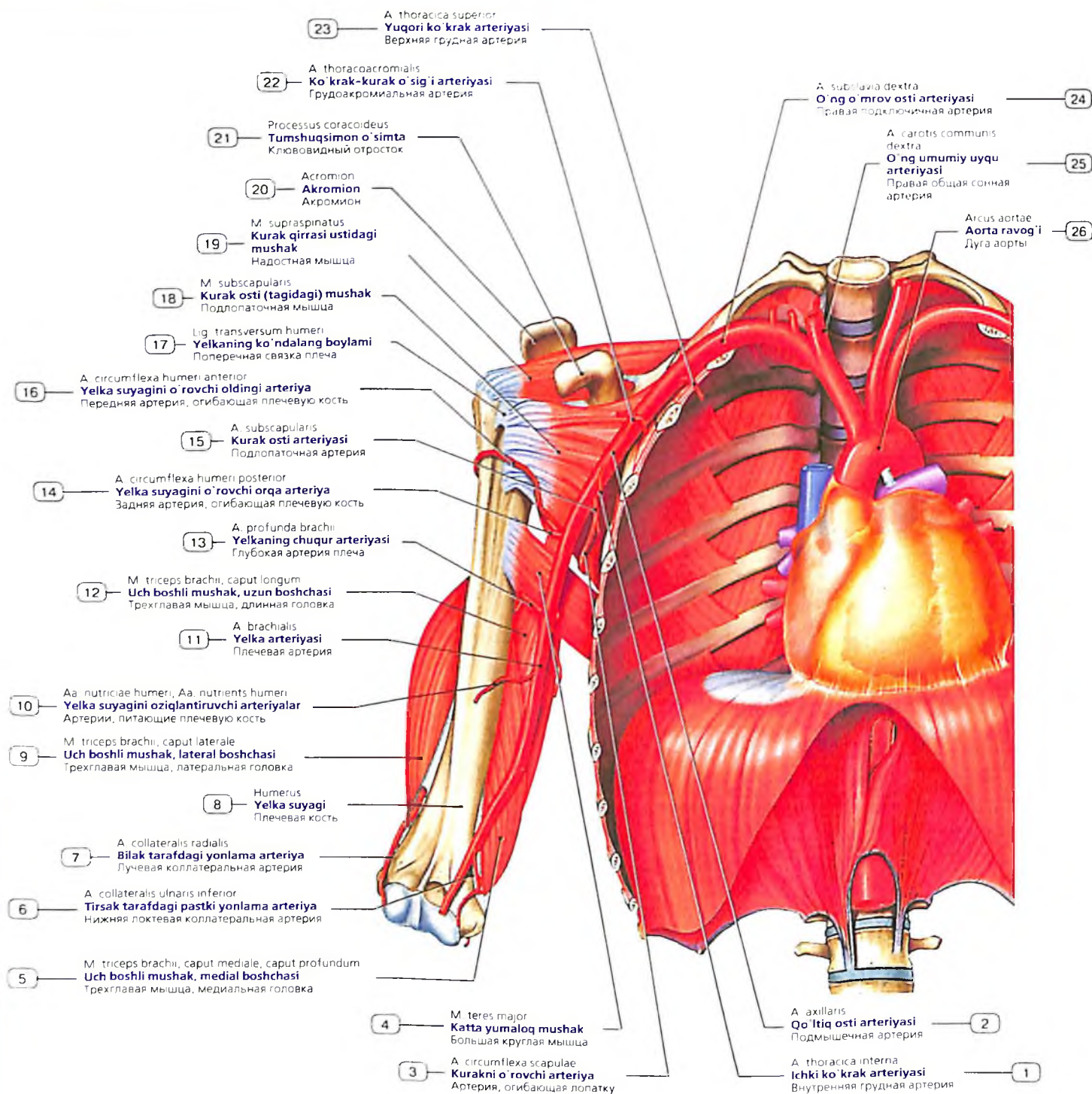
- 7 Anterior inferior cerebellar artery
- 8 Posterior inferior cerebellar artery

29-jadval. Qo'l arteriyalari.

Arteriya nomi va uning tarmoqlari	Boshlanishi	Arteriya yo'nalishi	Qon bilan ta'minlaydigan a'zolar (soha)
Qo'ltiq osti arteriyasi 1. Yuqori ko'krak arteriyasi 2. Ko'krak-kurak o'sig'i arteriyasi 3. Ko'krak qafasining lateral arteriyasi 4. Kurak osti arteriyasi 5. 6. Yelka suyagini o'rovchi oldingi va orqa arteriyalar 7. Mushak shoxlari	O'mrov osti arteriyasining davomi. I qovurg'aning lateral qirrasidan boshlanadi	Yelka suyagi va yelka bo'g'imidan pastda va medial joylashadi. Katta ko'krak mushagining pastki qirrasida yelka arteriyasiga davom etadi	Qo'ltiq osti chuqurchasida joylashgan tuzilmalar (yog' kletchatkasi, limfatik tugunlar), ko'krak bo'shlig'ining yon tomon terisi va mushaklari, yelka kamari mushaklari, yelka bo'g'imi, sut bezi
Yelka arteriyasi 1. Mushak tarmoqlari 2. Tirsak tarafdagi yuqori yonlama arteriya 3. Tirsak tarafdagi pastki yonlama arteriya 4. Yelkaning chuqur arteriyasi	Qo'ltiq osti arteriyasining davomi. Katta ko'krak mushagining pastki qismidan, yelkaning yuqori uchdan bir qismidan boshlanadi	Yelkaning medial egatida tirsak chuqurchasida bu arteriya 2ga bo'linadi: tirsak va bilak arteriyasi Yelka muskuli kanali, yelka suyagining orqa yuzasi va yelkaning uch boshli mushagi orasida	Yelkaning terisi va mushaklari, yelka suyagi, tirsak bo'g'imi. Yelka suyagi. Mushaklari: deltasimon, uch boshli yelka mushagi
Bilak arteriyasi 1. Mushak tarmoqlari 2. Bilakning qaytuvchi arteriyasi 3. Kaftning yuza tarmog'i (kaftning yuzaki ravog'ini hosil qilishda qatnashadi) 4. Kaft yuzasidagi kaft usti tarmog'i (kaft usti to'ri hosil qilishda qatnashadi) 5. Orqa sohasidagi kaft usti tarmog'i. (orqa sohasidagi kaft usti to'rini hosil qilishda qatnashadi) 6. I barmoq orqa sohasidagi kaft usti tarmog'i 7. Qo'l bosh barmog'ining arteriyasi	Tirsak chuqurchasida yelka arteriyasidan tarmoqlanadi	Bilak egatida o'tib, bilak sohasining distal qismidan kaftning orqa qismiga o'tadi va birinchi suyaklararo oralig'idan panjaning kaft yuzasiga yo'naladi. Bilak arteriyasining oxirgi tarmog'i kaftning chuqur ravog'ini hosil qilishda qatnashib, tirsak arteriyasining chuqur kaft tarmog'i bilan anastomoz hosil qiladi	Bilak sohasi terisi va mushaklari, tirsak, bilak suyagi, bilak-kaft usti bo'g'imi va qo'l panjasi bo'g'imlari
Tirsak arteriyasi 1. Mushak tarmoqlari 2. Tirsakning qaytuvchi arteriyasi 3. Umumiy suyaklararo arteriya 4. Kaft yuzasidagi tarmoq (orqa sohasidagi kaft usti to'rini hosil qilishda qatnashadi) 5. Orqa sohasidagi kaft usti tarmog'i (orqa sohasidagi kaft usti to'rini hosil qilishda qatnashadi) 6. Kaftning chuqur tarmog'i	Tirsak chuqurchasida yelka arteriyasidan tarmoqlanadi	Tirsak egatida bilak-kaft bo'g'imigacha borib, qo'l panjasining kaft tomoniga o'tib, kaftning yuza ravog'ini hosil qiladi, bu arteriya bilak arteriyasining yuza kaft tarmog'i bilan anastomoz hosil qiladi	Bilak sohasi terisi va mushaklari, tirsak, bilak suyagi, bilak-kaft usti bo'g'imi va qo'l panjasi bo'g'imlari

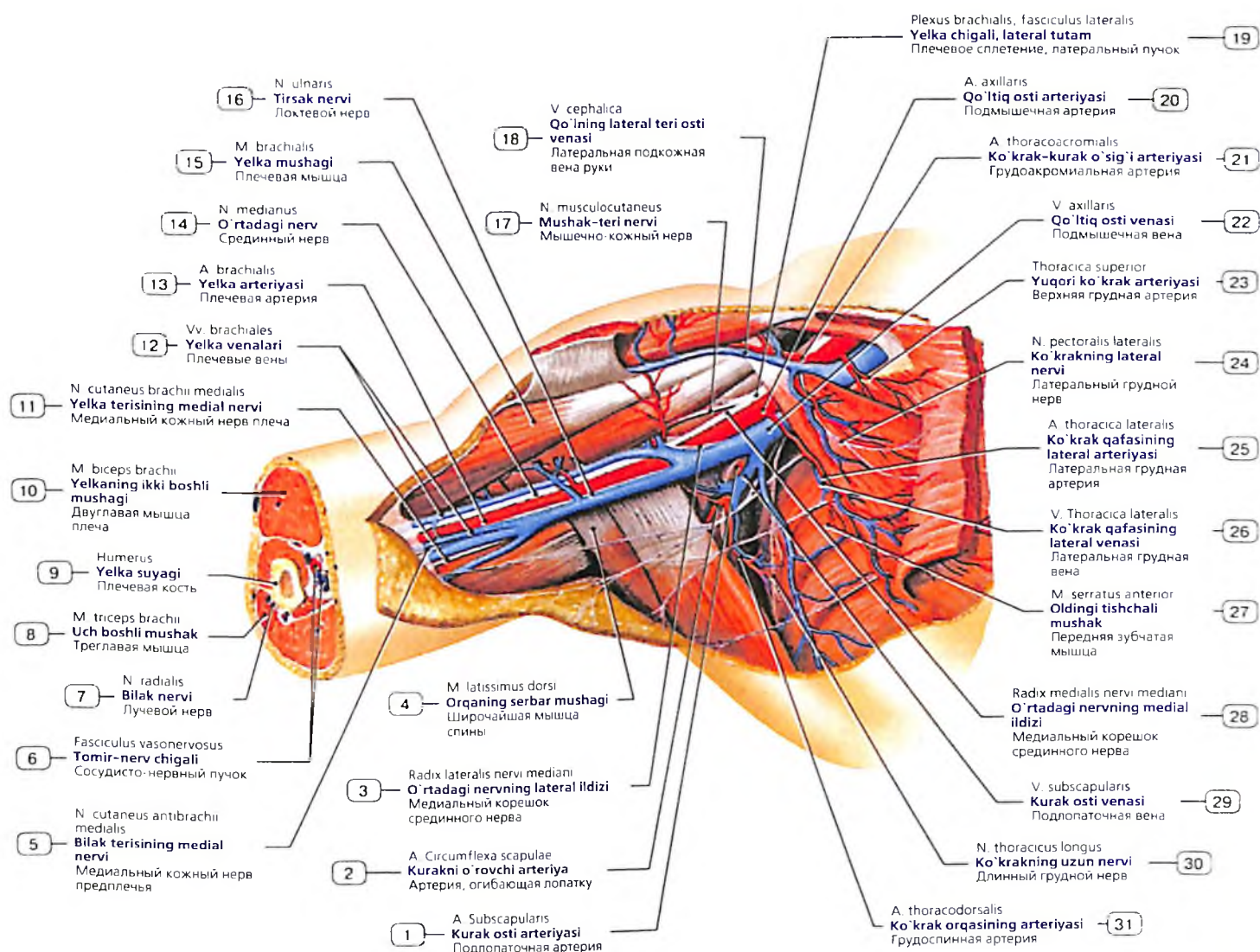


Rasm № 384. Qo'lining arteriyalari (chizma).
Рисунок № 384. Артерии верхней конечности (схема).



Rasm № 385. Qo'ltiq osti arteriyasi va uning shoxlari.
Рисунок № 385. Подмышечная артерия и ее ветви.

- | | | |
|---|--|--------------------------------|
| 1 Internal thoracic artery | 11 Brachial artery | 20 Acromion |
| 2 Axillary artery | 12 Triceps brachii, long head | 21 Coracoid process |
| 3 Circumflex scapular artery | 13 Profunda brachii artery, Deep artery of arm | 22 Thoracoacromial artery |
| 4 Teres major | 14 Posterior circumflex humeral artery | 23 Superior thoracic artery |
| 5 Triceps brachii, deep head, medial head | 15 Subscapular artery | 24 Right subclavian artery |
| 6 Inferior ulnar collateral artery | 16 Anterior circumflex humeral artery | 25 Right common carotid artery |
| 7 Radial collateral artery | 17 Transverse humeral ligament | 26 Arch of aorta, Aortic arch |
| 8 Humerus | 18 Subscapularis | |
| 9 Triceps brachii, lateral head | 19 Supraspinatus | |
| 10 Humeral nutrient artery | | |

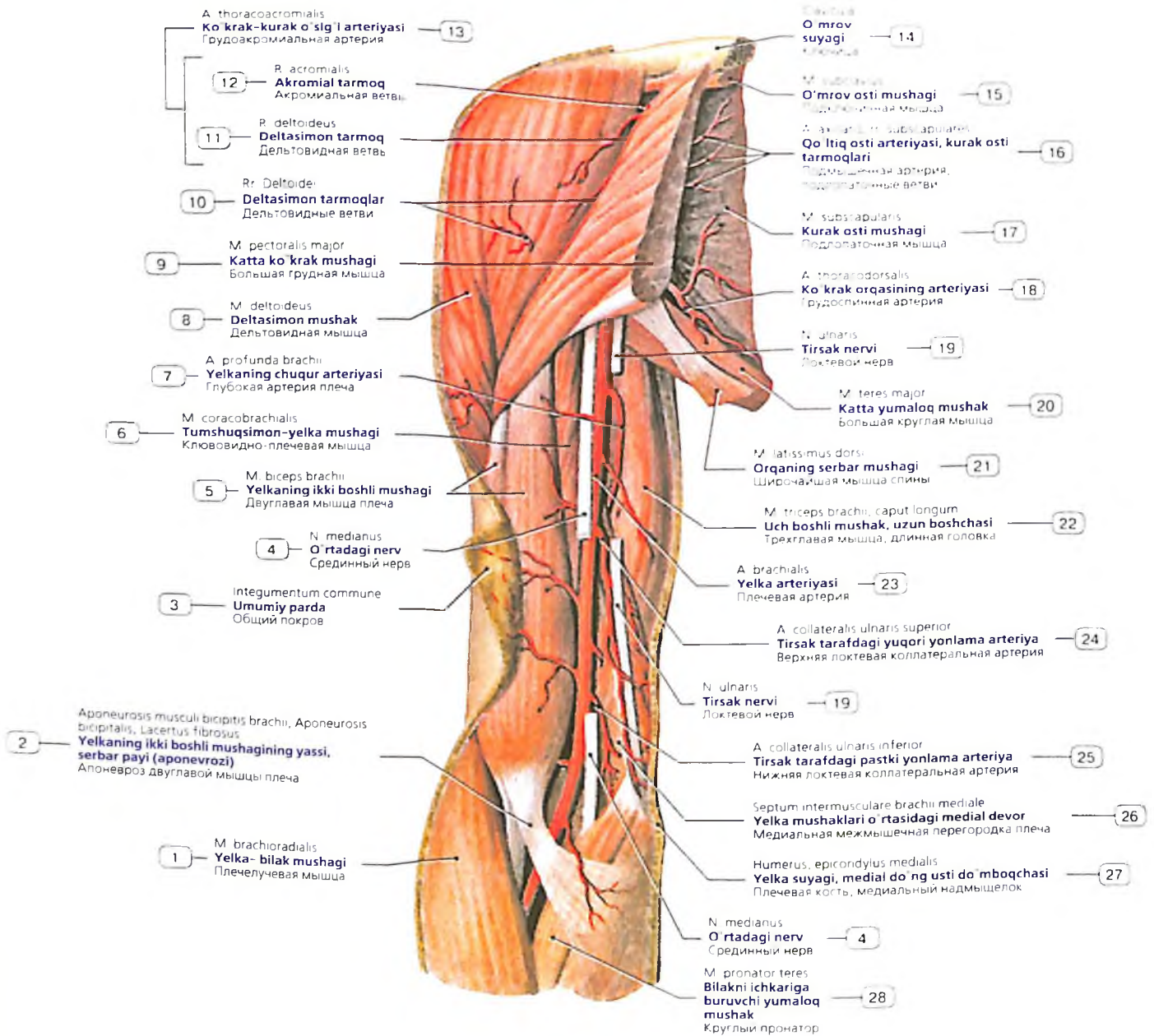


Rasm № 386. Qo'ltiq osti chuqurchasining arteriyalari.
Рисунок № 386. Артерии подмышечной ямки.

- 1 Subscapular artery
- 2 Circumflex scapular artery
- 3 Lateral root of median nerve
- 4 Latissimus dorsi
- 5 Medial cutaneous nerve of forearm,
Medial antebrachial cutaneous nerve
- 6 Vasonervous fasciculus
- 7 Radial nerve
- 8 Triceps brachii
- 9 Humerus
- 10 Biceps brachii

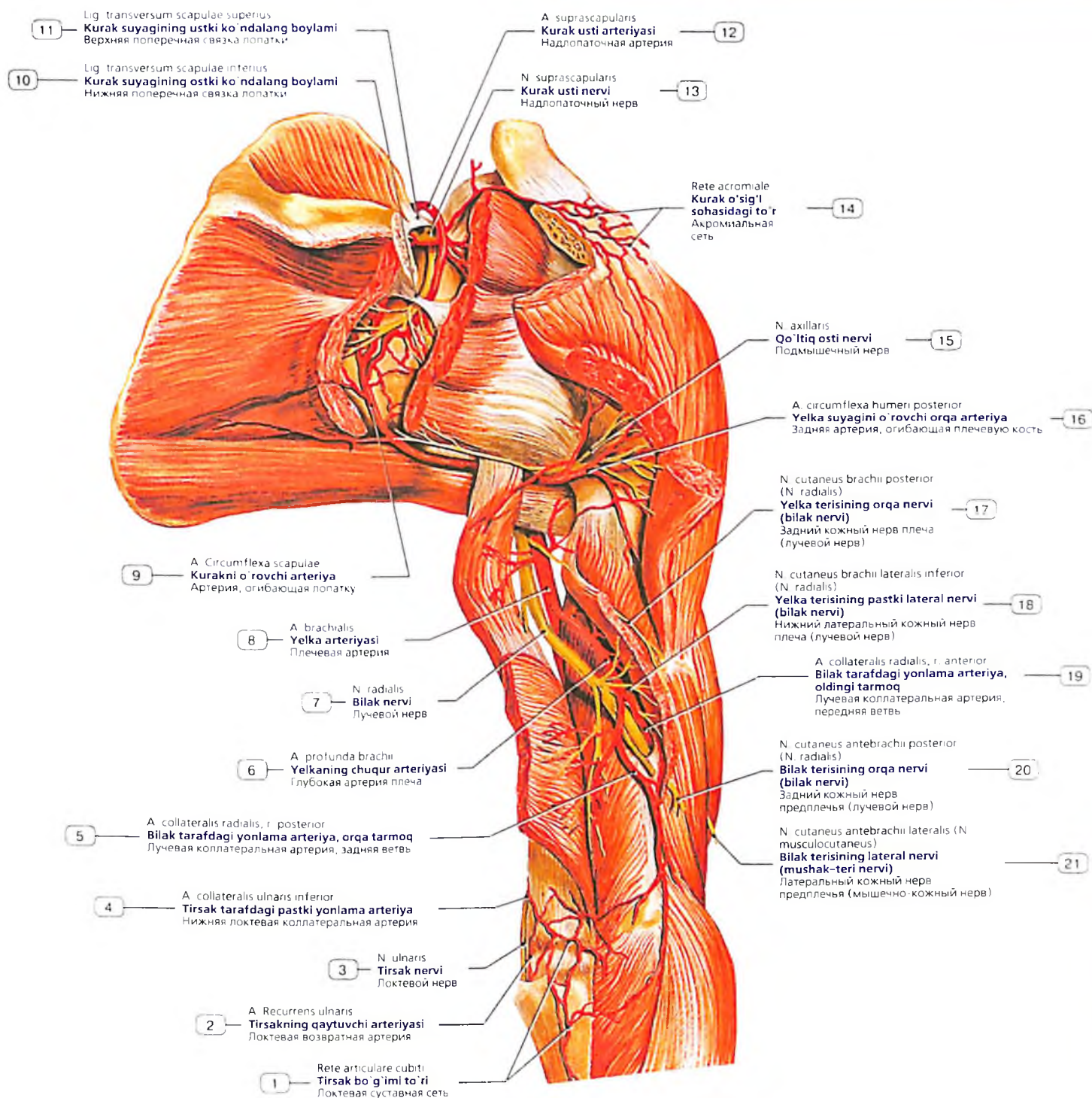
- 11 Medial cutaneous nerve of arm;
Medial brachial cutaneous nerve
- 12 Brachial veins
- 13 Brachial artery
- 14 Median nerve
- 15 Brachialis
- 16 Ulnar nerve
- 17 Musculocutaneous nerve
- 18 Cephalic vein
- 19 Brachialis plexus, lateral cord
- 20 Axillary artery

- 21 Thoraco-acromial artery
- 22 Axillary vein
- 23 Superior thoracic artery
- 24 Lateral pectoral nerve
- 25 Lateral thoracic artery
- 26 Lateral thoracic vein
- 27 Serratus anterior
- 28 Medial root of median nerve
- 29 Subscapular vein
- 30 Long thoracic vein
- 31 Thoracodorsal artery



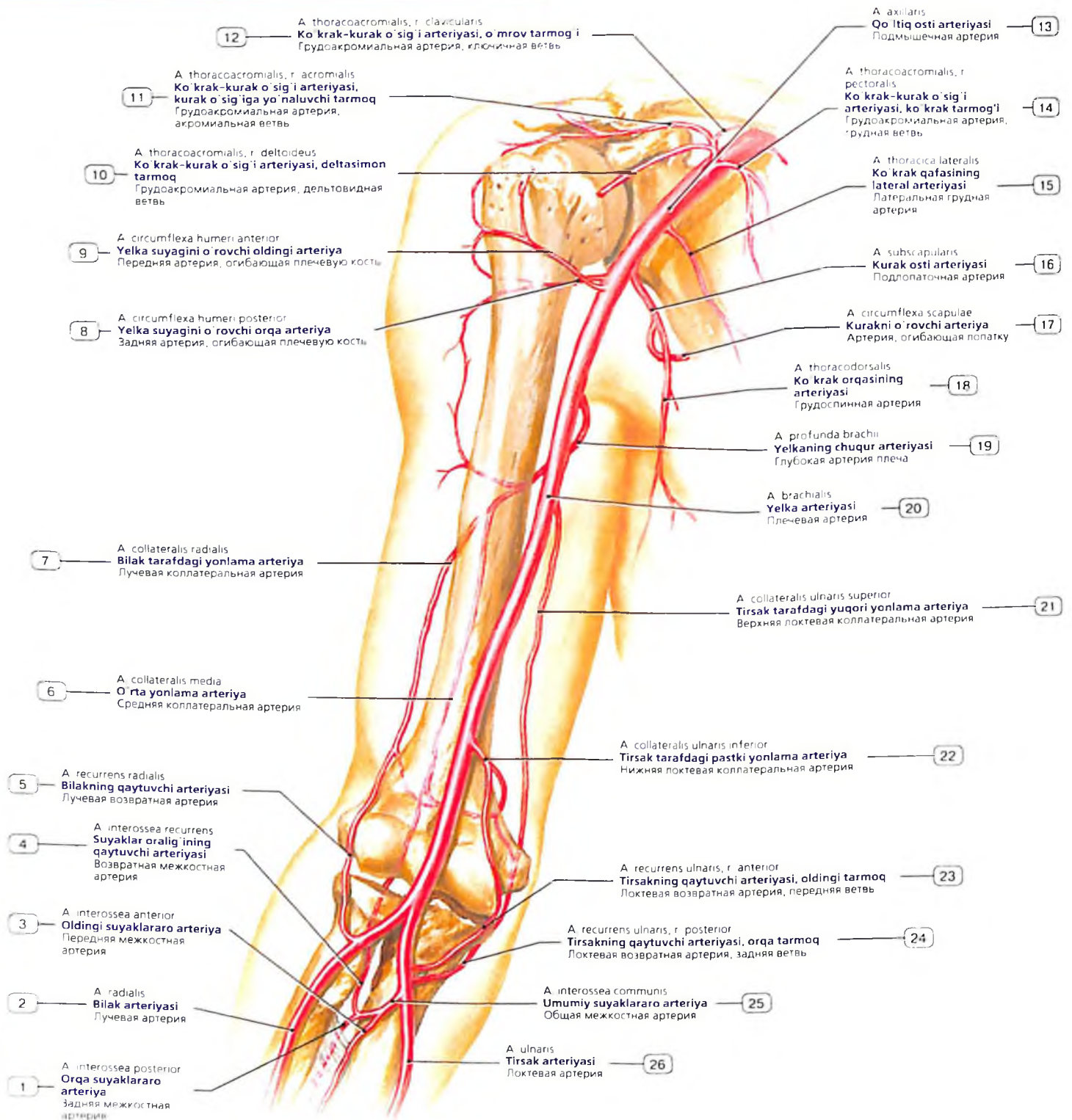
Rasm № 387. Yelka arteriyalari, old tomondan ko'rinishi.
Рисунок № 387. Артерии плеча, вид спереди.

- | | | |
|---|--|---------------------------------------|
| 1 Brachioradialis | 11 Deltoid branch | 21 Latissimus dorsi |
| 2 Bicipital aponeurosis | 12 Acromial branch | 22 Triceps brachii, long head |
| 3 Integument | 13 Thoraco-acromial artery | 23 Brachial artery |
| 4 Median nerve | 14 Clavicle | 24 Superior ulnar collateral artery |
| 5 Biceps brachii | 15 Subclavius | 25 Inferior ulnar collateral artery |
| 6 Coracobrachialis | 16 Axillary artery, subscapular branches | 26 Medial intermuscular septum of arm |
| 7 Profunda brachii artery, Deep artery of arm | 17 Subscapularis | 27 Humerus, medial epicondyle |
| 8 Deltoid | 18 Thoracodorsal artery | 28 Pronator teres |
| 9 Pectoralis major | 19 Ulnar nerve | |
| 10 Deltoid branches | 20 Teres major | |



Rasm № 388. Yelka arteriyalari, orqa tomondan ko`rinishi.
Рисунок № 388. Артерии плеча, вид сзади.

- | | | |
|---|---|--|
| 1 Cubital anastomosis | 12 Suprascapular artery | 20 Posterior cutaneous nerve of forearm, |
| 2 Ulnar recurrent artery | 13 Suprascapular nerve | Posterior antebrachial cutaneous nerve (Radial |
| 3 Ulnar nerve | 14 Acromial anastomosis | nerve) |
| 4 Inferior ulnar collateral artery | 15 Axillary nerve | 21 Lateral cutaneous nerve of forearm, |
| 5 Radial collateral artery, posterior branch | 16 Posterior circumflex humeral artery | Lateral antebrachial cutaneous nerve |
| 6 Profunda brachii artery, Deep artery of arm | 17 Posterior cutaneous nerve of arm, | (Musculocutaneous nerve) |
| 7 Radial nerve | Posterior brachial cutaneous nerve (Radial nerve) | |
| 8 Brachial artery | 18 Inferior lateral cutaneous nerve of arm, | |
| 9 Circumflex scapular artery | Inferior lateral brachial cutaneous nerve (Radial | |
| 10 Inferior transverse scapular ligament | nerve) | |
| 11 Superior transverse scapular ligament | 19 Radial collateral artery, anterior branch | |



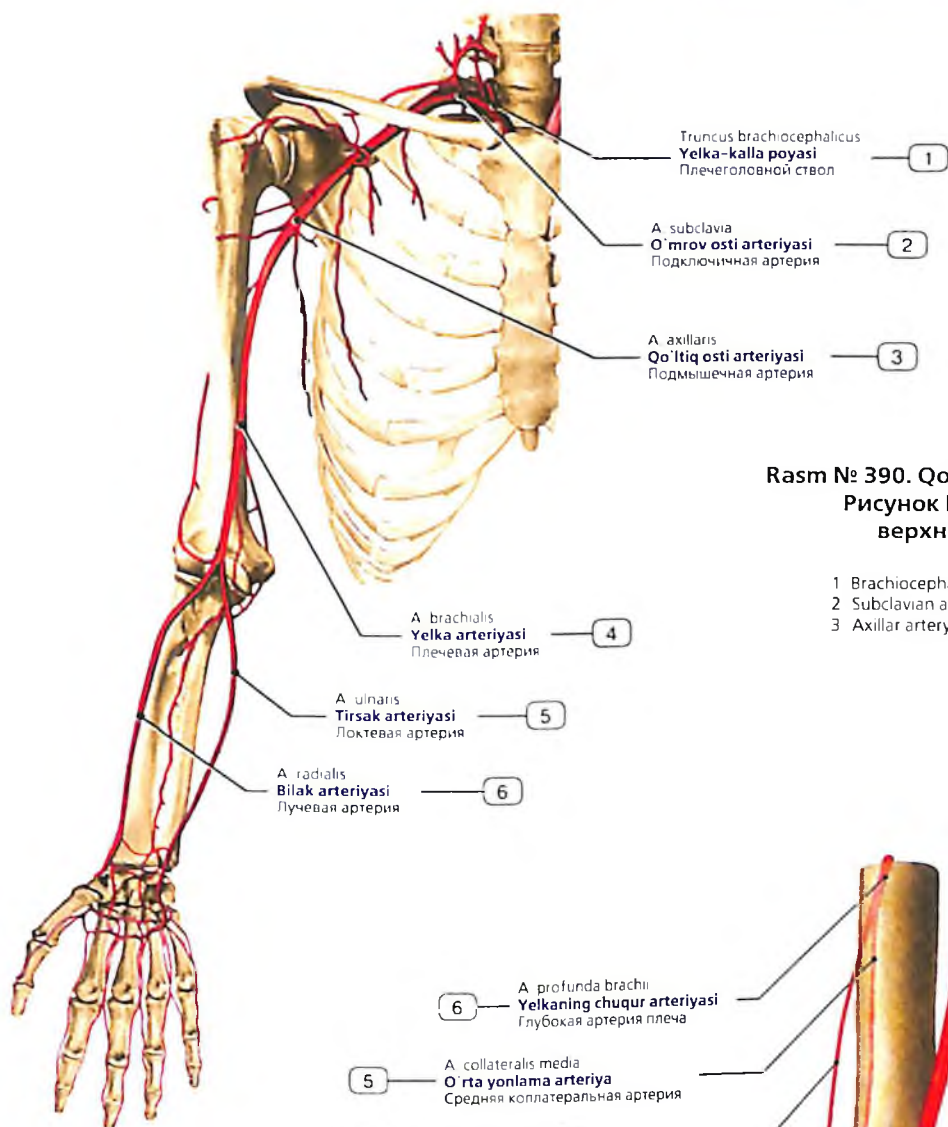
Rasm № 389. Qo'ltiq osti va yelka arteriyalari. Tirsak sohasining arteriyalari.
Рисунок № 389. Подмышечная и плечевая артерии. Артерии локтевой области.

1. Posterior interosseous artery
2. Radial artery
3. Anterior interosseous artery
4. Recurrent interosseous artery
5. Radial recurrent artery
6. Medial collateral artery
7. Radial collateral artery
8. Posterior circumflex humeral artery

9. Anterior circumflex humeral artery
10. Thoraco-acromial artery, deltoid branch
11. Thoraco-acromial artery, acromial branch
12. Thoraco-acromial artery, clavicular branch
13. Axillary artery
14. Thoraco-acromial artery, pectoral branch

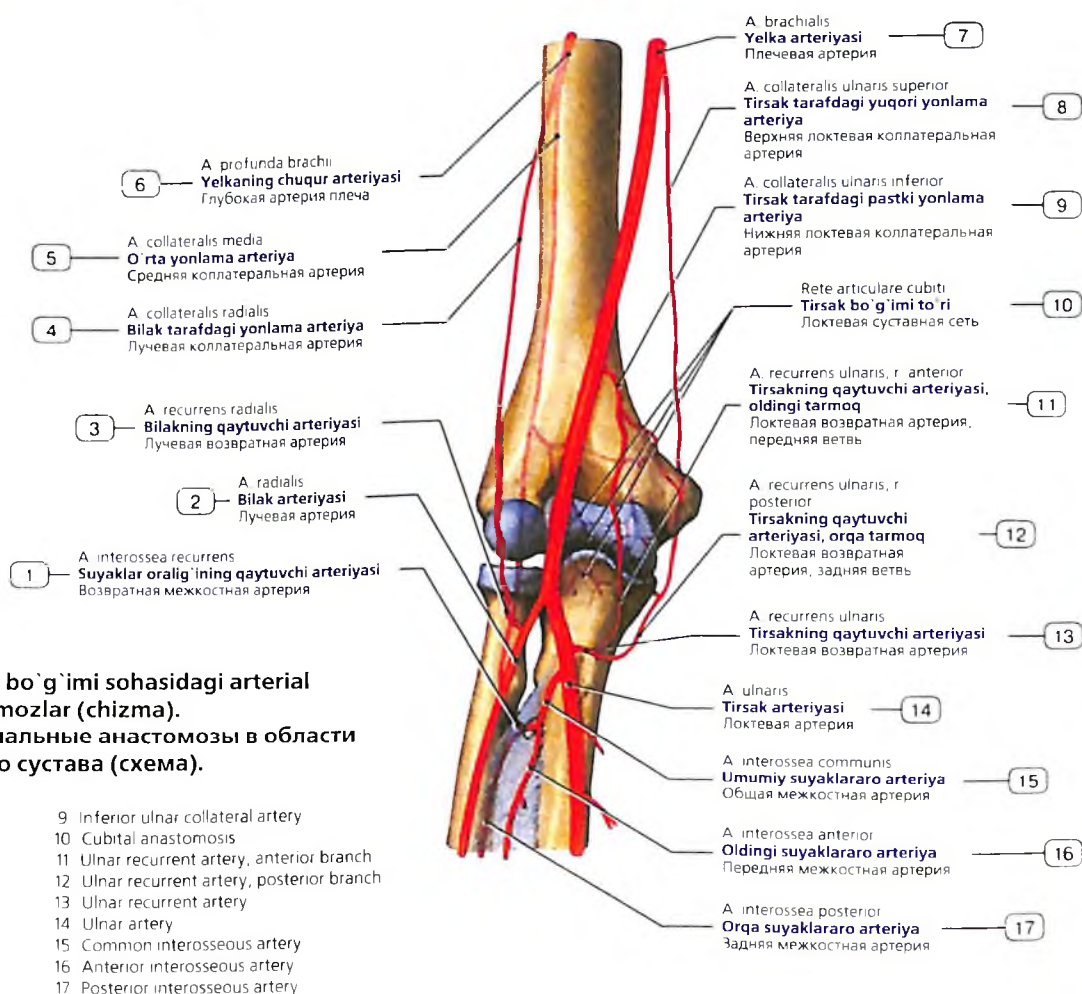
15. Lateral thoracic artery
16. Subscapular artery
17. Circumflex scapular artery
18. Thoracodorsal artery
19. Profunda brachii artery, Deep artery of arm
20. Brachial artery
21. Superior ulnar collateral artery

22. Inferior ulnar collateral artery
23. Ulnar recurrent artery, anterior branch
24. Ulnar recurrent artery, posterior branch
25. Common interosseous artery
26. Ulnar artery



Rasm № 390. Qo'lning asosiy arteriyalari (chizma).
Рисунок № 390. Основные артерии верхней конечности (схема).

- | | |
|-------------------------|-------------------|
| 1 Brachiocephalic trunk | 4 Brachial artery |
| 2 Subclavian artery | 5 Ulnar artery |
| 3 Axillar artery | 6 Radial artery |



Rasm № 391. Tirsak bo'g'imi sohasidagi arterial anastomozlar (chizma).
Рисунок № 391. Артериальные анастомозы в области локтевого сустава (схема).

- | | |
|---|---|
| 1 Recurrent interosseous artery | 9 Inferior ulnar collateral artery |
| 2 Radial artery | 10 Cubital anastomosis |
| 3 Radial recurrent artery | 11 Ulnar recurrent artery, anterior branch |
| 4 Radial collateral artery | 12 Ulnar recurrent artery, posterior branch |
| 5 Medial collateral artery | 13 Ulnar recurrent artery |
| 6 Profunda brachii artery, Deep artery of arm | 14 Ulnar artery |
| 7 Brachial artery | 15 Common interosseous artery |
| 8 Superior ulnar collateral artery | 16 Anterior interosseous artery |
| | 17 Posterior interosseous artery |

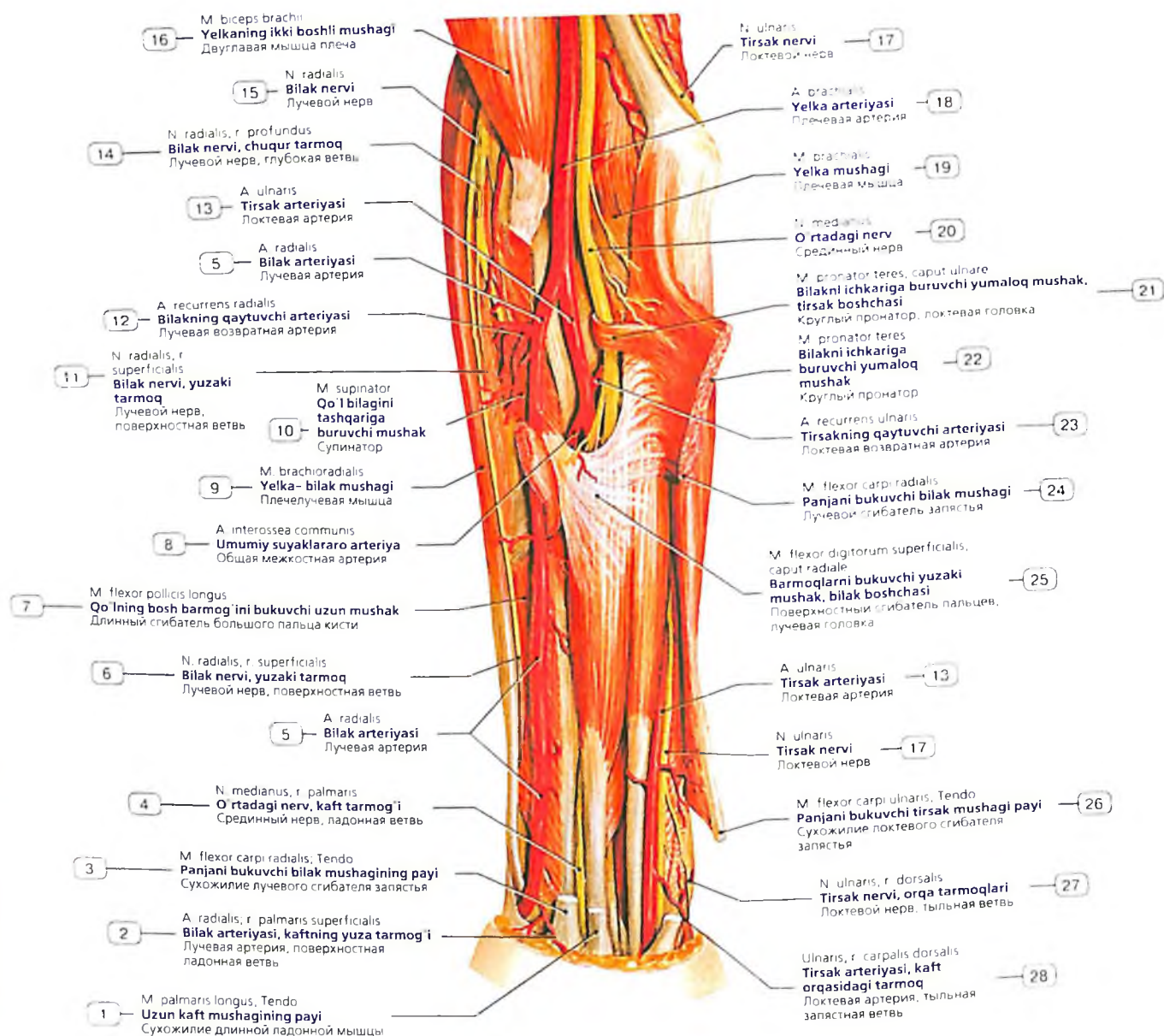
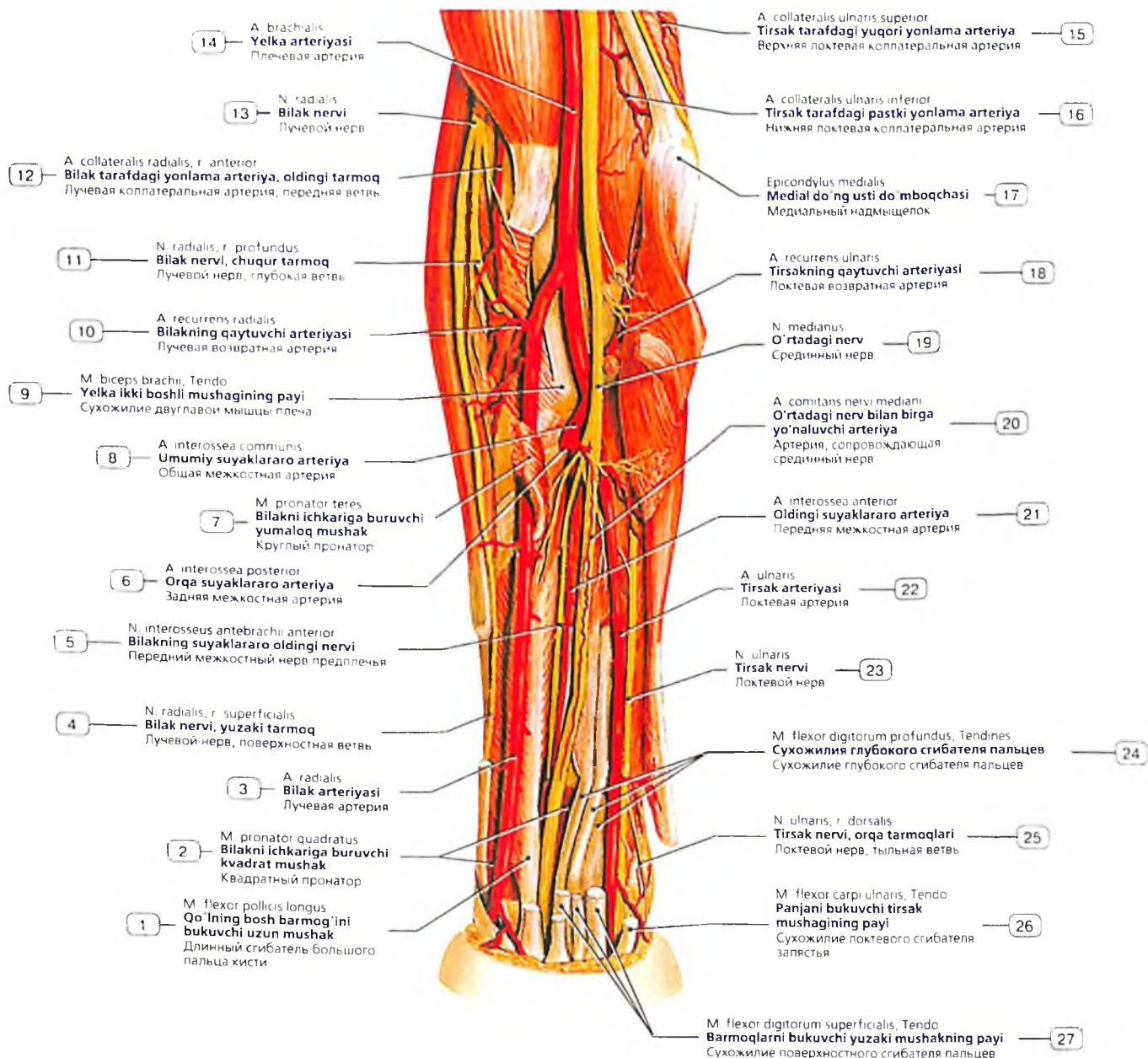


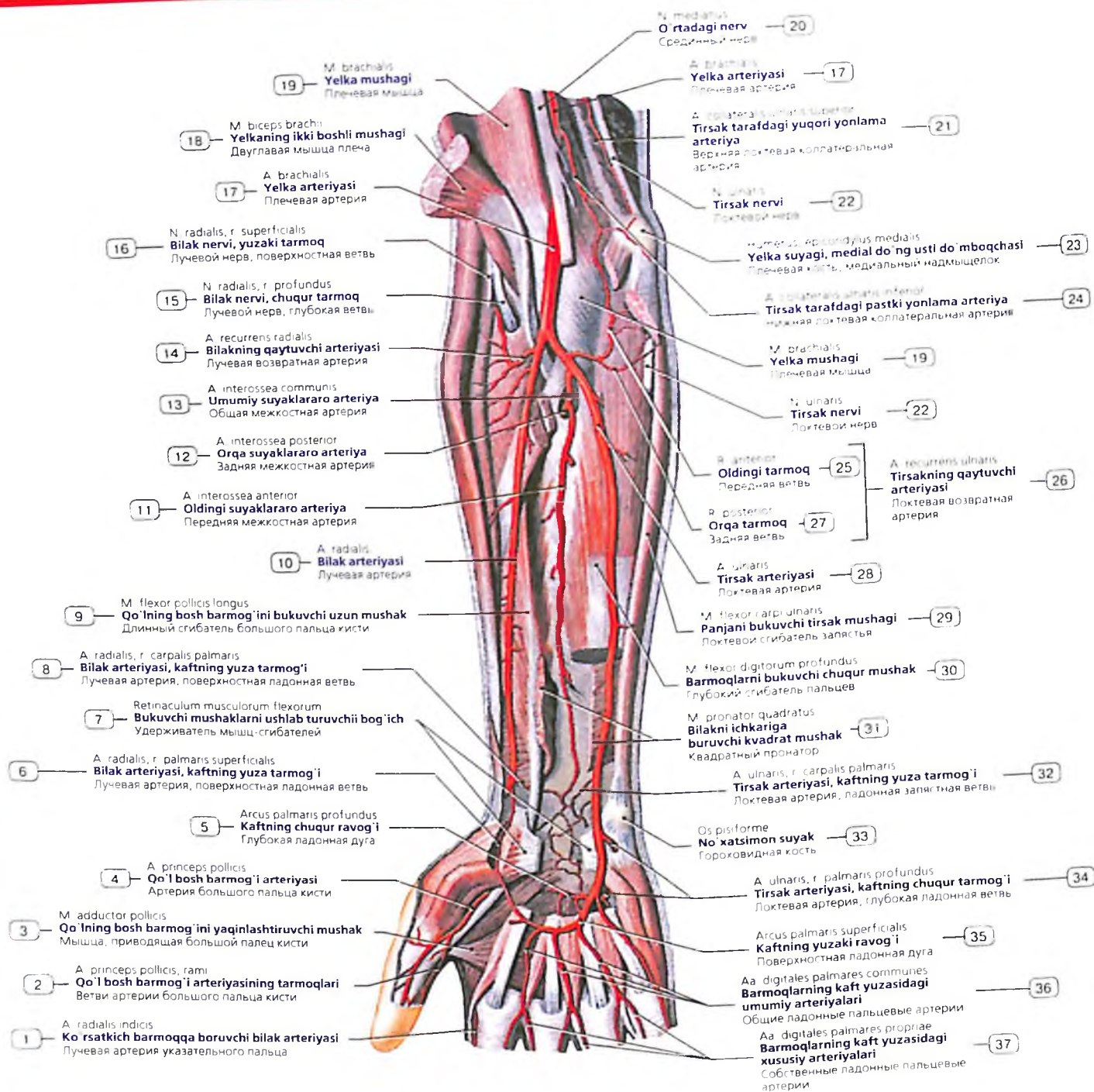
Рис. № 392. Деление плечевой артерии, вид спереди.

- | | | |
|--|-------------------------------|--|
| 1 Palmaris longus, Tendon | 12 Radial recurrent artery | 23 Ulnar recurrent artery |
| 2 Radial artery, superficial palmar branch | 13 Ulnar artery | 24 Flexor carpi radialis |
| 3 Flexor carpi radialis, Tendon | 14 Radial nerve, deep branch | 25 Flexor digitorum superficialis, radial head |
| 4 Median nerve, palmar branch | 15 Radial nerve | 26 Flexor carpi ulnaris, Tendon |
| 5 Radial artery | 16 Biceps brachii | 27 Ulnar nerve, dorsal branch |
| 6 Radial nerve, superficial branch | 17 Ulnar nerve | 28 Ulnar artery, dorsal carpal branch |
| 7 Flexor pollicis longus | 18 Brachial artery | |
| 8 Common interosseous artery | 19 Brachialis | |
| 9 Brachioradialis | 20 Median nerve | |
| 10 Supinator | 21 Pronator teres, ulnar head | |
| 11 Radial nerve, superficial branch | 22 Pronator teres | |



Rasm № 393. Tirsak va bilak chuqurchalarining arteriyalari, yuza mushaklari ajratilgan, yuqori tomondan ko'rinishi.
Рисунок № 393. Артерии локтевой ямки и предплечья, поверхностные мышцы удалены, вид спереди.

- | | | |
|------------------------------------|--|---|
| 1 Flexor pollicis longus | 10 Radial recurrent artery | 19 Median nerve |
| 2 Pronator quadratus | 11 Radial nerve, deep branch | 20 Median artery |
| 3 Radial artery | 12 Radial collateral artery, anterior branch | 21 Anterior interosseous artery |
| 4 Radial nerve, superficial branch | 13 Radial nerve | 22 Ulnar artery |
| 5 Anterior interosseous nerve | 14 Brachial artery | 23 Ulnar nerve |
| 6 Posterior interosseous artery | 15 Superior ulnar collateral artery | 24 Flexor digitorum profundus, Tendon |
| 7 Pronator teres | 16 Inferior ulnar collateral artery | 25 Ulnar nerve, dorsal branch |
| 8 Common interosseous artery | 17 Medial epicondyle | 26 Flexor carpi ulnaris, Tendon |
| 9 Biceps brachii, Tendon | 18 Ulnar recurrent artery | 27 Flexor digitorum superficialis, Tendon |

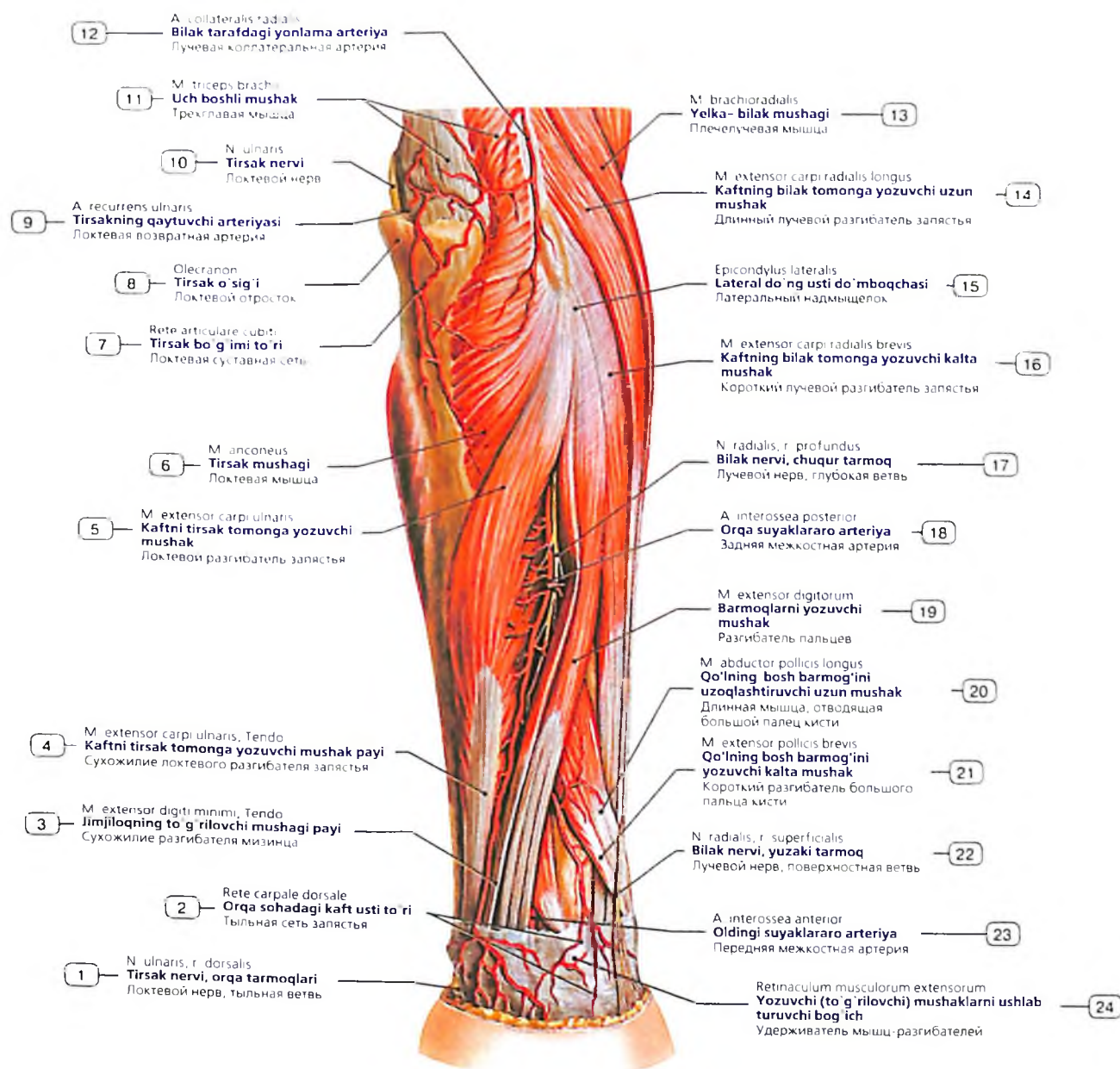


Rasm № 394. Tirsak va bilak arteriyalari, old tomondan ko'rinishi.
Рисунок № 394. Локтевая и лучевая артерии, вид спереди.

- 1 Radial indicis artery
- 2 Princeps pollicis artery, branches
- 3 Adductor pollicis
- 4 Princeps pollicis artery
- 5 Deep palmar arch
- 6 Radial artery, superficial palmar branch
- 7 Flexor retinaculum
- 8 Radial artery, palmar carpal branch
- 9 Flexor pollicis longus
- 10 Radial artery
- 11 Anterior interosseous artery
- 12 Posterior interosseous artery
- 13 Common interosseous artery

- 14 Radial recurrent artery
- 15 Radial nerve, deep branch
- 16 Radial nerve, superficial branch
- 17 Brachial artery
- 18 Biceps brachii
- 19 Brachialis
- 20 Median nerve
- 21 Superior ulnar collateral artery
- 22 Ulnar nerve
- 23 Humerus, medial epicondyle
- 24 Inferior ulnar collateral artery
- 25 Anterior branch
- 26 Ulnar recurrent artery

- 27 Posterior branch
- 28 Ulnar artery
- 29 Flexor carpi ulnaris
- 30 Flexor digitorum profundus
- 31 Pronator quadratus
- 32 Ulnar artery, palmar carpal branch
- 33 Pisiform
- 34 Ulnar artery, deep palmar branch
- 35 Superficial palmar arch
- 36 Common palmar digital arteries
- 37 Proper palmar digital arteries



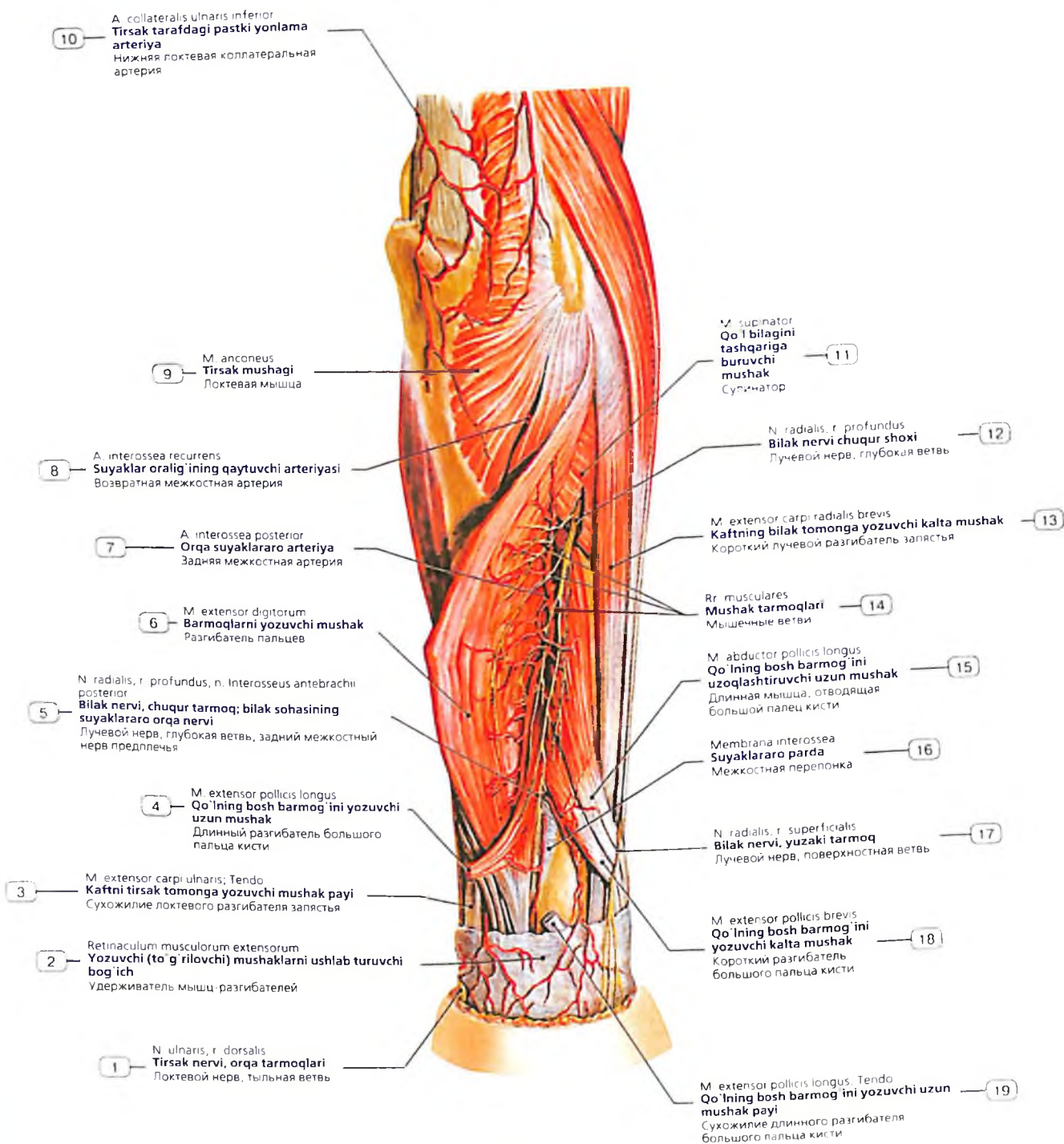
Rasm № 395. Bilak arteriyalari, orqa tomondan ko'rinishi.

Рисунок № 395. Артерии предплечья, вид сзади.

- 1 Ulnar nerve, dorsal branch
- 2 Dorsal carpal arch
- 3 Extensor digiti minimi, Tendon
- 4 Extensor carpi ulnaris, Tendon
- 5 Extensor carpi ulnaris
- 6 Anconeus
- 7 Cubital anastomosis
- 8 Olecranon

- 9 Ulnar recurrent artery
- 10 Ulnar nerve
- 11 Triceps brachii
- 12 Radial collateral artery
- 13 Brachioradialis
- 14 Extensor carpi radialis longus
- 15 Lateral epicondyle
- 16 Extensor carpi radialis brevis

- 17 Radial nerve, deep branch
- 18 Posterior interosseous artery
- 19 Extensor digitorum
- 20 Abductor pollicis longus
- 21 Extensor pollicis brevis
- 22 Radial nerve, superficial branch
- 23 Anterior interosseous artery
- 24 Extensor retinaculum

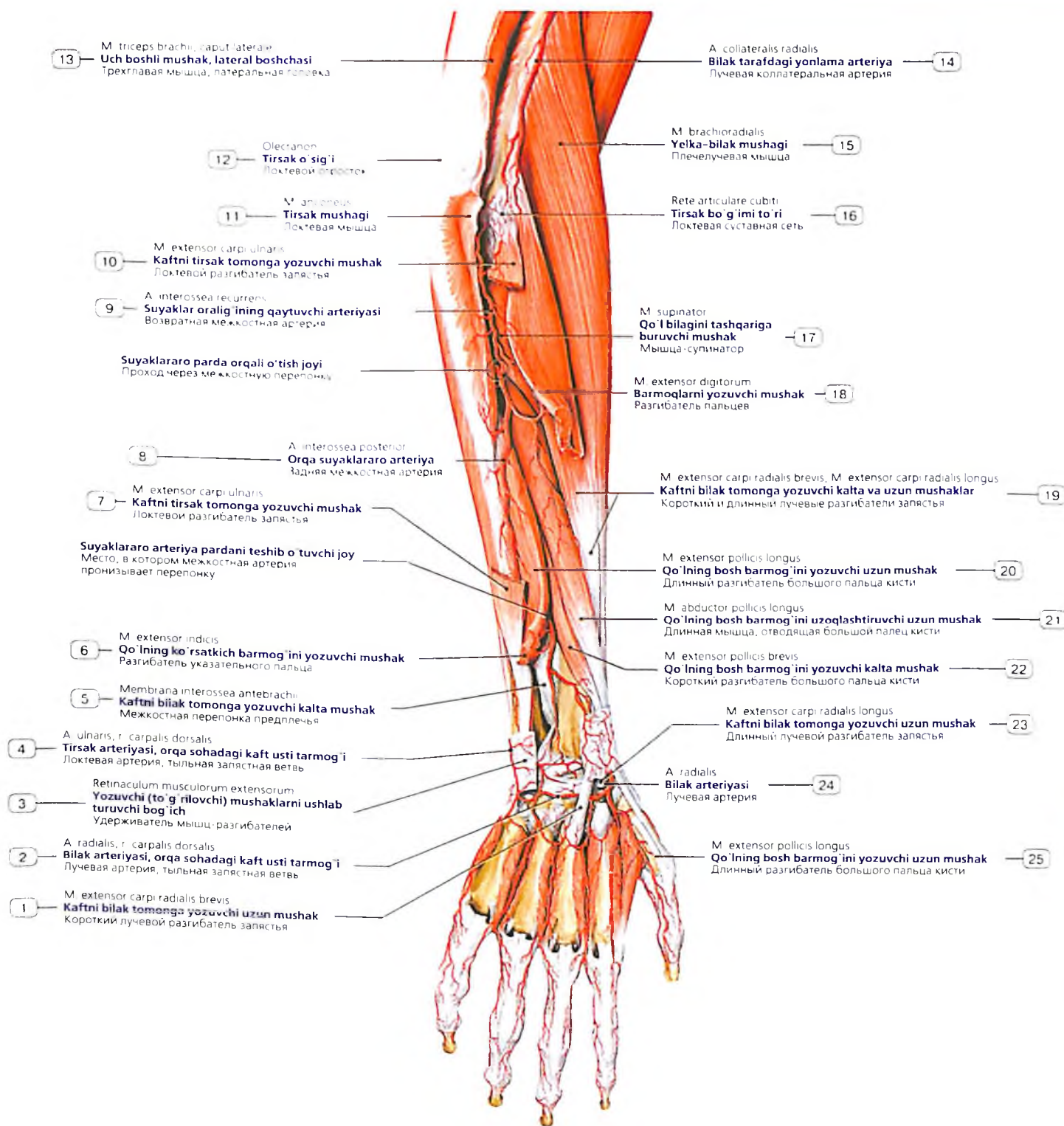


Rasm № 396. Bilak arteriyalari, barmoqlarni yozuvchi mushak surilgan, orqa tomondan ko'rinishi.
Рисунок № 396. Артерии предплечья, разгибатель пальцев отведен, вид сзади.

- 1 Ulnar nerve, dorsal branch
- 2 Extensor retinaculum
- 3 Extensor carpi ulnaris, Tendon
- 4 Extensor pollicis longus
- 5 Radial nerve, deep branch, Posterior interosseous nerve
- 6 Extensor digitorum

- 7 Posterior interosseous artery
- 8 Recurrent interosseous artery
- 9 Anconeus
- 10 Inferior ulnar collateral artery
- 11 Supinator
- 12 Radial nerve, deep branch
- 13 Extensor carpi radialis brevis

- 14 Muscular branches
- 15 Abductor pollicis longus
- 16 Interosseous membrane
- 17 Radial nerve, superficial branch
- 18 Extensor pollicis brevis
- 19 Extensor pollicis longus, Tendon



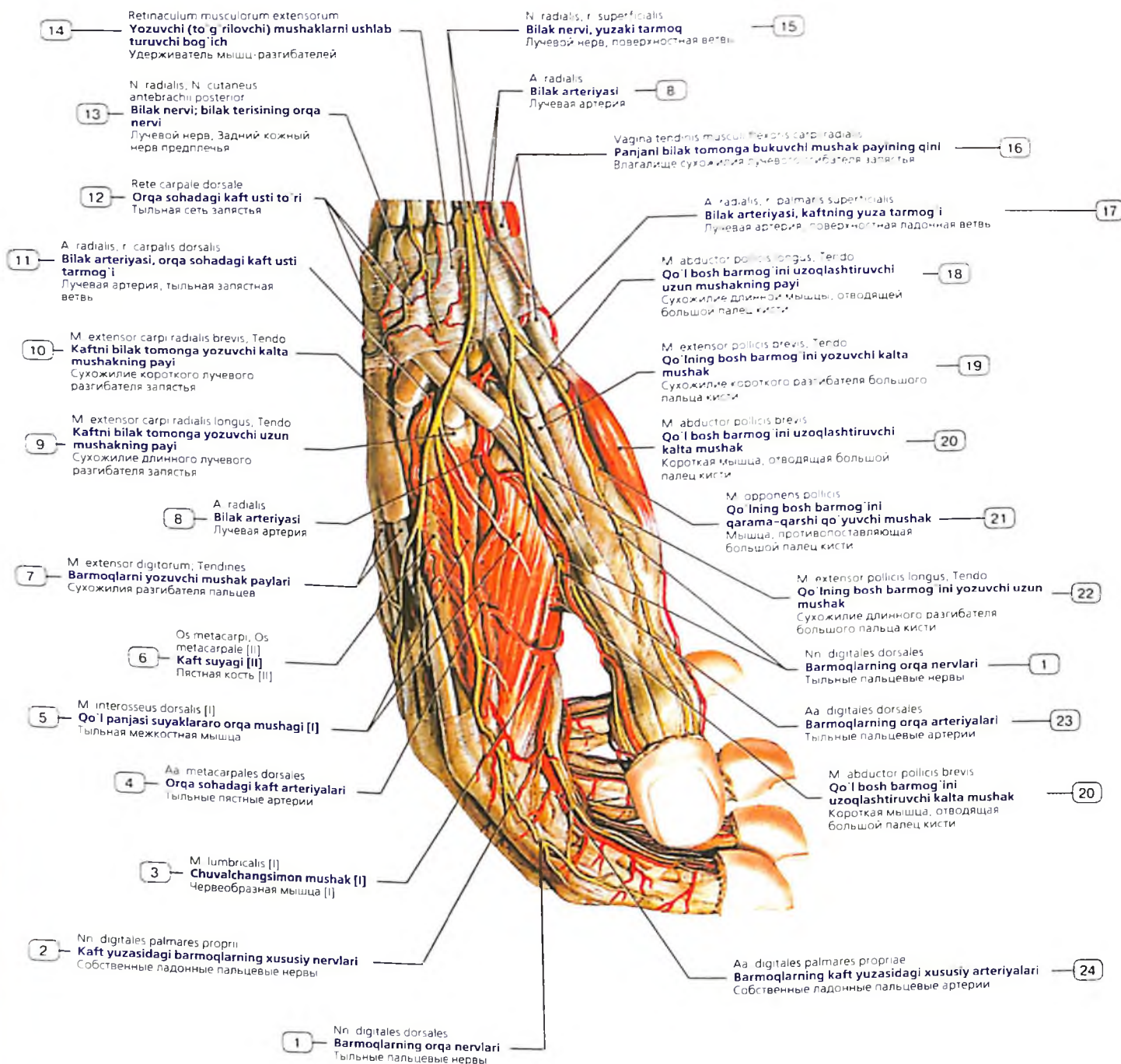
Rasm № 397. Bilakning orqa sohadagi va kaft usti arteriyalari.
Рисунок № 397. Артерии задней области предплечья и тыла кисти.

- 1 Extensor carpi radialis brevis
- 2 Radial artery, dorsal carpal branch
- 3 Extensor retinaculum
- 4 Ulnar artery, dorsal carpal branch
- 5 Interosseus membrane of forearm
- 6 Extensor indicis
- 7 Extensor carpi ulnaris

- 8 Posterior interosseus artery
- 9 Recurrent interosseus artery
- 10 Extensor carpi ulnaris
- 11 Anconeus
- 12 Olecranon
- 13 Triceps brachii, lateral head
- 14 Radial collateral artery

- 15 Brachioradialis
- 16 Cubital anastomosis
- 17 Supinator muscle
- 18 Extensor digitorum
- 19 Extensor carpi radialis brevis and longus
- 20 Extensor pollicis longus
- 21 Abductor pollicis longus

- 22 Extensor pollicis brevis
- 23 Extensor carpi radialis longus
- 24 Radial artery
- 25 Extensor pollicis longus

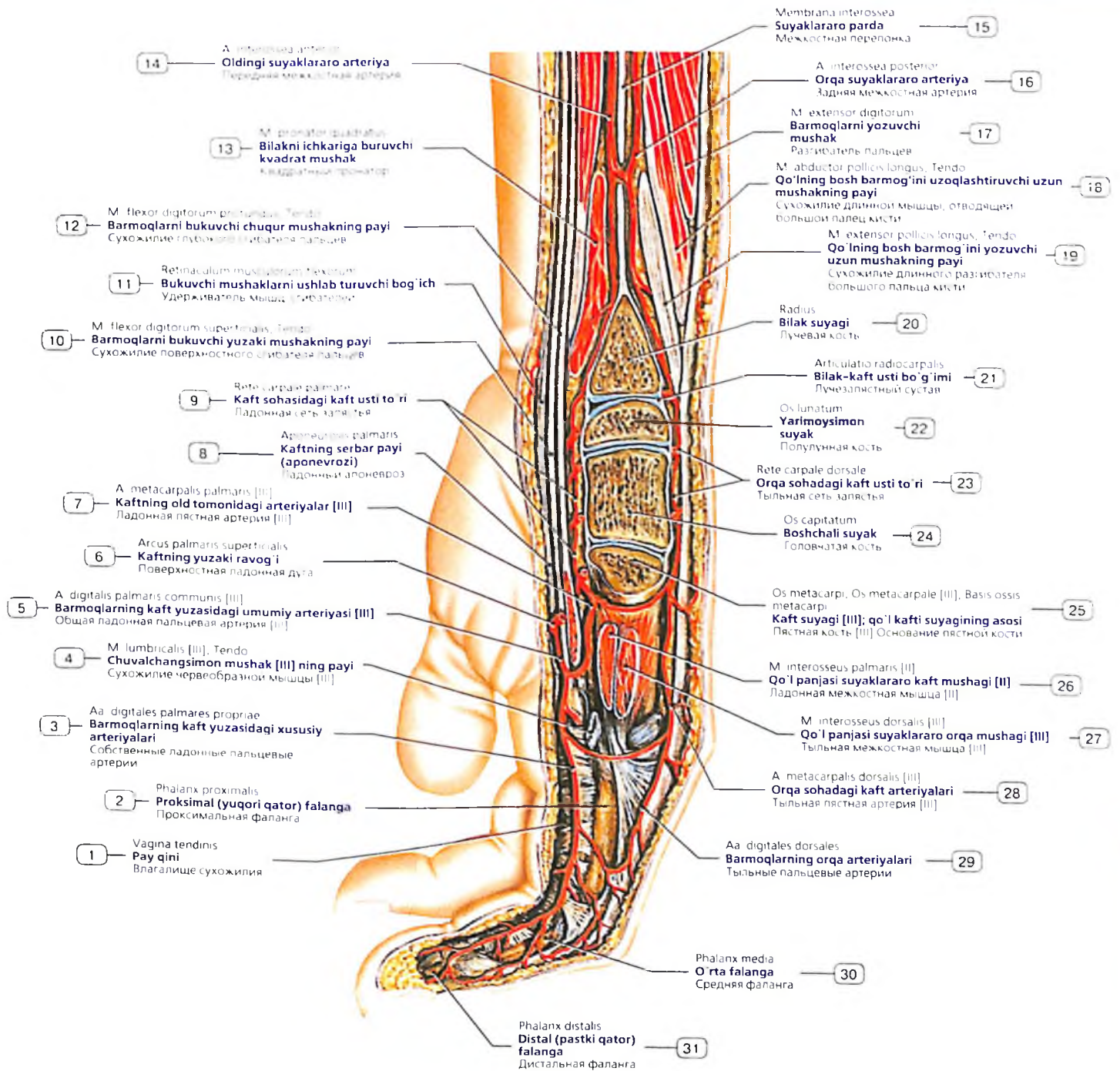


Rasm 398. Qo'l panjasining arteriyalari, medial tomondan ko'rinishi.
Рисунок № 398. Артерии кисти, вид с медиальной стороны.

- 1 Dorsal digital nerves
- 2 Proper palmar digital nerves
- 3 Lumbrical [I]
- 4 Dorsal metacarpal arteries
- 5 Dorsal interossei [I]
- 6 Metacarpal [II]
- 7 Extensor digitorum, Tendon
- 8 Radial artery
- 9 Extensor carpi radialis longus, Tendon

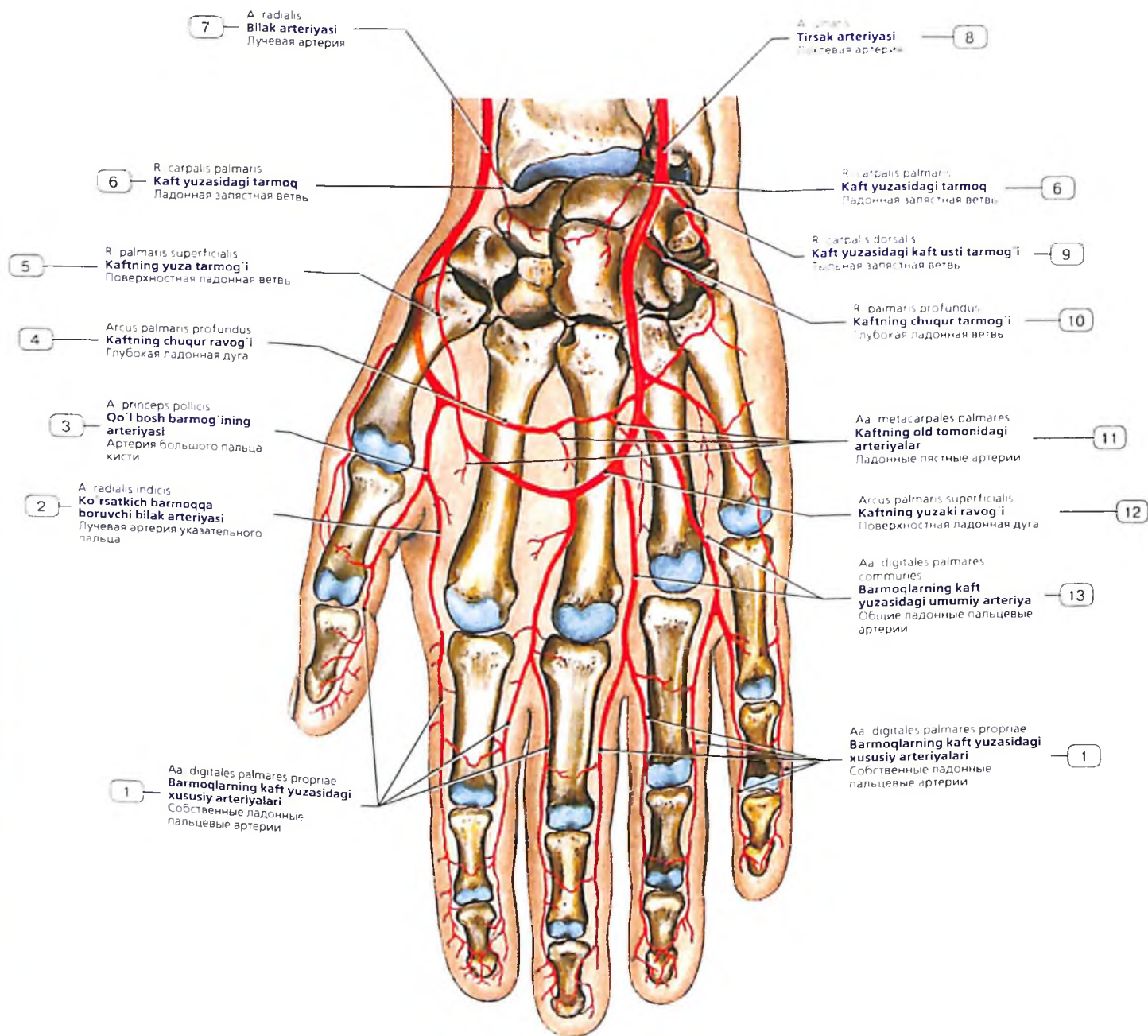
- 10 Extensor carpi radialis brevis, Tendon
- 11 Radial artery, dorsal carpal branch
- 12 Dorsal carpal arch
- 13 Radial nerve, Posterior cutaneous nerve of forearm, Posterior antebrachial cutaneous nerve
- 14 Extensor retinaculum
- 15 Radial nerve, superficial branch
- 16 Tendinous sheath of flexor carpi radialis
- 17 Radial artery, superficial palmar branch

- 18 Abductor pollicis longus, Tendon
- 19 Extensor pollicis brevis, Tendon
- 20 Abductor pollicis brevis
- 21 Opponens pollicis
- 22 Extensor pollicis longus, Tendon
- 23 Dorsal digital arteries
- 24 Proper palmar digital arteries



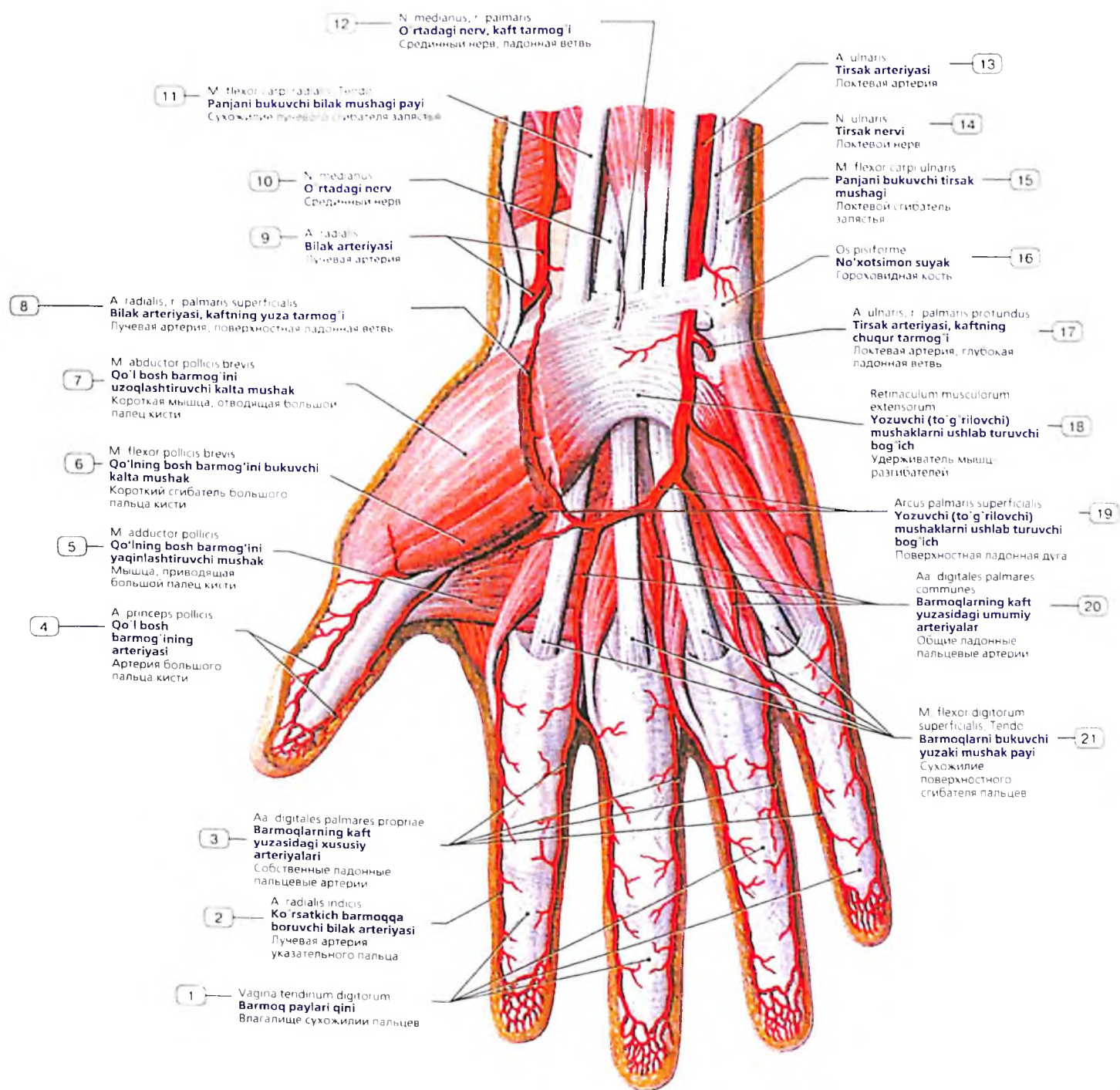
Rasm № 399. Qo'l panjasining arteriyalari, lateral tomondan ko'rinishi.
Рисунок № 399. Артерии кисти, вид с латеральной стороны.

- | | | |
|---|---------------------------------------|---|
| 1 Tendon sheath | 12 Flexor digitorum profundus, Tendon | 23 Dorsal carpal arch |
| 2 Proximal phalanx | 13 Pronator quadratus | 24 Capitate |
| 3 Proper palmar digital arteries | 14 Anterior interosseus artery | 25 Metacarpal [III], Base of metacarpal |
| 4 Lumbrical [III], Tendon | 15 Interosseus membrane | 26 Palmar interosseus [II] |
| 5 Common palmar digital artery [III] | 16 Posterior interosseus artery | 27 Dorsal interosseus [III] |
| 6 Superficial palmar arch | 17 Extensor digitorum, Tendon | 28 Dorsal metacarpal artery [III] |
| 7 Palmar metacarpal artery [III] | 18 Abductor pollicis longus, Tendon | 29 Dorsal digital arteries [III] |
| 8 Palmar aponeurosis | 19 Extensor pollicis longus, Tendon | 30 Middle phalanx |
| 9 Palmar carpal arch | 20 Radius | 31 Distal phalanx |
| 10 Flexor digitorum superficialis, Tendon | 21 Wrist joint | |
| 11 Flexor retinaculum | 22 Lunate | |



Расм № 400. Kaftning yuza va chuqur ravoqlari.
Рисунок № 400. Поверхностная и глубокая ладонные дуги.

- | | |
|----------------------------------|-----------------------------------|
| 1 Proper palmar digital arteries | 8 Ulnar artery |
| 2 Radialis indicis artery | 9 Dorsal carpal branch |
| 3 Princeps pollicis artery | 10 Deep palmar branch |
| 4 Deep palmar arch | 11 Palmar metacarpal arteries |
| 5 Superficial palmar branch | 12 Superficial palmar arch |
| 6 Palmar carpal branch | 13 Common palmar digital arteries |
| 7 Radial artery | |

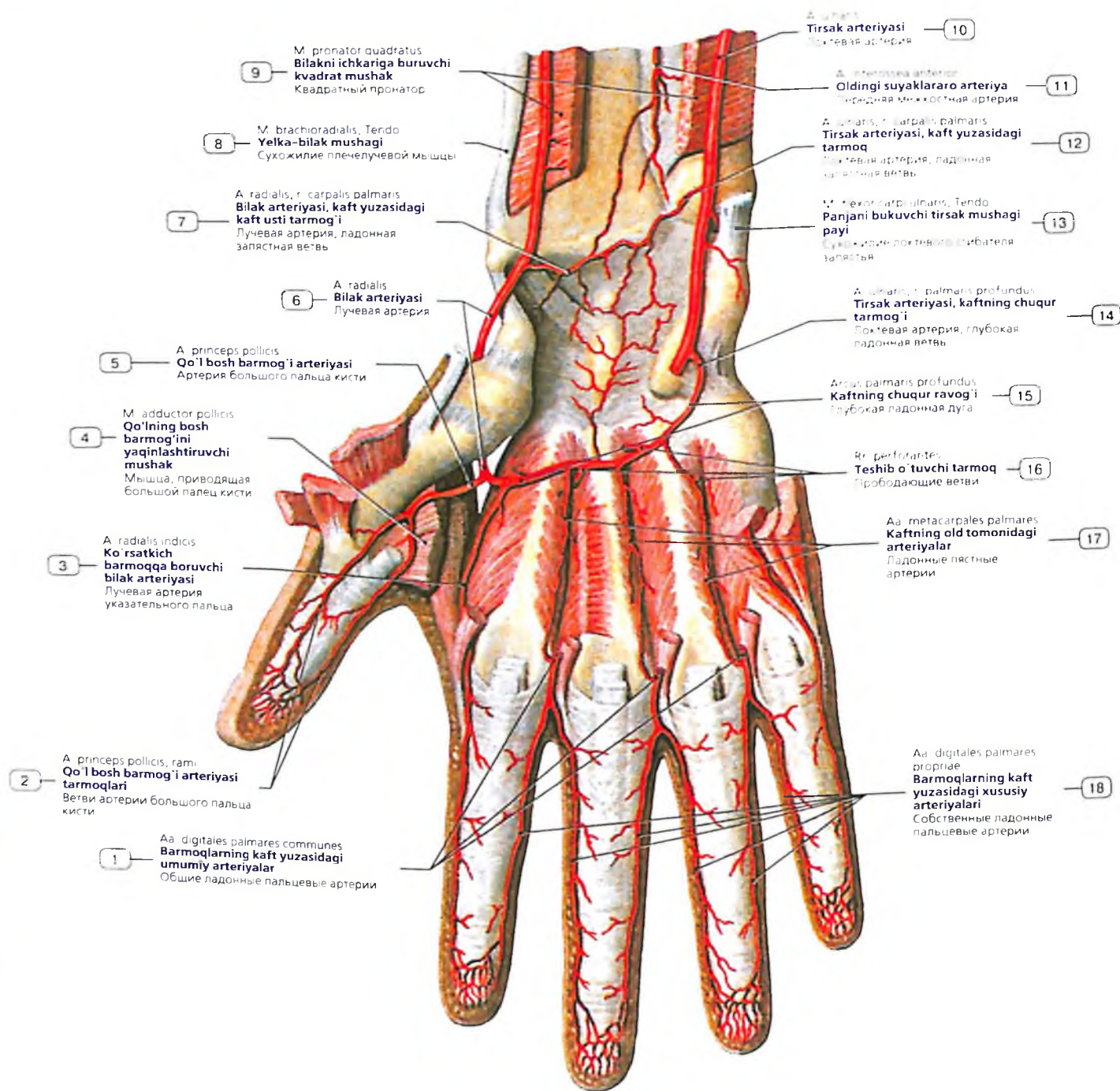


Rasm № 401. Kaftning yuzaki ravog'i.
Рисунок № 401. Поверхностная ладонная дуга.

- 1 Tendon sheath of digitorum
- 2 Radialis indicis artery
- 3 Proper palmar digital arteries
- 4 Princeps pollicis artery
- 5 Adductor pollicis
- 6 Flexor pollicis brevis
- 7 Abductor pollicis brevis

- 8 Radial artery, superficial palmar branch
- 9 Radial artery
- 10 Median nerve
- 11 Flexor carpi radialis, Tendon
- 12 Median nerve, palmar branch
- 13 Ulnar artery
- 14 Ulnar nerve

- 15 Flexor carpi ulnaris
- 16 Pisiform
- 17 Ulnar artery, deep palmar branch
- 18 Extensor retinaculum
- 19 Superficial palmar arch
- 20 Common palmar digital arteries
- 21 Flexor digitorum superficialis, Tendon

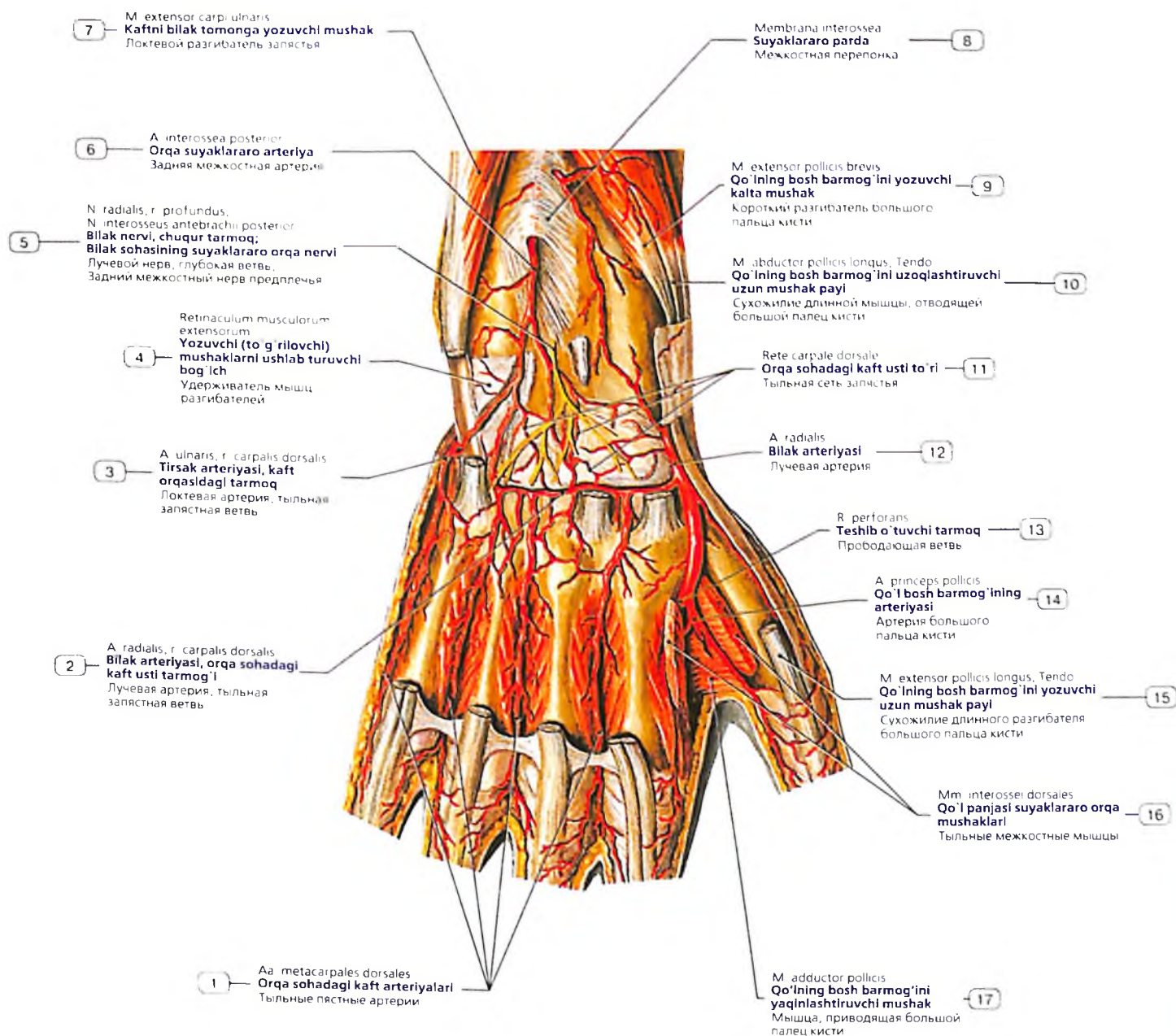


Rasm № 402. Kaftning chuqur ravog'i.
Рисунок № 402. Глубокая ладонная дуга.

1. Common palmar digital arteries
2. Princeps pollicis artery, branches
3. Radialis indicis artery
4. Adductor pollicis
5. Princeps pollicis artery
6. Radial artery

7. Radial artery, palmar carpal branch
8. Brachioradialis, Tendon
9. Pronator quadratus
10. Ulnar artery
11. Anterior interosseus artery
12. Ulnar artery, palmar carpal branch

13. Flexor carpi ulnaris, Tendon
14. Ulnar artery, deep palmar branch
15. Deep palmar arch
16. Perforating branches
17. Palmar metacarpal arteries
18. Proper palmar digital arteries



Rasm № 403. Kaftning orqa sohasidagi arteriyalari.
Рисунок № 403. Артерии тыльной стороны кисти.

- 1 Dorsal metacarpal arteries
- 2 Radial artery, dorsal carpal branch
- 3 Ulnar artery, dorsal carpal branch
- 4 Extensor retinaculum
- 5 Radial nerve, deep branch, Posterior interosseous nerve

- 6 Posterior interosseus artery
- 7 Extensor carpi ulnaris
- 8 Interosseus membrane
- 9 Extensor pollicis brevis
- 10 Abductor pollicis longus, Tendon
- 11 Dorsal carpal arch

- 12 Radial artery
- 13 Perforating branch
- 14 Princeps pollicis artery
- 15 Extensor pollicis longus, Tendon
- 16 Dorsal interossei
- 17 Adductor pollicis

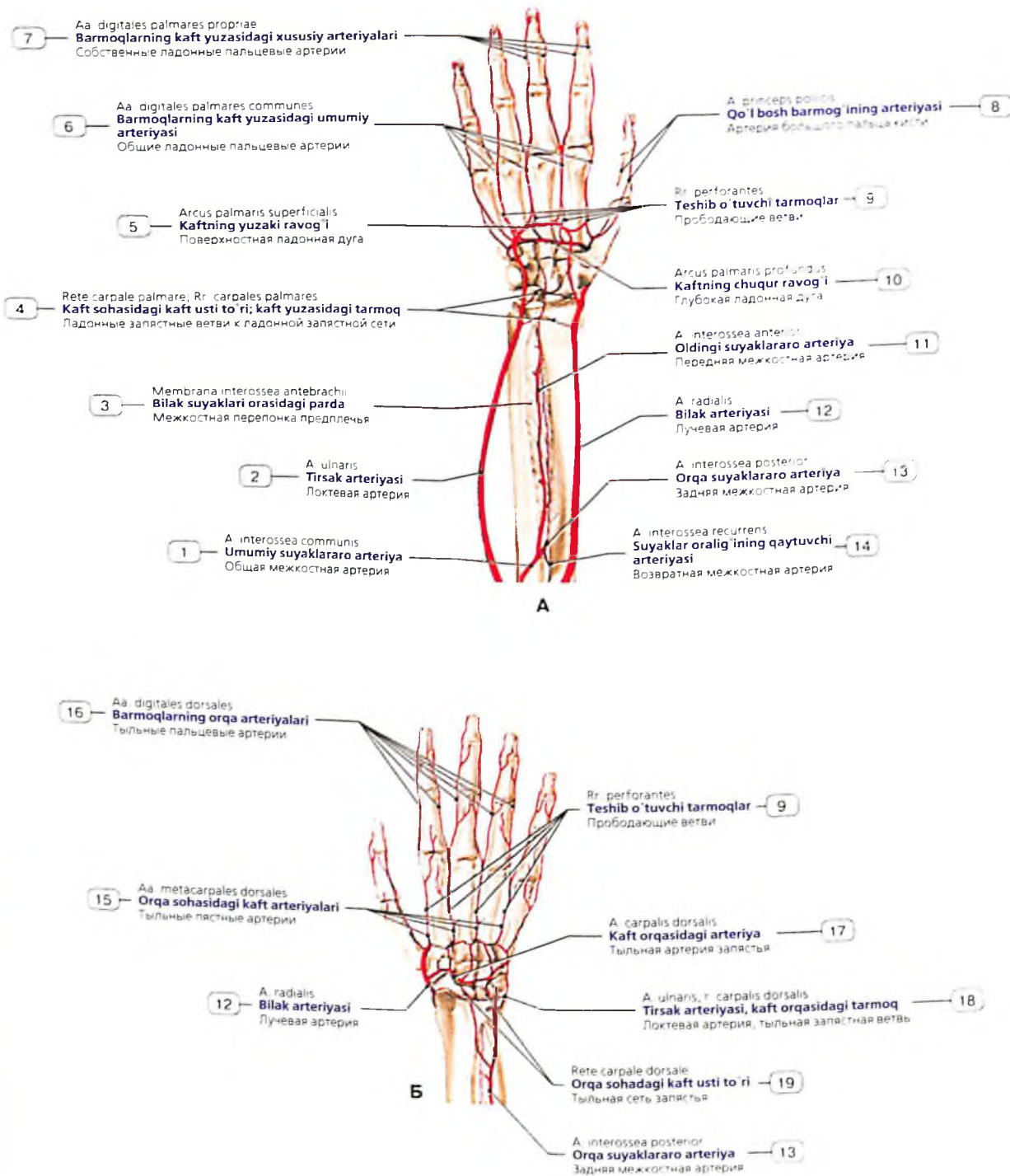
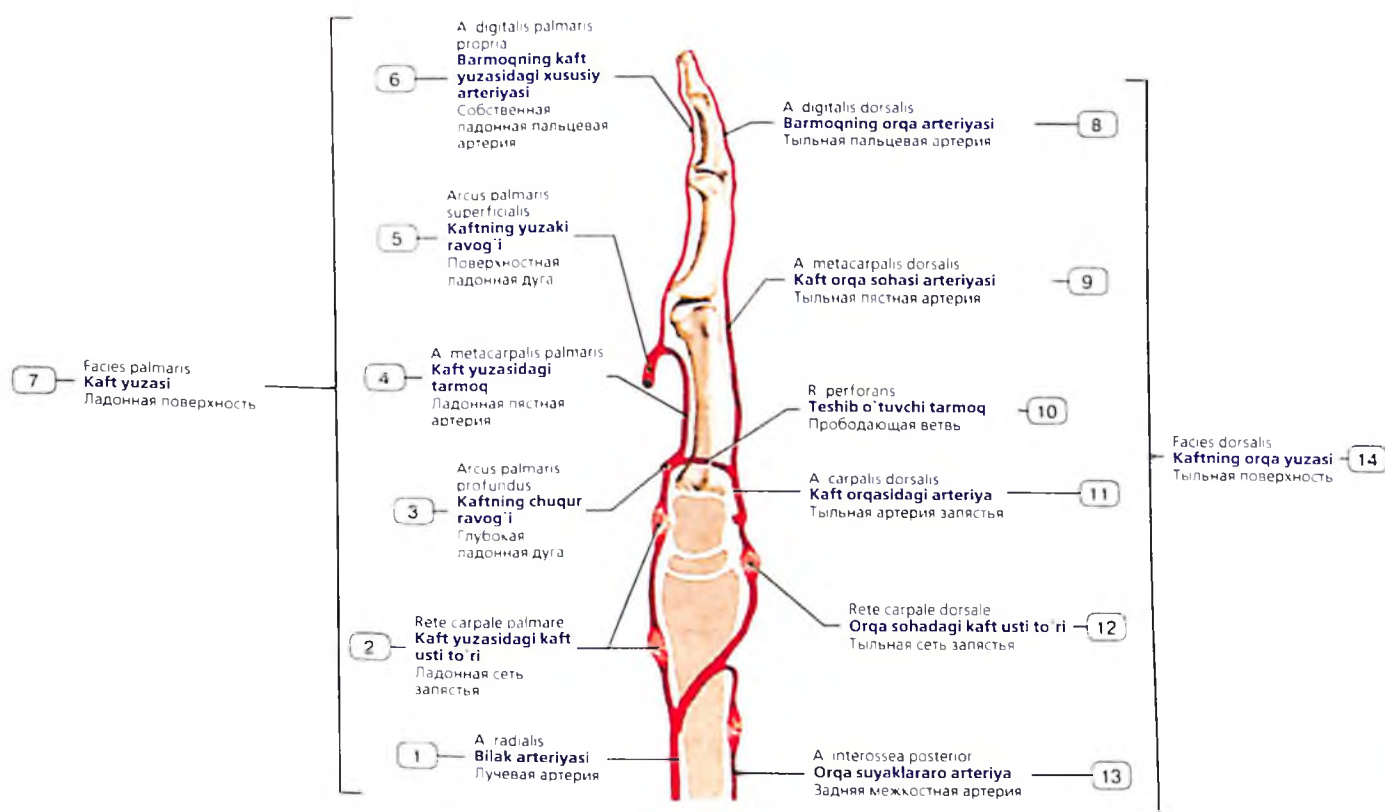


Рисунок № 404. Артериальные анастомозы кисти (А — ладонная поверхность; Б — тыльная поверхность) (схемы).

1. Common interosseus artery
2. Ulnar artery
3. Interosseus membrane of forearm
4. Palmar carpal arch, Palmar carpal branches
5. Superficial palmar arch
6. Common palmar digital arteries
7. Proper palmar digital arteries

8. Princeps pollicis artery
9. Perforating branches
10. Deep palmar arch
11. Anterior interosseus artery
12. Radial artery
13. Posterior interosseus artery
14. Recurrent interosseus artery

15. Dorsal metacarpal arteries
16. Dorsal digital arteries
17. Dorsal carpal artery
18. Ulnar artery, dorsal carpal branch
19. Dorsal carpal arch

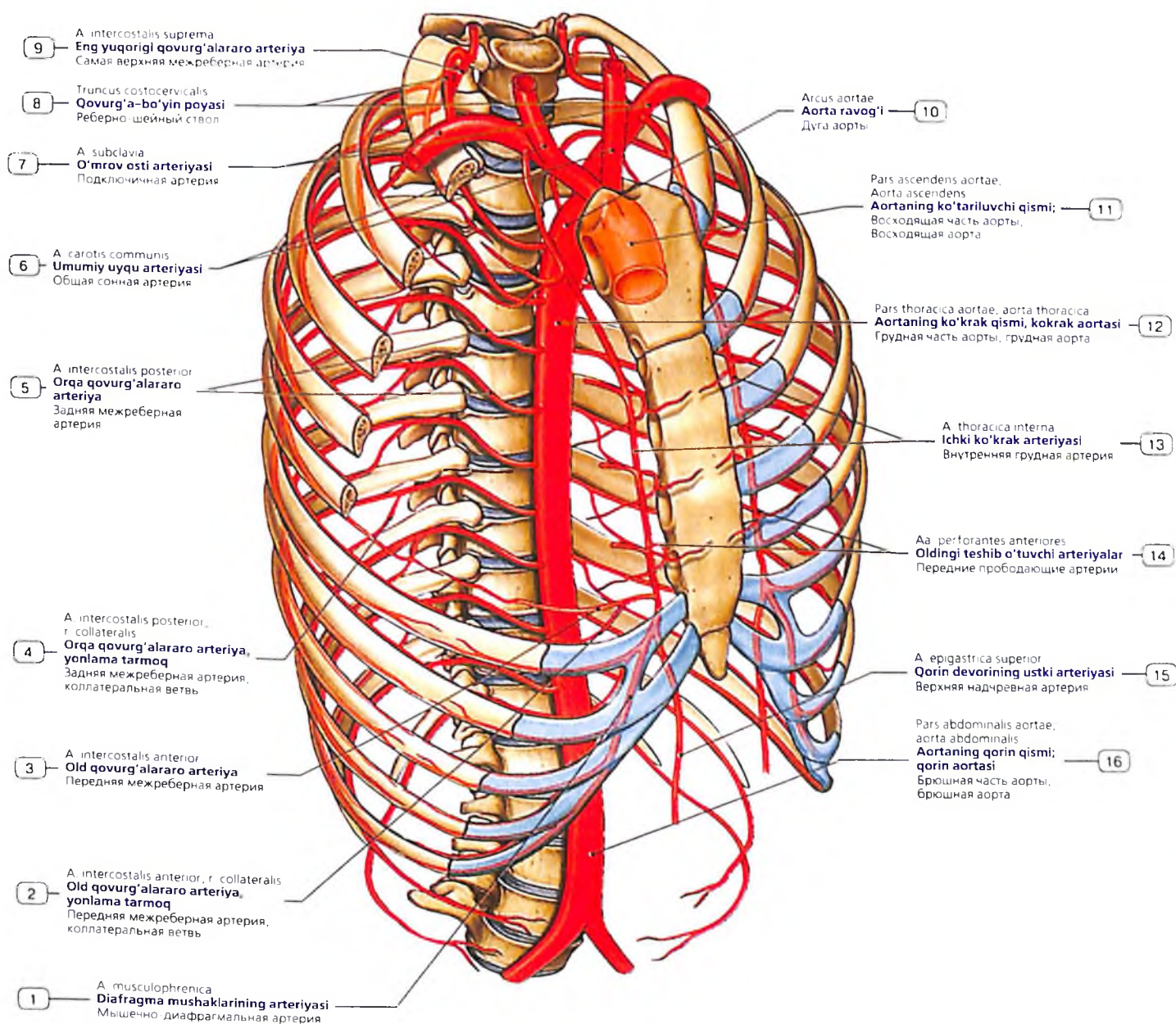


Rasm № 405. Qo'l panjasining arterial anastomozlari, II barmoq, yon tomondan ko'rinishi.
Рисунок № 405. Артериальные анастомозы кисти, II палец, вид сбоку (схемы).

- | | |
|--------------------------------------|---------------------------------|
| 1 Radial artery | 8 Dorsal digital artery |
| 2 Palmar carpal arch | 9 Dorsal metacarpal artery |
| 3 Deep palmar arch | 10 Perforating branch |
| 4 Ulnar artery, palmar carpal branch | 11 Dorsal carpal artery |
| 5 Superficial palmar arch | 12 Dorsal carpal arch |
| 6 Proper palmar digital arteries | 13 Posterior interosseus artery |
| 7 Palmar surface | 14 Dorsal surface |

30 — jadval. Ko'krak aortasi tarmoqlari

Arteriya nomi va uning tarmoqlari	Boshlanishi	Arteriya yo'nalishi	Qon bilan ta'minlaydigan a'zolar (soha)
Parietal tarmoqlari			
Diafragmaning ustki arteriyasi, juft	Bevosita diafragma ustida boshlanadi	Diafragmaning bel qismiga yo'naladi	Diafragmaning orqa qismi
Orqa qovurg'alararo arteriyalar, (10juft, III-XII) 1. Orqa tarmoq 2,3. Medial va lateral teri tarmoqlari 4. Orqa miya tarmoqlari	III-XI qovurg'a oralig'ida, XII-si esa XII qovurg'adan pastda boshlanadi	Qovurg'a oralig'lari bo'ylab yo'naladi	Ko'krak terisi va mushaklari, qorin devori terisi va mushaklari, ko'krak umurtqalari, qovurg'alar, orqa miya va uning pardalari, diafragma
Vitseral tarmoqlari			
Bronxlarga yo'naluvchi tarmoqlar	IV-V ko'krak umurtqalari va chap bosh bronx sathidan boshlanadi	Traxeya, bronx va o'pka darvozasiga qarab yo'naladi va bronxlarni kuzatadi	Traxeya, bronxlar, o'pka
Qizilo'ngachga yo'naladigan tarmoqlar	IV-VIII ko'krak umurtqalaridan	Qizilo'ngachga qarab yo'naladi	Qizilo'ngachning ko'krak qismi
Perikardga yo'naladigan tarmoqlar	Perikard ortidan boshlanadi	Perikardning orqa qismiga qarab yo'naladi	Perikard, orqa ko'ks oralig'ining limfa tugunlari
Ko'ks oralig'iga qarab yo'naladigan tarmoqlar	Orqa ko'ks oralig'idan boshlanadi	Orqa ko'ks oralig'i orqali o'tadi	Perikard, orqa ko'ks oralig'ining limfa tugunlari



Rasm № 406. Ko'krak aortasi va uning tarmoqlari, yon tomondan ko'rinishi.
Рисунок № 406. Грудная аорта и ее ветви, вид сбоку.

- | | |
|---|----------------------------------|
| 1 Musculophrenic artery | 9 Supreme intercostal artery |
| 2 Anterior intercostal artery, collateral branch | 10 Arch of aorta, Aortic arch |
| 3 Anterior intercostal artery | 11 Ascending aorta |
| 4 Posterior intercostal artery, collateral branch | 12 Thoracic aorta |
| 5 Posterior intercostal artery | 13 Internal thoracic artery |
| 6 Common carotid artery | 14 Anterior perforating arteries |
| 7 Subclavian artery | 15 Superior epigastric artery |
| 8 Costocervical trunk | 16 Abdominal aorta |

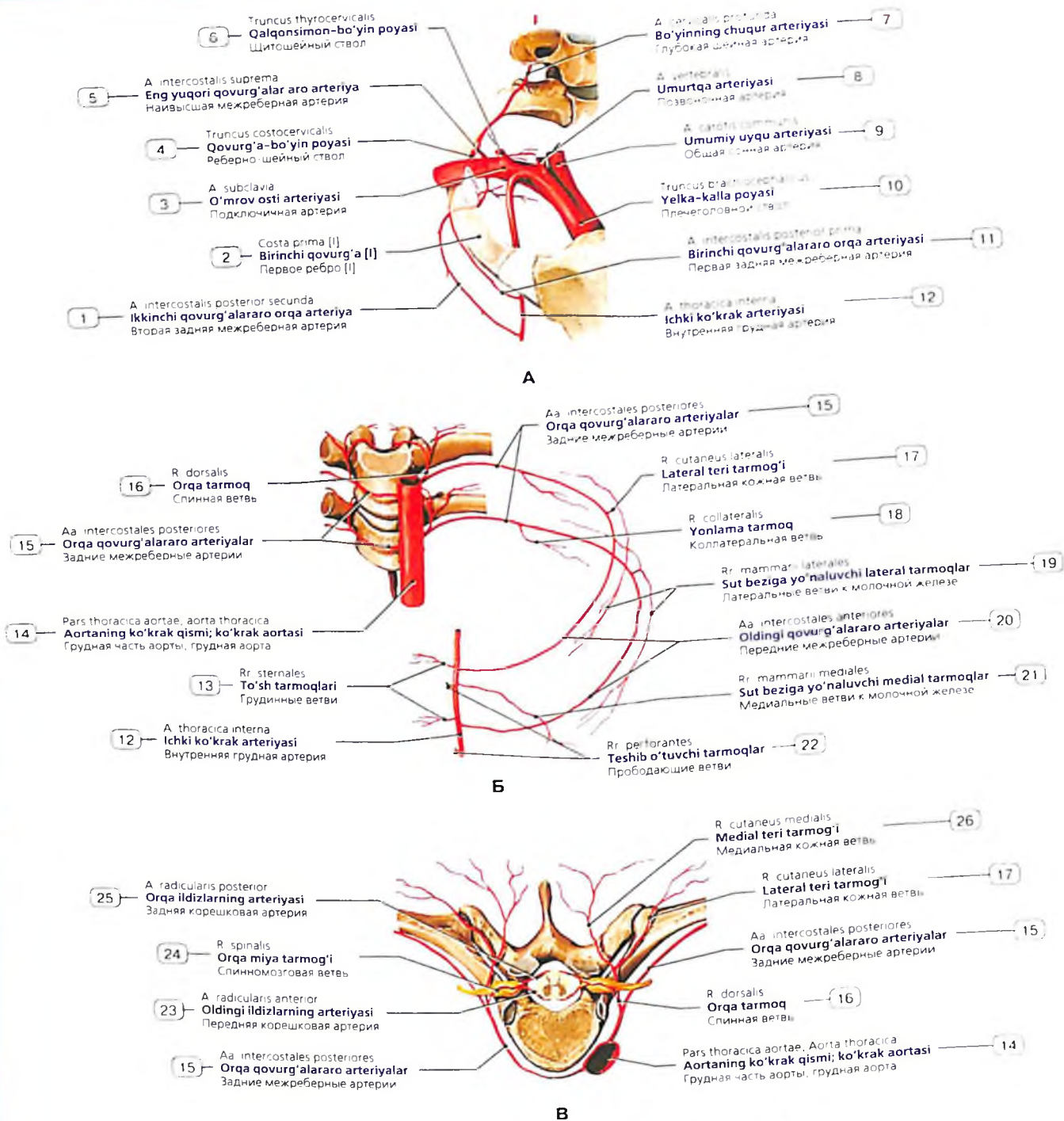
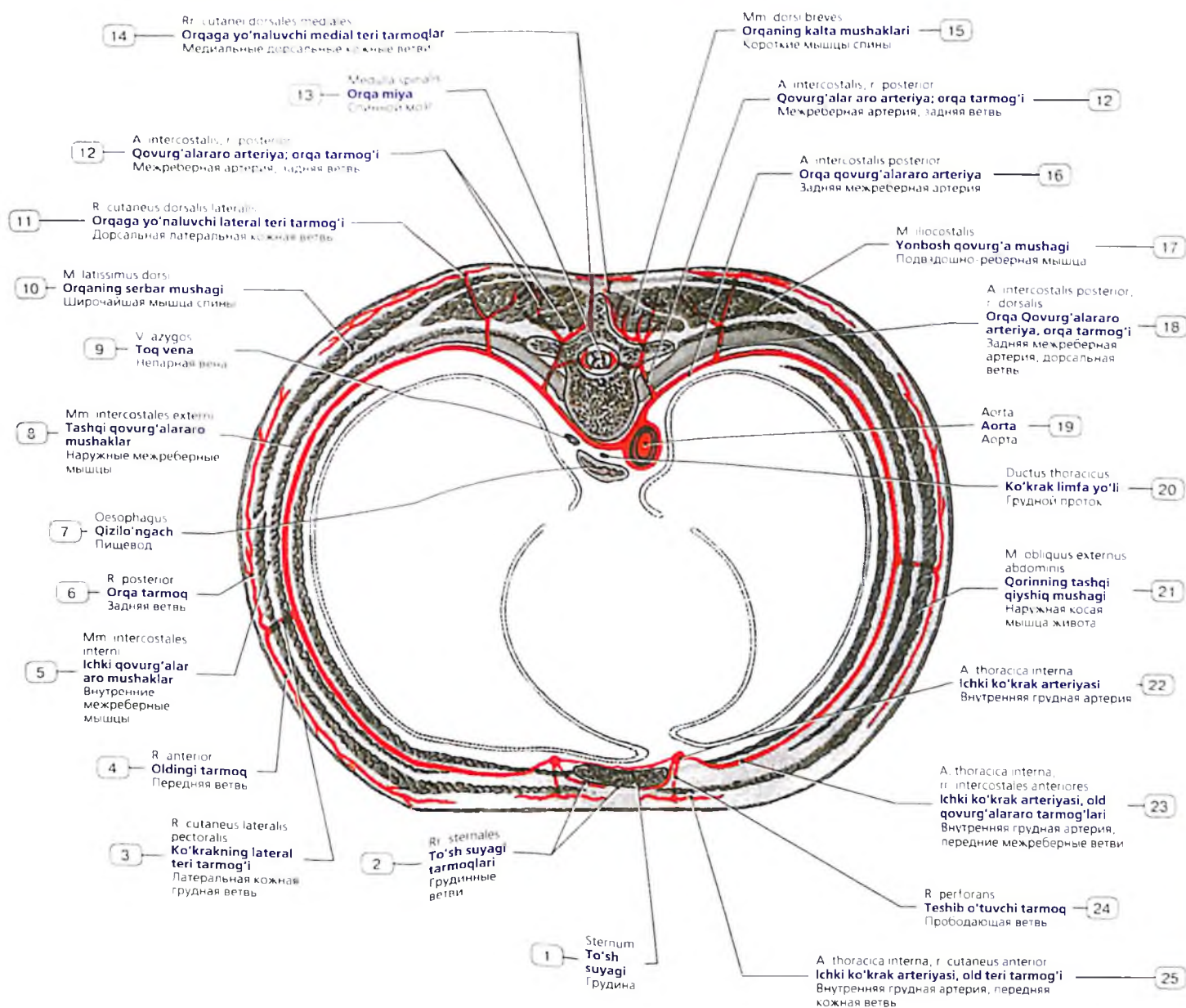


Рис. № 407. Распределение ветвей межреберных артерий [А — вид спереди, наивысшая межреберная артерия (ветвь щитовидного ствола) отдает первые две задние межреберные артерии; Б — вид спереди, задняя межреберная артерия, сегментарно отходящая от грудной аорты; В — вид сверху, ветви задних межреберных артерий].

- | | | | | |
|--|--|------------------------------------|-----------------------------------|--------------------------------|
| 1. Second posterior intercostal artery | 6. Thyrocervical trunk | 12. Internal thoracic artery | 18. Collateral branch | 24. Spinal branch |
| 2. First rib [I] | 7. Deep cervical artery | 13. Sternal branches | 19. Lateral mammary branches | 25. Posterior radicular artery |
| 3. Subclavian artery | 8. Vertebral artery | 14. Thoracic aorta | 20. Anterior intercostal arteries | 26. Medial cutaneous branch |
| 4. Costocervical trunk | 9. Common carotid artery | 15. Posterior intercostal arteries | 21. Medial mammary branches | |
| 5. Superior intercostal artery | 10. Brachiocephalic trunk | 16. Dorsal branch | 22. Perforating branches | |
| | 11. First posterior intercostal artery | 17. Lateral cutaneous branch | 23. Anterior radicular artery | |

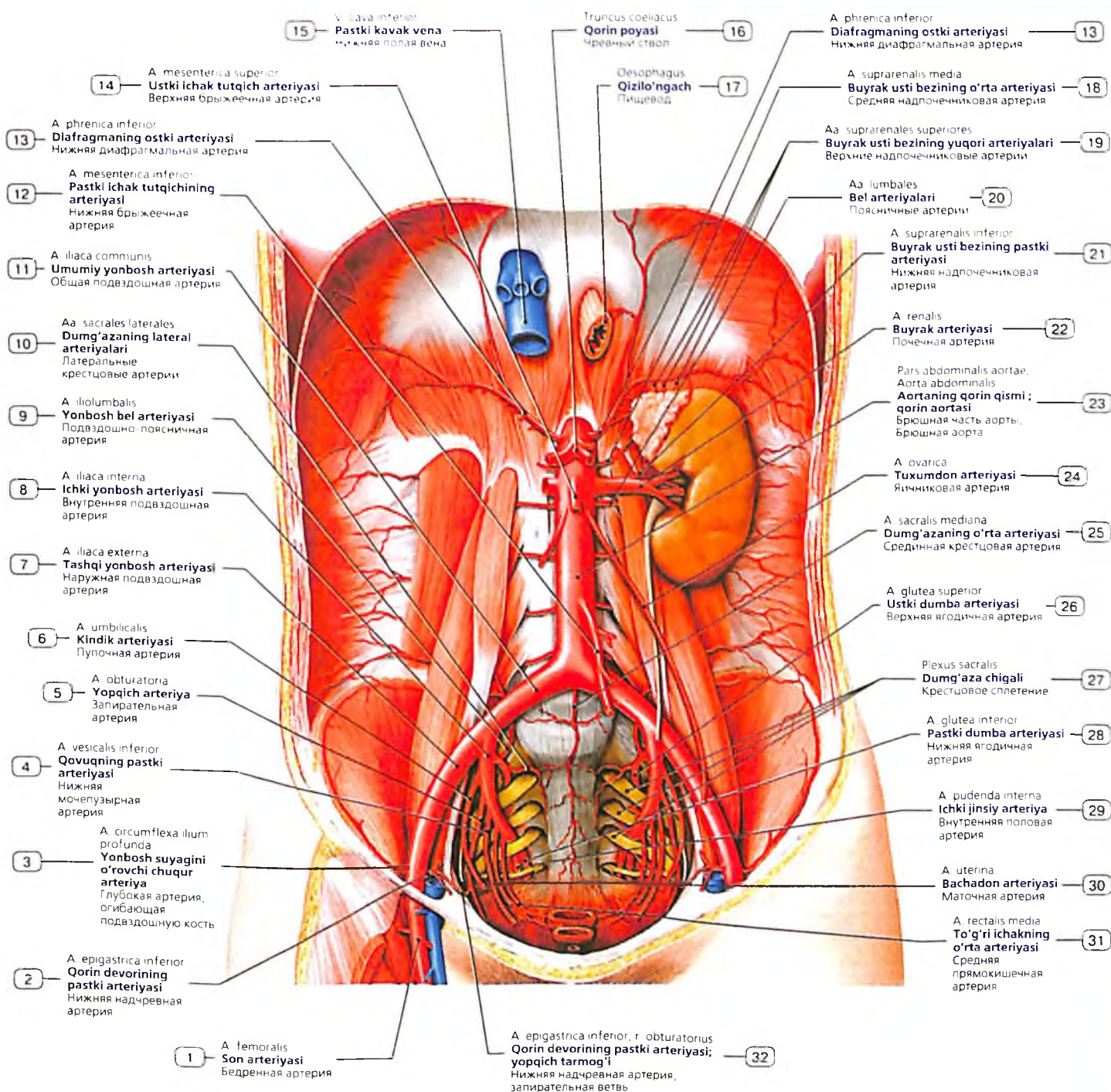


Rasm № 408. Orqa qovurg'alararo arteriyalar (chizma).
Рисунок № 408. Задние межреберные артерии (схема).

- | | | |
|-------------------------------------|--|--|
| 1 Sternum | 10 Latissimus dorsi | 19 Aorta |
| 2 Sternal branches | 11 Dorsal lateral cutaneous branch | 20 Thoracic duct |
| 3 Lateral pectoral cutaneous branch | 12 Intercostal artery, posterior branch | 21 External oblique |
| 4 Anterior branch | 13 Spinal cord | 22 Internal thoracic artery |
| 5 Internal intercostal muscle | 14 Dorsal medial cutaneous branches | 23 Internal thoracic artery, anterior intercostal branches |
| 6 Posterior branch | 15 Muscles of back breves | 24 Perforating branch |
| 7 Oesophagus | 16 Posterior intercostal artery | 25 Internal thoracic artery, anterior cutaneous branch |
| 8 External intercostal muscle | 17 Iliocostalis | |
| 9 Azygos vein | 18 Posterior intercostal artery, dorsal branch | |

31 — jadval. Qorin aortasi tarmoqlari

Arteriya nomi va uning tarmoqlari	Boshlanishi	Arteriya yo'nalishi	Qon bilan ta'minlaydigan a'zolar (soha)
Parietal tarmoqlari			
Diafragmaning ostki arteriyasi (juft) Buyrak usti bezining yuqorigi arteriyasi	XII ko'krak umurtqasi sathida aorta oldingi yarim aylanasidan boshlanadi	Diafragmaning pastki qismiga va buyrak usti beziga qarab yo'naladi	Diafragma, buyrak usti bezi, qizilo'ngachning pastki qismi
Bel arteriyalari (4 juft)	I-IV bel umurtqalarining ro'parasida, aortaning orqa lateral yarim aylanasidan boshlanadi	Bel umurtqalarining o'ng va chap tomonidan aylanib, qorin yon devorining orqa qismiga yo'naladi	Orqa miya va uning pardalari, orqaning, qorin devorining orqa qismi terisi va mushaklari
Vitseral tarmoqlari			
Toq tarmoqlari			
Qorin poyasi Oshqozonning chap arteriyasi Umumiy jigar arteriyasi Taloq arteriyasi	XII ko'krak umurtqasi sathida aorta oldingi yarim aylanasidan boshlanadi	Kalta, yo'g'on tarmoq bo'lib, 3ta katta tarmoqqa bo'linadi	Qizilo'ngachning qorin qismi, oshqozon, 12 barmoqli ichak, oshqozon osti bezi, jigar, o't pufagi, taloq, katta va kichik charvi
Ustki ichak tutqich arteriyasi Och ichak arteriyalari Yonbosh ichak arteriyalari Yonbosh - chamber ichak arteriyasi Chamber ichakning o'ng va o'rta arteriyalari	I bel umurtqasi ro'parasida, aortaning oldingi yarim aylanasidan boshlanadi	Arteriya o'zani me'da osti bezi bilan 12 barmoqli ichakning pastki gorizontall bo'lagi orasidan o'tib, ingichka ichak tutqichi ildiziga yo'naladi	Oshqozon osti bezi, 12 - barmoqli ichak, och, yonbosh ichaklari, ko'r ichak, chuvalchangsimon o'simta, ko'tariluvchi va ko'ndalang chamber ichaklari
Pastki ichak tutqich arteriyasi Chamber ichakning chap arteriyasi Sigmoidal ichak arteriyasi To'g'ri ichakning ustki arteriyasi	III bel umurtqasi ro'parasida, qorin aortasidan chiqadi	Qorinning seroz pardasi orqasidan pastga va chapga, katta bel mushagi oldingi yuzasi bo'ylab yo'naladi	Tushuvchi chamber ichak, sigmoidal ichak, ko'ndalang chamber ichakning chap qismi, to'g'ri ichakning yuqori qismi
Qorin aortasining juft tarmoqlari			
Buyrak usti bezining o'rta arteriyasi	I bel umurtqasi ro'parasida, ichak tutqichining ustki arteriyasi boshlanish qismidan boshlanadi	Buyrak usti bezi darvozasiga yo'naladi	Buyrak usti bezi
Buyrak arteriyasi Buyrak usti bezining pastki arteriyasi	Qorin aortasidan I-II bel umurtqalari ro'parasida boshlanadi	Buyraklar darvozasiga ko'ndalang yo'naladi	Buyrak, buyrak usti bezi, siydik yo'li ning yuqori qismi, buyrakning fibroz va yog g'ilofi
Moyak arteriyasi (erkaklarda)	Qorin aortasining ro'parasida, o'tkir burchak ostida, buyrak arteriyalarining chiqish joyidan pastroqda boshlanadi	Qorin seroz parda sinig orqasidan, chov kanali orqali urug' tizimchasi tarkibida moyakka yo'naladi	Moyaklar, moyak ortig'i, urug' chiqaruvchi yo'l, qisman siydik yo'li, moyakni ko'taruvchi mushak
Tuxumdon arteriyasi (ayollarda)		Kichik chanoq bo'shlig'iga tuxumdonlarga qarab yo'naladi Tuxumdon, bachadon nayi, siydik yo'li	



Rasm № 409. Qorin aortasi va uning tarmoqlari (chizma).
Рисунок № 409. Брюшная аорта и ее ветви.

- | | | | | |
|--------------------------------|-------------------------------|---------------------------------|----------------------------|---|
| 1 Femoral artery | 8 Internal iliac artery | 15 Inferior vena cava | 22 Renal artery | 29 Internal pudendal artery |
| 2 Inferior epigastric artery | 9 Iliolumbar artery | 16 Coeliac trunk | 23 Abdominal aorta | 30 Uterine artery |
| 3 Deep circumflex iliac artery | 10 Lateral sacral arteries | 17 Oesophagus | 24 Ovarian artery | 31 Middle rectal artery |
| 4 Inferior vesical artery | 11 Common iliac artery | 18 Middle suprarenal artery | 25 Median sacral artery | 32 Inferior epigastric artery, obturator branch |
| 5 Obturator artery | 12 Inferior mesenteric artery | 19 Superior suprarenal arteries | 26 Superior gluteal artery | |
| 6 Umbilical artery | 13 Inferior phrenic artery | 20 Lumbar arteries | 27 Sacral plexus | |
| 7 External iliac artery | 14 Superior mesenteric artery | 21 Inferior suprarenal artery | 28 Inferior gluteal artery | |

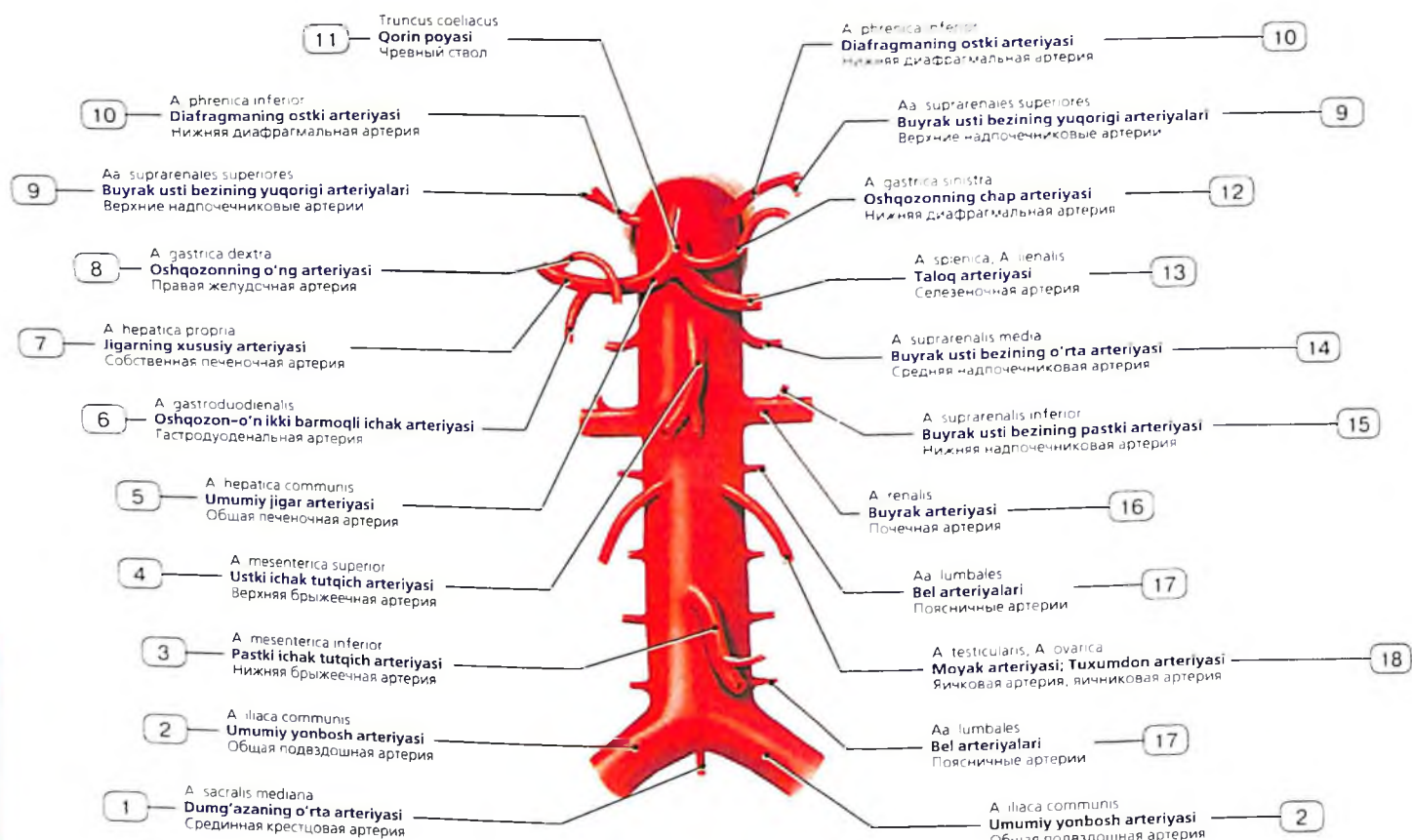
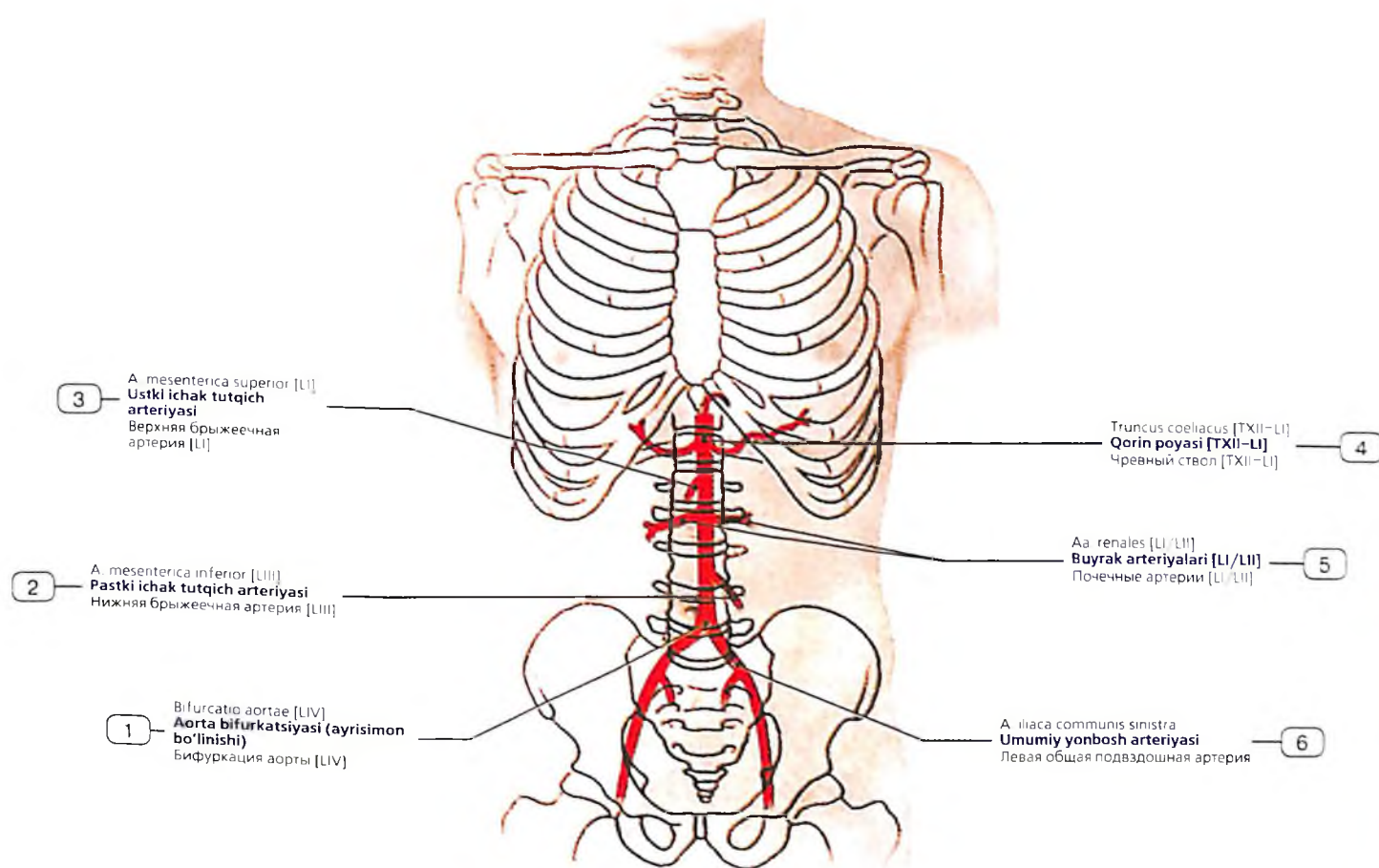


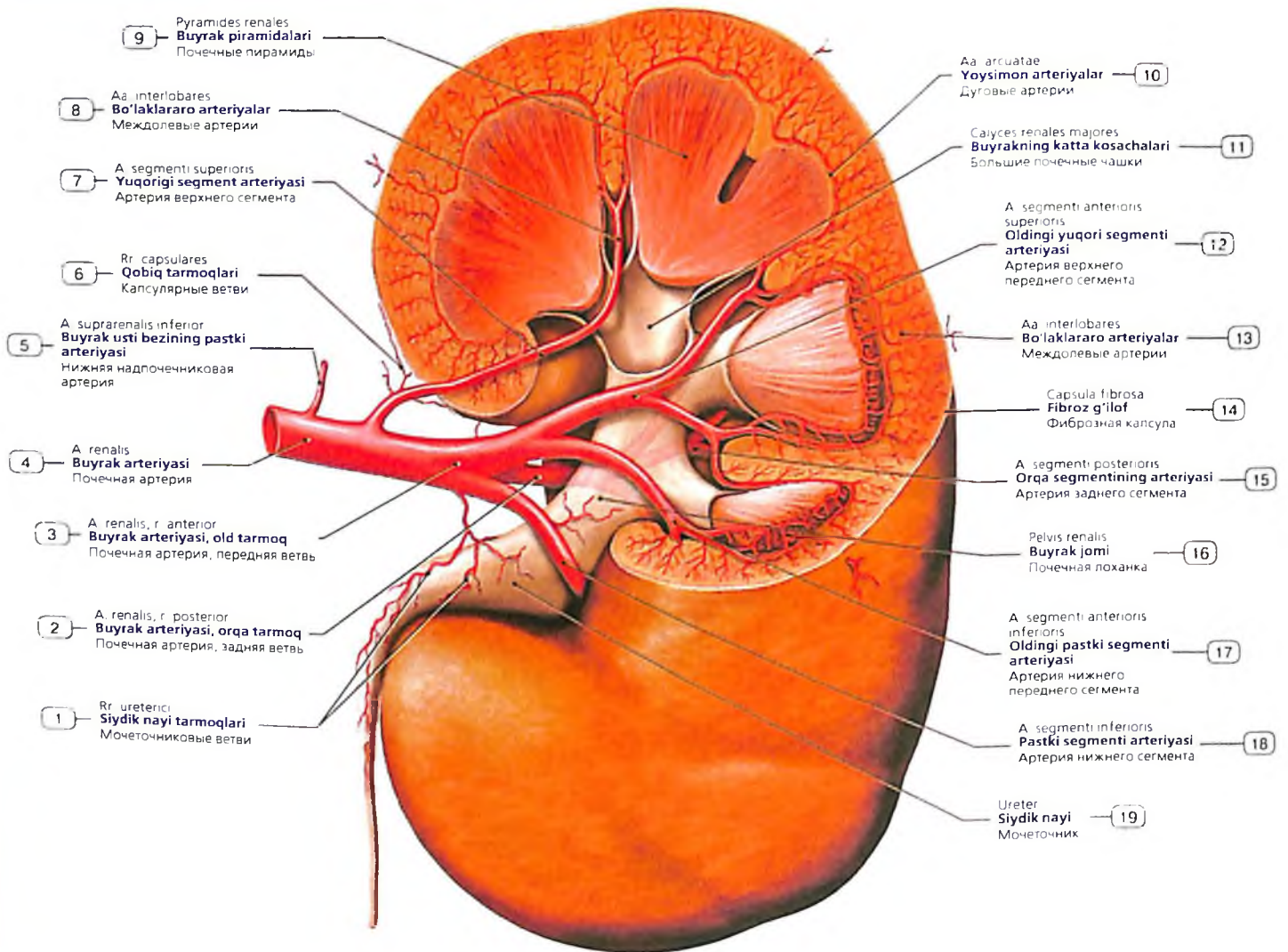
Рис. № 410. Qorin aortasi tarmoqlari (chizma).
Рисунок № 410. Ветви брюшной аорты (схема).

- | | |
|--------------------------------|--------------------------------------|
| 1 Median sacral artery | 10 Inferior phrenic artery |
| 2 Common iliac artery | 11 Coeliac trunk |
| 3 Inferior mesenteric artery | 12 Left gastric artery |
| 4 Superior mesenteric artery | 13 Splenic artery |
| 5 Common hepatic artery | 14 Middle suprarenal artery |
| 6 Gastroduodenal artery | 15 Inferior suprarenal artery |
| 7 Hepatic artery proper | 16 Renal artery |
| 8 Right gastric artery | 17 Lumbar arteries |
| 9 Superior suprarenal arteries | 18 Testicular artery, Ovarian artery |



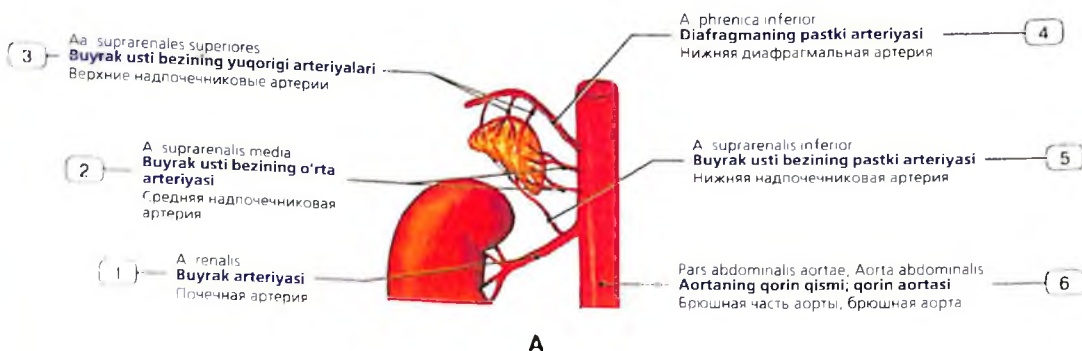
Rasm № 411. Qorin aortasi tarmoqlari skeletotopiyasi (chizma).
Рисунок № 411. Скелетотопия ветвей брюшной аорты (схема).

- 1 Aortic bifurcation [LIV]
- 2 Inferior mesenteric artery [LIII]
- 3 Superior mesenteric artery [LI]
- 4 Coeliac trunk [TXII-LI]
- 5 Renal arteries [LI/LII]
- 6 Left common iliac artery



Rasm № 412. Buyrak arteriyalari.
Рисунок № 412. Артерии почки.

- | | | | | |
|----------------------------------|-----------------------------|---------------------------------------|---------------------------------------|-----------|
| 1 Ureteric branches | 6 Capsular branches | 11 Major calyces | 15 Posterior segmental artery | 19 Ureter |
| 2 Renal artery, posterior branch | 7 Superior segmental artery | 12 Anterior superior segmental artery | 16 Renal pelvis | |
| 3 Renal artery, anterior branch | 8 Interlobar arteries | 13 Interlobar arteries | 17 Anterior inferior segmental artery | |
| 4 Renal artery | 9 Renal pyramids | 14 Fibrous capsule | 18 Inferior segmental artery | |
| 5 Inferior suprarenal artery | 10 Arcuate arteries | | | |



Rasm № 413. Buyrak usti bezi arteriyalarining tarmoqlanish variantlari (chizma).
Рисунок № 413. Варианты надпочечниковых артерий (схемы).

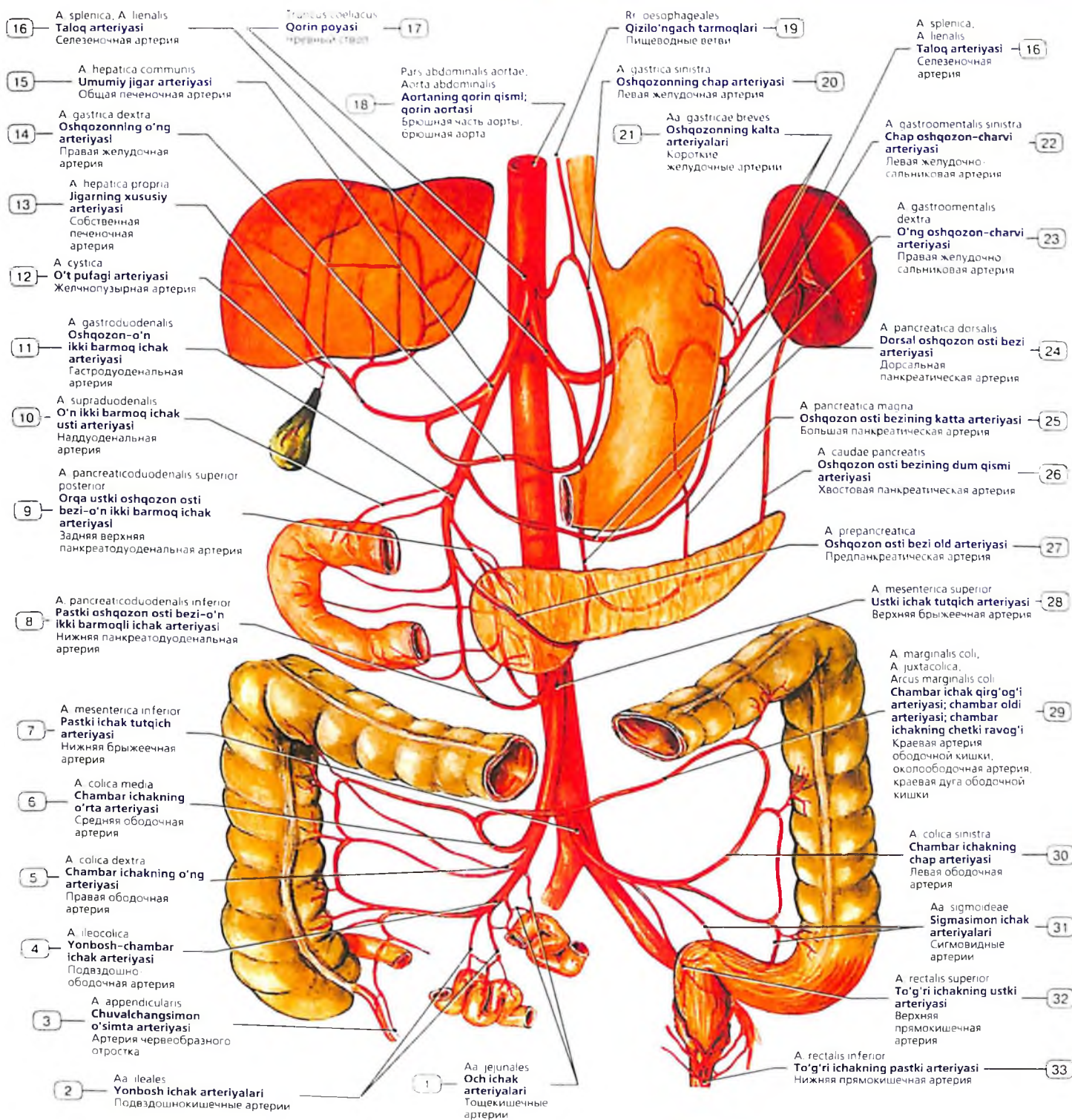
- | | | |
|----------------------------|--------------------------------|------------------------------|
| 1 Renal artery | 3 Superior suprarenal arteries | 5 Inferior suprarenal artery |
| 2 Middle suprarenal artery | 4 Inferior phrenic artery | 6 Abdominal aorta |



Б

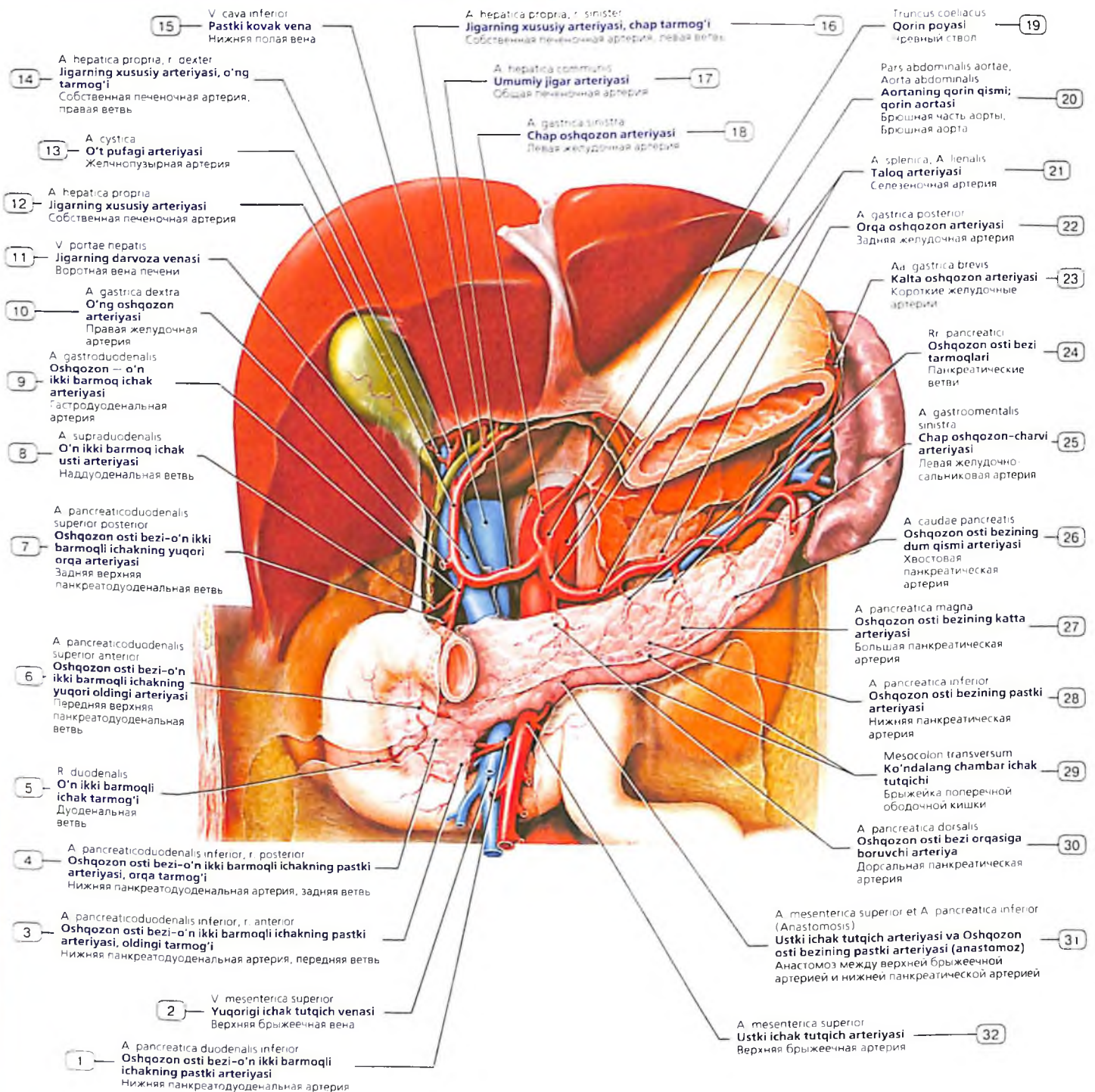


В



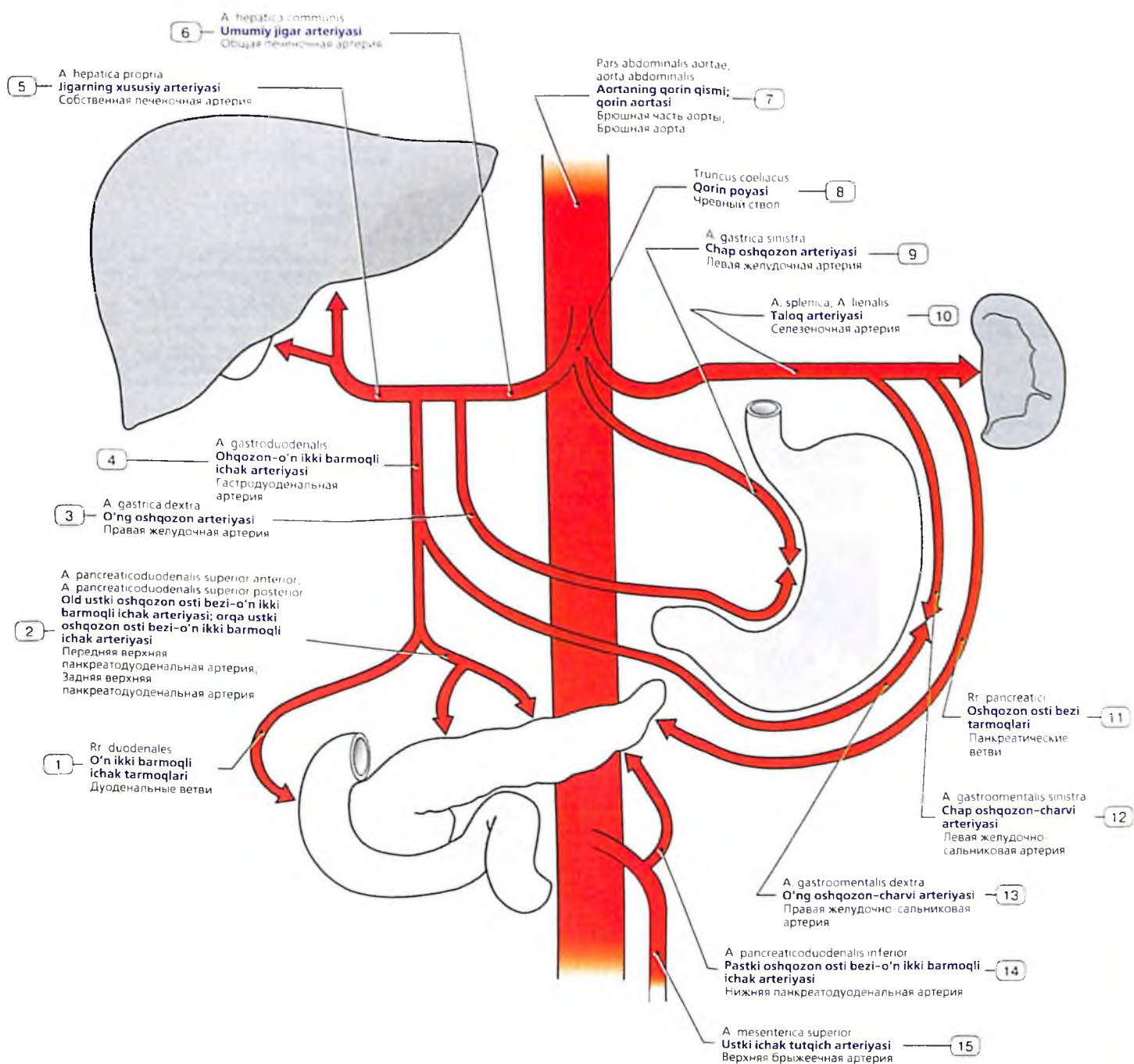
Rasm №414. Qorin bo'shlig'i a'zolari arteriyalari (chizma).
Рисунок № 414. Артерии органов брюшной полости (схема).

- | | | | |
|---|--------------------------|--|---------------------------------------|
| 1 Jejunal arteries | 10 Supraduodenal artery | 20 Left gastric artery | 28 Superior mesenteric artery |
| 2 Ileal arteries | 11 Gastroduodenal artery | 21 Short gastric arteries | 29 Marginal artery, juxtacolic artery |
| 3 Appendicular artery | 12 Cystic artery | 22 Left gastro-omental artery, Left gastro-epiploic artery | 30 Left colic artery |
| 4 Ileocolic artery | 13 Hepatic artery proper | 23 Right gastro-omental artery, right gastro-epiploic artery | 31 Sigmoid arteries |
| 5 Right colic artery | 14 Right gastric artery | 24 Dorsal pancreatic artery | 32 Superior rectal artery |
| 6 Middle colic artery | 15 Common hepatic artery | 25 Greater pancreatic artery | 33 Inferior rectal artery |
| 7 Inferior mesenteric artery | 16 Splenic artery | 26 Artery to tail of pancreas | |
| 8 Inferior pancreaticoduodenal artery | 17 Coeliac artery | 27 Prepancreatic artery | |
| 9 Posterior superior pancreaticoduodenal artery | 18 Abdominal aorta | | |
| | 19 Oesophageal branches | | |



Rasm № 415. Qorin poyasi va uning tarmoqlari.
Рисунок № 415. Чревный ствол и его ветви.

- | | | | |
|---|---|---------------------------------------|--|
| 1 Inferior pancreaticoduodenal artery | 7 Posterior superior pancreaticoduodenal artery | 16 Hepatic artery proper, left branch | 25 Left gastro-epiploic artery |
| 2 Superior mesenteric vein | 8 Supraduodenal artery | 17 Common hepatic artery | 26 Artery to tail of pancreas |
| 3 Inferior pancreaticoduodenal artery, anterior branch | 9 Gastroduodenal artery | 18 Left gastric artery | 27 Greater pancreatic artery |
| 4 Inferior pancreaticoduodenal artery, posterior branch | 10 Right gastric artery | 19 Coeliac trunk | 28 Inferior pancreatic artery |
| 5 Duodenal branch | 11 Hepatic portal vein | 20 Abdominal aorta | 29 Transverse mesocolon |
| 6 Anterior superior pancreaticoduodenal artery | 12 Hepatic artery proper | 21 Splenic artery | 30 Dorsal pancreatic artery |
| | 13 Cystic artery | 22 Posterior gastric artery | 31 Superior mesenteric artery and inferior pancreatic artery (anastomosis) |
| | 14 Hepatic artery proper, right branch | 23 Short gastric arteries | 32 Superior mesenteric artery |
| | 15 Inferior vena cava | 24 Pancreatic branches | |

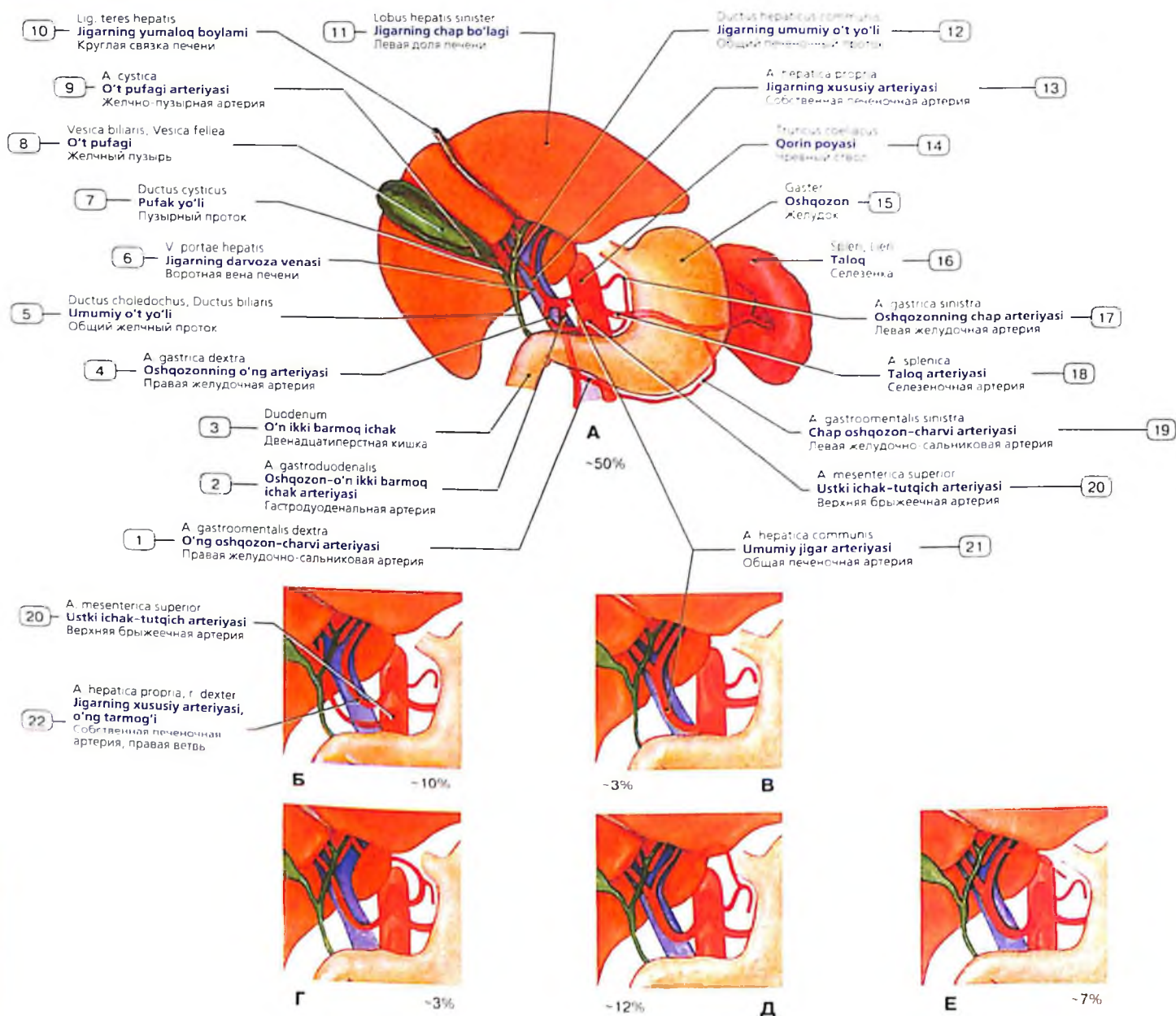


Rasm № 416. Qorin poyasi va uning tarmoqlari (chizma).
Рисунок № 416. Чре́вный ствол и его ветви (схема).

- 1 Duodenal branches
- 2 Anterior superior pancreaticoduodenal artery, Posterior superior pancreaticoduodenal artery
- 3 Right gastric artery
- 4 Gastroduodenal artery
- 5 Hepatic artery proper

- 6 Common hepatic artery
- 7 Abdominal aorta
- 8 Celiac trunk
- 9 Left gastric artery
- 10 Splenic artery
- 11 Pancreatic branches

- 12 Left gastro-epiploic artery
- 13 Right gastro-epiploic artery
- 14 Inferior pancreaticoduodenal artery
- 15 Superior mesenteric artery



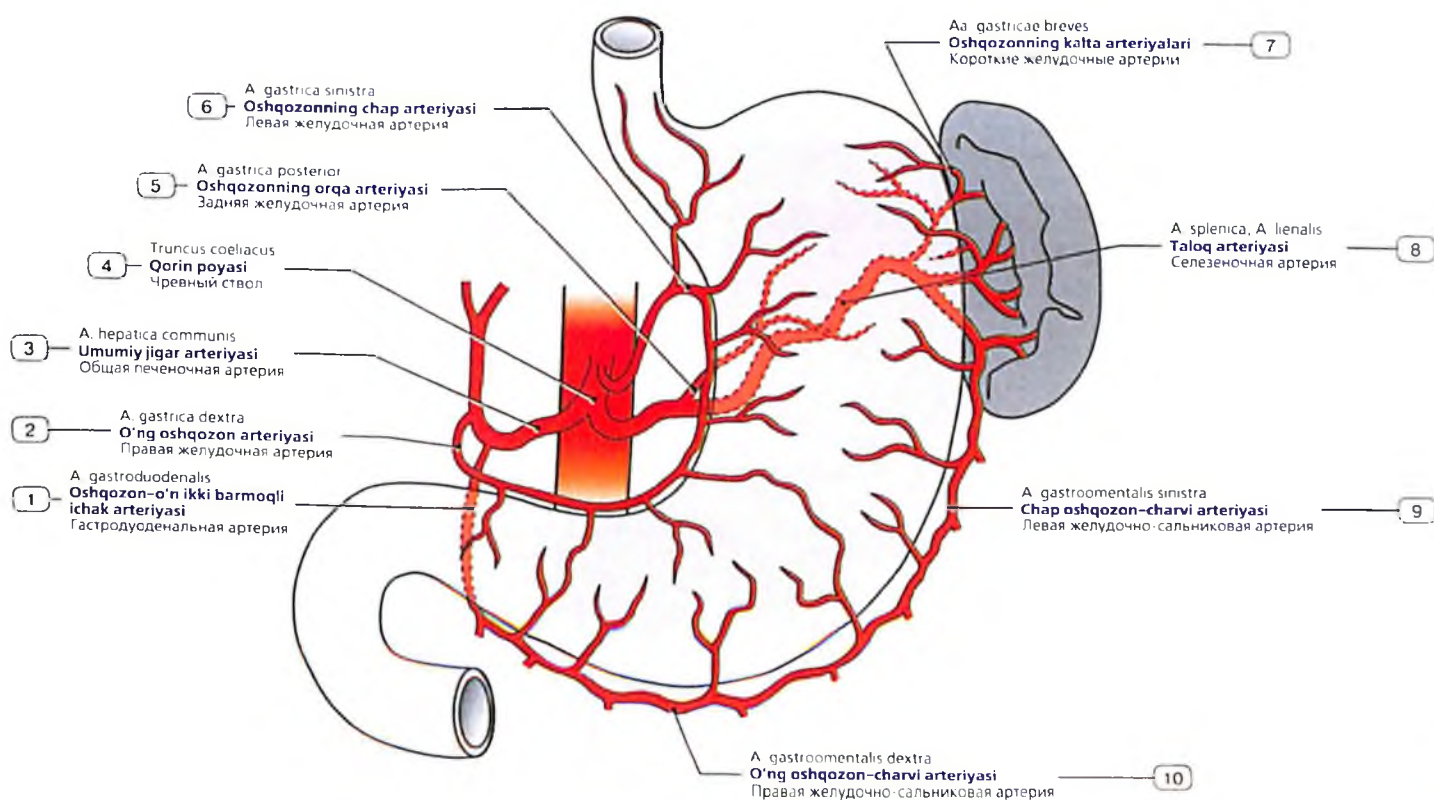
Рисунки № 417. Jigarning qon bilan ta'minlanishi variantlari.

Рисунок № 417. Варианты кровоснабжения печени.

- | | |
|--------------------------------|--|
| 1 Right gastro-epiploic artery | 13 Hepatic artery proper |
| 2 Gastroduodenal artery | 14 Coeliac trunk |
| 3 Duodenum | 15 Stomach |
| 4 Right gastric artery | 16 Spleen |
| 5 Bile duct | 17 Left gastric artery |
| 6 Hepatic portal vein | 18 Splenic artery |
| 7 Cystic duct | 19 Left gastro-epiploic artery |
| 8 Gallbladder | 20 Superior mesenteric artery |
| 9 Cystic artery | 21 Common hepatic artery |
| 10 Round ligament of liver | 22 Hepatic artery proper, right branch |
| 11 Ligament of liver | |
| 12 Common hepatic duct | |

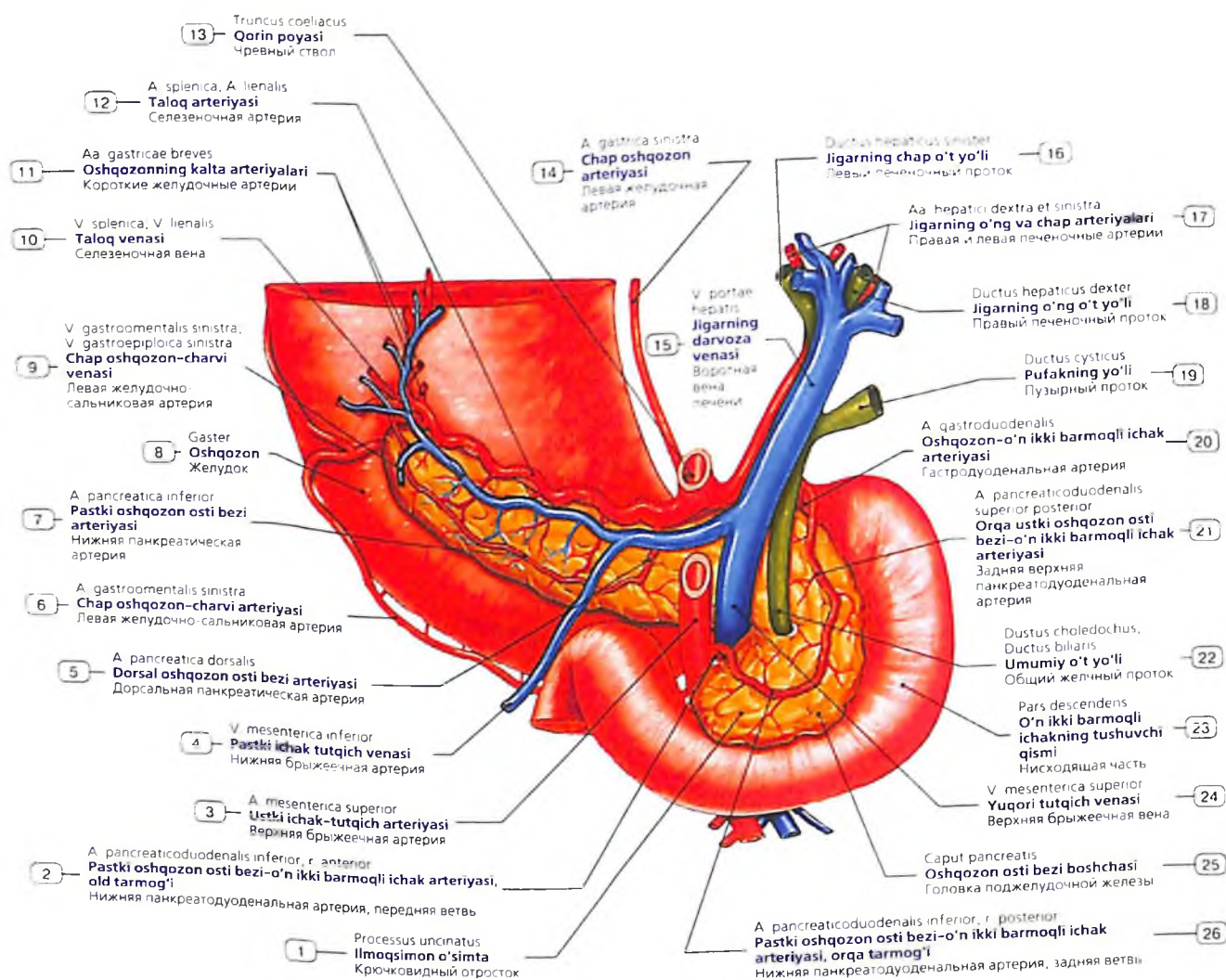
Jigarning arterial qon bilan ta'minlanish xilma-xilligi: Разнообразие артериального кровоснабжения печени:

- A – «Классический случай».
- B – верхняя брыжеечная артерия участвует в кровоснабжении правой доли печени.
- C – общая печеночная артерия ответвляется от верхней брыжеечной артерии.
- D – левая доля печени кровоснабжается из левой желудочной артерии.
- E – ветвь левой желудочной артерии кровоснабжает левую долю печени вместе с левой ветвью собственной печеночной артерии.
- F – добавочная ветвь собственной печеночной артерии кровоснабжает малую кривизну желудка.



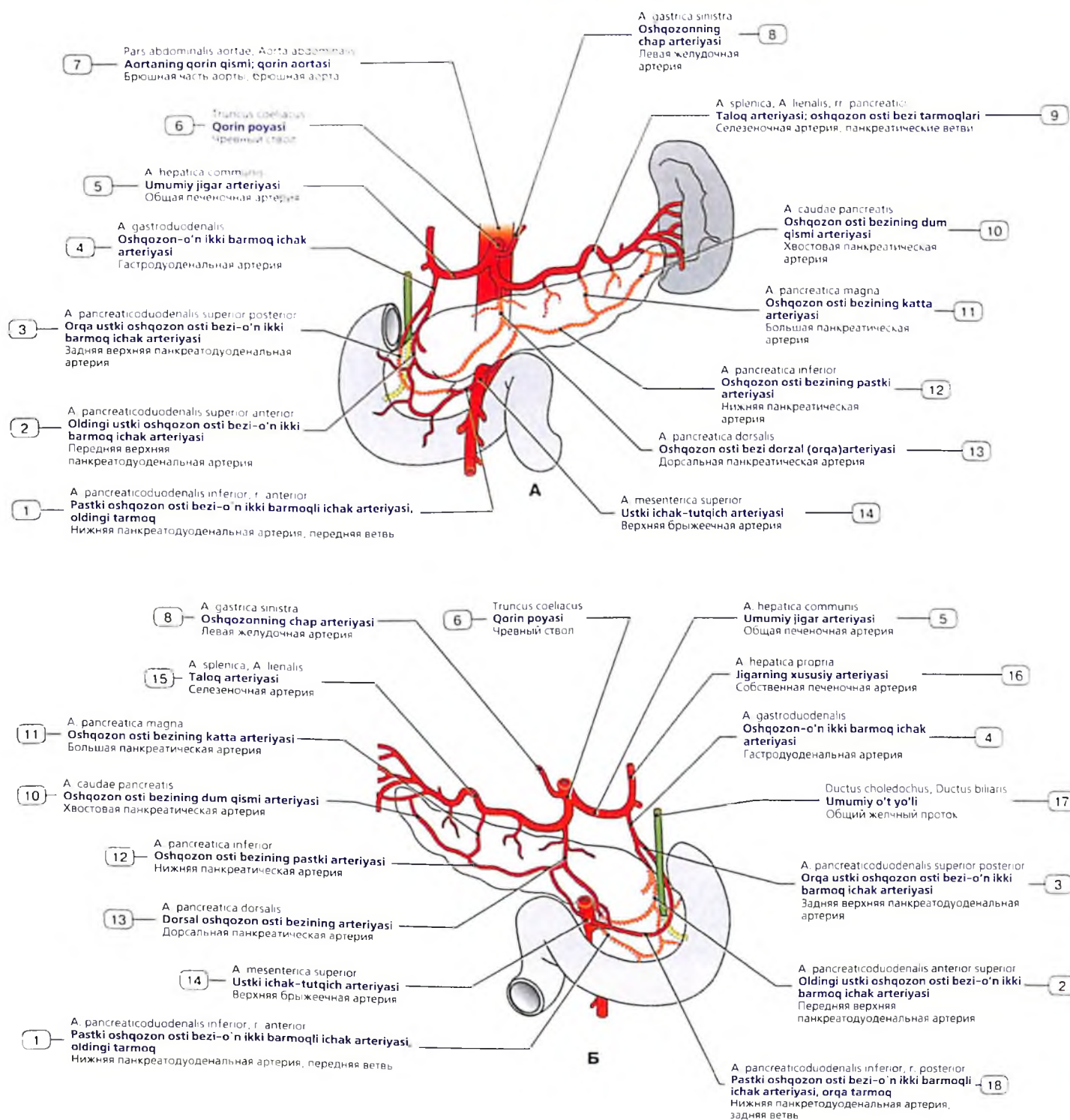
Rasm № 418. Oshqozonning qon bilan ta'minlanishi (chizma).
Рисунок № 418. Кровоснабжение желудка (схема).

- 1 Gastroduodenal artery
- 2 Right gastric artery
- 3 Common hepatic artery
- 4 Coeliac trunk
- 5 Posterior gastric artery
- 6 Left hepatic artery
- 7 Short gastric arteries
- 8 Splenic artery
- 9 Left gastro-epiploic artery, Left gastro-epiploic artery
- 10 Right gastro-epiploic artery, Right gastro-epiploic artery



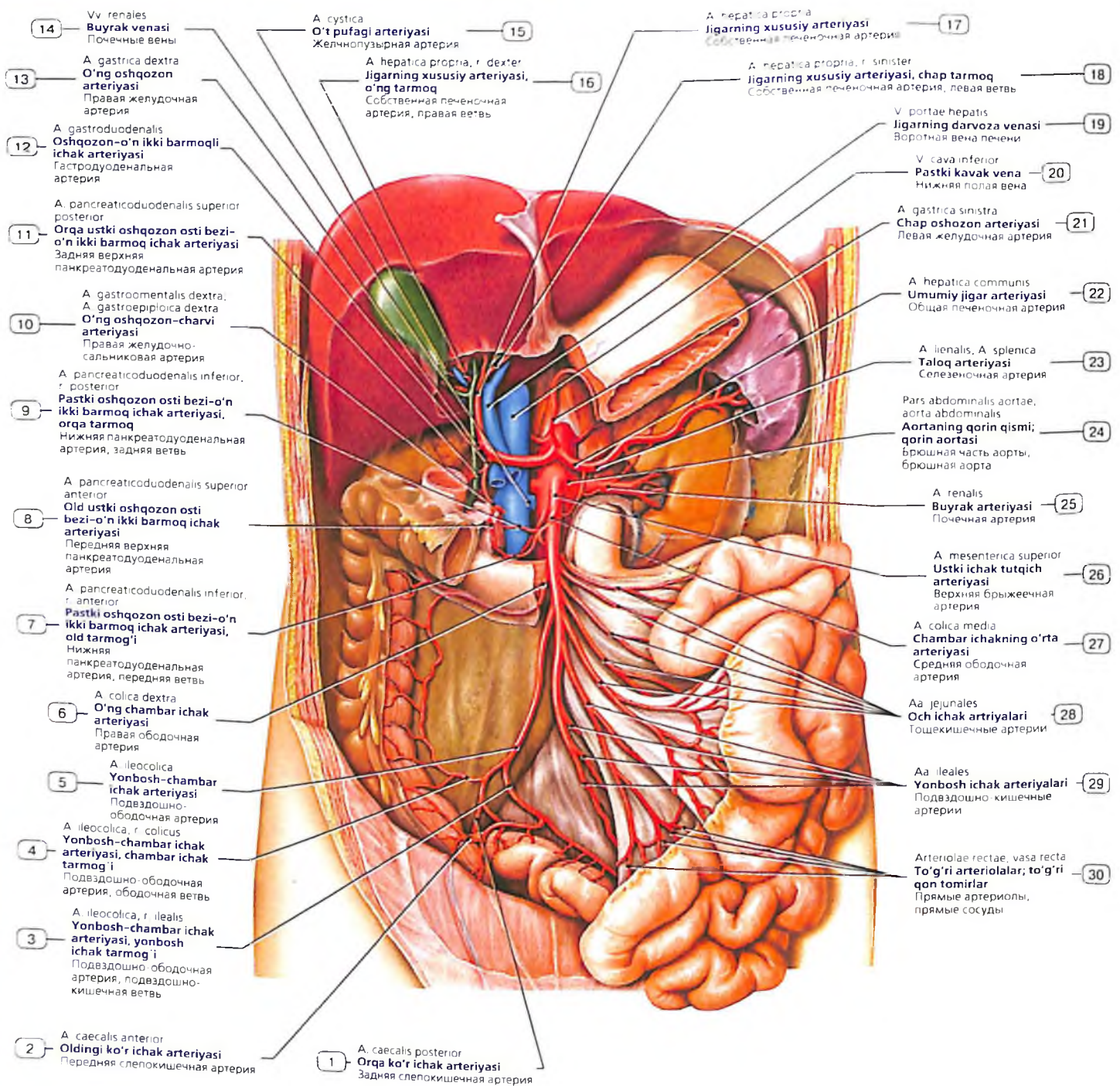
Rasm № 419. Oshqozon osti bezining qon bilan ta'minlanishi.
Рисунок № 419. Кровоснабжение поджелудочной железы.

- | | | | |
|--|--|------------------------------------|--|
| 1 Uncinate process | 7 Inferior pancreatic artery | 14 Left gastric artery | 21 Posterior superior pancreaticoduodenal artery |
| 2 Inferior pancreaticoduodenal artery, anterior branch | 8 Stomach | 15 Hepatic portal vein | 22 Bile duct |
| 3 Superior mesenteric artery | 9 Left gastroepiploic vein, left gastroepiploic artery | 16 Left hepatic duct | 23 Descending part |
| 4 Inferior mesenteric vein | 10 Splenic vein | 17 Right and left hepatic arteries | 24 Superior mesenteric vein |
| 5 Dorsal pancreatic artery | 11 Short gastric arteries | 18 Right hepatic duct | 25 Head of pancreas |
| 6 Left gastroepiploic artery | 12 Splenic artery | 19 Cystic duct | 26 Inferior pancreaticoduodenal artery, posterior branch |
| | 13 Coeliac trunk | 20 Gastroduodenal artery | |



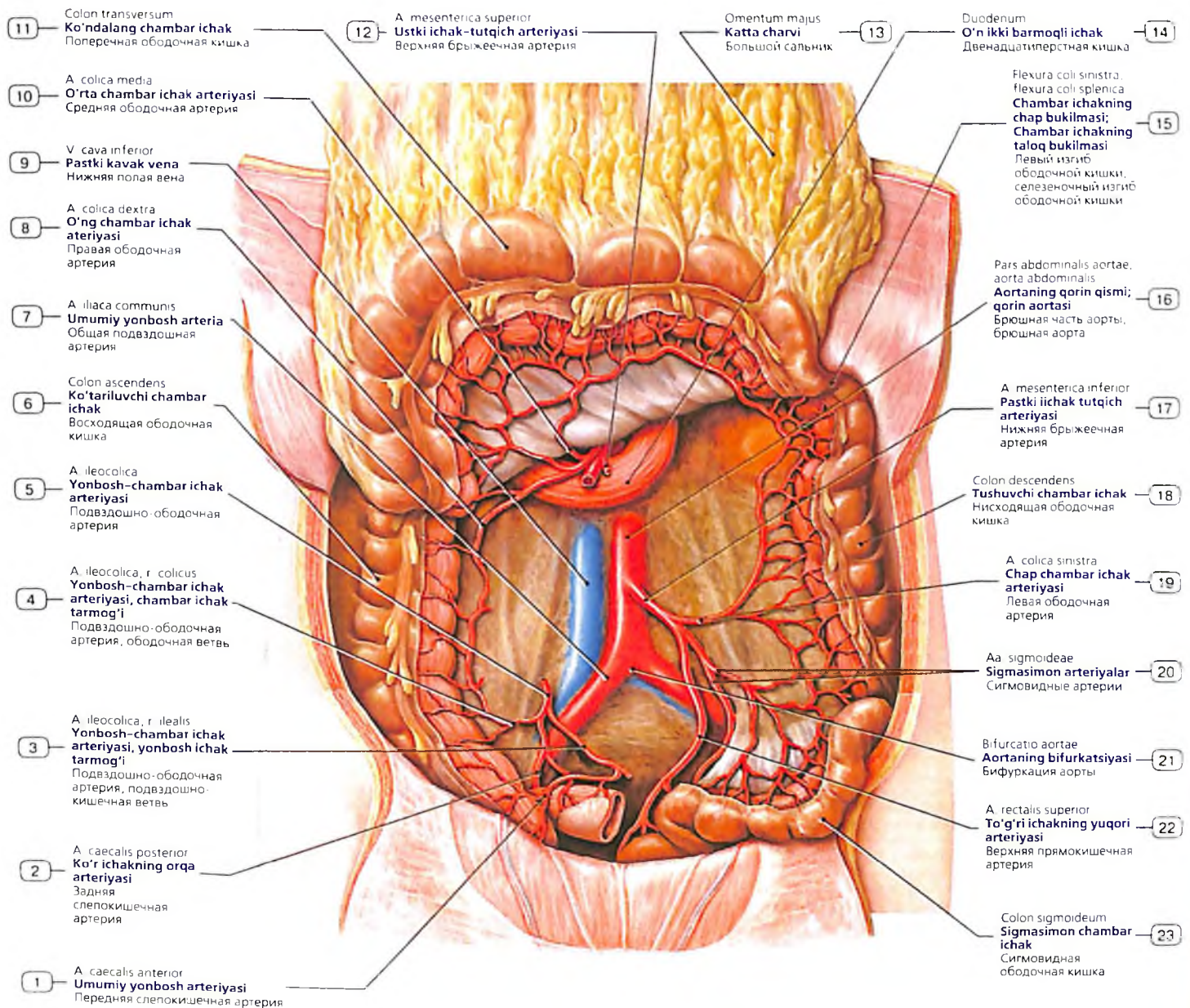
Rasm № 420. Oshqozon osti bezining qon bilan ta'minlanishi (chizma) (A — oldindan ko'rinishi; B — orqadan ko'rinishi).
Рисунок № 420. Кровоснабжение поджелудочной железы (схемы) (A — вид спереди; B — вид сзади).

- | | | |
|--|---------------------------------------|--|
| 1 Inferior pancreaticoduodenal artery, anterior branch | 7 Abdominal aorta | 13 Dorsal pancreatic artery |
| 2 Anterior superior pancreaticoduodenal artery | 8 Left gastric artery | 14 Superior mesenteric artery |
| 3 Posterior superior pancreaticoduodenal artery | 9 Splenic artery, pancreatic branches | 15 Splenic artery |
| 4 Gastroduodenal artery | 10 Artery to tail of pancreas | 16 Hepatic artery proper |
| 5 Common hepatic artery | 11 Greater pancreatic artery | 17 Bile duct |
| 6 Coeliac trunk | 12 Inferior pancreatic artery | 18 Inferior pancreaticoduodenal artery, posterior branch |



Rasm №421. Ustki ichak tutqich arteriyasi va uning tarmoqlari (ko'ndalang chamber ichak olib tashlangan).
Рисунок № 421. Верхняя брыжеечная артерия и ее ветви (поперечная ободочная кишка удалена).

- | | | | |
|--|--|--|------------------------------------|
| 1 Posterior caecal artery | 8 Anterior superior pancreaticoduodenal artery | 13 Right gastric artery | 22 Common hepatic artery |
| 2 Anterior caecal artery | 9 Inferior pancreaticoduodenal artery, posterior branch | 14 Renal veins | 23 Splenic artery |
| 3 Ileocolic artery, ileal branch | 10 Right gastro-omental artery, Right gastro-epiploic artery | 15 Cystic artery | 24 Abdominal aorta |
| 4 Ileocolic artery, colic branch | 11 Posterior superior pancreaticoduodenal artery | 16 Hepatic artery proper, right branch | 25 Renal artery |
| 5 Ileocolic artery | 12 Gastroduodenal artery | 17 Hepatic artery proper, left branch | 26 Superior mesenteric artery |
| 6 Right colic artery | | 18 Hepatic portal vein | 27 Middle colic artery |
| 7 Inferior pancreaticoduodenal artery, anterior branch | | 19 Inferior vena cava | 28 Jejunal arteries |
| | | 20 | 29 Ileal arteries |
| | | 21 Left gastric artery | 30 Vasa recta, straight arterioles |



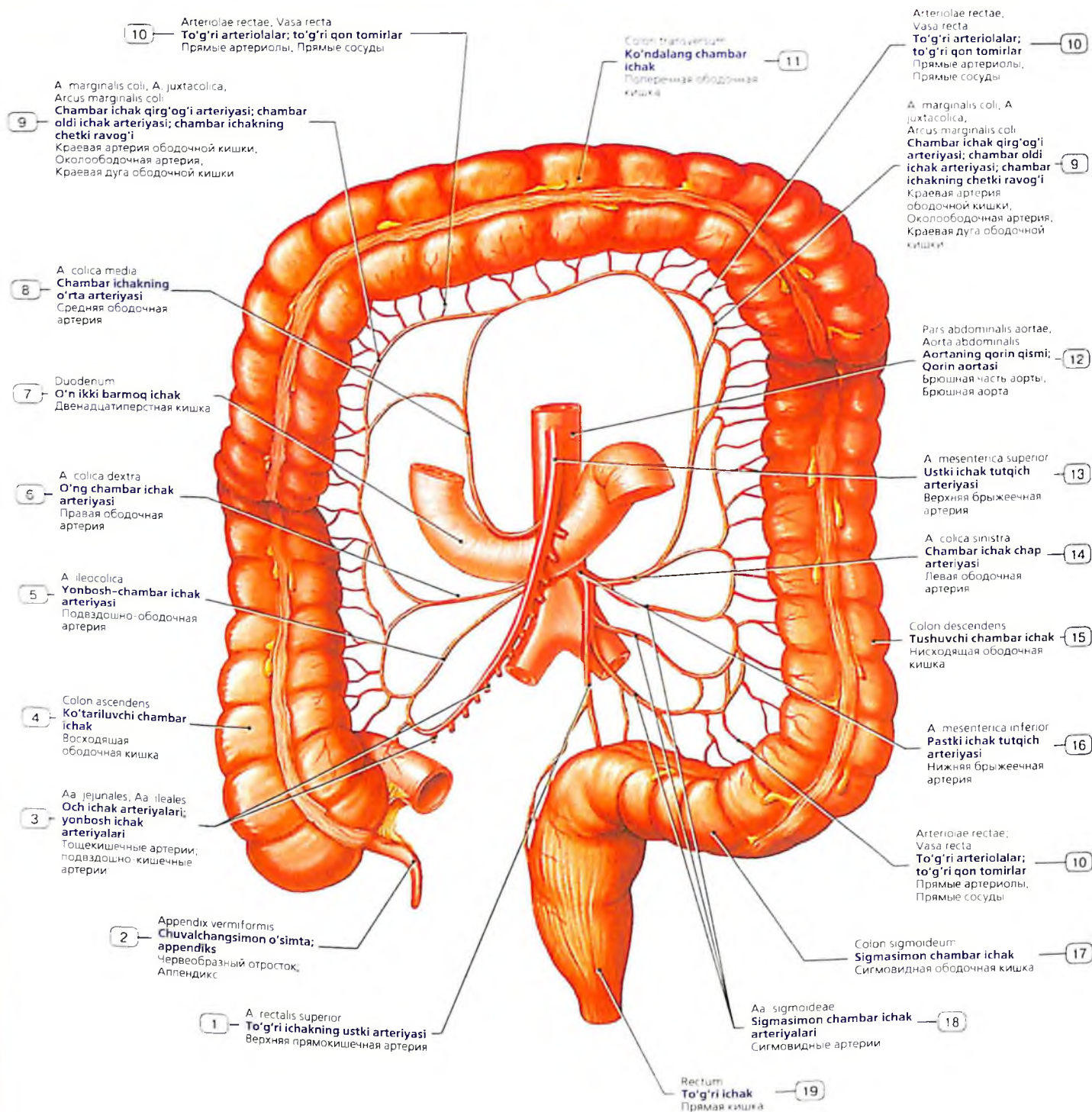
Rasm № 422. Pastki ichak tutqichining arteriyasi va uning tarmoqlari.
Рисунок № 422. Нижняя брыжеечная артерия и ее ветви.

- 1 Anterior caecal artery
- 2 Posterior caecal artery
- 3 Ileocolic artery, ileal branch
- 4 Ileocolic artery, colic branch
- 5 Ileocolic artery
- 6 Ascending colon

- 7 Common iliac artery
- 8 Right colic artery
- 9 Inferior vena cava
- 10 Middle colic artery
- 11 Transverse colon
- 12 Superior mesenteric artery

- 13 Greater omentum
- 14 Duodenum
- 15 Left colic flexure; splenic flexure
- 16 Abdominal aorta
- 17 Inferior mesenteric artery
- 18 Descending colon

- 19 Left colic artery
- 20 Sigmoid arteries
- 21 Aortic bifurcation
- 22 Superior rectal artery
- 23 Sigmoid colon

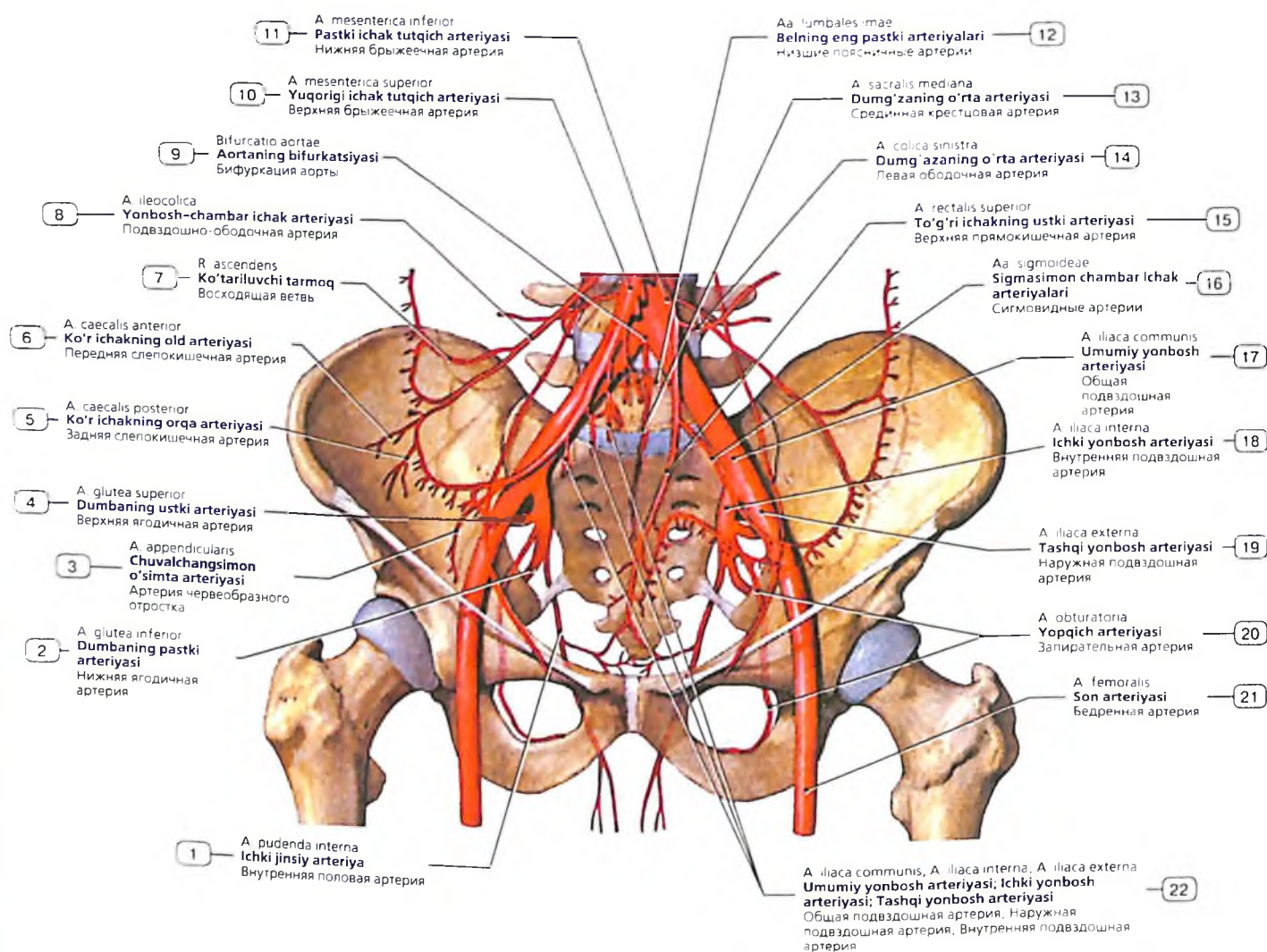


Rasm № 423. Pastki ichak tutqichining arteriyasi va uning tarmoqlari (chizma).
Рисунок № 423. Нижняя брыжеечная артерия и ее ветви (схема).

- | | |
|--|------------------------------------|
| 1 Superior rectal artery | 10 Vasa recta, Straight arterioles |
| 2 Appendix, Vermiform appendix | 11 Transverse colon |
| 3 Jejunal arteries, Ileal arteries | 12 Abdominal aorta |
| 4 Ascending colon | 13 Superior mesenteric artery |
| 5 Ileocolic artery | 14 Left colic artery |
| 6 Right colic artery | 15 Descending colon |
| 7 Duodenum | 16 Inferior mesenteric artery |
| 8 Middle colic artery | 17 Sigmoid colon |
| 9 Marginal artery, Juxtacolic artery,
Marginal arcade | 18 Sigmoid arteries |
| | 19 Rectum |

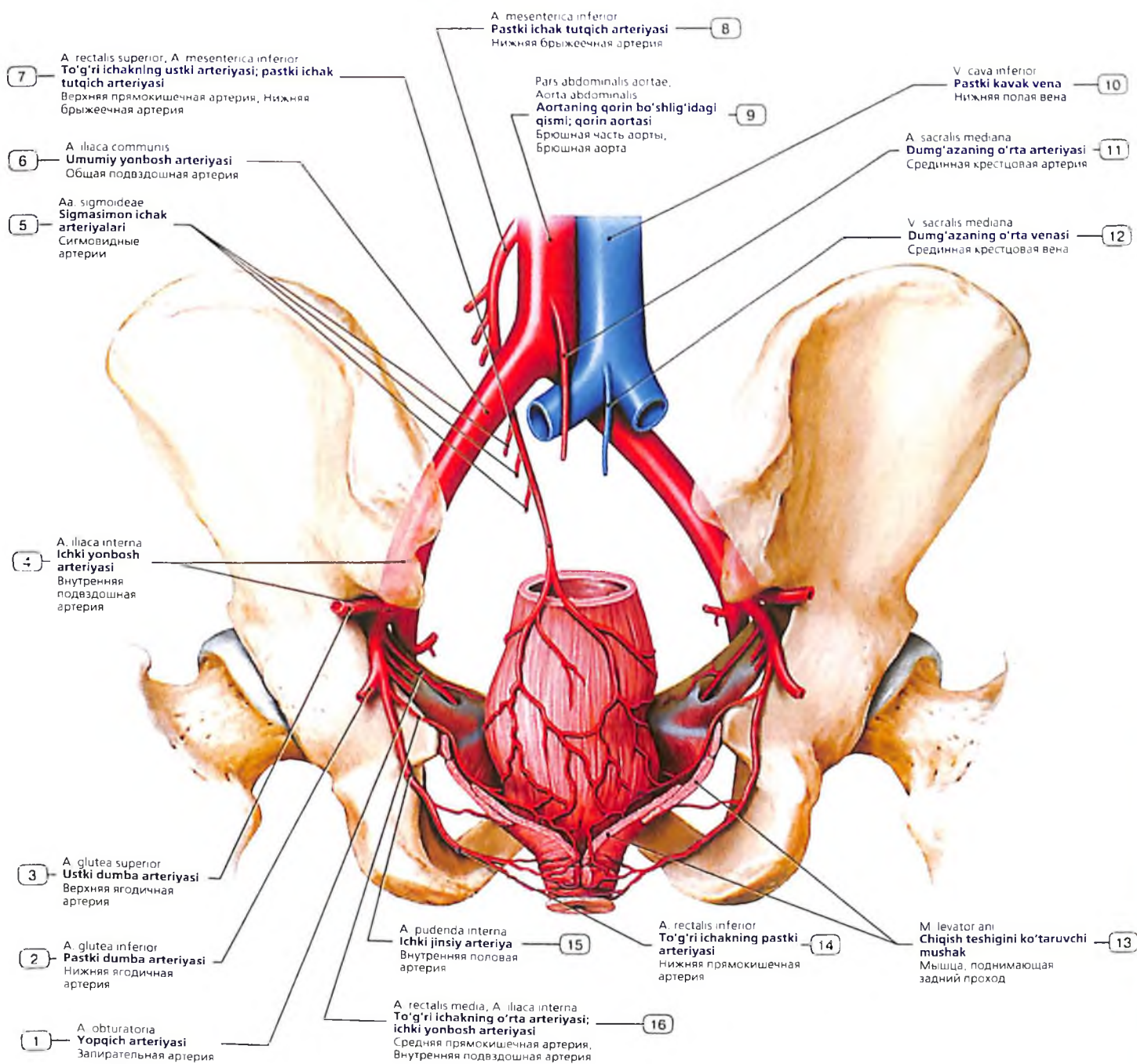
32 — jadval. Umumiy yonbosh arteriyasi va uning tarmoqlari

Arteriya nomi va uning tarmoqlari	Boshlanishi	Arteriya yo'nalishi	Qon bilan ta'minlaydigan a'zolar (soha)
Umumiy yonbosh arteriyasi	IV bel umurtqalari o'rtasida qorin aortasi o'ng va chap umumiy yonbosh arteriyalariga bo'linadi	Dumg'aza- yonbosh birlashmasidan pastga va tashqariga yo'naladi	Chanoq devorlari, a'zolari va oyoqlar
Ichki yonbosh arteriyasi, juft	Dumg'aza- yonbosh birlashmasi sathida umumiy yonbosh arteriyasining pastki qismidan boshlanadi	Kichik chanoq bo'shlig'iga belning katta mushagi medial qirrasini bo'ylab yo'naladi	Chanoq devori, zolaridan, tashqi jinsiy a'zolar, oraliq, dumg'aza- yonbosh birlashmasi, chanoq- son bo'g'imi, sonning yaqinlashtiruvchi guruh mushaklari, dumba, noksimon, yopqich, egizak mushaklar, sonning kvadrat mushagi, yonbosh- bel mushagini qon bilan ta'minlaydi
Parietal tarmoqlari			
Yonbosh- bel arteriyasi 1. Yonbosh tarmog'i 2. Bel tarmog'i 3. Orqa miya tarmog'i	Ichki yonbosh arteriyasidan chiqadi	Belning katta mushagi orqasidan tashqariga yo'naladi	Yonbosh suyagi va uning suyak usti pardasi, orqa miya nervlari ildizi va pardalari Mushaklar- belning katta mushagi, yonbosh, belning kvadrat mushaklari, qorinning ko'ndalang mushagi
Dumg'azaning lateral arteriyasi Orqa miya tarmoqlari	Ichki yonbosh arteriyasining boshlanish qismidan chiqadi	Dumg'azaning chanoq yuzasi yon devori bo'ylab pastga	Dumg'aza suyagi (SI-SV), va uning boylamlari, orqa miya pardalari Mushaklar- orqani ko'taruvchi mushagi, noksimon mushak, orqaning chuqur mushaklari
Yopqich arteriyasi 1. Qov tarmog'i 2. Quymich kosasi tarmog'i	Ichki yonbosh arteriyasining oldingi po'ysidan boshlanadi	Kichik chanoq yon devori bo'ylab oldinga, va yopqich kanali orqali songa qarab yo'naladi	Qov simfizi, yonbosh suyagi, son suvagina boshchasi, chanoq- son bo'g'imi Mushaklar- Yonbosh- bel, sonning kvadrat mushagi, orqa ko'taruvchi mushak, tashqi va ichki yopqich, sonni yaqinlashtiruvchi mushak, taroqsimon, nozik mushak
Pastki dumba arteriyasi O'tirg'ich nervi bilan yo'nalayotgan arteriya	Ichki yonbosh arteriyasining oldingi po'ysidan boshlanadi	Kichik chanoq bo'shlig'idan noksimon muskul osti teshigi orqali chiqadi	Chanoq- son bo'g'imi, dumba terisi Mushaklar- katta dumba mushagi, noksimon, sonni yaqinlashtiruvchi, tashqi va ichki yopqich, sonning kvadrat mushagi, ustki va pastki egizak mushaklari, yarim pay, yarim parda, sonning ikki boshli mushaklari
Ustki dumba arteriyasi 1. Yuzaki tarmoq 2. Chuqur tarmoq	Ichki yonbosh arteriyasi orqa po'ysasining davomi bo'lib hisoblanadi	Kichik chanoq bo'shlig'idan noksimon muskul usti teshigi orqali chiqadi	Chanoq- son bo'g'imi, dumbaning terisi Mushaklar- dumbaning o'rta va kichik mushaklari, noksimon, keng fastsiyani taranglovchi mushaklar
Vitseral tarmoqlari			
Kindik arteriyasi 1. Urug' olib chiquvchi nay arteriyasi 2. Qovuqning ustki arteriyasi 3. Siydik nayi tarmoqlari	Ichki yonbosh arteriyasining oldingi po'ysidan chiqadi	Qorin old devori orqasidan oldinga va yuqoriga, qorin parda orti orqali kindikka qarab yo'naladi. Bola tug'ilib, kindigi kesilganidan keyin, bu arteriyaning yuqori qismi arteriya holatini saqlab qoladi	Siydik pufagi, siydik nayining pastki qismi, urug' olib ketuvchi nay
Qovuqning pastki arteriyasi	Ichki yonbosh arteriyasidan chiqadi	Siydik pufagi tubiga qarab yo'naladi	Siydik pufagi, prostat bezi, qin
Bachadon arteriyasi 1. Qin tarmoqlari 2. Tuxumdon tarmog'i 3. Bachadon nayi tarmog'i	Ichki yonbosh arteriyasining oldingi po'ysidan chiqadi	Kichik chanoq bo'shlig'ida bachadon keng boylamining varaqlari orasidan bachadonga qarab yo'naladi	Bachadon, qin, bachadon nayi, tuxumdon, siydik nayi, siydik pufagi
To'g'ri ichakning o'rta arteriyasi	Ichki yonbosh arteriyasining oldingi po'ysidan chiqadi	To'g'ri ichakka qarab yo'nalib qoladi	To'g'ri ichakning o'rta va pastki qismi, urug' pufakchalari, prostata bezi (erkaklarda), siydik nayi, qin (ayollarda) Mushak- orqani ko'taruvchi mushak
Ichki jinsiy arteriya 1. To'g'ri ichakning pastki arteriyasi 2. Oraliq arteriyasi 3. Siydik chiqarish yo'li arteriyasi 4. Erlik olati piyozchasining arteriyasi (erkaklarda) Qin daxlizi piyozchasining arteriyasi (ayollarda) 5. Erlik olatining chuqur arteriyasi (klitor) 6. Erlik olatining orqa arteriyasi (klitor)	Ichki yonbosh arteriyasining oldingi po'ysasining oxirgi tarmog'idan chiqadi	Chanoq bo'shlig'idan noksimon muskul osti teshigi orqali chiqib, qov suvagini aylanib o'tadi va kichik o'tirg'ich teshigi orqali qaytib kichik chanoq bo'shlig'iga gi o'tirg'ich- to'g'ri ichak chuqurchasiga kiradi	To'g'ri ichakning pastki qismi, siydik chiqarish kanali, oraliq mushagi va terisi, qin (ayollarda), bulboaretral bezlar (erkaklarda), tashqi jinsiy a'zolari, ichki yopqich mushak
Tashqi yonbosh arteriyasi	Dumg'aza- yonbosh birlashmasi sathida umumiy yonbosh arteriyasidan chiqadi	Katta bel mushagi medial qirrasini bo'ylab oldinga va pastga, chov boylamiga qarab yo'naladi	Qorin old devori terisi Mushaklar- bel mushagi, qorinning to'g'ri va ko'ndalang mushaklari, urug' tizimchasi, (erkaklarda), bachadonning yumaloq boylami (ayollarda)
Qorin devorining pastki arteriyasi 1. Qov tarmog'i 2. Yopqich tarmog'i 3. Moyakni ko'taruvchi mushagining arteriyasi 4. Bachadon yumaloq boylamining arteriyasi	Chov boylami ustidan o'tadi	Qorin old devori orqa yuzasidan yuqoriga va medial tomonga, qorin to'g'ri muskul qini bo'ylab yo'naladi	Urug' tizimchasi, moyakni ko'taruvchi mushak (erkaklarda), bachadonning yumaloq boylami (ayollarda), qov suvagi va uning yumshoq to'qimalari Qorin mushaklari- to'g'ri, ko'ndalang, qiyshiq, piramidasimon mushaklar
Yonbosh suvagini o'rovchi chuqur arteriya	Chov boylami ostidan boshlanadi	Yonbosh suyagi qirrasini bo'ylab tashqariga yo'naladi	Qorin old devori Qorin mushaklari- ko'ndalang, qiyshiq, yonbosh, mashinachilar, keng fastsiyani taranglovchi mushaklar



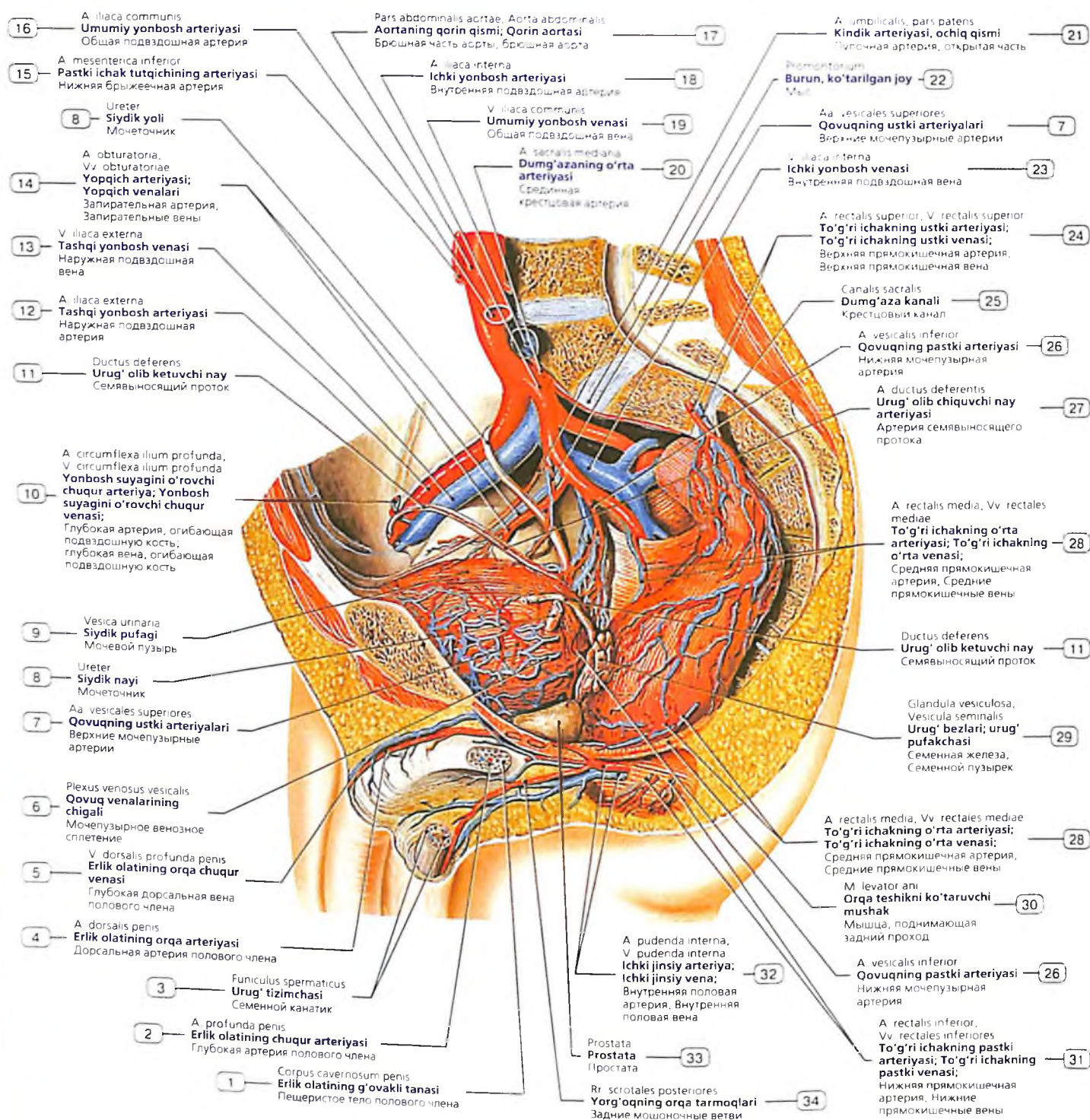
Rasm № 424. Umumiy yonbosh arteriyasi va uning tarmoqlari, oldindan ko'rinishi (chizma).
Рисунок № 424. Общая подвздошная артерия и ее ветви, вид спереди (схема).

- | | | |
|----------------------------|-------------------------------|--------------------------|
| 1 Internal pudendal artery | 9 Aortic bifurcation | 17 Common iliac artery |
| 2 Inferior gluteal artery | 10 Superior mesenteric artery | 18 Internal iliac artery |
| 3 Appendicular artery | 11 Inferior mesenteric artery | 19 External iliac artery |
| 4 Superior gluteal artery | 12 Arteriae lumbales imae | 20 Obturator artery |
| 5 Posterior caecal artery | 13 Median sacral artery | 21 Femoral artery |
| 6 Anterior caecal artery | 14 Left colic artery | 22 Common iliac artery, |
| 7 Ascending branch | 15 Superior rectal artery | External iliac artery, |
| 8 Ileocolic artery | 16 Sigmoid arteries | Internal iliac artery |



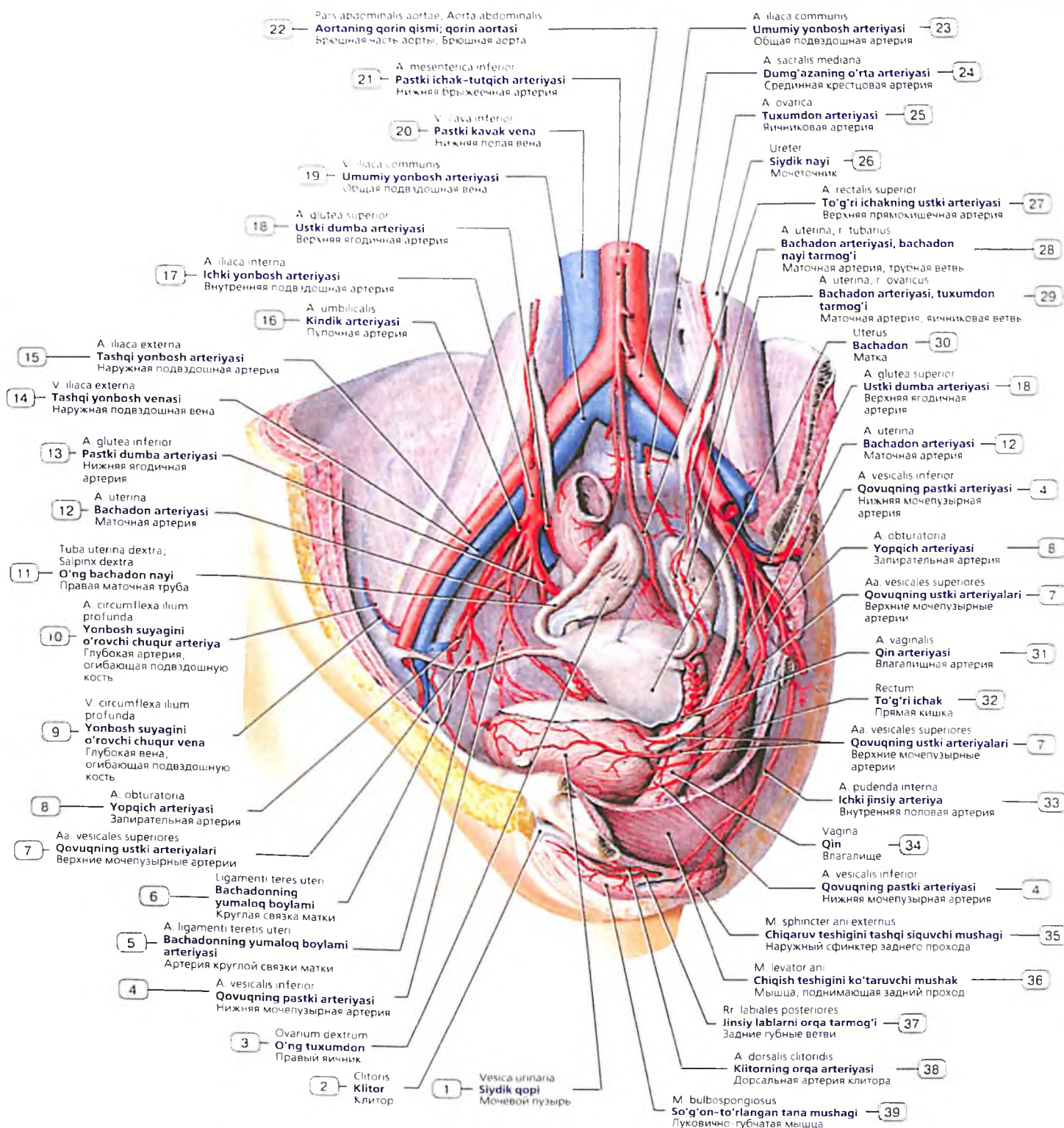
Rasm № 425. Umumiy yonbosh arteriyasi va uning tarmoqlari, orqadan ko'rinishi (chizma).
Рисунок № 425. Общая подвздошная артерия и ее ветви, вид сзади (схема).

- | | | |
|----------------------------|-------------------------------|------------------------------|
| 1. Obturator artery | 7. Superior rectal artery, | 12. Medial sacral vein |
| 2. Inferior gluteal artery | inferior mesenteric artery | 13. Levator ani |
| 3. Superior gluteal artery | 8. Inferior mesenteric artery | 14. Inferior rectal artery |
| 4. Internal iliac artery | 9. Abdominal aorta | 15. Internal pudendal artery |
| 5. Sigmoid arteries | 10. Inferior vena cava | 16. Middle rectal artery, |
| 6. Common iliac artery | 11. Median sacral artery | internal iliac artery |



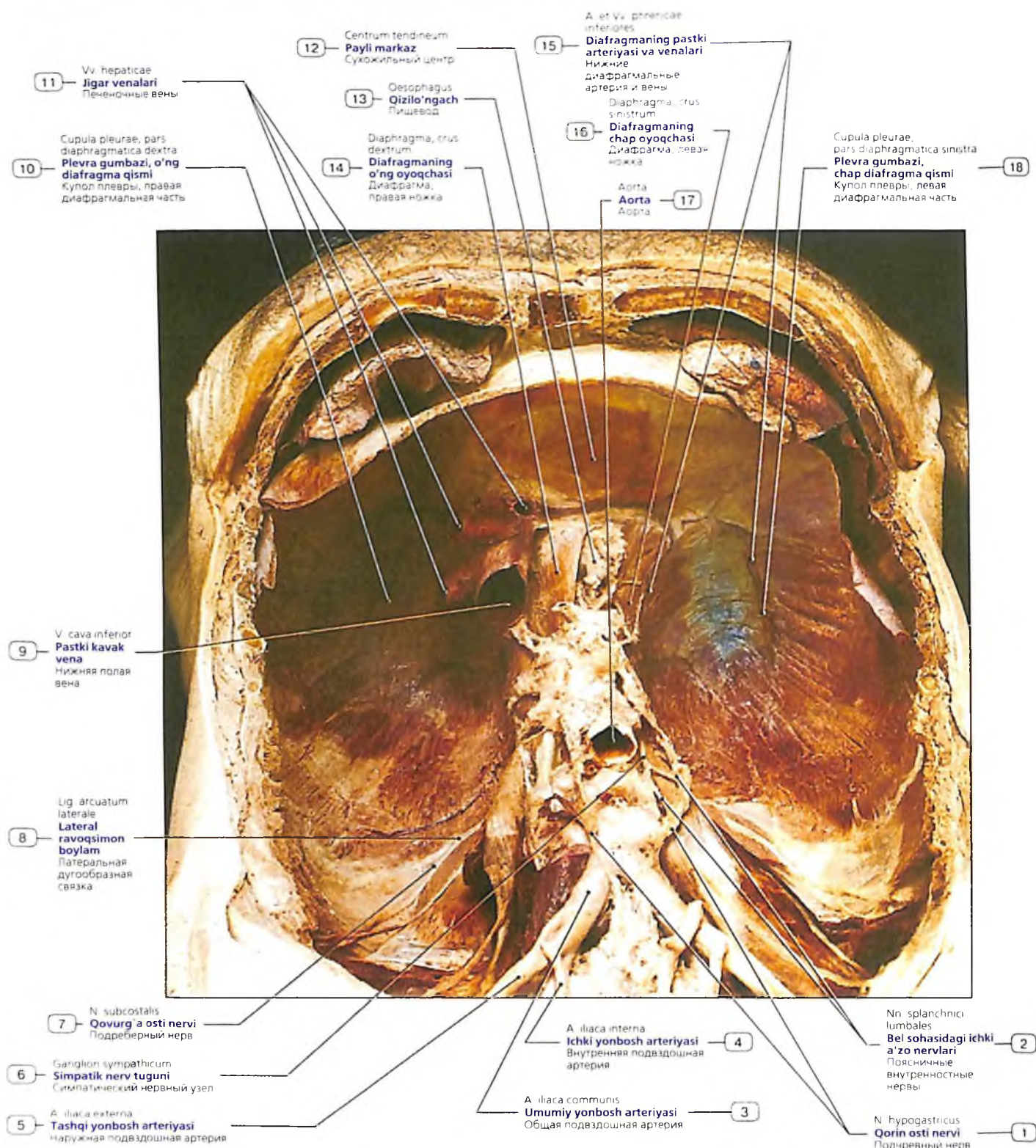
Rasm № 426. Erklarda ichki yonbosh arteriyasi va uning tarmoqlari, yon tomondan ko'rinishi.
Рисунок № 426. Внутренняя подвздошная артерия мужчины и ее ветви, вид сбоку, изнутри.

- | | | | |
|-----------------------------|---|---|--|
| 1 Corpus cavernosum penis | 10 Deep circumflex iliac artery, Deep circumflex iliac vein | 19 Common iliac vein | 27 Artery to ductus deferens, Artery to vas deferens |
| 2 Deep artery of penis | 11 Ductus deferens, Vas deferens | 20 Median sacral artery | 28 Middle rectal artery, Middle rectal veins |
| 3 Spermatic cord | 12 External iliac artery | 21 Umbilical artery, patent part | 29 Seminal glands, Seminal vesicle |
| 4 Dorsal artery of penis | 13 External iliac vein | 22 Promontory | 30 Levator ani |
| 5 Deep dorsal vein of penis | 14 Obturator artery, Obturator veins | 23 Internal iliac vein | 31 Inferior rectal artery, Inferior rectal veins |
| 6 Vesical venous plexus | 15 Inferior mesenteric artery | 24 Superior rectal artery, Superior rectal vein | 32 Internal pudendal artery, Internal pudendal vein |
| 7 Superior vesical arteries | 16 Common iliac artery | 25 Sacral canal | 33 Prostate |
| 8 Ureter | 17 Abdominal aorta | 26 Inferior vesical artery | 34 Posterior scrotal branches |
| 9 Urinary bladder | 18 Internal iliac artery | | |



Rasm № 427. Ayollar ichki yonbosh arteriyasi va uning tarmoqlari, oldindan ko'rinishi.
Рисунок № 427. Внутренняя подвздошная артерия женщины и ее ветви, вид спереди.

- | | | | | |
|--------------------------------------|---------------------------------|-------------------------------|-----------------------------------|------------------------------|
| 1 Urinary bladder | 8 Obturator artery | 16 Umbilical artery | 24 Median sacral artery | 32 Rectum |
| 2 Clitoris | 9 Deep circumflex iliac vein | 17 Internal iliac artery | 25 Ovarian artery | 33 Internal pudendal artery |
| 3 Right ovary | 10 Deep circumflex iliac artery | 18 Superior gluteal artery | 26 Ureter | 34 Vagina |
| 4 Inferior vesical artery | 11 Right uterine tube | 19 Common iliac vein | 27 Superior rectal artery | 35 External anal sphincter |
| 5 Artery of round ligament of uterus | 12 Uterine artery | 20 Inferior vena cava | 28 Uterine artery, tubal branch | 36 Levator ani |
| 6 Round ligament of uterus | 13 Inferior gluteal artery | 21 Inferior mesenteric artery | 29 Uterine artery, ovarian branch | 37 Posterior labial branches |
| 7 Superior vesical arteries | 14 External iliac vein | 22 Abdominal aorta | 30 Uterus | 38 Dorsal artery of clitoris |
| | 15 External iliac artery | 23 Common iliac artery | 31 Vaginal artery | 39 Bulbospongiosus |



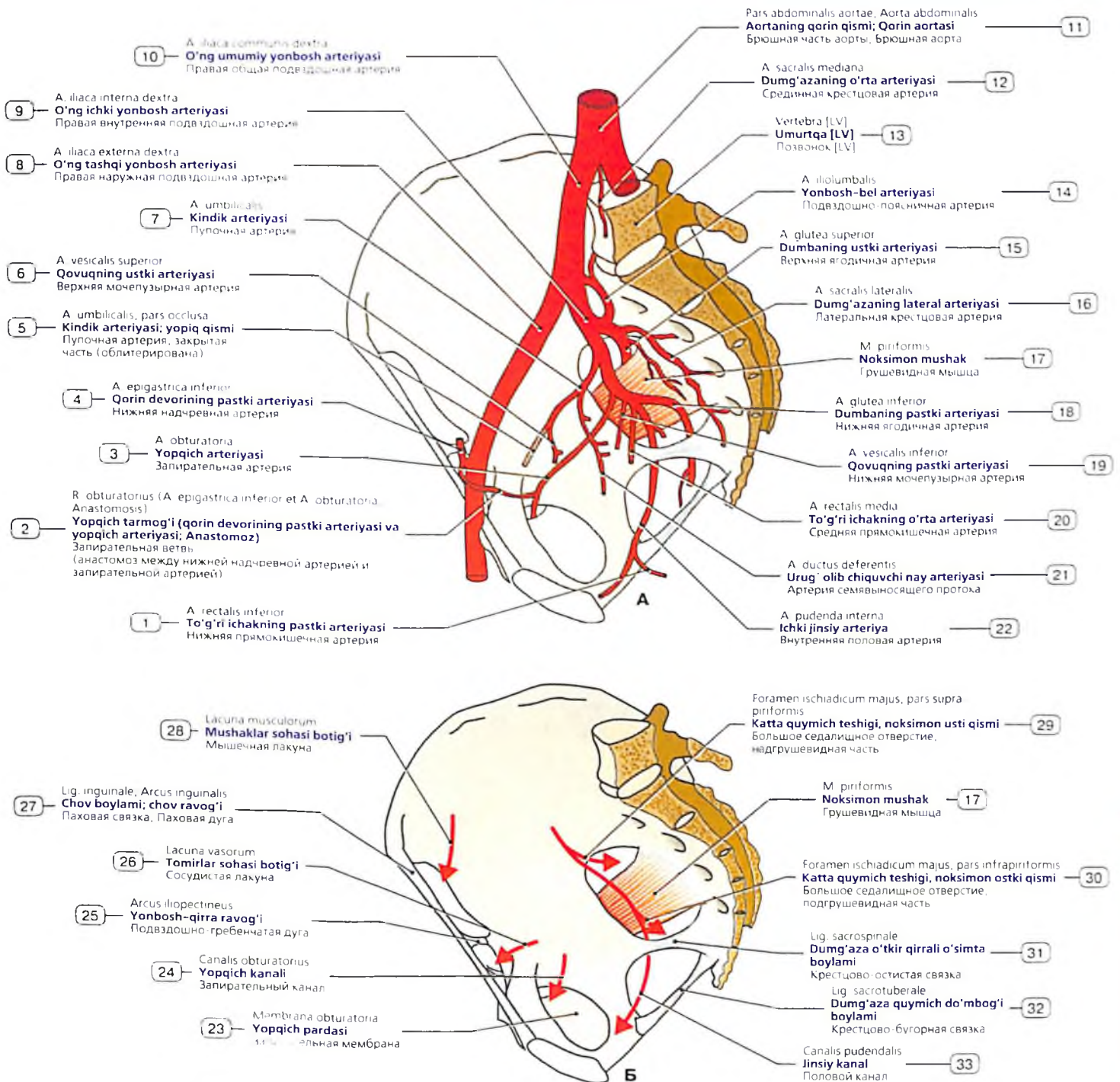
Rasm № 428. Yonbosh arteriyalari, old tomondan ko'rinishi (tabiiy ho'l preparatdan olingan rasm).
Рисунок № 428. Подвздошные артерии, вид спереди (фотография натурального препарата).

1 Hypogastric nerve
2 Lumbar splanchnic nerves
3 Common iliac artery
4 Internal iliac artery
5 External iliac artery
6 Sympathetic ganglion

7 Subcostal nerve
8 Lateral arcuate ligament
9 Inferior vena cava
10 Cervical pleura, Dome of pleura,
Pleural cupula, right diaphragmatic part

11 Hepatic veins
12 Central tendon
13 Oesophagus
14 Diaphragm, right crus
15 Inferior phrenic artery and veins

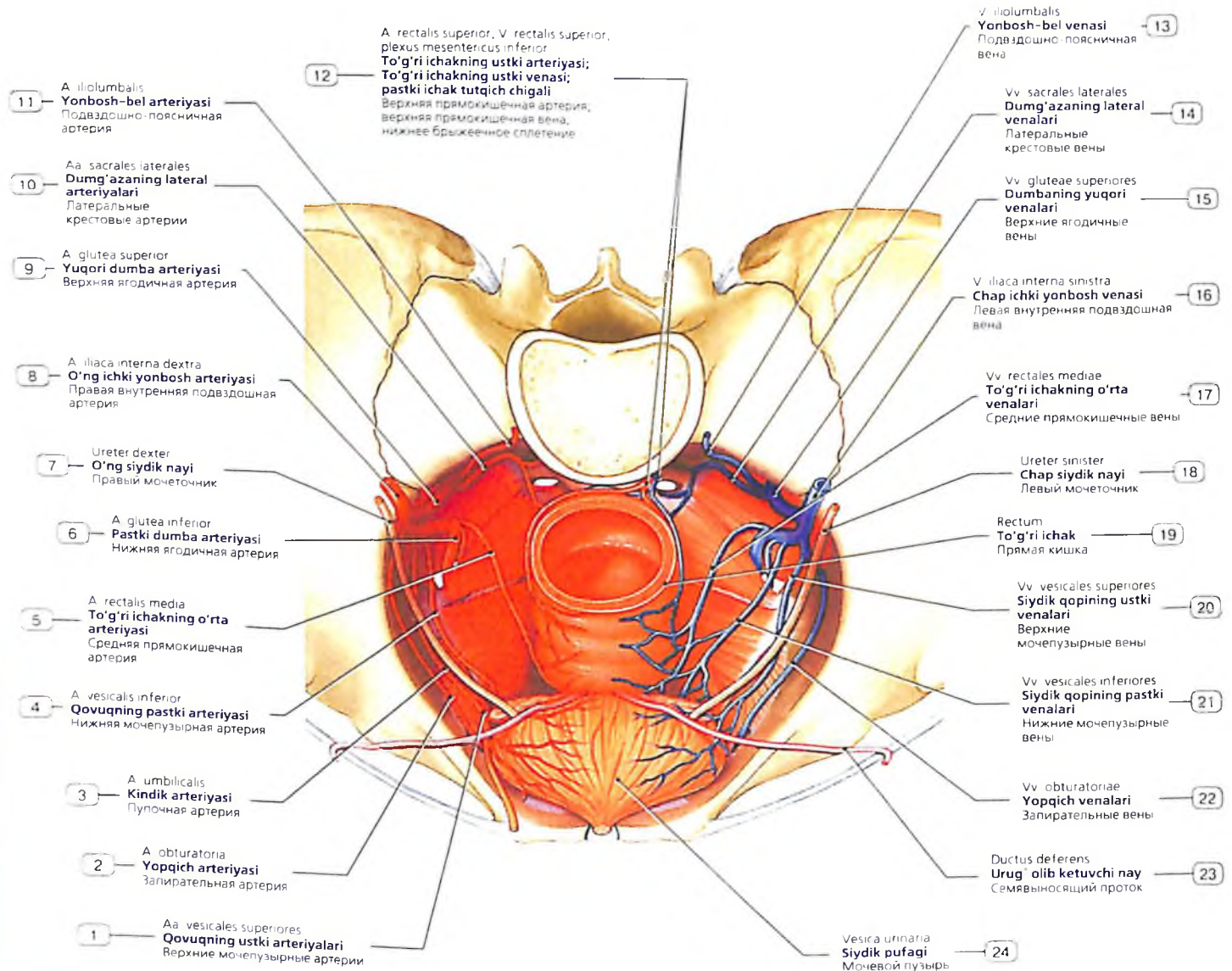
16 Diaphragm, left crus
17 Aorta
18 Cervical pleura, Dome of pleura,
Pleural cupula, left diaphragmatic part



Rasm № 429. Chanoq devori arteriyalari (A — umumiy ko`rinishi; B — qon oqimining yo`nalishi, ichkari, yon tomondan ko`rinishi, chizma).

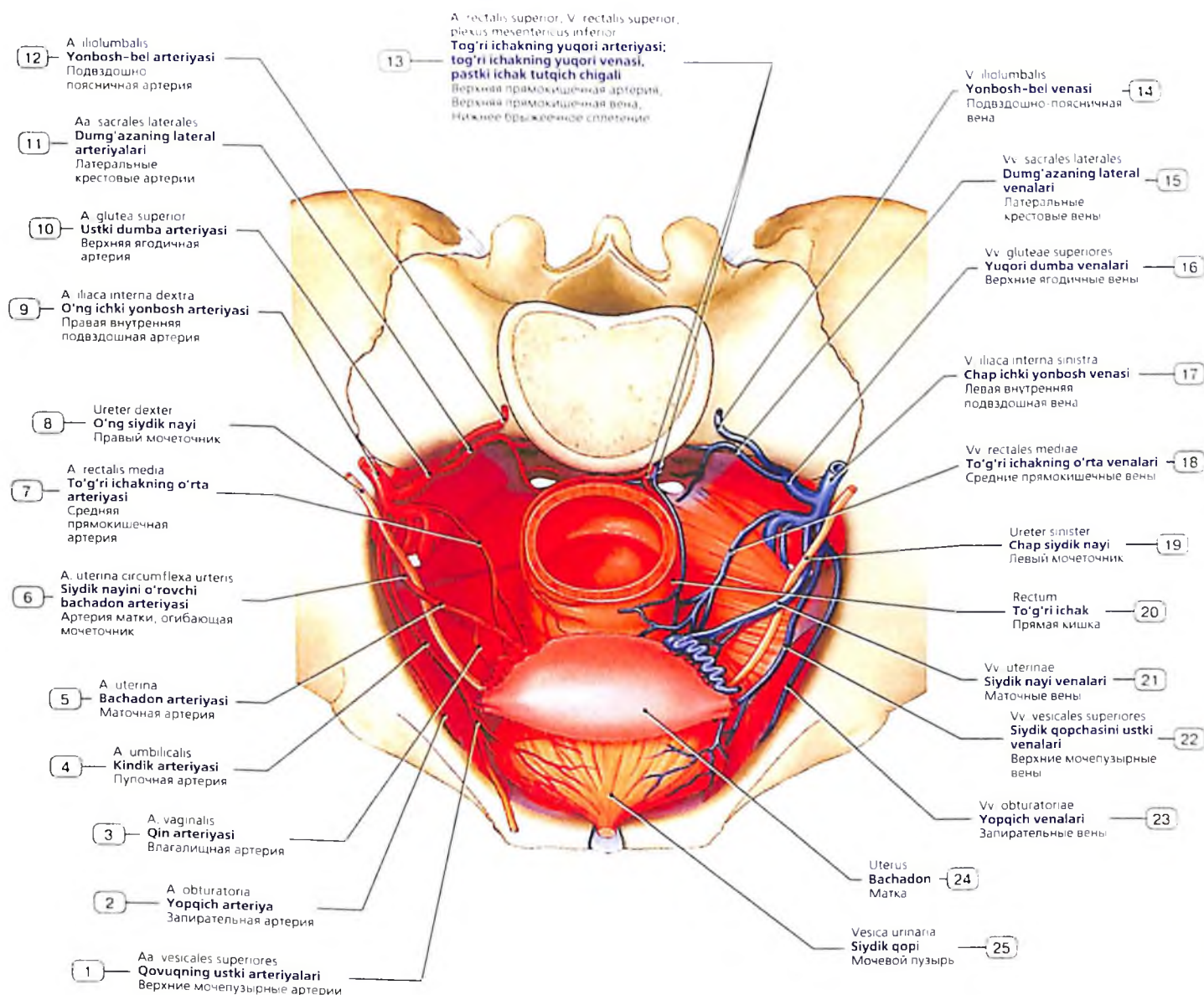
Рисунок № 429. Артериальное кровоснабжение стенок таза (A — общий вид; B — направление тока крови, вид сбоку, изнутри, схемы).

1 Inferior rectal artery	6 Superior vesical artery	14 Iliolumbar artery	21 Artery to ductus deferens	28 Muscular space
2 Obturator branch (Anastomosis between inferior epigastric artery and obturator artery)	7 Umbilical artery	15 Superior gluteal artery	22 Artery to vas deferens	29 Greater sciatic foramen, Suprapiriform part
3 Obturator artery	8 Right external artery	16 Lateral sacral artery	23 Obturator membrane	30 Greater sciatic foramen, infrapiriform part
4 Inferior epigastric artery	9 Right internal iliac artery	17 Piriformis	24 Obturator canal	31 Sacrospinous ligament
5 Umbilical artery, occluded part	10 Right common iliac artery	18 Inferior gluteal artery	25 Iliopectineal arch	32 Sacrotuberous ligament
	11 Abdominal aorta	19 Inferior vesical artery	26 Vascular space	33 Pudendal canal
	12 Median sacral artery	20 Middle rectal artery	27 Inguinal ligament	
	13 Vertebra [LV]			



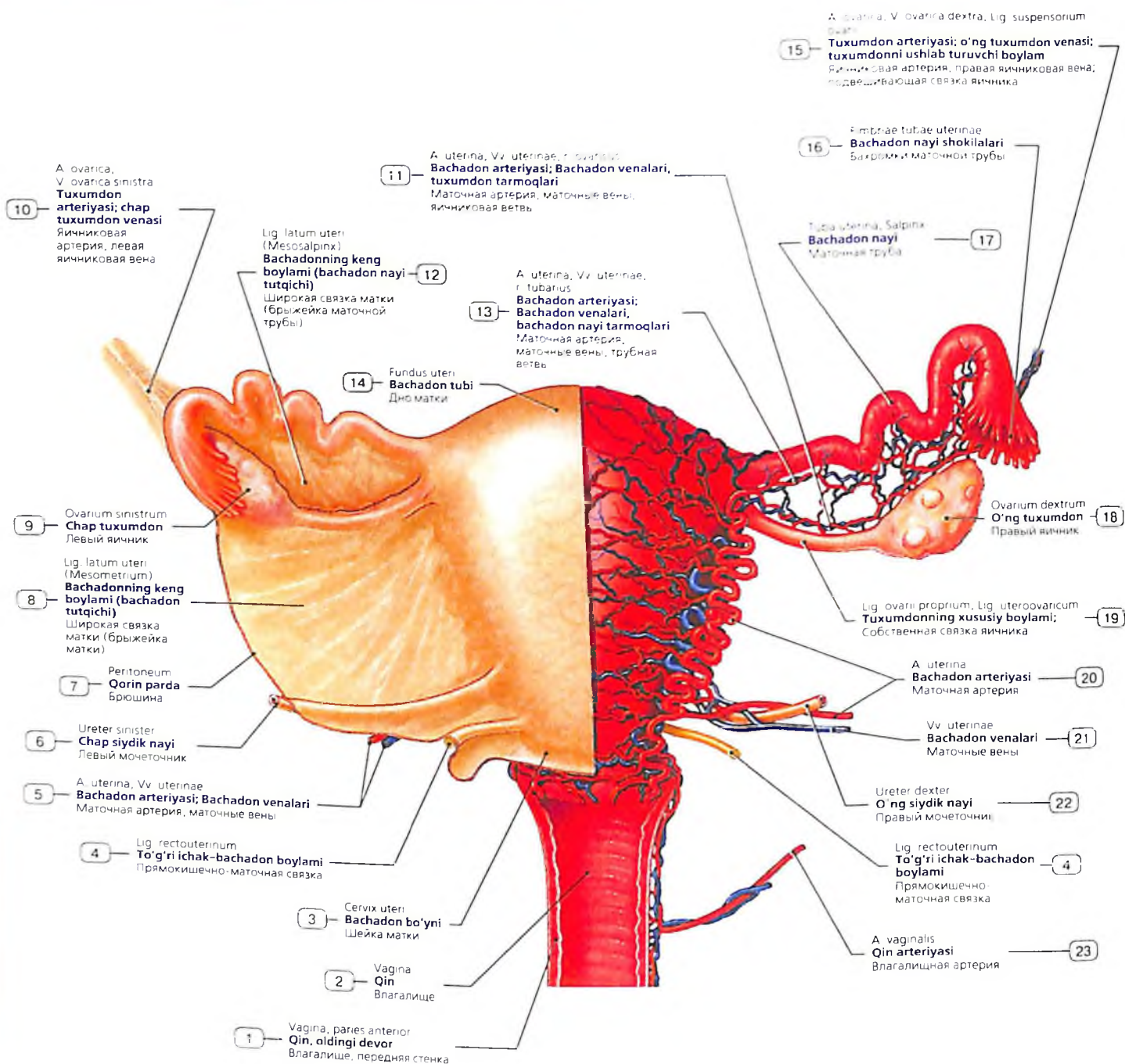
Rasm № 430. Eraklar chanog'i arteriyalari, yuqori va oldindan ko'rinishi.
Рисунок № 430. Артерии мужского таза, вид сверху и спереди.

- | | | | |
|-----------------------------|---|-----------------------------|----------------------------------|
| 1 Superior vesical arteries | 8 Right internal iliac artery | 14 Lateral sacral veins | 21 Inferior vesical veins |
| 2 Obturator artery | 9 Superior gluteal artery | 15 Superior gluteal veins | 22 Obturator veins |
| 3 Umbilical artery | 10 Lateral sacral arteries | 16 Left internal iliac vein | 23 Ductus deferens, Vas deferens |
| 4 Inferior vesical artery | 11 Iliolumbar artery | 17 Middle rectal veins | 24 Urinary bladder |
| 5 Middle rectal artery | 12 Superior rectal artery, superior rectal vein, inferior mesenteric plexus | 18 Left ureter | |
| 6 Inferior gluteal artery | 13 Iliolumbar vein | 19 Rectum | |
| 7 Right ureter | | 20 Superior vesical veins | |



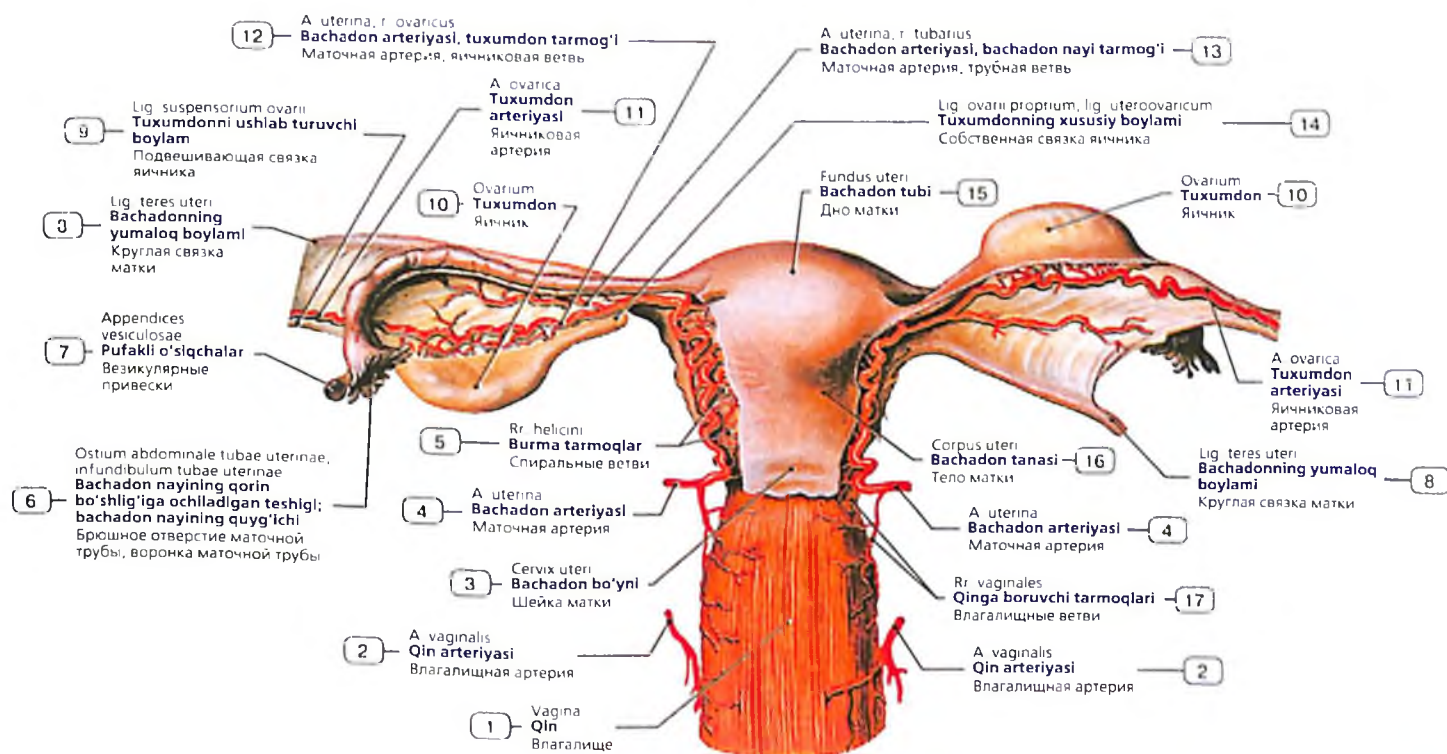
Rasm № 431. Ayollar chanog'i arteriyalari, yuqori va oldindan ko'rinishi.
Рисунок № 431. Артерии женского таза, вид сверху и спереди.

- | | | | |
|--------------------------------------|--------------------------------|-----------------------------|--------------------|
| 1 Superior vesical arteries | 9 Right internal iliac artery | 15 Lateral sacral veins | 23 Obturator veins |
| 2 Obturator artery | 10 Superior gluteal artery | 16 Superior gluteal veins | 24 Uterus |
| 3 Vaginal artery | 11 Lateral sacral arteries | 17 Left internal iliac vein | 25 Urinary bladder |
| 4 Umbilical artery | 12 Iliolumbal artery | 18 Middle rectal veins | |
| 5 Uterine artery | 13 Superior rectal artery, | 19 Left ureter | |
| 6 Circumflex ureteris uterine artery | Superior rectal vein, inferior | 20 Rectum | |
| 7 Middle rectal artery | mesenteric plexus | 21 Uterine veins | |
| 8 Right ureter | 14 Iliolumbar vein | 22 Superior vesical veins | |



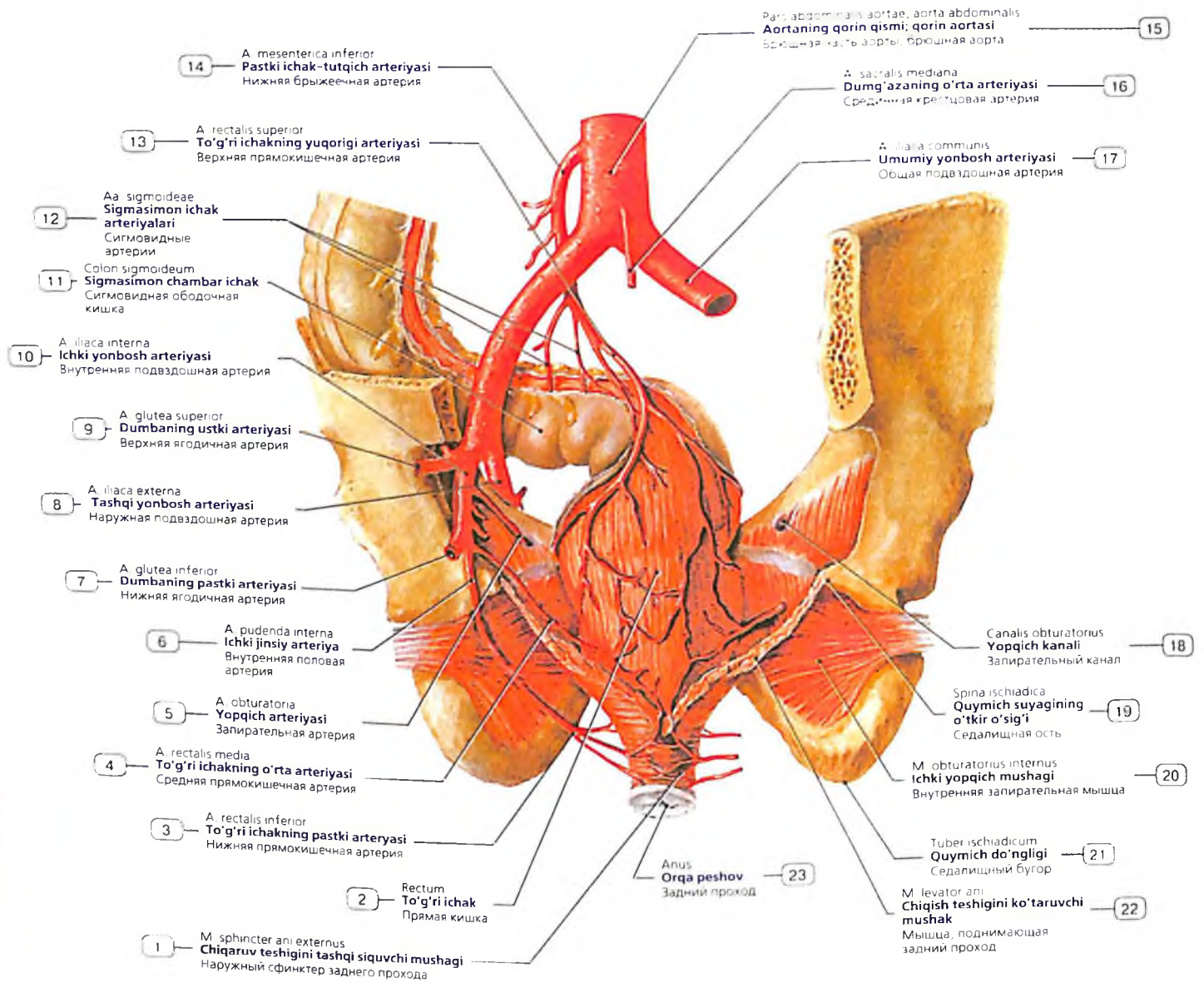
Rasm № 432. Bachadon arteriyasi, oldindan ko'rinishi, qorin pardaning chap tomoni olingan.
Рисунок № 432. Артерии матки, вид спереди, слева брюшина удалена.

- | | | | |
|--|--|---|----------------------|
| 1 Vagina, anterior wall | 8 Broad ligament of uterus (Mesometrium) | 13 Uterine artery, Uterine veins, tubal branch | 18 Right ovary |
| 2 Vagina | 9 Cervix of uterus | 14 Fundus of uterus | 19 Ligament of ovary |
| 3 Cervix of uterus | 10 Ovarian artery, Left ovarian vein | 15 Uterine artery, Right ovarian vein, Suspensory ligament of ovary, Infundibulopelvic ligament | 20 Uterine artery |
| 4 Uterosacral ligament, Recto-uterine ligament | 11 Uterine artery, Uterine veins, ovarian branch | 16 Fimbriae | 21 Uterine veins |
| 5 Uterine artery | 12 Broad ligament of uterus (Mesosalpinx) | 17 Uterine tube | 22 Right ureter |
| 6 Uterine veins | | | 23 Vaginal artery |
| 7 Peritoneum | | | |



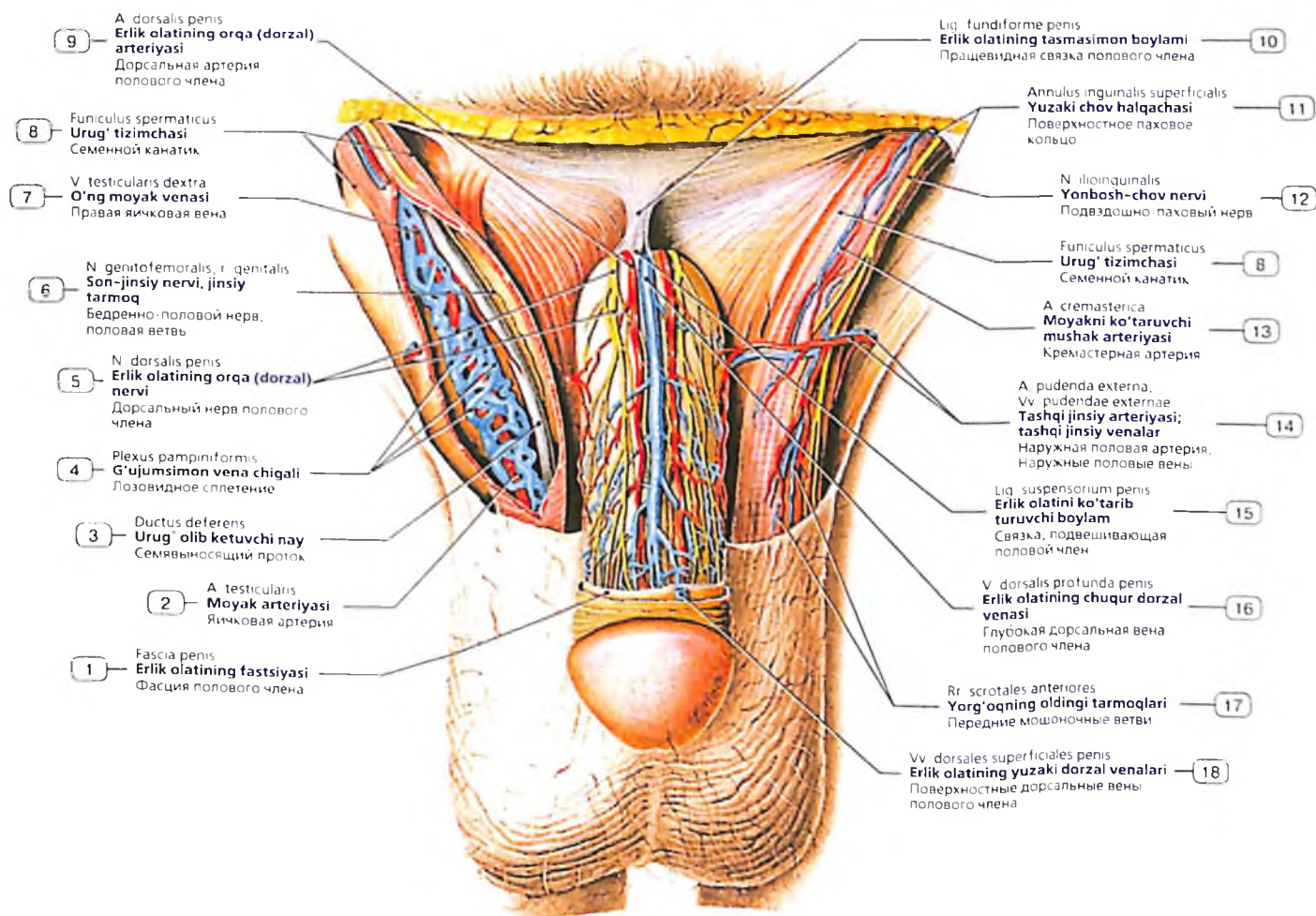
Rasm № 433. Ayollar ichki tanosil a'zolari arteriyalari, orqadan ko'rinishi.
Рисунок № 433. Артерии внутренних женских половых органов, вид сзади.

- | | |
|--|-----------------------------------|
| 1 Vagina | 10 Ovary |
| 2 Vaginal artery | 11 Ovarian artery |
| 3 Cervix of uterus | 12 Uterine artery, ovarian branch |
| 4 Uterine artery | 13 Uterine artery, tubal branch |
| 5 Helicine branches | 14 Ligament of ovary |
| 6 Abdominal ostium, Infundibulum | 15 Fundus of uterus |
| 7 Vesicular appendices | 16 Body of uterus |
| 8 Round ligament of uterus | 17 Vaginal branches |
| 9 Suspensory ligament of ovary, Infundibulopelvic ligament | |



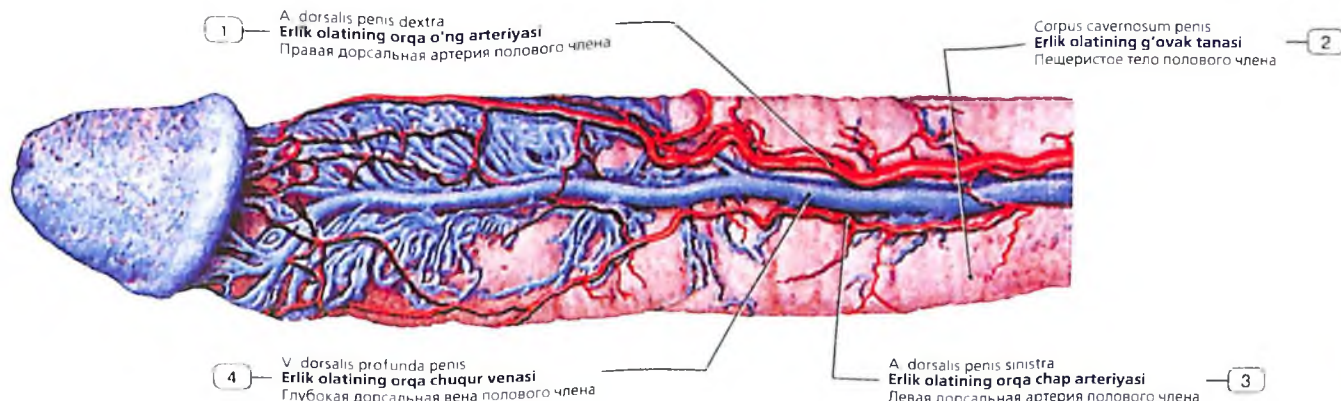
Rasm № 434. To'g'ri ichak arteriyalari, orqa tomondan ko'rinishi.
Рисунок № 434. Артерии прямой кишки, вид сзади.

- | | | |
|----------------------------|-------------------------------|------------------------|
| 1 External anal sphincter | 9 Superior gluteal artery | 17 Common iliac artery |
| 2 Rectum | 10 Internal iliac artery | 18 Obturator canal |
| 3 Inferior rectal artery | 11 Sigmoid colon | 19 Ischial spine |
| 4 Middle rectal artery | 12 Sigmoid arteries | 20 Obturator internus |
| 5 Obturator artery | 13 Superior rectal artery | 21 Ischial tuberosity |
| 6 Internal pudendal artery | 14 Inferior mesenteric artery | 22 Levator ani |
| 7 Inferior gluteal artery | 15 Abdominal aorta | 23 Anus |
| 8 External iliac artery | 16 Median sacral artery | |



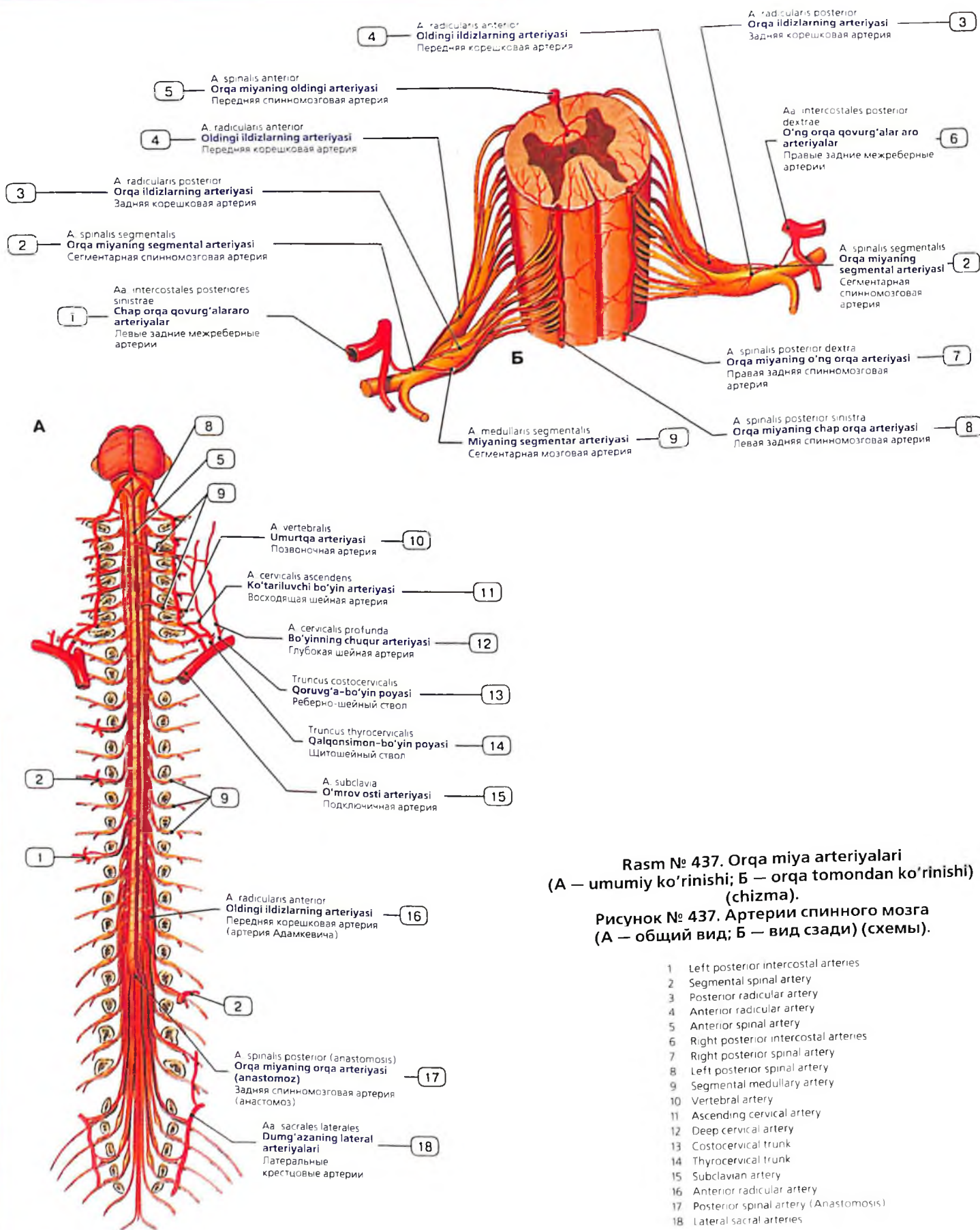
Rasm № 435. Erlik olati va urug' tizimchasining qon tomirlari, old tomondan ko'rinishi.
Рисунок № 435. Кровеносные сосуды полового члена и семенного канатика, вид спереди.

- | | | | |
|---------------------------------|---------------------------------------|--|--------------------------------------|
| 1 Fascia of penis | 6 Genitofemoral nerve, genital branch | 11 Superficial inguinal ring | 15 Suspensory ligament of penis |
| 2 Testicular artery | 7 Right testicular vein | 12 Ilio-inguinal nerve | 16 Deep dorsal vein of penis |
| 3 Ductus deferens; Vas deferens | 8 Spermatic cord | 13 Cremasteric artery | 17 Anterior scrotal branches |
| 4 Pampiniform plexus | 9 Dorsal artery of penis | 14 External pudendal artery; External pudendal veins | 18 Superficial dorsal veins of penis |
| 5 Dorsal nerve of penis | 10 Fundiforme ligament of penis | | |



Rasm № 436. Erlik olatining qon tomirlari, yon tomondan ko'rinishi.
Рисунок № 436. Кровеносные сосуды полового члена, вид сбоку.

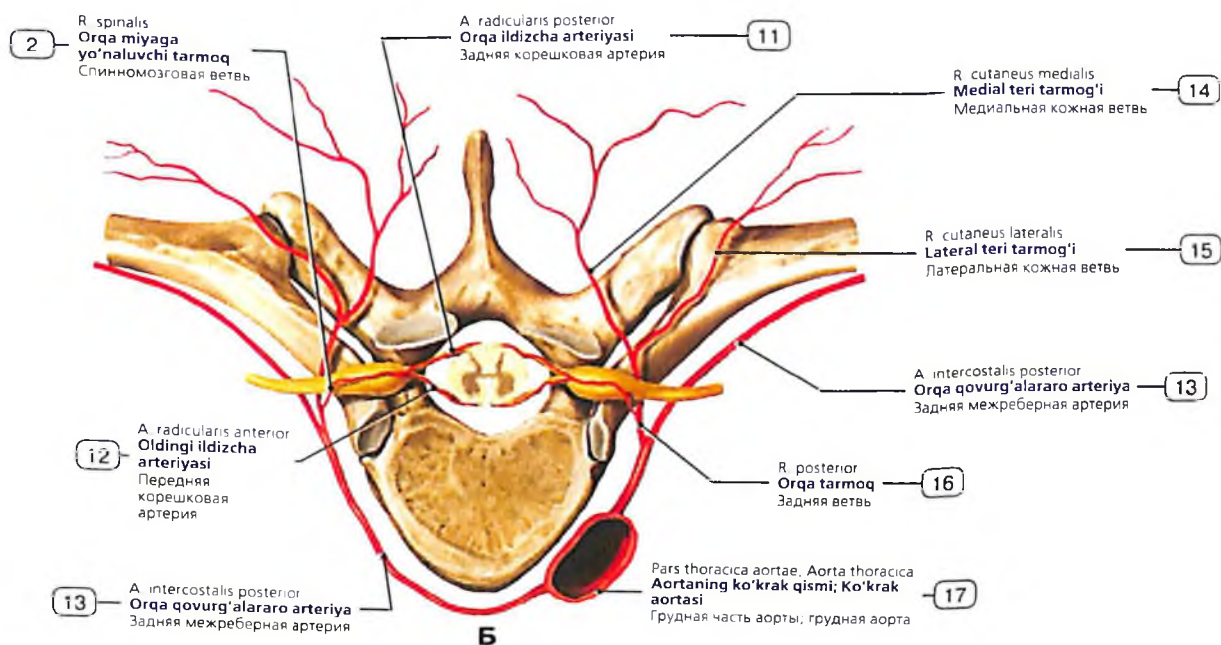
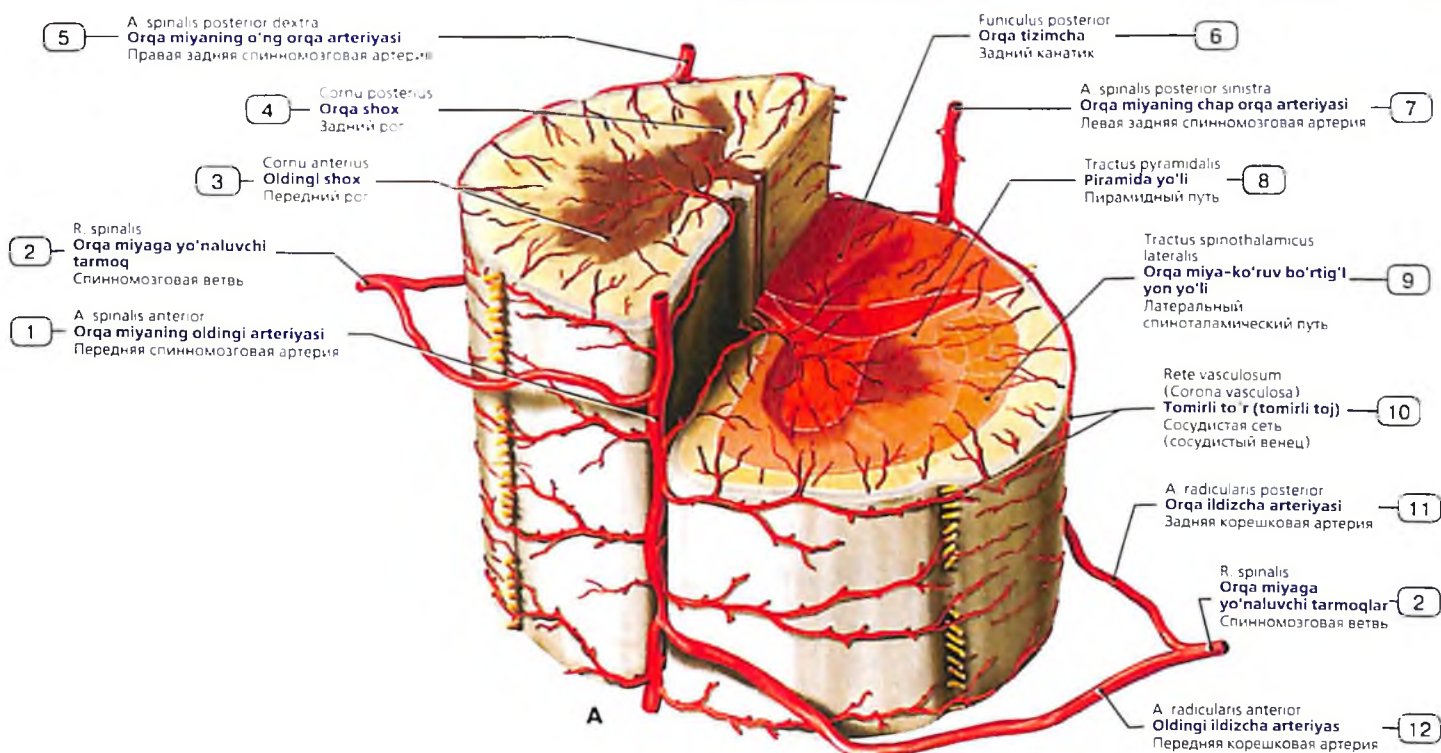
- | | |
|--------------------------------|-------------------------------|
| 1 Right dorsal artery of penis | 3 Left dorsal artery of penis |
| 2 Corpus cavernosum penis | 4 Deep dorsal vein of penis |



Rasm № 437. Orqa miya arteriyalari
(A — umumiy ko'rinishi; B — orqa tomondan ko'rinishi)
(chizma).

Рисунок № 437. Артерии спинного мозга
(А — общий вид; Б — вид сзади) (схемы).

- 1 Left posterior intercostal arteries
- 2 Segmental spinal artery
- 3 Posterior radicular artery
- 4 Anterior radicular artery
- 5 Anterior spinal artery
- 6 Right posterior intercostal arteries
- 7 Right posterior spinal artery
- 8 Left posterior spinal artery
- 9 Segmental medullary artery
- 10 Vertebral artery
- 11 Ascending cervical artery
- 12 Deep cervical artery
- 13 Costocervical trunk
- 14 Thyrocervical trunk
- 15 Subclavian artery
- 16 Anterior radicular artery
- 17 Posterior spinal artery (Anastomosis)
- 18 Lateral sacral arteries

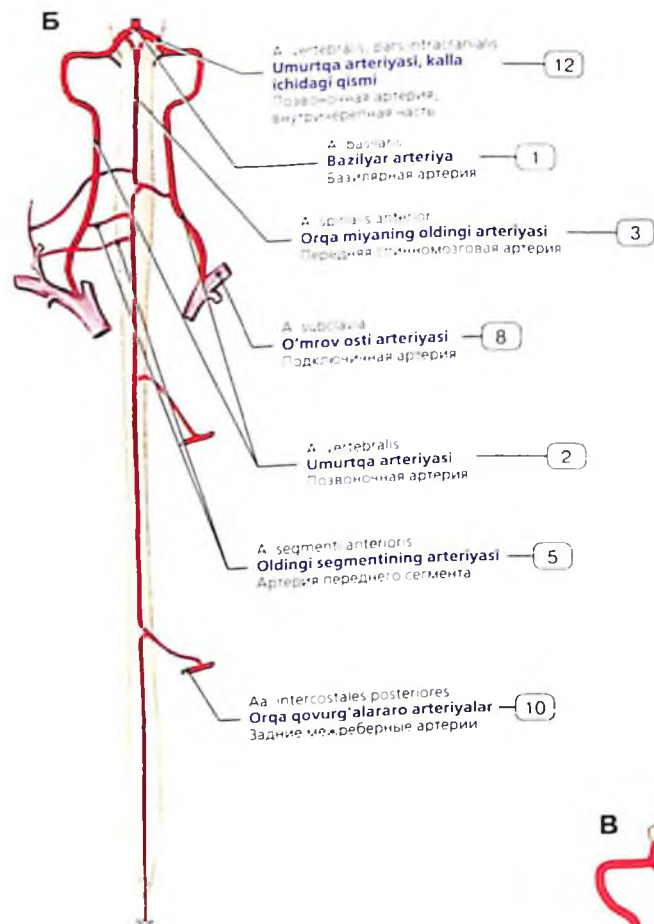
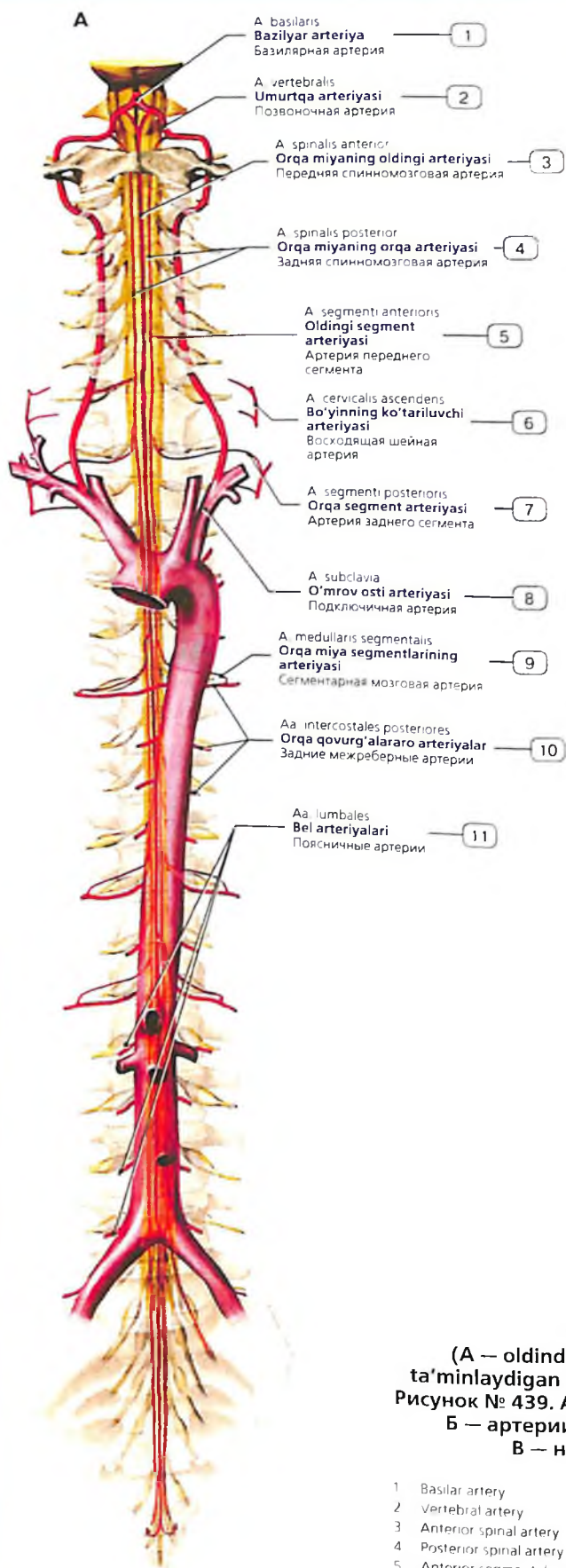


Rasm № 438. Orqa miya arteriyalari
(A — orqa miya segmentlarining qon bilan ta'minlanishi; B — ko'krak umurtqasi, yuqoridan ko'rinishi, chizma).
Рисунок № 438. Артерии спинного мозга
(A — кровоснабжение сегментов спинного мозга; B — грудной позвонок, вид сверху, схемы).

- 1 Anterior spinal artery
- 2 Spinal branch
- 3 Anterior horn, Ventral horn
- 4 Posterior horn, Dorsal horn
- 5 Right posterior spinal artery
- 6 Posterior funiculus, Dorsal funiculus

- 7 Left posterior spinal artery
- 8 Pyramidal tract
- 9 Lateral spinothalamic tract
- 10 Vascular plexus (Vasocorona)
- 11 Posterior radicular artery
- 12 Anterior radicular artery

- 13 Posterior intercostal artery
- 14 Medial cutaneous branch
- 15 Lateral cutaneous branch
- 16 Posterior branch
- 17 Thoracic aorta



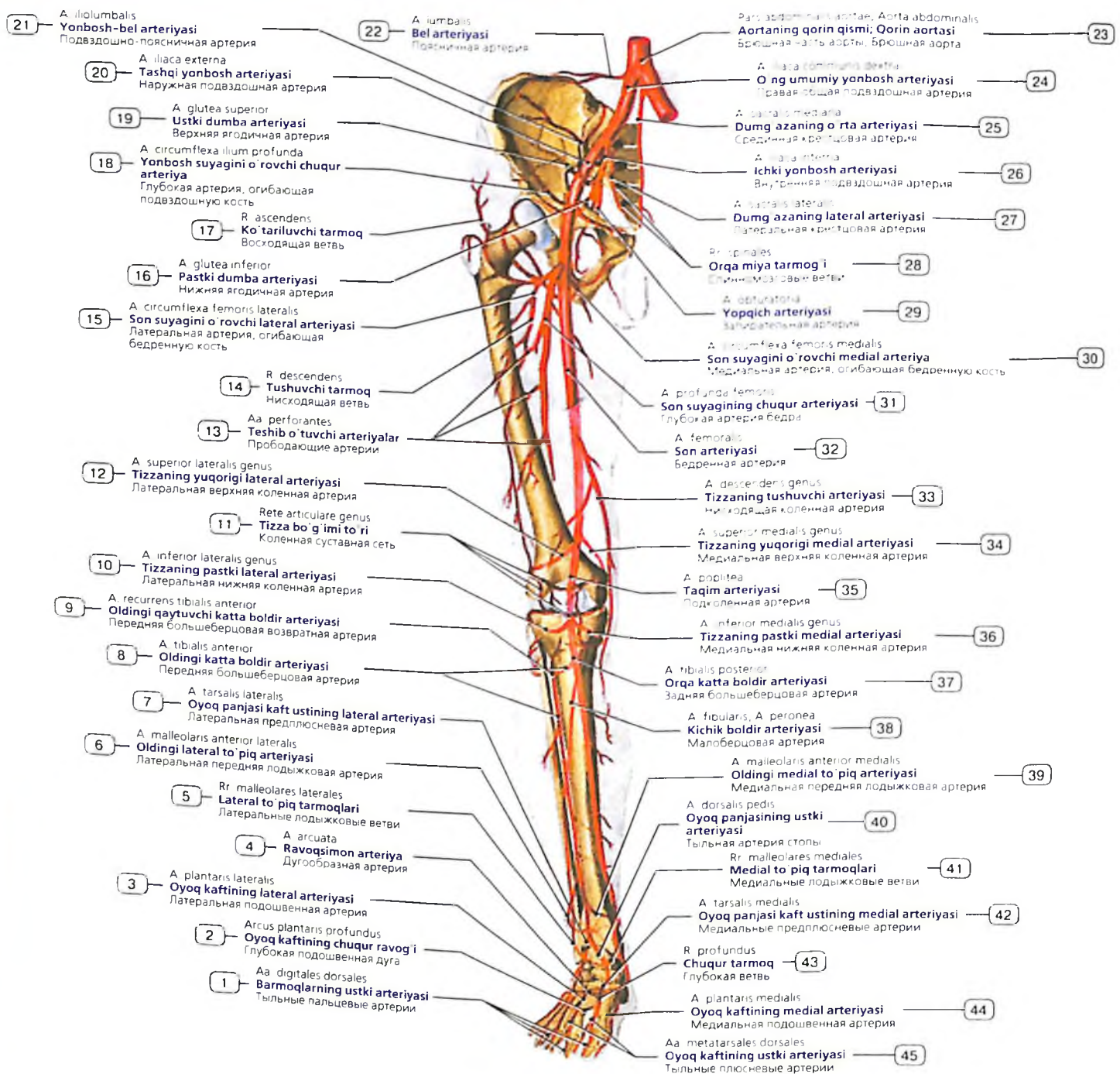
Rasm № 439. Orqa miya arteriyalari
(A — oldindan umumiy ko'rinishi; B — vertikaliga qon bilan ta'minlaydigan arteriyalar; B — qon oqimining yo'nalishi) (chizma).
Рисунок № 439. Артерии спинного мозга (A — общий вид спереди; B — артерии, кровоснабжающие вертикальную систему; B — направление движения крови) (схемы).

- 1 Basilar artery
- 2 Vertebral artery
- 3 Anterior spinal artery
- 4 Posterior spinal artery
- 5 Anterior segmental artery
- 6 Ascending cervical artery

- 7 Posterior segmental artery
- 8 Subclavian artery
- 9 Segmental medullary artery
- 10 Posterior intercostal arteries
- 11 Lumbar arteries
- 12 Vertebral artery, intracranial part

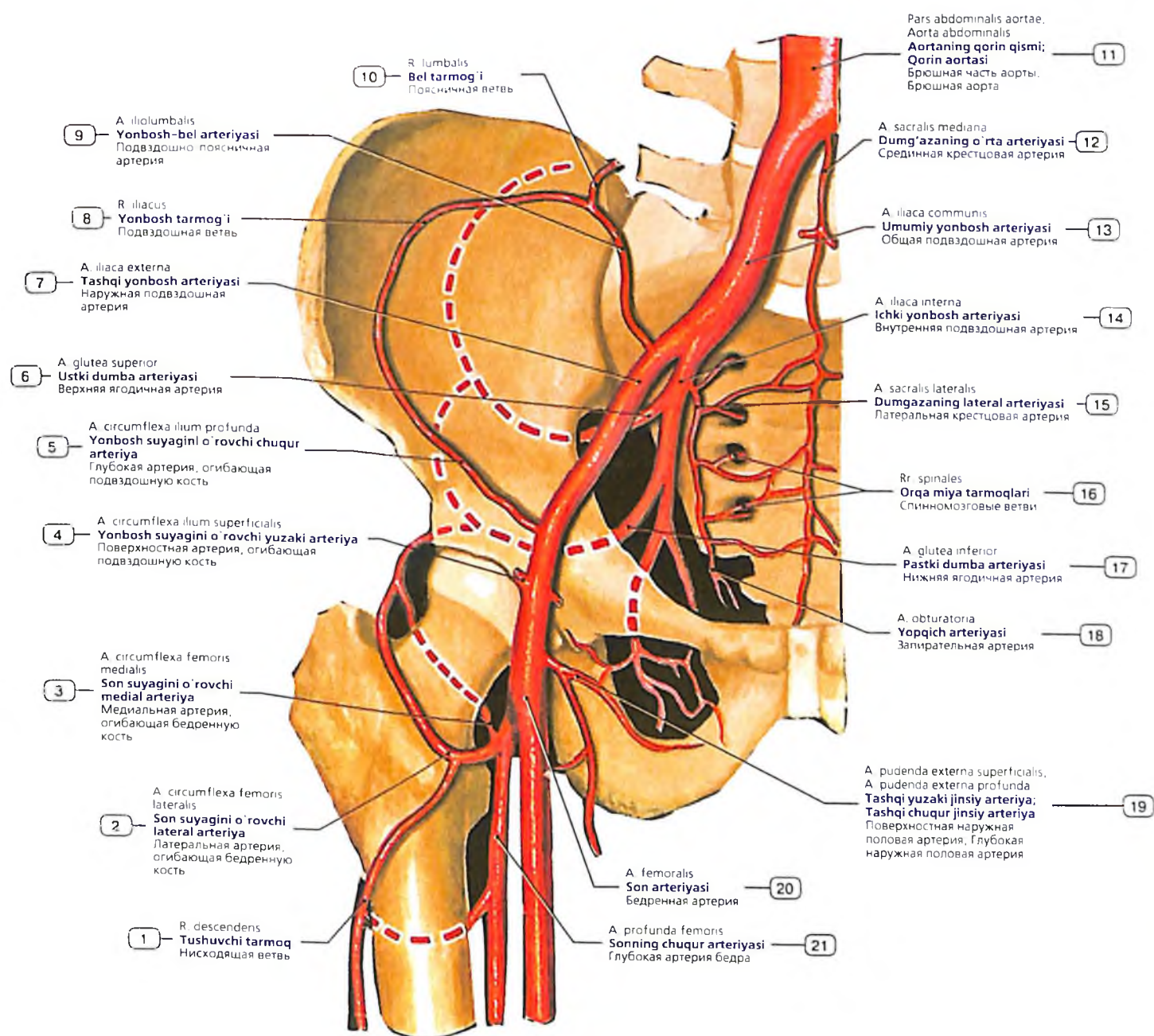
33 — jadval. Oyoq arteriyalari

Arteriyalar va ularning asosiy tarmoqlari	Boshlanish joyi	Arteriya yo'nalishi	Qon bilan ta'minlaydigan soha
Son arteriyasi 1.Qorin devorining yuzaki arteriyasi 2.Yonbosh suyagini o'rovchi yuzaki arteriya 3. Tashqi yuzaki jinsiy arteriya 4. Tizza bo'g'imining tushuvchi arteriyasi 5. Sonning chuqur arteriyasi	Tashqi yonbosh arteriyasining davomi bo'lib, son sohasiga davom etadi. Chov boylamini sathida boshlanadi. Son arteriyasining orqa qismidan, chov boylamidan 3-4 sm pastda boshlanadi.	Tomirlar sohasi botig'idan sonning oldingi egatiga o'tib, yaqinlashtiruvchi kanal orqali taqim chuqurchasiga yo'naladi. Son arteriyasidan tashqarida, sonning yaqinlashtiruvchi va medial serbar mushak orasidan o'tib, sonning orqa yuzasiga yo'naladi	Qorin old devori, son terisi va mushaklari, son suyagi, chanoq-son bo'g'imi, tizza bo'g'imi, tashqi jinsiy a'zolar Sonning orqa yuzasi mushaklari, chanoq-son bo'g'imi, son suyagi
Taqim arteriyasi 1-4. Tizzaning yuqorigi va pastki lateral, medial arteriyalari 5. Tizzaning o'rta arteriyasi	Son arteriyasining davomi bo'lib, yaqinlashtiruvchi kanalning pastki teshigi sathida boshlanadi	Tizza bo'g'imining orqa yuzasi bo'ylab pastga yo'naladi	Tizza bo'g'imi, son va boldir mushaklari, tizza bo'g'imi va boldirning yuqori qismi terisi. Tizza bo'g'imi atrofida arterial to'r hosil qiladi
Oldingi katta boldir arteriyasi 1.2.Oldingi va orqa qaytuvchi katta boldir arteriyalari 3.4.Lateral va medial oldingi to'piq arteriyalari	Tizza osti mushagi pastki qismida, taqim arteriyasidan boshlanadi	Boldirning suyaklararo pardasini teshib o'tib, uning oldingi yuzasi bo'ylab tushadi, oldingi boldir va oyoqning bosh barmog'ini yozuvchi mushak oralig'idan pastga tushadi	Boldirning oldingi yuzasi terisi va mushaklari, tizza, taqim boldir bo'g'imi. Tizza bo'g'imi to'ri va medial to'piq to'rini hosil qilishda qatnashadi
Oyoq panjasining ustki arteriyasi 1.Oyoq kaftining birinchi barmoq usti arteriyasi 2.Oyoq kaftining chuqur arteriyasi 3.Ravoqsimon arteriya	Oldingi qaytuvchi katta boldir arteriyasining davomi bo'lib, oyoq panjasining ustki qismiga davom etadi Medial ponasimon suyak sathida	Oshiq boldir bo'g'imidan oldinda I — barmoq oralig'i bo'ylab, oyoq bosh barmog'ini yozuvchi uzun mushak payi va oyoq barmoqlarini yozuvchi mushaklar orasidan o'tadi Oyoq kafti suyaklarining asosidan lateral tomonga yo'naladi	Oyoq panjasini suyaklari, bo'g'imlari, kaft usti terisi, mushaklari, oyoq panjasining ichki va tashqi qismi Oyoq panjasining ustki qismida ravoq va to'r hosil qilishda qatnashadi.
Orqa katta boldir arteriyasi 1.Kichik boldir suyagini o'rovchi tarmoq 2.Kichik boldir arteriyasi 3.Medial to'piq tarmoqlari 4.Tovon tarmoqlari	Taqim arteriyasining davomi bo'lib, taqim chuqurchasi pastki qismidan boshlanadi	Taqim — boldir kanali bo'ylab, kambalasimon mushak (orqadan), katta boldir mushagi va barmoqlarni bukuvchi uzun mushaklar (oldindan) oralig'idan o'tib, oyoq pangasining kaft yuzasiga yo'naladi	Tizza bo'g'imi, katta va kichik boldir suyagi, oshiq-boldir bo'g'imi, boldir orqa qismi terisi va mushaklari
Oyoq kaftining medial arteriyasi Yuza va chuqur tarmoqlari	Medial to'piq ortidan boshlanadi	Oyoq panjasi ostki sohasining medial egati bo'ylab, oldinga yo'naladi	Tovonning medial qismi terisi va oyoq panjasi bosh barmog'i mushaklari
Oyoq kaftining lateral arteriyasi Ostki oyoq kaftining arterial ravog'i	Medial to'piq ortidan boshlanadi	Oyoq panjasi ostki sohasining lateral egati bo'ylab, oldinga yo'naladi	Tovonning lateral qismi terisi, o'rta guruh va jimjiloq muskullari, oyoq panjasi bo'g'imlari



Rasm № 440. Pastki muchalar arteriyalari, oldindan ko'rinishi (chizma).
Рисунок № 440. Артерии нижней конечности, вид спереди (схема).

- | | | | |
|--------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|
| 1 Dorsal digital arteries | 13 Perforating arteries | 25 Median sacral artery | 37 Posterior tibial artery |
| 2 Deep plantar arch | 14 Descending branch | 26 Internal iliac artery | 38 Fibular artery, Peroneal artery |
| 3 Lateral plantar artery | 15 Lateral circumflex femoral artery | 27 Lateral sacral artery | 39 Anterior medial malleolar artery |
| 4 Arcuate artery | 16 Inferior gluteal artery | 28 Spinal branches | 40 Dorsalis pedis artery |
| 5 Lateral malleolar branches | 17 Ascending branch | 29 Obturator artery | Dorsal artery of foot |
| 6 Anterior lateral malleolar artery | 18 Deep circumflex iliac artery | 30 Medial circumflex femoral artery | 41 Medial malleolar branches |
| 7 Lateral tarsal artery | 19 Superior gluteal artery | 31 Deep artery of thigh | 42 Medial tarsal arteries |
| 8 Anterior tibial artery | 20 External iliac artery | 32 Femoral artery | 43 Deep branch |
| 9 Anterior tibial recurrent artery | 21 Iliolumbar artery | 33 Descending genicular artery | 44 Medial plantar artery |
| 10 Inferior lateral genicular artery | 22 Lumbar artery | 34 Superior medial genicular artery | 45 Dorsal metatarsal arteries |
| 11 Genicular anastomosis | 23 Abdominal aorta | 35 Popliteal artery | |
| 12 Superior lateral genicular artery | 24 Right common iliac artery | 36 Inferior medial genicular artery | |



Rasm № 441. Yonbosh arteriyaning parietal tarmoqlari (chizma).
Рисунок № 441. Пристеночные ветви подвздошной артерии (схема).

- | | |
|---------------------------------------|--|
| 1 Descending branch | 12 Median sacral artery |
| 2 Lateral circumflex femoral artery | 13 Common iliac artery |
| 3 Medial circumflex femoral artery | 14 Internal iliac artery |
| 4 Superficial circumflex iliac artery | 15 Lateral sacral artery |
| 5 Deep circumflex iliac artery | 16 Spinal branches |
| 6 Superior gluteal artery | 17 Inferior gluteal artery |
| 7 External iliac artery | 18 Obturator artery |
| 8 Iliac branch | 19 Superficial external pudendal artery, |
| 9 Iliolumbar artery | Deep external pudendal artery |
| 10 Lumbar branch | 20 Femoral artery |
| 11 Abdominal aorta | 21 Deep artery of thigh |

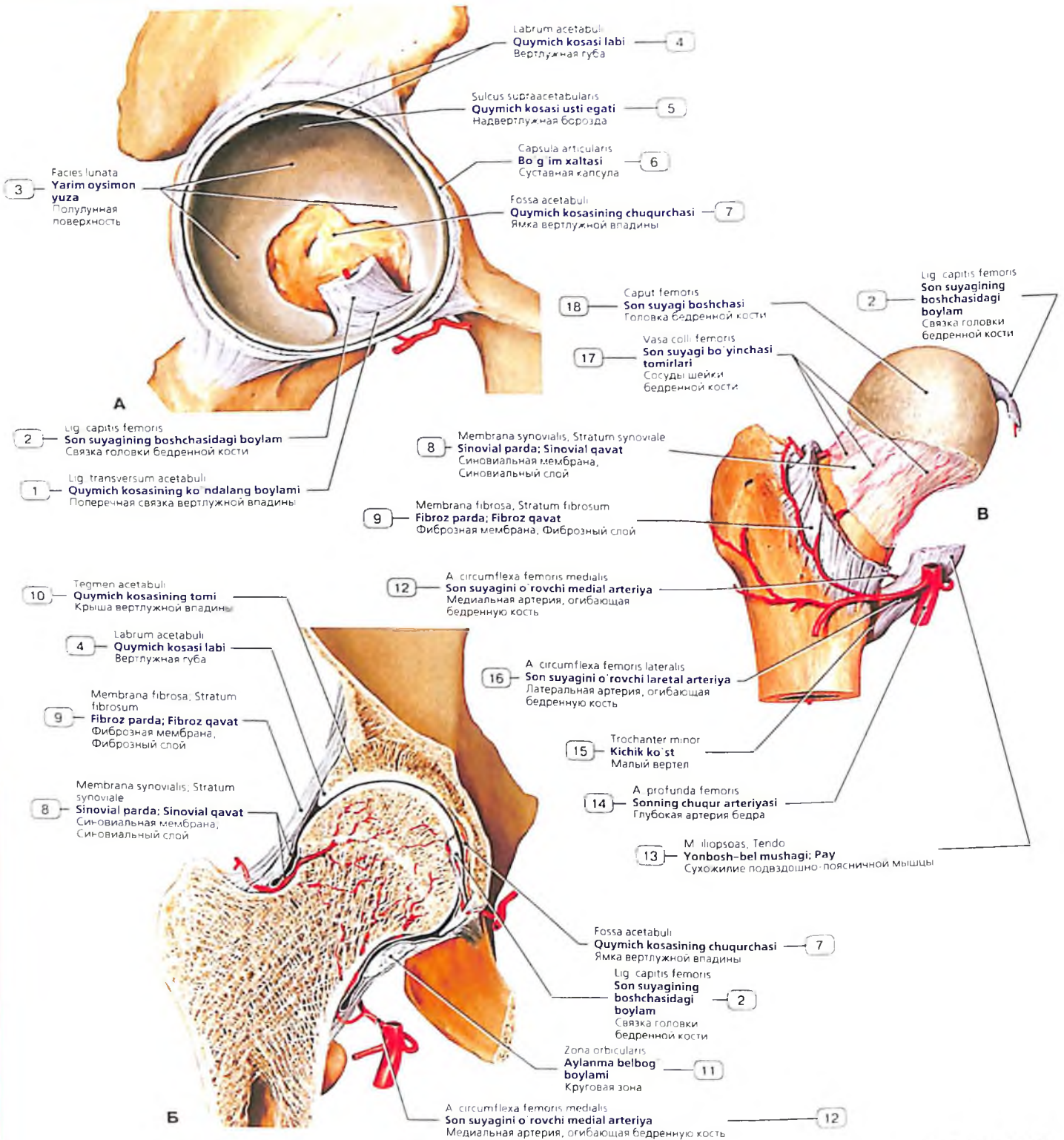


Рис. № 442. Число-сон бо'ғ'имининг қон билан та'минланishi (А — сирка косаси; Б — чаноқ-сон бо'ғ'ими орқали ко'ндalang кесма; В — сон бо'ғ'инчasi (chizma)).

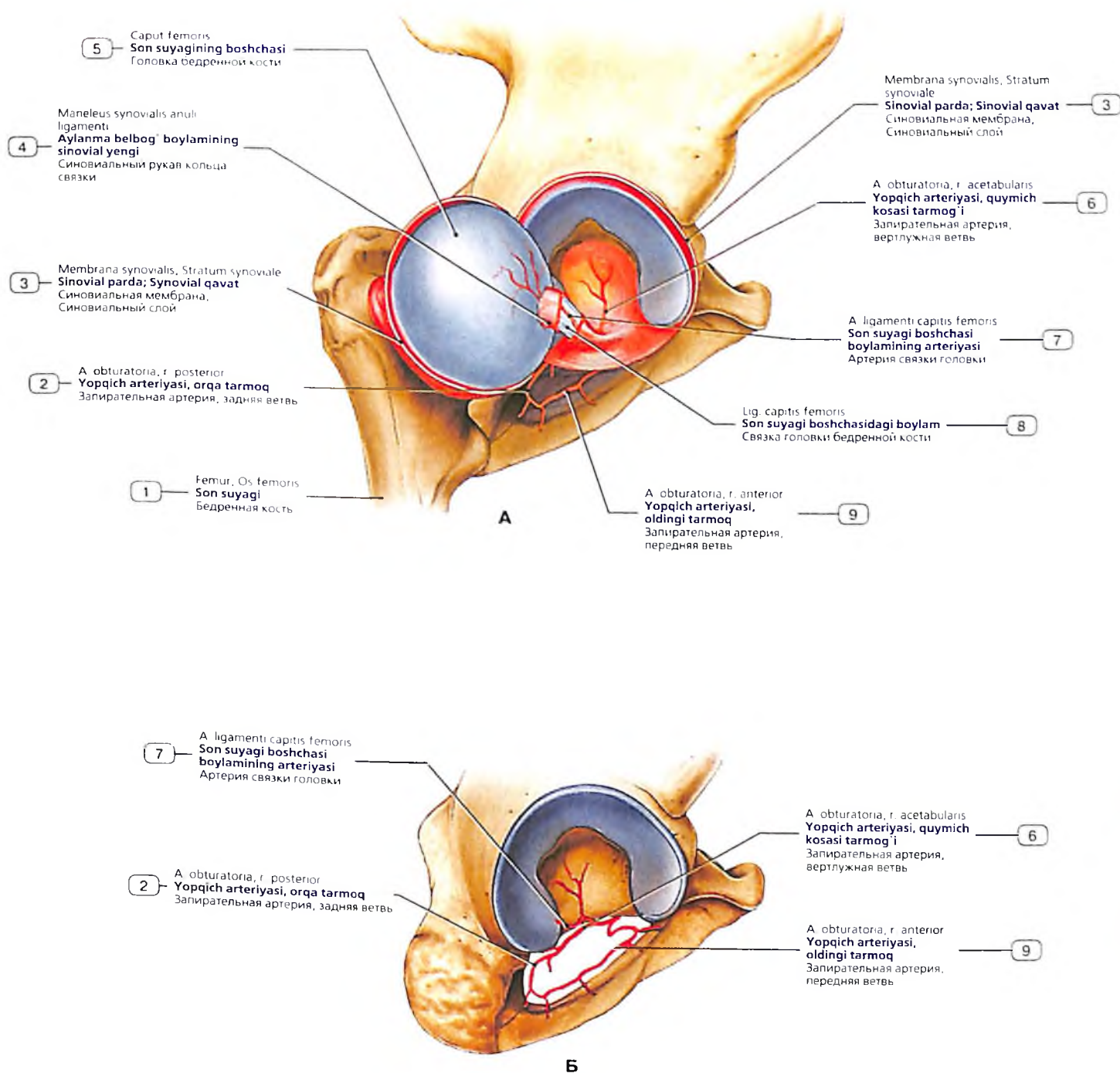
Рисунок № 442. Кровоснабжение тазобедренного сустава (А — вертлужная впадина; Б — поперечный распил через тазобедренный сустав; В — шейка бедра (схема)).

1. Transverse acetabular ligament
2. Ligament of head of femur
3. Lunata surface
4. Acetabular labrum
5. Supra acetabular groove

6. Joint capsule, Articular capsule
7. Acetabular fossa
8. Synovial membrane, Synovial layer
9. Fibrous layer, Fibrous membrane
10. Roof of acetabulum

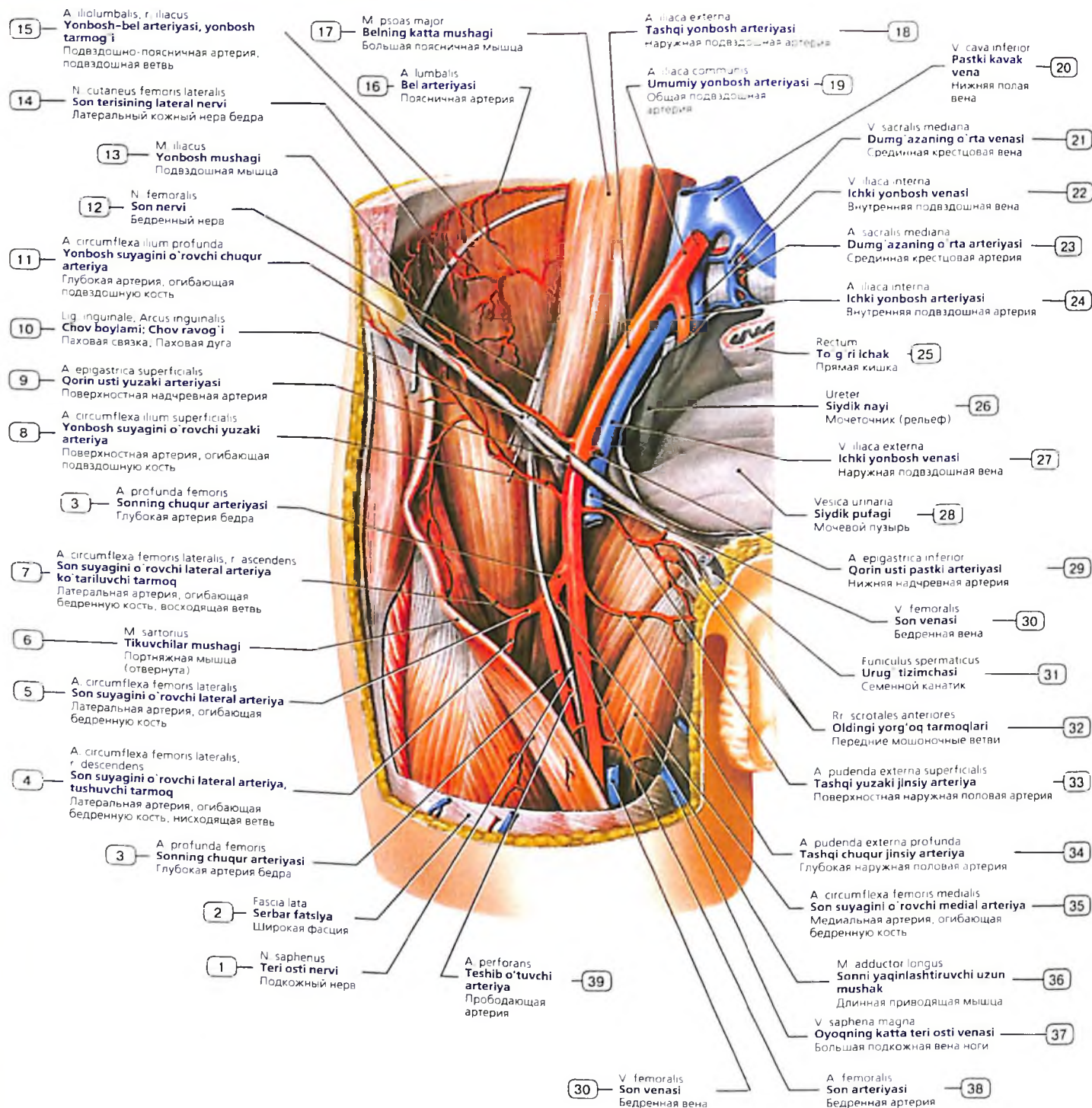
11. Zona orbicularis
12. Medial circumflex femoral artery
13. Iliopsoas, Tendon
14. Deep artery of thigh
15. Lesser trochanter

16. Lateral circumflex femoral artery
17. Vessels of neck of thigh
18. Head of femur



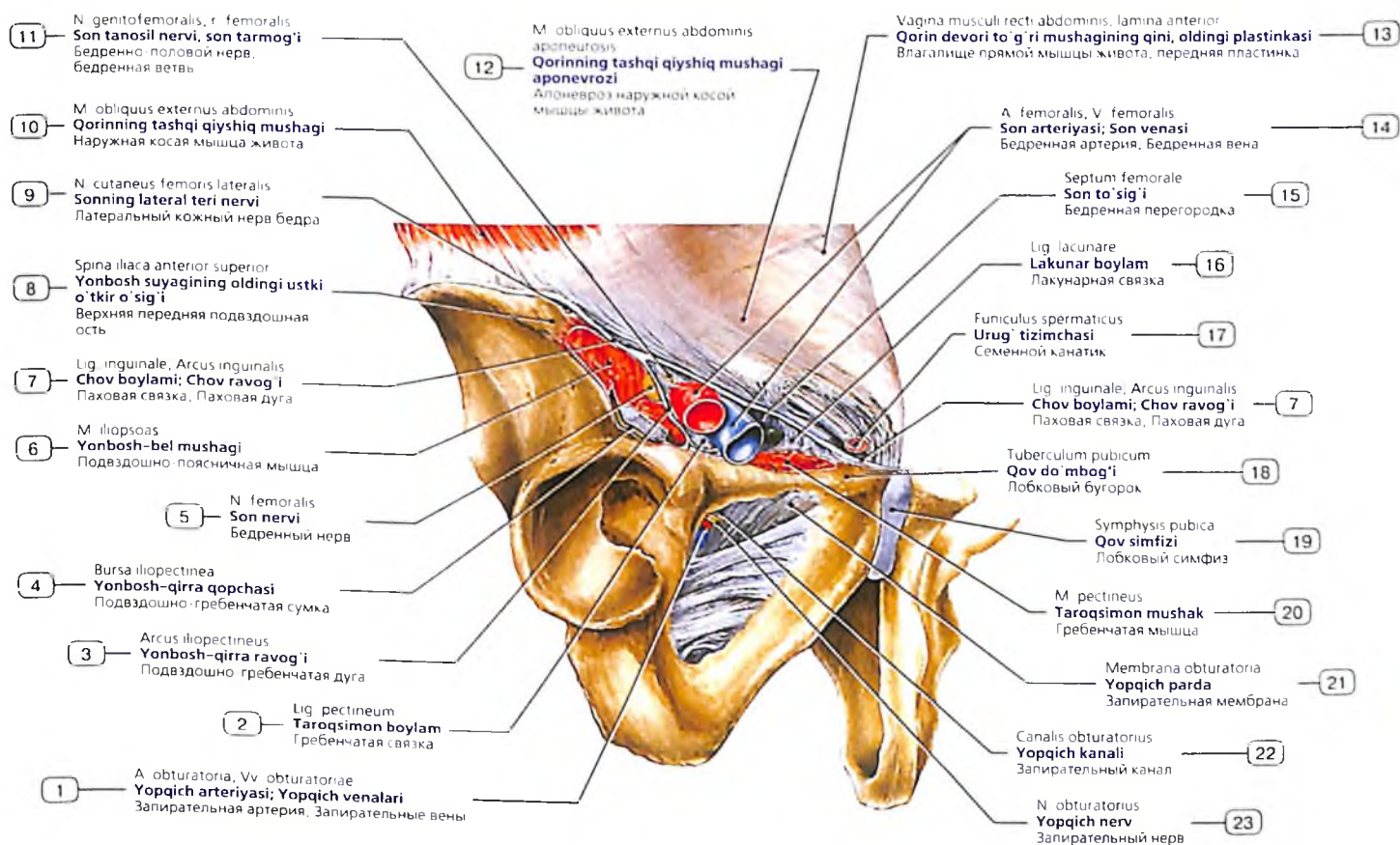
Rasm № 443. Son-chanoq bo'g'imining arteriyalari
(A — son suyagining boshchasi surilgan; B — sirka kosachasi) (chizma).
Рисунок № 443. Артерии тазобедренного сустава
(A — головка бедренной кости отведена; B — вертлужная впадина) (схема).

- | | |
|-------------------------------------|---------------------------------------|
| 1 Femur, Thigh bone | 6 Obturator artery, acetabular branch |
| 2 Obturator artery posterior branch | 7 Artery of ligament of head |
| 3 Synovial membrane, Synovial layer | 8 Ligament of head of femur |
| 4 Synovial sleeve around ligament | 9 Obturator artery, anterior branch |
| 5 Head of femur | |



Рисунки № 444. Наружная подвздошная и бедренная артерии.

- | | | | |
|--|--------------------------------------|-------------------------------|--|
| 1 Saphenous nerve | 10 Inguinal ligament | 20 Inferior vena cava | 31 Spermatic cord |
| 2 Fascia lata | 11 Deep circumflex iliac artery | 21 Median sacral vein | 32 Anterior scrotal branches |
| 3 Deep artery of thigh | 12 Femoral nerve | 22 Internal iliac vein | 33 Superficial external pudendal artery |
| 4 Lateral circumflex femoral artery, descending branch | 13 Iliacus | 23 Median sacral artery | 34 Deep external pudendal artery |
| 5 Lateral circumflex femoral artery | 14 Lateral cutaneous nerve of thigh | 24 Internal iliac artery | 35 Medial circumflex femoral artery |
| 6 Sartorius | 15 Iliolumbar artery, iliacus branch | 25 Rectum | 36 Adductor longus |
| 7 Lateral circumflex femoral artery, ascending branch | 16 Lumbar artery | 26 Ureter | 37 Great saphenous vein, Long saphenous vein |
| 8 Superficial circumflex iliac artery | 17 Psoas major | 27 External iliac vein | 38 Femoral artery |
| 9 Superficial epigastric artery | 18 External iliac artery | 28 Urinary bladder | 39 Perforating artery |
| | 19 Common iliac artery | 29 Inferior epigastric artery | |
| | | 30 Femoral vein | |



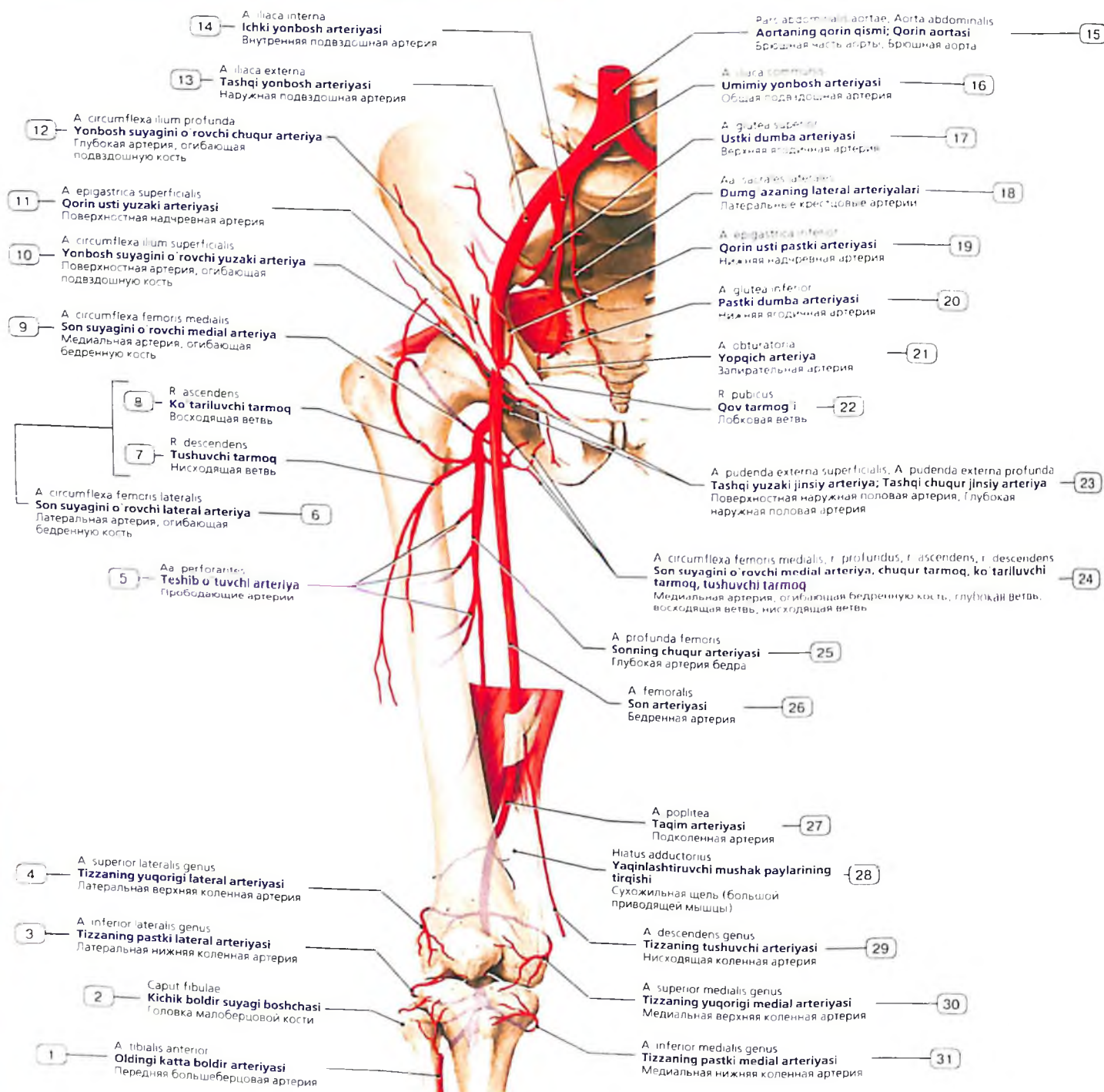
Rasm № 445. Mushakli va tomirli lakunalar.
Рисунок № 445. Мышечная и сосудистая лакуны.

- 1 Obturator artery, Obturator veins
- 2 Pectineal ligament
- 3 Iliopectineal arch
- 4 Iliopectineal bursa
- 5 Femoral nerve
- 6 Iliopsoas

- 7 Inguinal ligament, Inguinal arch
- 8 Anterior superior iliac spine
- 9 Lateral cutaneous nerve of thigh
- 10 External oblique
- 11 Genitofemoral nerve, femoral branch

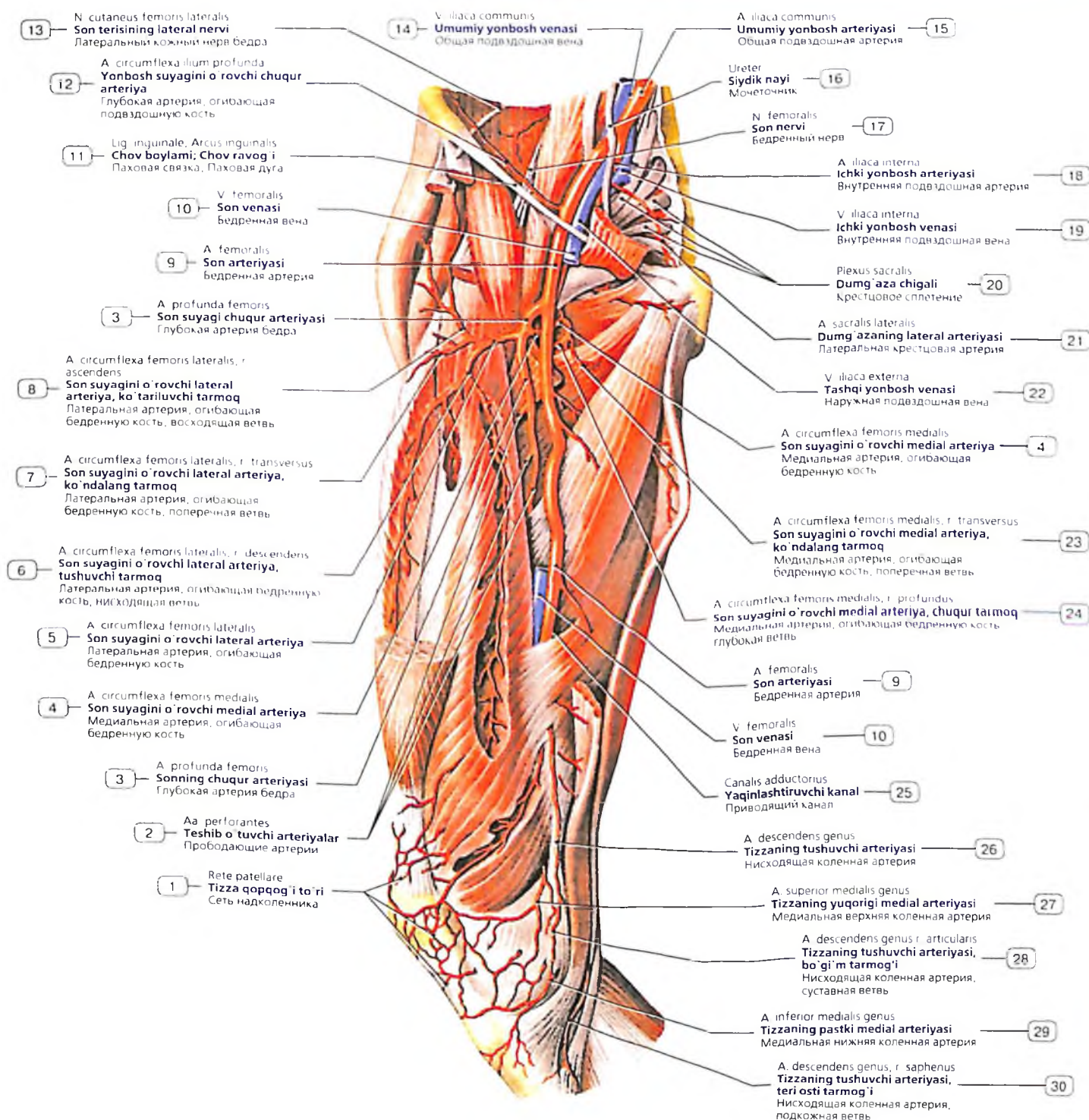
- 12 External oblique; Aponeurosis
- 13 Rectus sheath, anterior layer
- 14 Femoral artery, Femoral vein
- 15 Femoral septum
- 16 Lacunar ligament
- 17 Spermatic cord

- 18 Pubic tubercle
- 19 Pubic symphysis
- 20 Pectineus
- 21 Obturator membrane
- 22 Obturator canal
- 23 Obturator nerve



Rasm № 446. Son arteriyasi va uning tarmoqlari, oldindan ko'rinishi (chizma).
Рисунок № 446. Бедренная артерия и ее ветви, вид спереди (схема).

- | | | | | |
|-------------------------------------|--|-------------------------------|---|-------------------------------------|
| 1 Anterior tibial artery | 8 Descending branch | 15 Abdominal aorta | 23 Superficial external pudendal artery, Deep external pudendal artery | 27 Popliteal artery |
| 2 Head of fibula | 9 Medial circumflex femoral artery | 16 Common iliac artery | 24 Medial circumflex femoral artery, deep branch, ascending branch, descending branch | 28 Adductor hiatus |
| 3 Inferior lateral genicular artery | 10 Superficial circumflex iliac artery | 17 Superior gluteal artery | 25 Deep artery of thigh | 29 Descending genicular artery |
| 4 Superior lateral genicular artery | 11 Deep circumflex iliac artery | 18 Lateral sacral arteries | 26 Femoral artery | 30 Superior medial genicular artery |
| 5 Perforating arteries | 12 Superficial epigastric artery | 19 Inferior epigastric artery | | 31 Inferior medial genicular artery |
| 6 Lateral circumflex femoral artery | 13 External iliac artery | 20 Inferior gluteal artery | | |
| 7 Ascending branch | 14 Internal iliac artery | 21 Obturator artery | | |
| | | 22 Pubic branch | | |

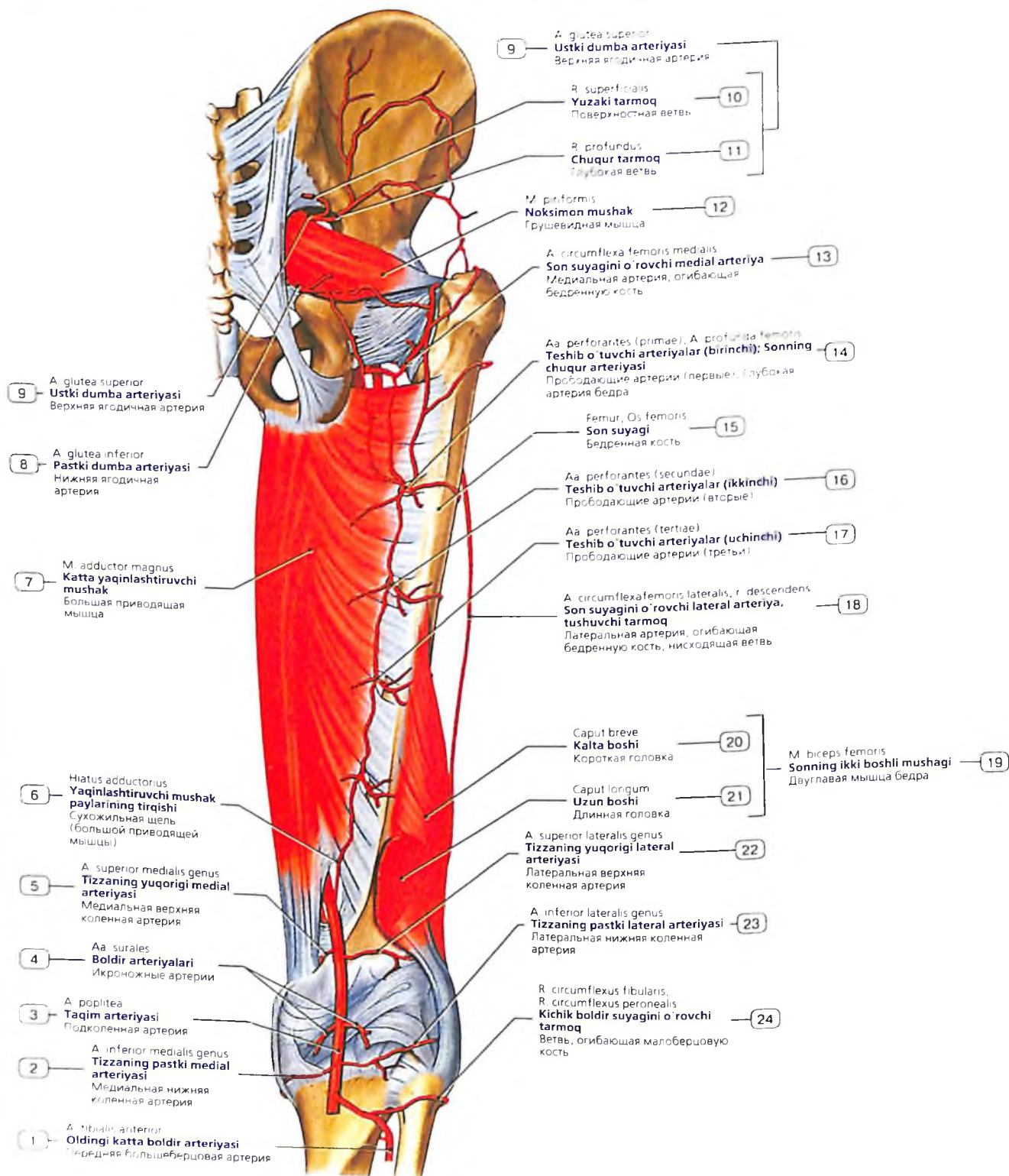


Rasm № 447. Son arteriyasi, medial tomondan ko'rinishi.
Рисунок № 447. Бедренная артерия, вид с медиальной стороны.

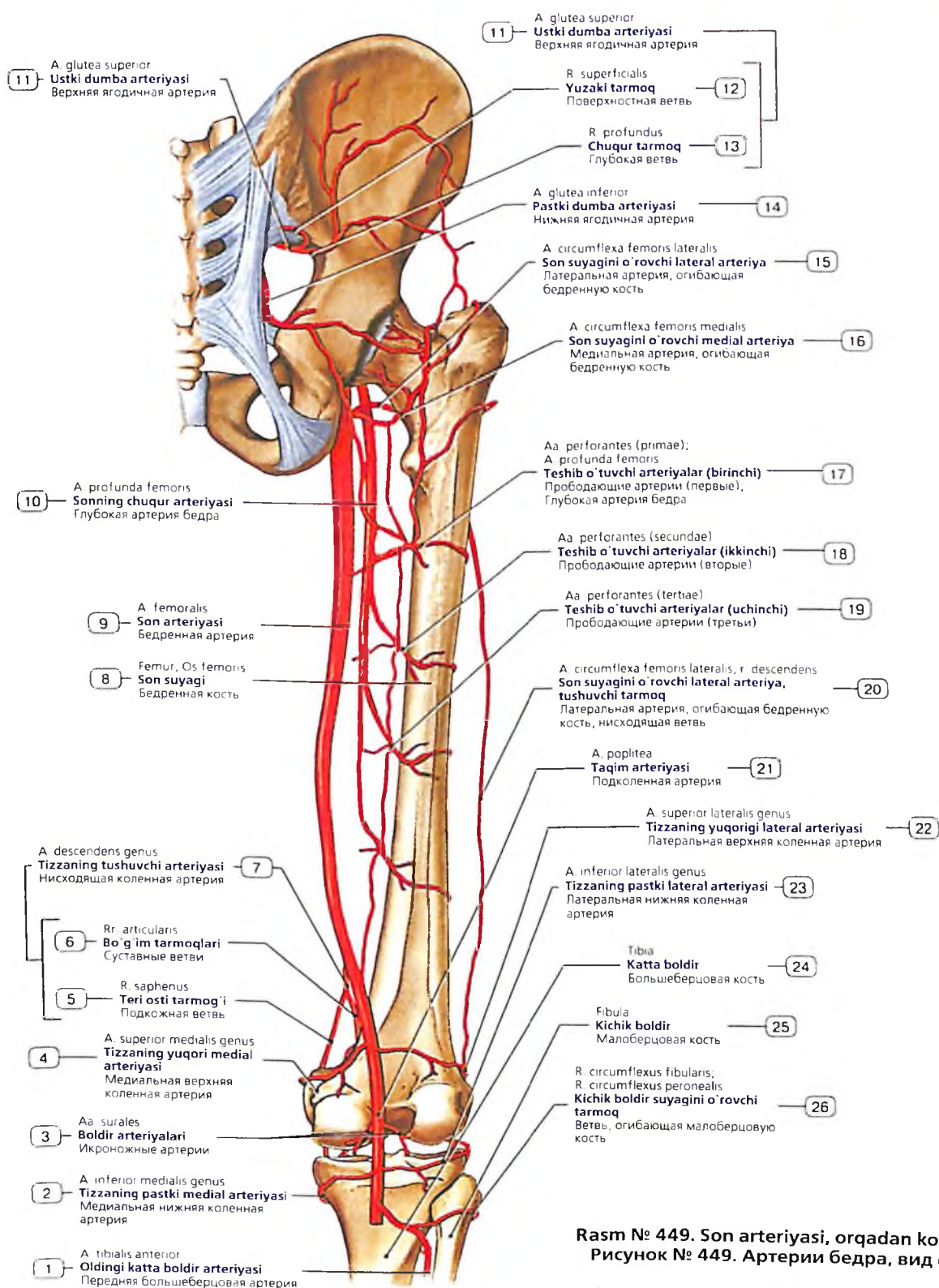
- 1 Patellar anastomosis
- 2 Perforating arteries
- 3 Deep artery of thigh
- 4 Medial circumflex femoral artery
- 5 Lateral circumflex femoral artery
- 6 Lateral circumflex femoral artery, descending branch
- 7 Lateral circumflex femoral artery, transverse branch
- 8 Lateral circumflex femoral artery, ascending branch
- 9 Femoral artery
- 10 Femoral vein

- 11 Inguinal ligament
- 12 Deep circumflex iliac artery
- 13 Lateral cutaneous nerve of thigh
- 14 Common iliac vein
- 15 Common iliac artery
- 16 Ureter
- 17 Femoral nerve
- 18 Internal iliac artery
- 19 Internal iliac vein
- 20 Sacral plexus

- 21 Lateral sacral artery
- 22 External iliac vein
- 23 Medial circumflex femoral artery, transverse branch
- 24 Medial circumflex femoral artery, deep branch
- 25 Adductor canal
- 26 Descending genicular artery
- 27 Superior medial genicular artery
- 28 Descending genicular artery, articular branch
- 29 Inferior medial genicular artery
- 30 Descending genicular artery, saphenous branch

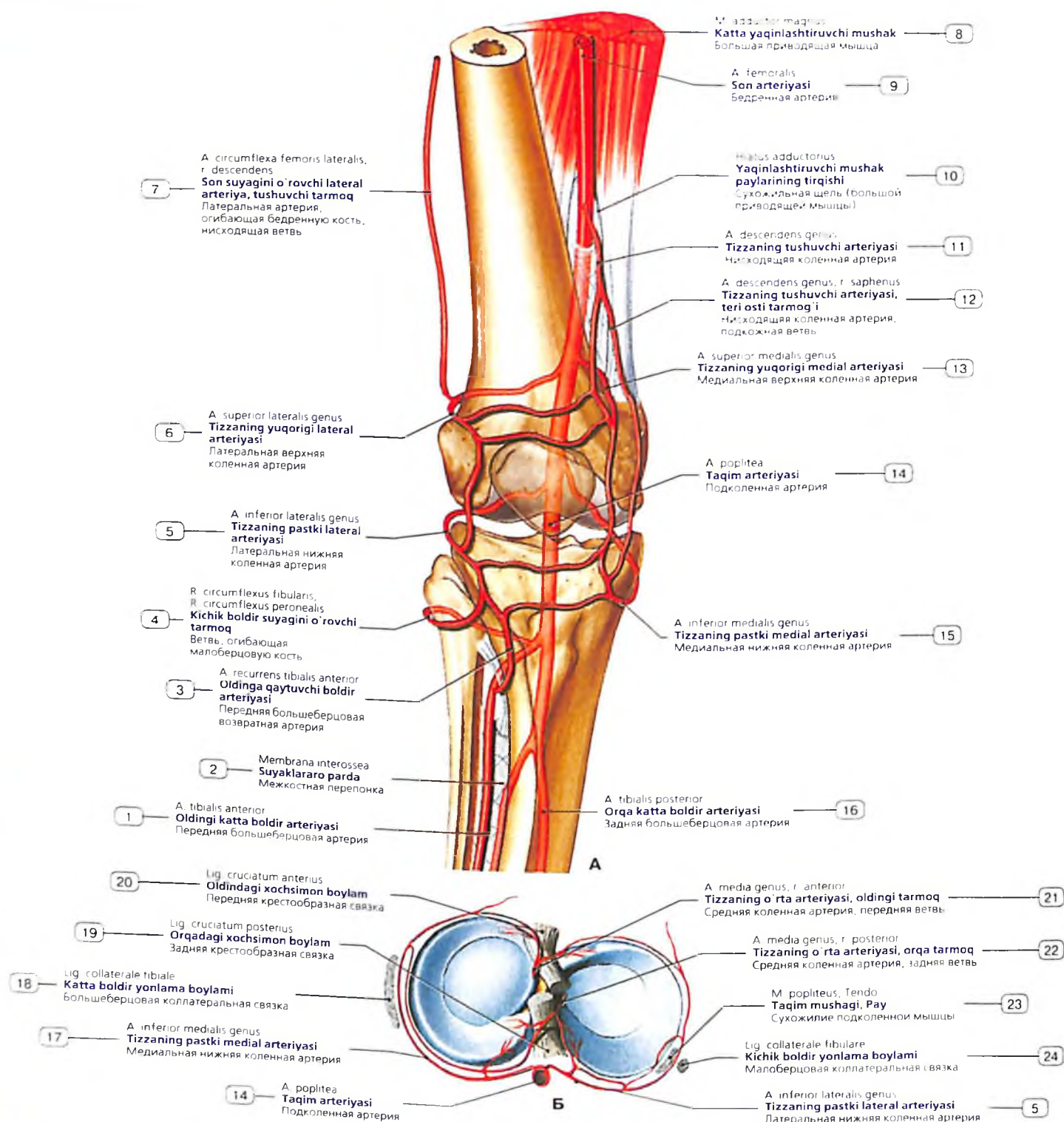


Rasm № 448. Son arteriyasi, orqadan ko'rinishi.
Рисунок № 448. Артерии бедра, вид сзади.



Rasm № 449. Son arteriyasi, orqadan ko'rinishi (chizma).
Рисунок № 449. Артерии бедра, вид сзади (схема).

- | | | |
|------------------------------------|--------------------------------------|--|
| 1 Anterior tibial artery | 11 Superior gluteal artery | 20 Lateral circumflex femoral artery, descending branch |
| 2 Inferior medial genicular artery | 12 Superficial branch | 21 Popliteal artery |
| 3 Sural arteries | 13 Deep branch | 22 Superior lateral genicular artery |
| 4 Superior medial genicular artery | 14 Inferior gluteal artery | 23 Inferior lateral genicular artery |
| 5 Saphenous branch | 15 Lateral circumflex femoral artery | 24 Tibia |
| 6 Articular branches | 16 Medial circumflex femoral artery | 25 Fibula |
| 7 Descending genicular artery | 17 Perforating arteries (first) | 26 Circumflex fibular branch, Circumflex peroneal branch |
| 8 Femur, Thigh bone | 18 Perforating arteries (second) | |
| 9 Femoral artery | 19 Perforating arteries (third) | |
| 10 Deep artery of thigh | | |

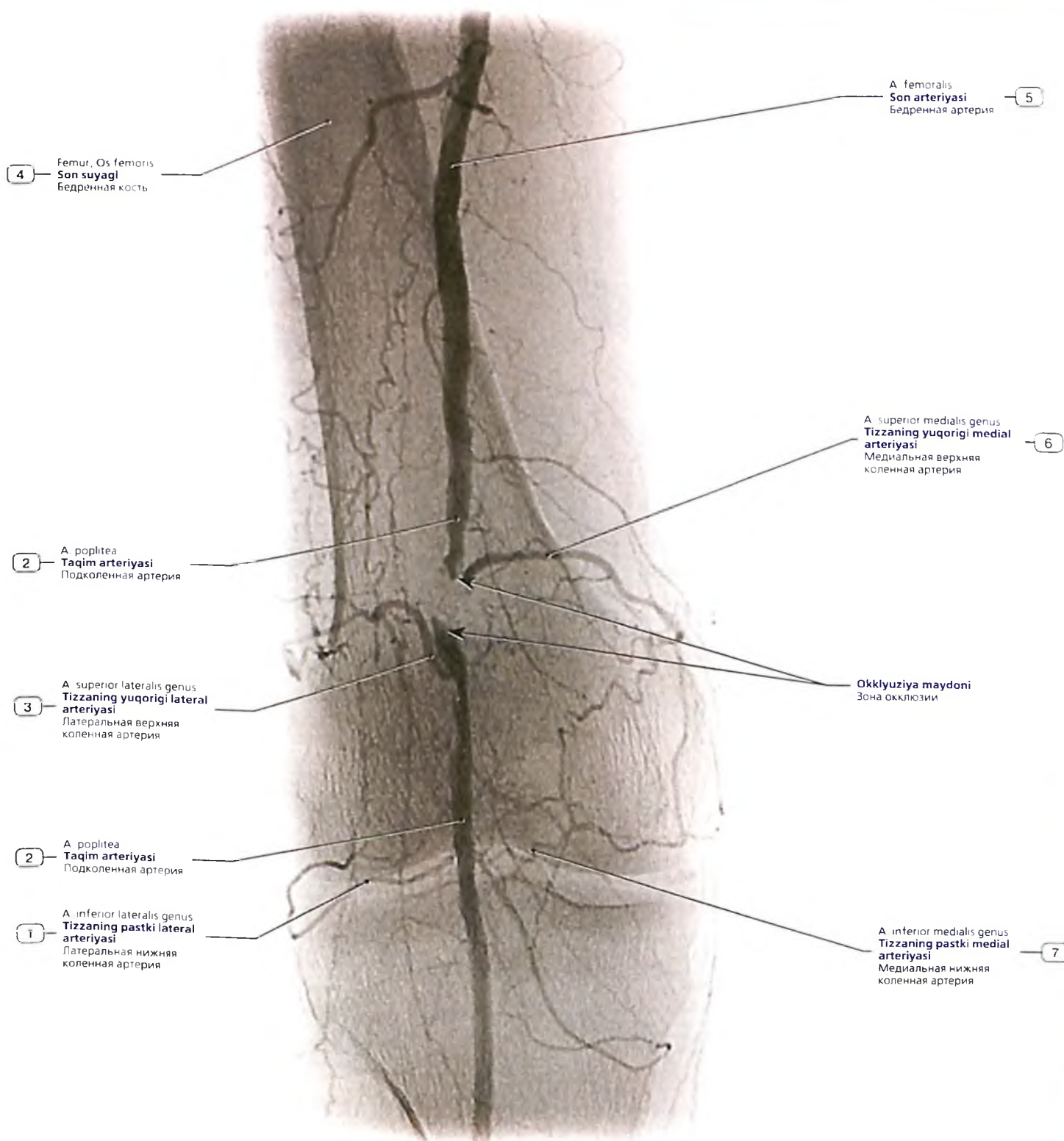


Рисунки № 450. Тизза бо'g'imi arteriyalari (А — umumiy ko'rinishi; Б — katta boldir suyagining yuqorigi epifizi) (chizma).
Рисунок № 450. Артерии коленного сустава (А — общий вид; Б — верхний эпифиз большеберцовой кости) (схема).

1. Anterior tibial artery
2. Interosseous membrane
3. Anterior tibial recurrent artery
4. Circumflex fibular branch, Circumflex peroneal branch
5. Inferior lateral genicular artery
6. Superior lateral genicular artery
7. Lateral circumflex femoral artery, descending branch
8. Adductor magnus

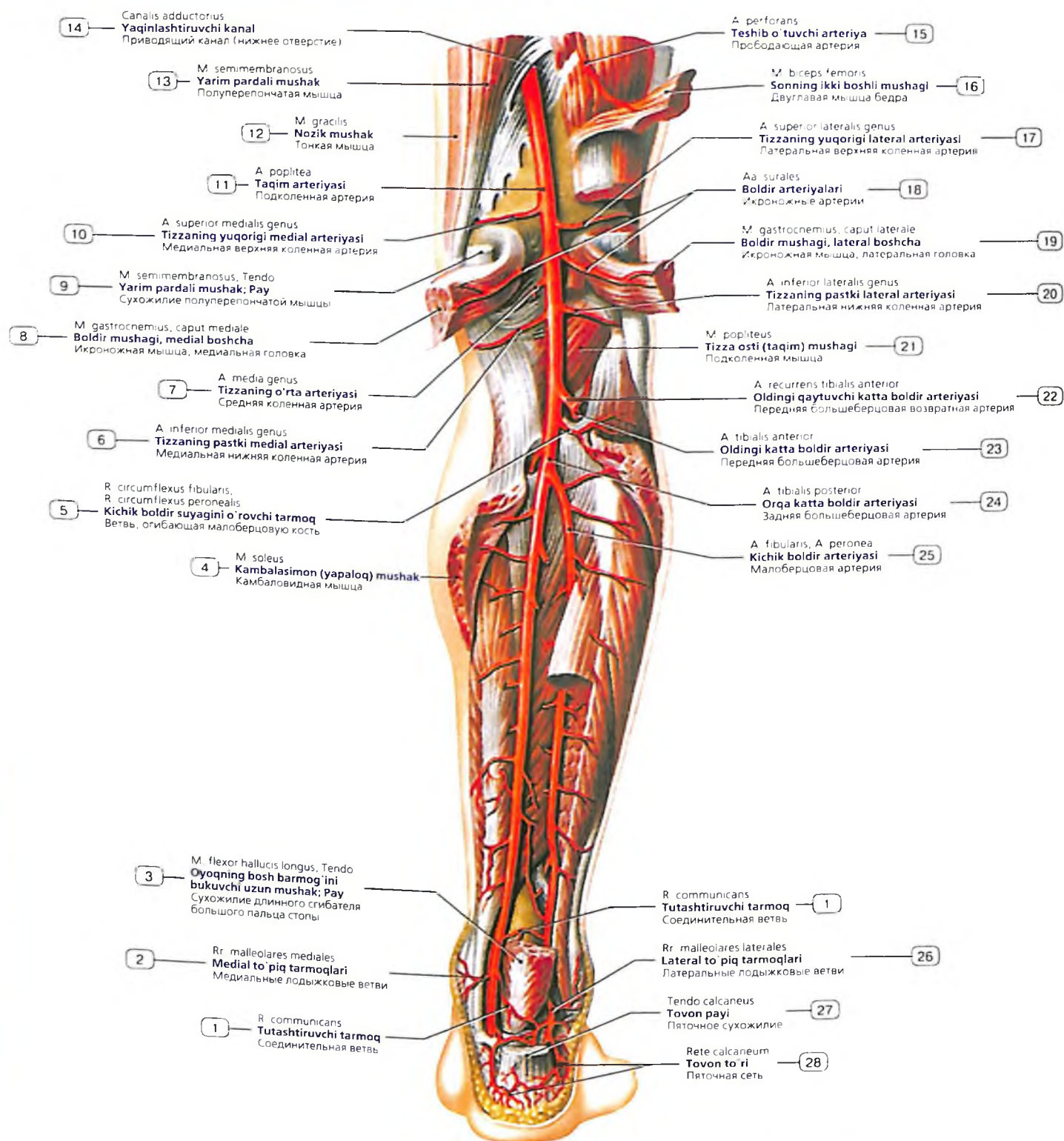
9. Femoral artery
10. Adductor hiatus
11. Descending genicular artery
12. Descending genicular artery, saphenous branch
13. Superior medial genicular artery
14. Popliteal artery
15. Inferior medial genicular artery
16. Posterior tibial artery

17. Inferior medial genicular artery
18. Tibial collateral ligament
19. Posterior cruciate ligament
20. Anterior cruciate ligament
21. Middle genicular artery, anterior branch
22. Middle genicular artery, posterior branch
23. Popliteus, Tendon
24. Fibular collateral ligament



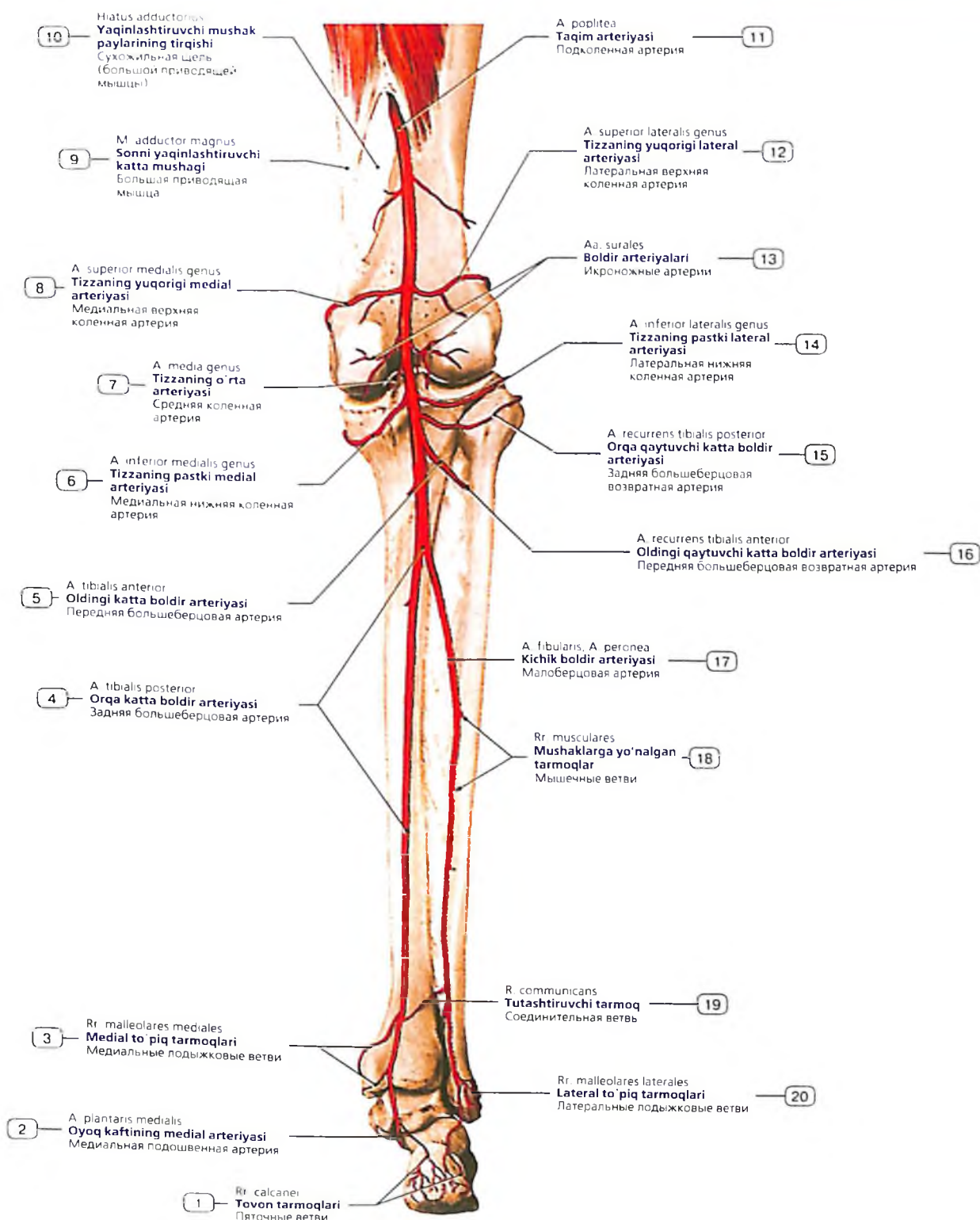
Rasm № 451. Taqim arteriyasi okklyuziyasida tizza tomirlarining angiogrammasi.
Рисунок № 451. Ангиограмма сосудов области колена при окклюзии подколенной артерии.

- | | |
|-------------------------------------|------------------------------------|
| 1 Inferior lateral genicular artery | 5 Femoral artery |
| 2 Popliteal artery | 6 Superior medial genicular artery |
| 3 Superior lateral genicular artery | 7 Inferior medial genicular artery |
| 4 Femur, Thigh bone | |



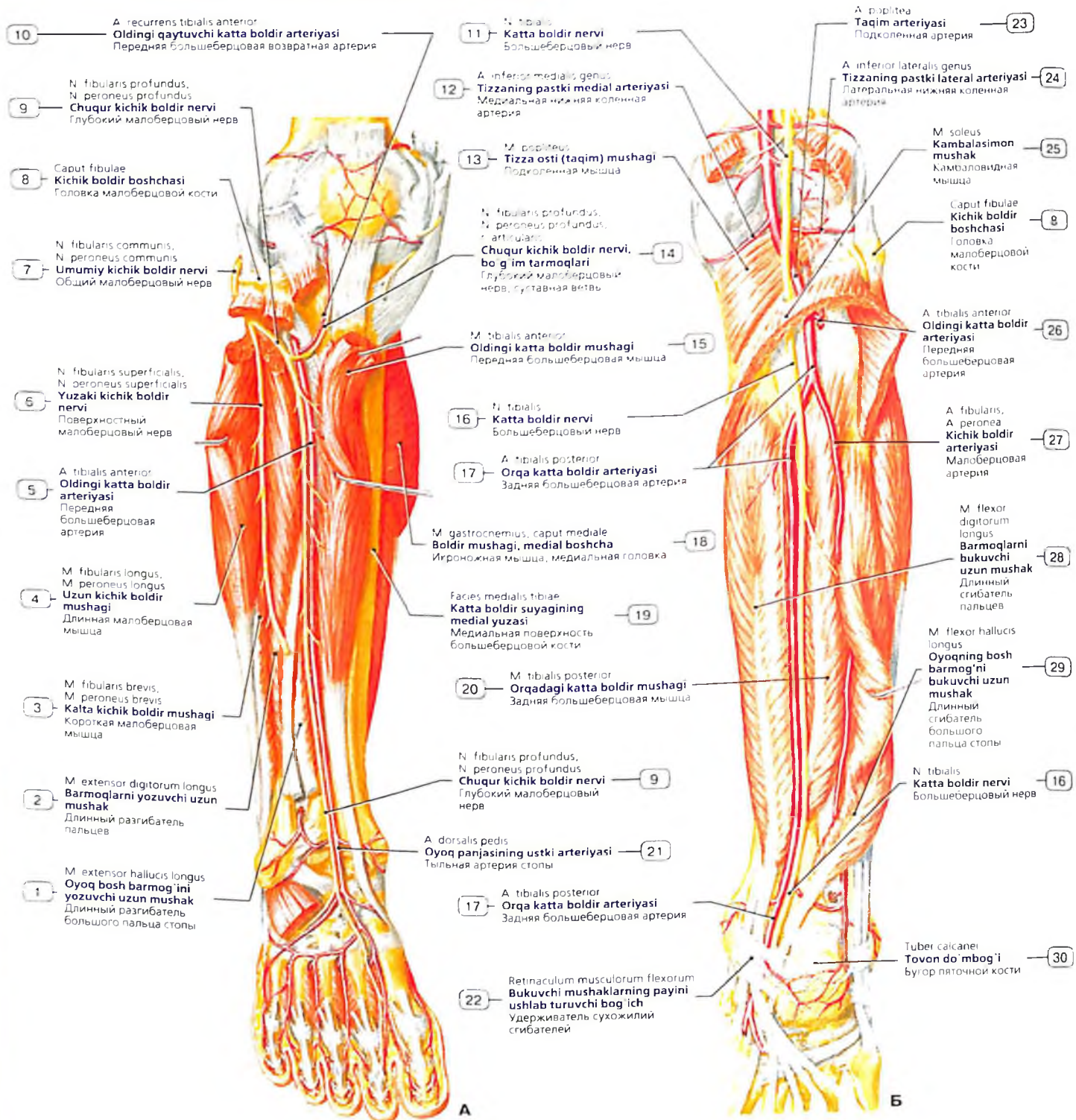
Rasm № 452. Taqim, katta va kichik boldir arteriyalari, orqadan ko'rinishi.
Рисунок № 452. Подколенная, большеберцовая и малоберцовая артерии, вид сзади.

- | | | | | |
|--|-------------------------------------|--------------------------------------|--------------------------------------|-------------------------------|
| 1 Communicating branch | 7 Middle genicular artery | 13 Semimembranosus | 19 Gastrocnemius, lateral head | 26 Lateral malleolar branches |
| 2 Medial malleolar branches | 8 Gastrocnemius, medial head | 14 Adductor canal | 20 Inferior lateral genicular artery | 27 Calcaneal tendon |
| 3 Flexor hallucis longus, Tendon | 9 Semimembranosus, Tendon | 15 Perforating artery | 21 Popliteus | 28 Calcaneal anastomosis |
| 4 Soleus | 10 Superior medial genicular artery | 16 Biceps femoris | 22 Anterior tibial recurrent artery | |
| 5 Circumflex fibular branch,
Circumflex peroneal branch | 11 Popliteal artery | 17 Superior lateral genicular artery | 23 Anterior tibial artery | |
| 6 Inferior medial genicular artery | 12 Gracilis | 18 Sural arteries | 24 Posterior tibial artery | |
| | | | 25 Fibular artery, Peroneal artery | |



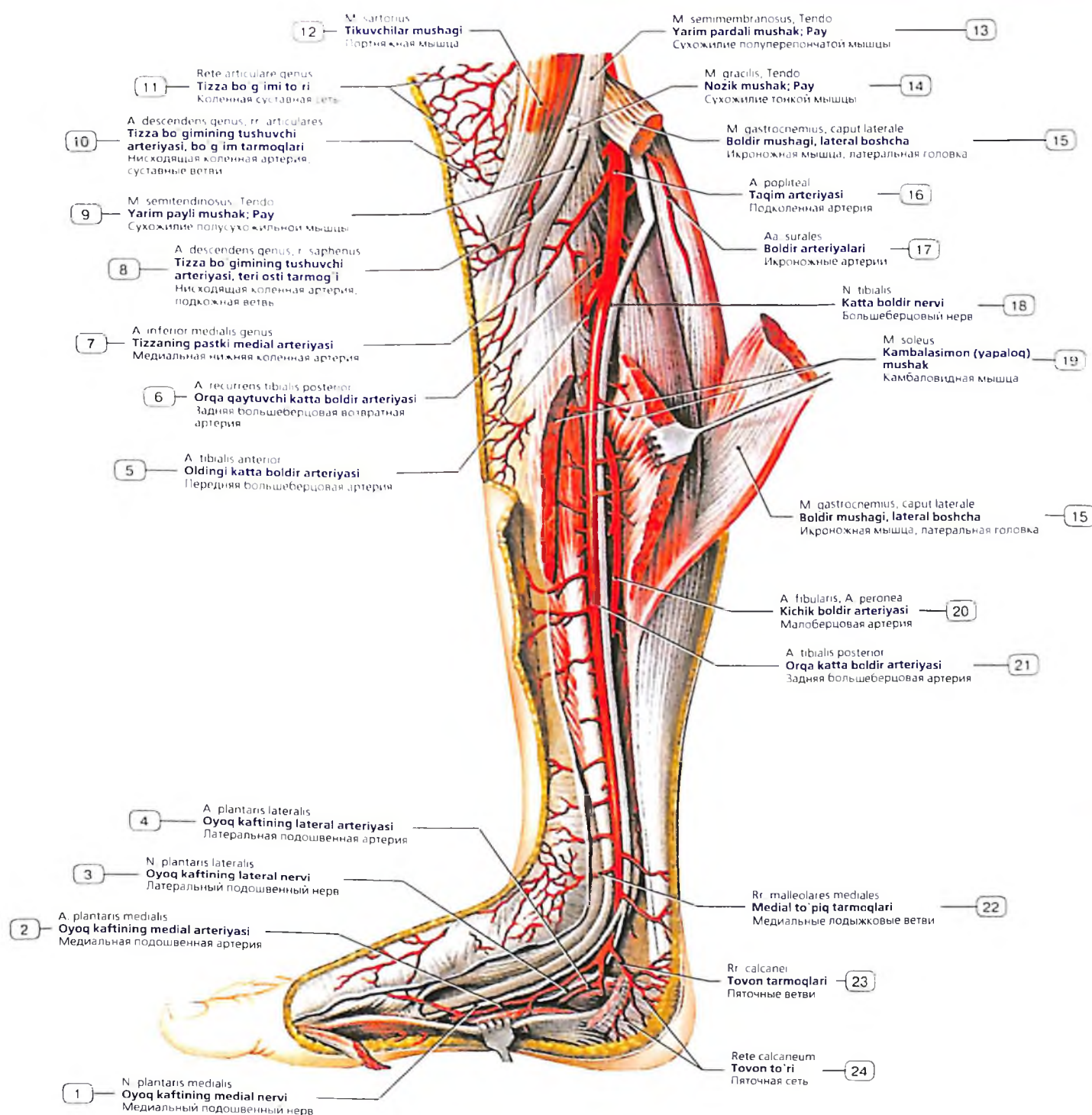
Rasm № 453. Boldir arteriyalari, orqadan ko'rinishi (chizma).
Рисунок № 453. Артерии голени, вид сзади (схема).

- | | | | |
|-----------------------------|------------------------------------|--------------------------------------|-------------------------------------|
| 1 Calcaneal branches | 6 Inferior medial genicular artery | 11 Popliteal artery | 16 Anterior tibial recurrent artery |
| 2 Medial plantar artery | 7 Middle genicular artery | 12 Superior lateral genicular artery | 17 Fibular artery, Peroneal artery |
| 3 Medial malleolar branches | 8 Superior medial genicular artery | 13 Sural arteries | 18 Muscular branches |
| 4 Posterior tibial artery | 9 Adductor magnus | 14 Inferior lateral genicular artery | 19 Communicating branch |
| 5 Anterior tibial artery | 10 Adductor hiatus | 15 Posterior tibial recurrent artery | 20 Lateral malleolar branch |



Рисунки № 454. Артерии голени. А — вид спереди; Б — вид сзади.

- | | | | | |
|-------------------------------------|--|--|---|------------------------------------|
| 1 Extensor hallucis longus | 7 Superficial peroneal nerve | 12 Inferior medial genicular artery | 19 Medial surface of tibia | 26 Anterior tibial artery |
| 2 Extensor digitorum longus | 8 Common peroneal nerve | 13 Popliteus | 20 Tibialis posterior | 27 Fibular artery, Peroneal artery |
| 3 Fibularis brevis, Peroneus brevis | 9 Head of fibula | 14 Deep fibular nerve, Deep peroneal nerve, articular branch | 21 Dorsal pedis artery, Dorsal artery of foot | 28 Flexor digitorum longus |
| 4 Fibularis longus, Peroneus longus | 10 Deep fibular nerve, Deep peroneal nerve | 15 Tibialis anterior | 22 Flexor retinaculum | 29 Flexor hallucis longus |
| 5 Anterior tibial artery | 11 Anterior tibial recurrent artery | 16 Tibialis posterior | 23 Popliteal artery | 30 Calcaneal tuberosity |
| 6 Superficial fibular nerve | 12 Tibial nerve | 17 Posterior tibial artery | 24 Inferior lateral genicular artery | |
| | | 18 Gastrocnemius, medial head | 25 Soleus | |



Rasm № 455. Katta boldir arteriyasi, medial tomondan ko'rinishi.
Рисунок № 455. Большеберцовая артерия, вид с медиальной стороны.

- | | | | |
|-------------------------------------|--|--------------------------------|------------------------------------|
| 1 Medial plantar nerve | 8 Descending genicular artery, saphenous branch | 13 Semimembranosus, Tendon | 20 Fibular artery, Peroneal artery |
| 2 Medial plantar artery | 9 Semitendinosus, Tendon | 14 Gracilis, Tendon | 21 Posterior tibial artery |
| 3 Lateral plantar nerve | 10 Descending genicular artery, articular branches | 15 Gastrocnemius, lateral head | 22 Medial malleolar branches |
| 4 Lateral plantar artery | 11 Genicular anastomosis | 16 Popliteal artery | 23 Calcaneal branches |
| 5 Anterior tibial artery | 12 Sartorius | 17 Sural arteries | 24 Calcaneal anastomosis |
| 6 Posterior tibial recurrent artery | | 18 Tibial nerve | |
| 7 Inferior medial genicular artery | | 19 Soleus | |

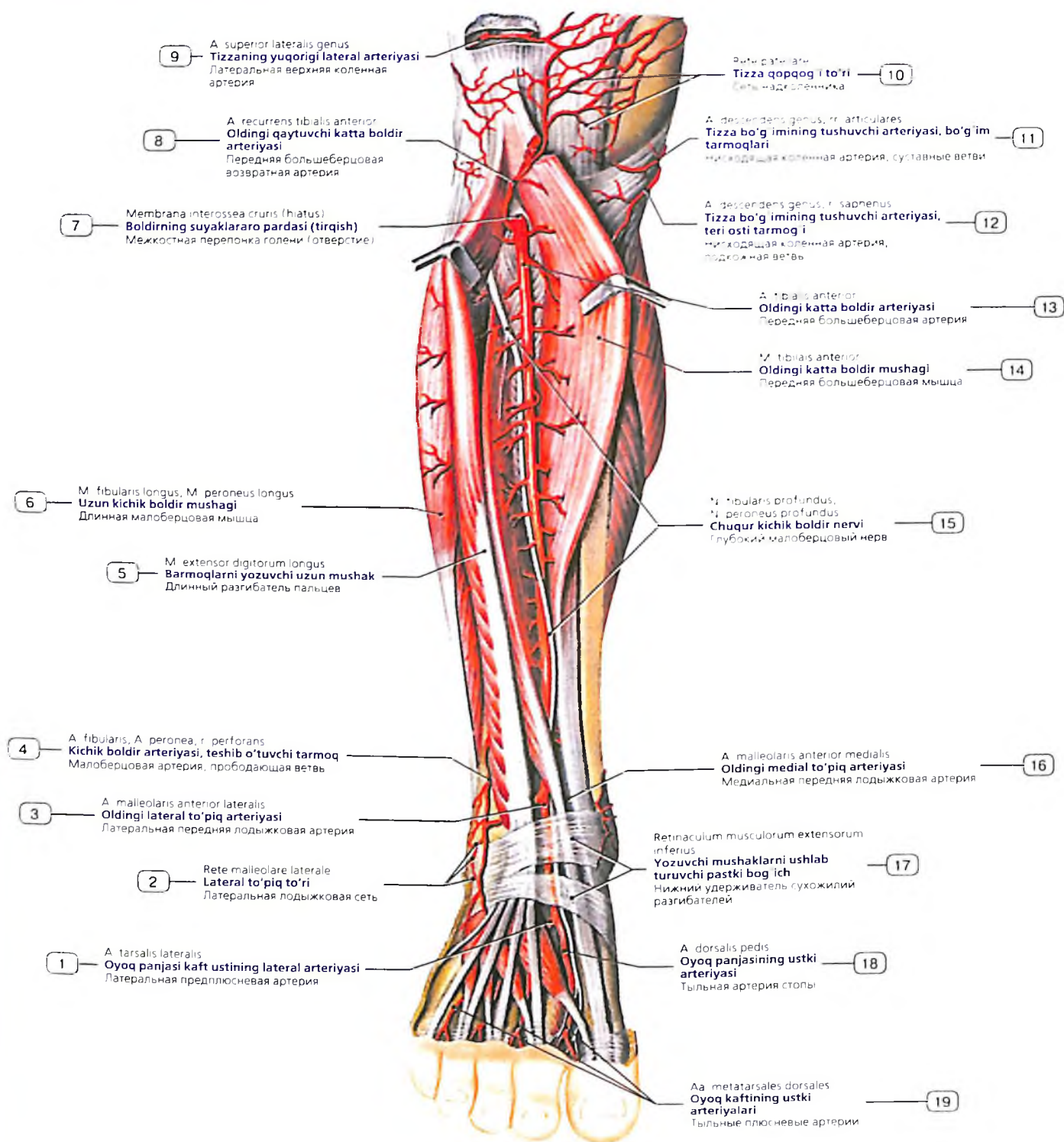
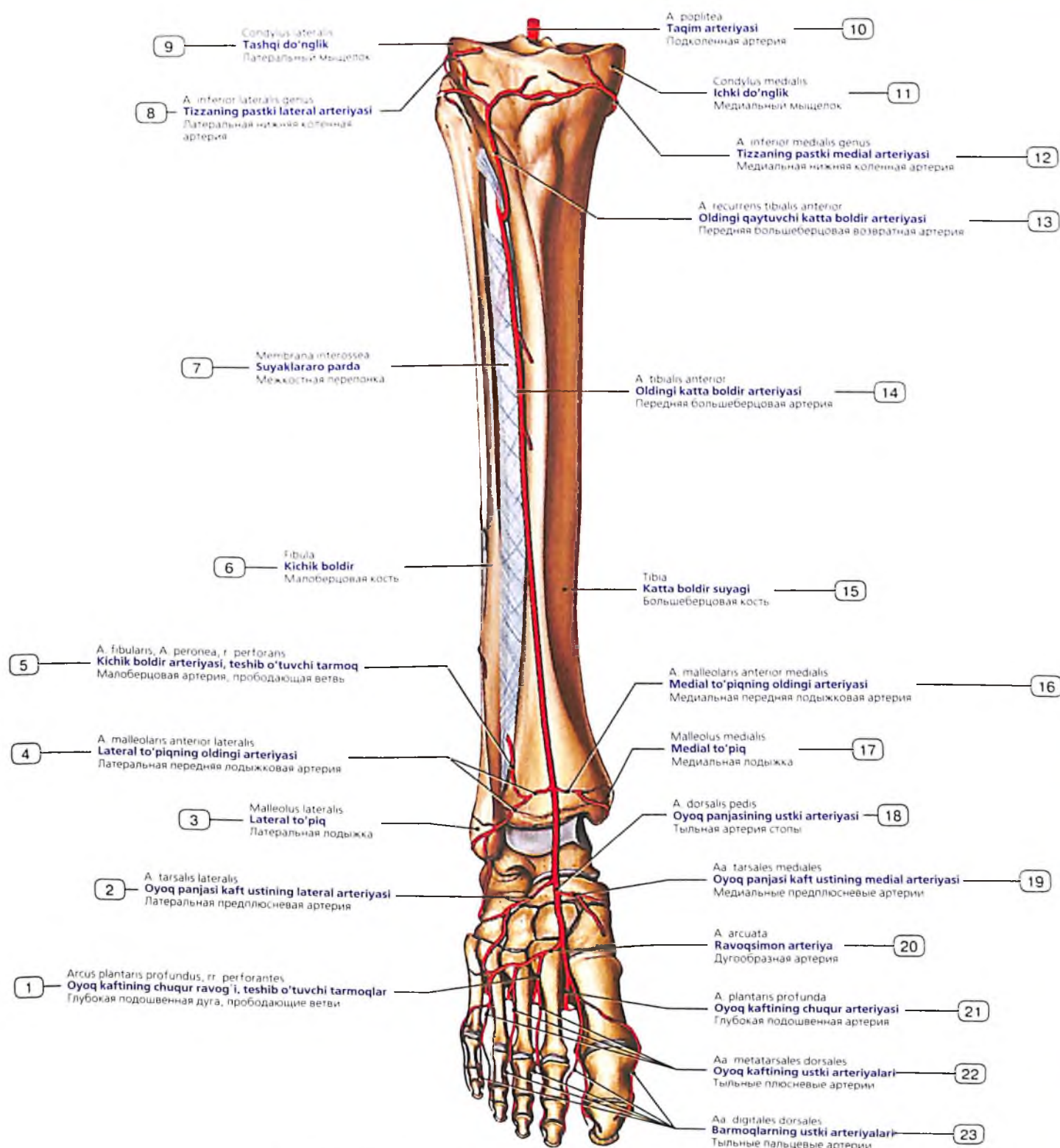


Рис. № 456. Большая берцовая артерия, вид спереди.
Рисунок № 456. Большеберцовая артерия, вид спереди.

- | | | | |
|--|--|---|--|
| 1. lateral tarsal artery | 5. Extensor digitorum longus | 11. Descending genicular artery, articular branches | 15. Deep fibular nerve, Deep peroneal nerve |
| 2. lateral malleolar network | 6. Fibularis longus, Peroneus longus | 12. Descending genicular artery, saphenous branch | 16. Anterior medial malleolar artery |
| 3. Anterior lateral malleolar artery | 7. Interosseous membrane of leg (hiatus) | 13. Anterior tibial artery | 17. Inferior extensor retinaculum |
| 4. Fibular artery, Peroneal artery, perforating branch | 8. Anterior tibial recurrent artery | 14. Tibialis anterior | 18. Dorsalis pedis artery, Dorsal artery of foot |
| | 9. Superior lateral genicular artery | | 19. Dorsal metatarsal arteries |
| | 10. Patellar anastomosis | | |



Rasm № 457. Katta boldir arteriyasi, oldindan ko'inishi (chizma).
Рисунок № 457. Большеберцовая артерия, вид спереди (схема).

- | | | | | |
|---|---|-------------------------------------|---|-------------------------------|
| 1 Deep plantar arch, perforating branches | 5 Fibular artery, Peroneal artery, perforating branch | 10 Popliteal artery | 16 Anterior medial malleolar artery | 21 Deep plantar artery |
| 2 Lateral tarsal artery | 6 Fibula | 11 Medial condyle | 17 Medial malleolus | 22 Dorsal metatarsal arteries |
| 3 Lateral malleolus | 7 Interosseous membrane | 12 Inferior medial genicular artery | 18 Dorsalis pedis artery, Dorsal artery of foot | 23 Dorsal digital arteries |
| 4 Anterior lateral malleolar artery | 8 Inferior lateral genicular artery | 13 Anterior tibial recurrent artery | 19 Medial tarsal arteries | |
| | 9 Lateral condyle | 14 Anterior tibial artery | 20 Arcuate artery | |

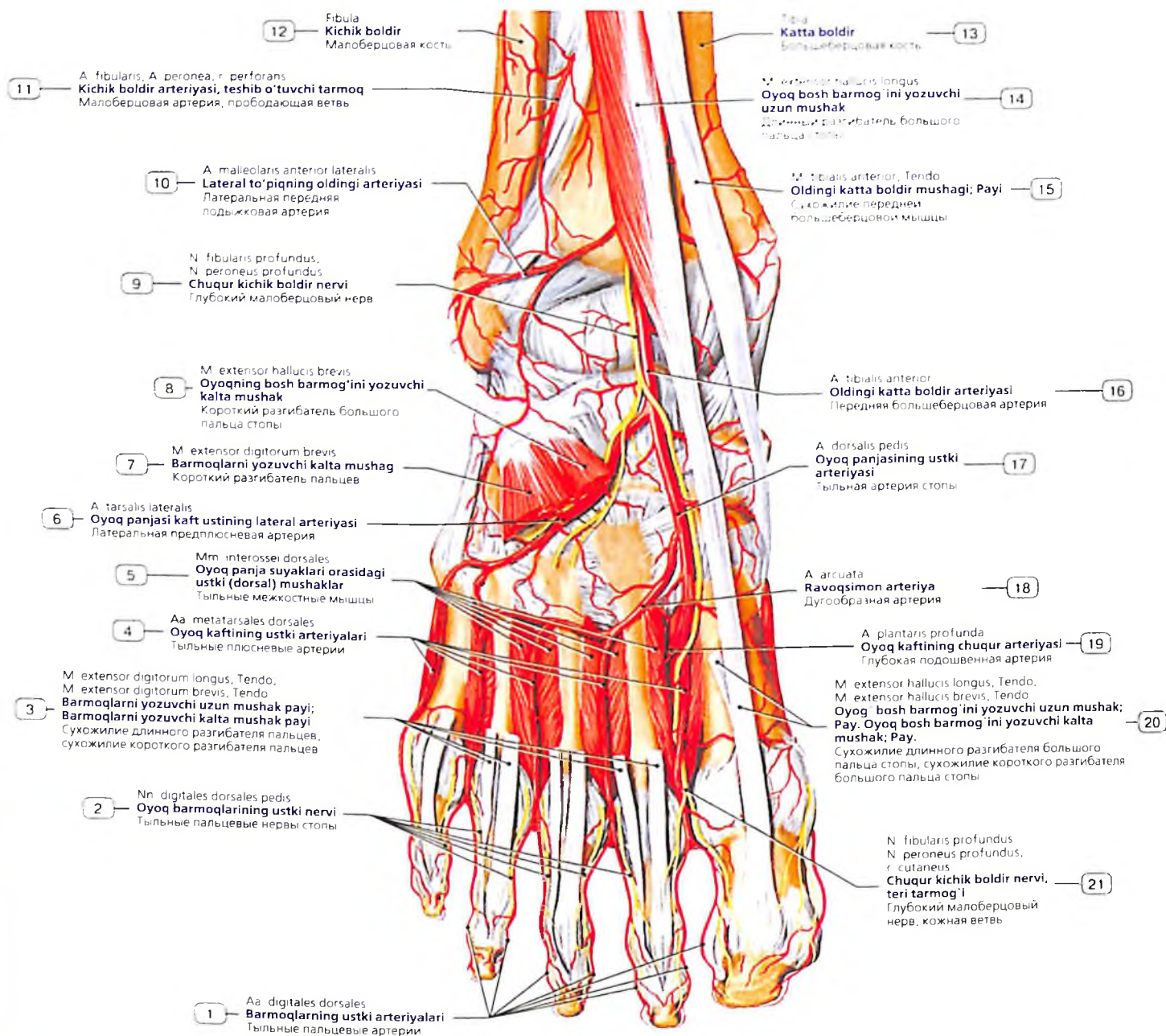
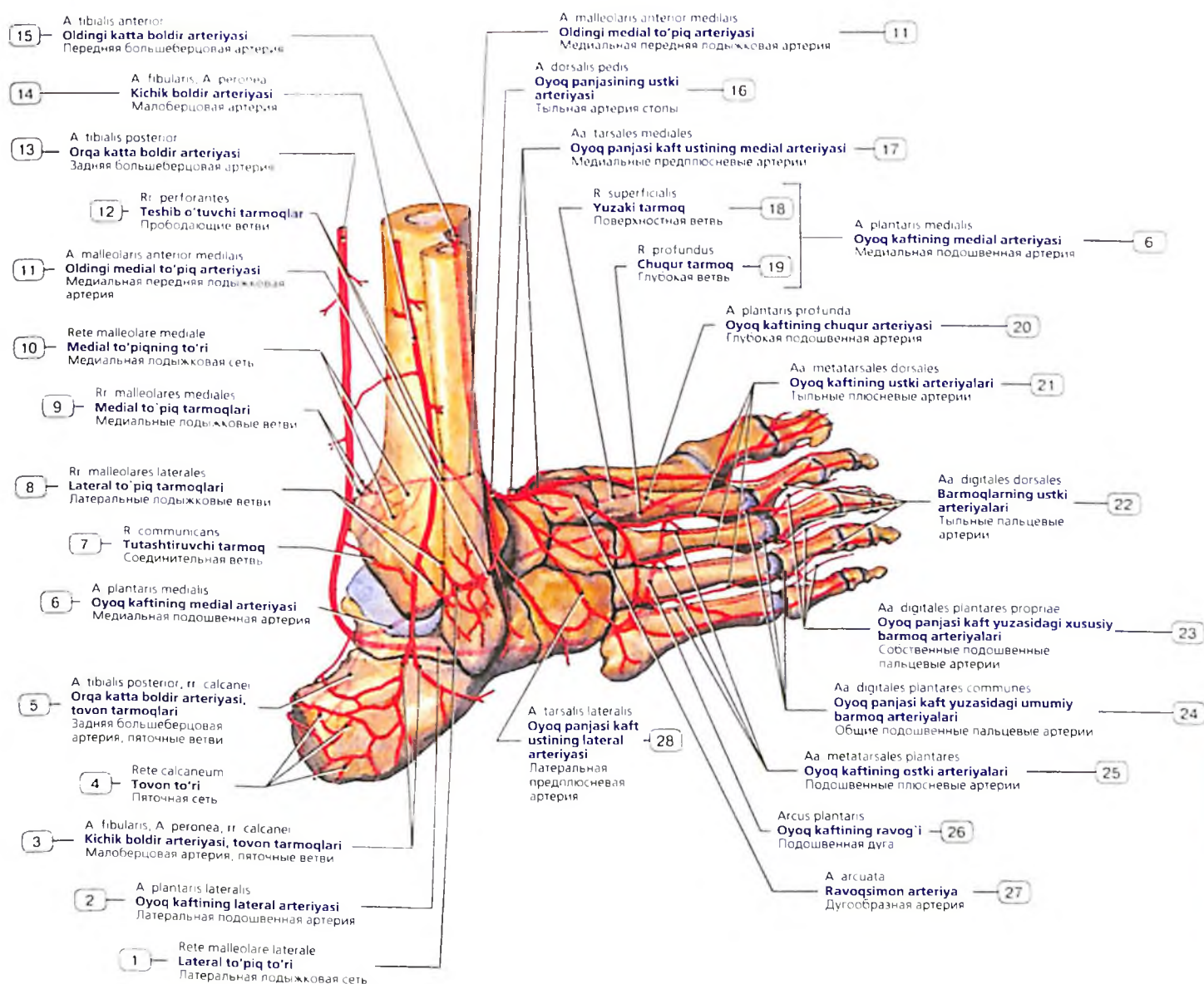


Рис. № 458. Отоқ панжасининг устки артериалари.
Рисунок № 458. Артерии тыла стопы.

- | | | |
|--|--|---|
| 1 Dorsal digital arteries | 8 Extensor hallucis brevis | 16 Anterior tibial artery |
| 2 Dorsal digital nerves of foot | 9 Deep fibular nerve, Deep peroneal nerve | 17 Dorsalis pedis artery, Dorsal artery of foot |
| 3 Extensor digitorum longus, Tendon, Extensor digitorum brevis, Tendon | 10 Anterior lateral malleolar artery | 18 Arcuate artery |
| 4 Dorsal metatarsal arteries | 11 Fibular artery, Peroneal artery, perforating branch | 19 Deep plantar artery |
| 5 Dorsal interosseal | 12 Fibula | 20 Extensor hallucis longus, Tendon, Extensor hallucis brevis, Tendon |
| 6 Lateral tarsal artery | 13 Tibia | 21 Deep fibular nerve, Deep peroneal nerve, cutaneous branch |
| 7 Extensor digitorum brevis | 14 Extensor hallucis longus | |
| | 15 Tibialis anterior, Tendon | |



Rasm № 459. Oyoq panjasining ustki arteriyasi, yon tomondan ko'rinishi (chizma).
Рисунок № 459. Артерии тыла стопы, вид с латеральной стороны (схема).

- | | | | |
|---|-------------------------------------|---|------------------------------------|
| 1 Lateral malleolar network | 7 Communicating branch | 15 Anterior tibial artery | 22 Dorsal digital arteries |
| 2 Lateral plantar artery | 8 Lateral malleolar branches | 16 Dorsalis pedis artery, Dorsal artery of foot | 23 Plantar digital arteries proper |
| 3 Fibular artery, Peroneal artery, calcaneal branches | 9 Medial malleolar branches | 17 Medial tarsal arteries | 24 Common plantar digital arteries |
| 4 Calcaneal anastomosis | 10 Medial malleolar network | 18 Superficial branch | 25 Plantar metatarsal arteries |
| 5 Posterior tibial artery, calcaneal branches | 11 Anterior medial malleolar artery | 19 Deep branch | 26 Plantar arch |
| 6 = 18 + 19 Medial plantar artery | 12 Perforating branches | 20 Deep plantar artery | 27 Arcuate artery |
| | 13 Posterior tibial artery | 21 Dorsal metatarsal arteries | 28 Lateral tarsal artery |
| | 14 Fibular artery, Peroneal artery | | |

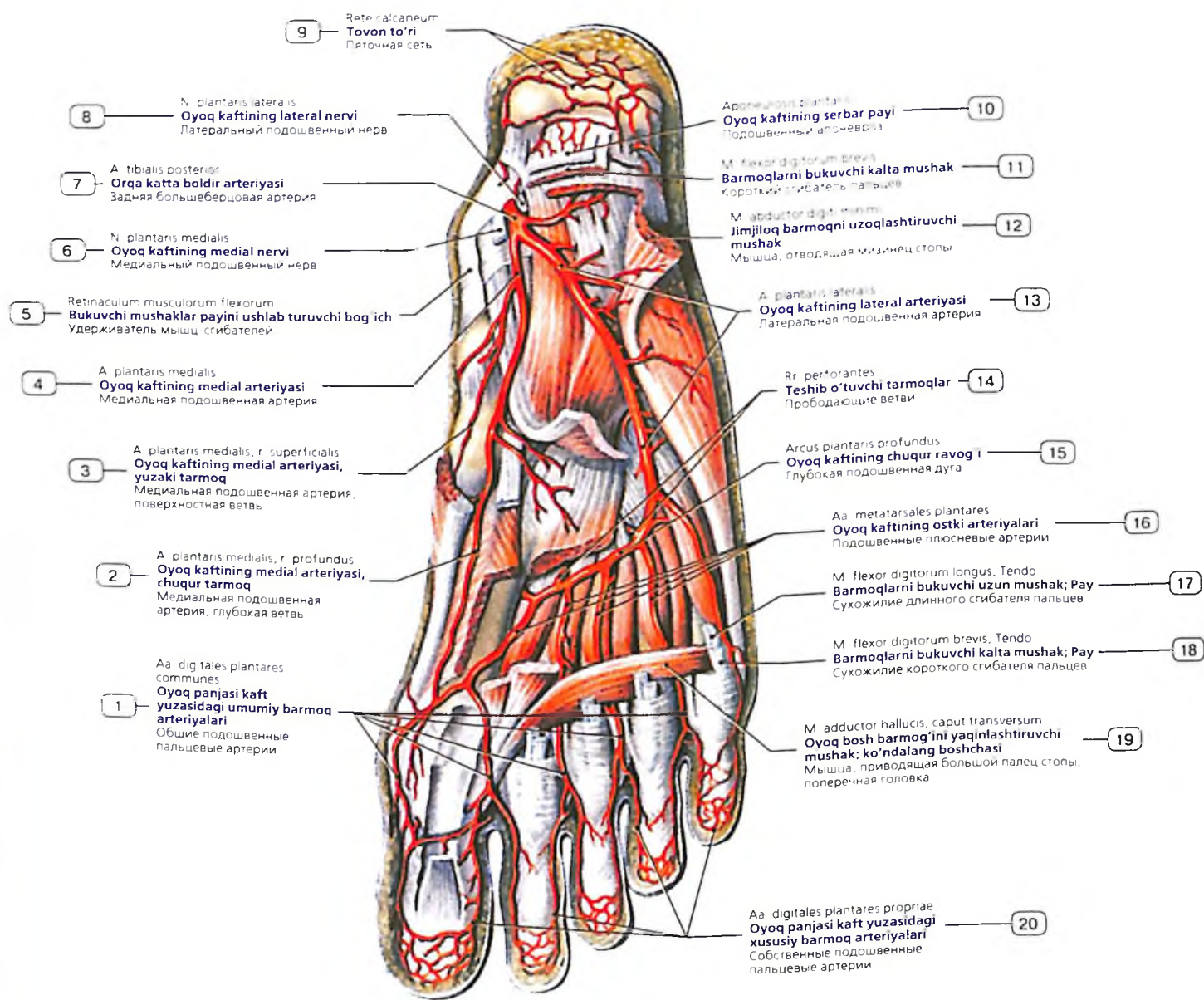
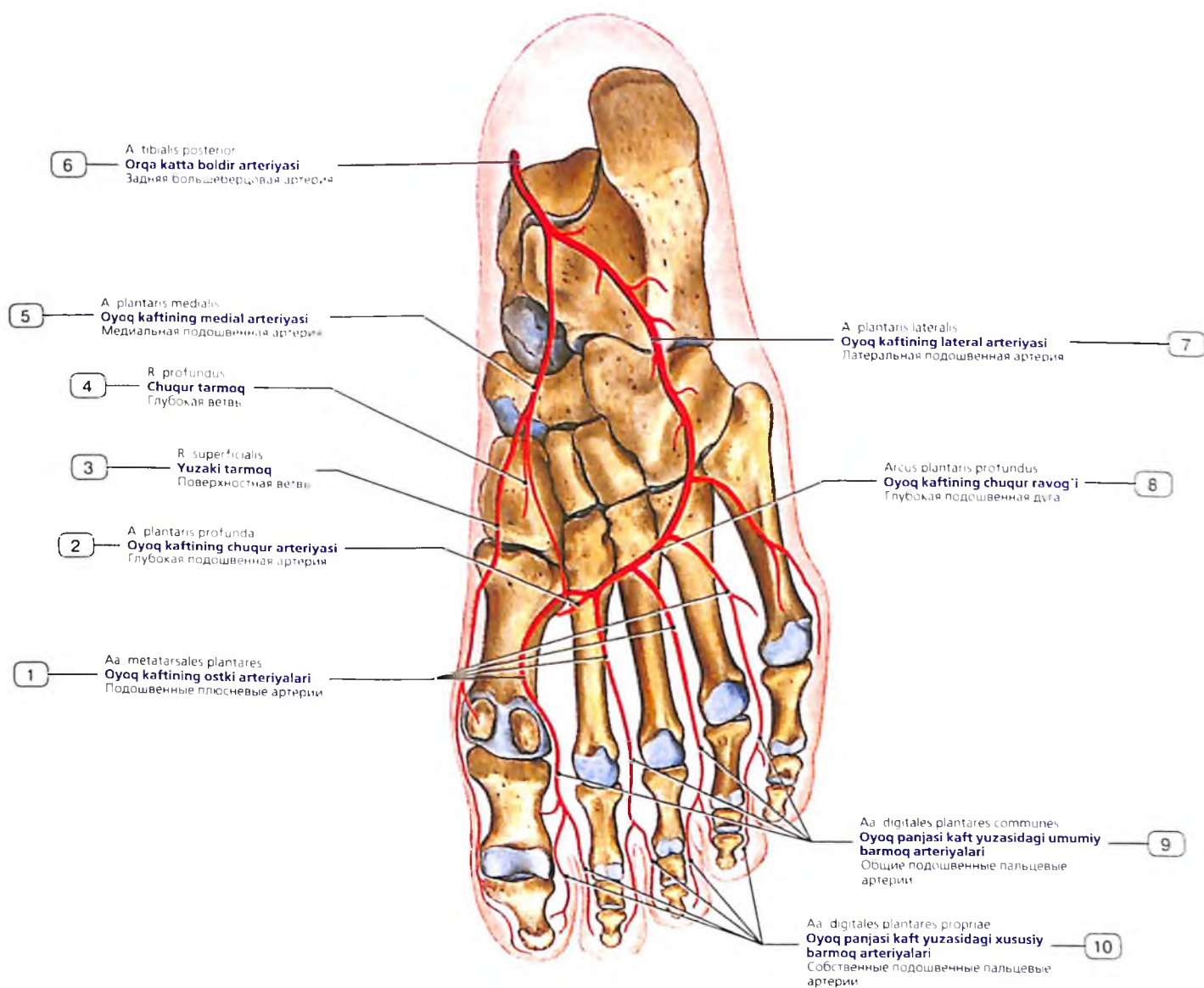


Рис. № 460. Подошвенные артерии стопы, вид снизу.
Rasm № 460. Oyoq kaftining arteriyalari, pastdan ko'rinishi.
Рисунок № 460. Артерии подошвы стопы, вид снизу.

- | | | |
|---|----------------------------|---------------------------------------|
| 1 Common plantar digital arteries | 8 Lateral plantar nerve | 15 Deep plantar arch |
| 2 Medial plantar artery, deep branch | 9 Calcaneal anastomosis | 16 Plantar metatarsal arteries |
| 3 Medial plantar artery, superficial branch | 10 Plantar aponeurosis | 17 Flexor digitorum longus, Tendon |
| 4 Medial plantar artery | 11 Flexor digitorum brevis | 18 Flexor digitorum brevis, Tendon |
| 5 Flexor retinaculum | 12 Abductor digiti minimi | 19 Adductor hallucis, transverse head |
| 6 Medial plantar nerve | 13 Lateral plantar artery | 20 Plantar digital arteries proper |
| 7 Posterior tibial artery | 14 Perforating branches | |



Rasm № 461. Oyoq kaftining arteriyalari, pastdan ko'rinishi (chizma).
Рисунок № 461. Артерии подошвы стопы, вид снизу (схема).

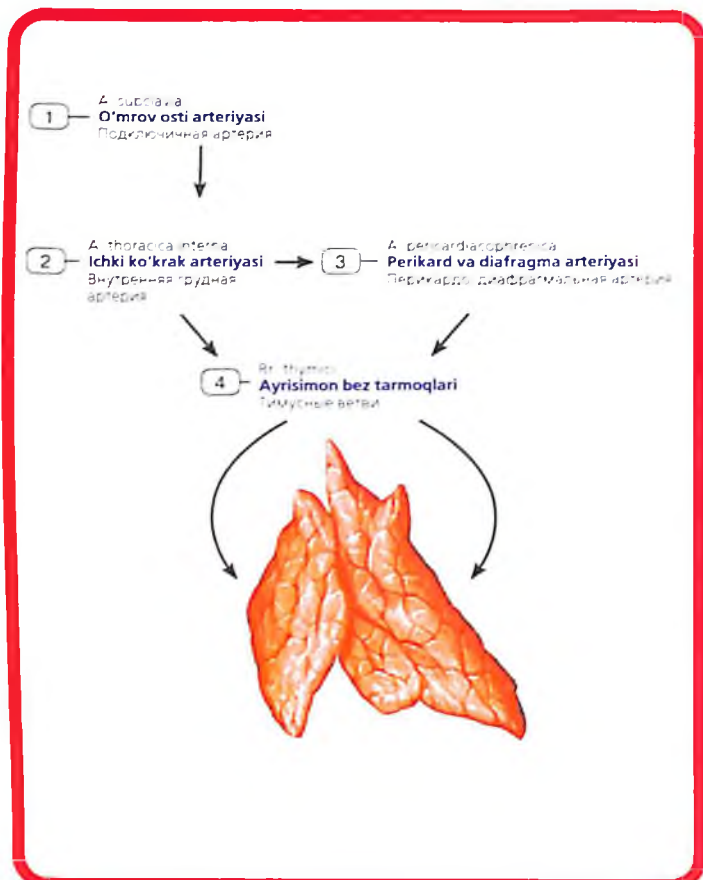
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|-------------------------------|------------------------------------|
| 1 Plantar metatarsal arteries | 6 Posterior tibial artery |
| 2 Deep plantar artery | 7 Lateral plantar artery |
| 3 Superficial branch | 8 Deep plantar arch |
| 4 Deep branch | 9 Common plantar digital arteries |
| 5 Medial plantar artery | 10 Plantar digital arteries proper |

34 – jadval. Yirik arterial anastomozlar

Anastomozlashuvchi yirik arteriyalar	Anastomoz hosil qiluvchi arteriyalar		Anastomoz hosil bo'lgan soha
Bosh va bo'yin arteriyalari orasidagi anastomozlar			
O'mrov osti va tashqi uyqu arteriyalari	Pastki qalqonsimon arteriya	Yuqori qalqonsimon arteriya	Qalqonsimon bez yuzasi va ichida
O'mrov osti va ichki uyqu arteriyalari	Bazilyar arteriyaning miya orqa arteriyasi	Orqa qo'shuvchi arteriya (ichki uyqu arteriyasi tarmog'i)	Bosh miya asosida
Tashqi va ichki uyqu arteriyalari	Ko'z burchagiga yo'naluvchi arteriya (yuz arteriyasi-tashqi uyqu arteriyasi tarmog'i)	Burunning orqa arteriyasi (ko'z arteriyasi tarmog'i-ichki uyqu arteriyasidan tarmoqlanadi)	Ko'zning medial burchagida
Ko'krak va qorin arteriyalari orasidagi anastomozlar			
Ko'krak va qorin aortasi	Qizilo'ngachga yo'naluvchi tarmoqlar(ko'krak aortasidan chiqadi)	Oshqozonning chap arteriyasi(qorin poyasidan)	Oshqozonning kardial qismida joylashgan
Ko'krak aortasi va o'mrov osti arteriyasi	Orqa miya tarmog'i (orqa tarmoqlar -orqa qovurg'alararo arteriya tarmog'i ko'krak aortasidan chiqadi.)	Orqa miyaning oldinga va orqaga yo'naluvchi tarmoqlari (umurtqa arteriyasi tarmoqlari va bo'yinning ko'ta riluvchi va chuqur arteriyalarining orqa miya tarmoqlari - o'mrov osti arteriyasidan chiqadi)	Orqa miyaning bo'yin qismi old yuzasida joylashgan
O'mrov osti va tashqi yonbosh arteriyalari	Qorin devorining ustki arteriyasi (o'mrov osti arteriyasi tarmog'i)	Qorin devorining pastki arteriyasi (tashqi yonbosh arteriya tarmog'i)	Qorinning old devori qatlamida
Qorin poyasi va ustki ichak tutqich arteriyasi	Ustki oldingi va orqa oshqozon osti bezi -12 barmoq ichak arteriyasi-qorin poyasi tarmog'i	Pastki oshqozon osti bezi 12barmoqli ichak arteriyasi (ustki ichak tutqich arteriyasi tarmog'i)	Oshqozon osti bezi yuzasi va chuqur qatlamida,12 barmoqli ichak devorida
Yuqori va pastki ichak tutqich arteriyalari	Chambar ichakning o'rta arteriyasi (yuqori tutqich arteriyasi tarmog'i)	Chambar ichakning chap arteriyasi (pastki tutqich arteriyasi tarmog'i)	Ko'ndalang chamber ichak tutqichida (Riolan ravog'i)
Pastki tutqich va ichki yonbosh arteriyalari	To'g'ri ichakning ustki arteriyasi (pastki tutqich arteriya tarmog'i)	To'g'ri ichakning o'rta va pastki arteriyalari (ichki yonbosh arteriya tarmog'i)	To'g'ri ichak devorida
Qorin aortasi va ichki yonbosh arteriyasi	Tuxumdon arteriyasi (qorin aortasi tarmog'i)	Bachadon arteriyasi (ichki yonbosh arteriyasi tarmog'i)	Bachadonning yon devorida
Yelka kamari arteriyalari va qo'l arteriyalari orasidagi anastomozlar			
O'mrov osti va qo'ltiq osti arteriyalari	Kurak usti arteriyasi - qalqonsimon-bo'yin poyasi tarmog'i (o'mrov osti arteriyasi)	Kurakni o'rovchi arteriya (kurak osti arteriyasi), ko'krak - kurak o'sig'i arteriyasi-qo'ltiq osti arteriyasi tarmog'i	Kurakning orqa yuzasi chuqur mushak qavatida acromion o'sig'i sohasida

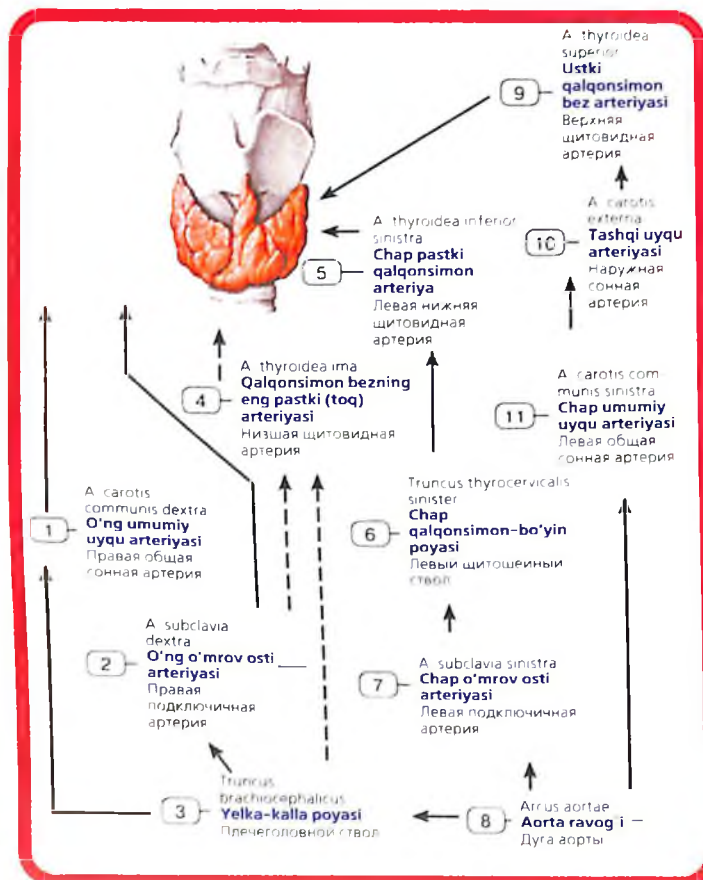
34 jadval yakuni

Anastomozlashuvchi yirik arteriyalar	Anastomoz hosil qiluvchi arteriyalar		Anastomoz hosil bo'lgan soha
Yelka va bilak arteriyalari	Bilak tarafdagi yonlama arteriya (yelkaning chuqur arteriyasi tarmog'i yelka arteriyasidan chiqadi)	Bilakning qaytuvchi arteriyasi (bilak arteriyasi tarmog'i)	Tirsak bo'g'imi atrofida (tirsak bo'g'imi to'ri)
Yelka va tirsak arteriyalari	Tirsak tarafdagi yuqori, o'rta, pastki yonlama arteriyalar yelka arteriyasi tarmog'i	Suyaklar oralig'ining qaytuvchi arteriyasining oldingi va orqa shoxlari (tirsak arteriyasi tarmog'i)	Tirsak bo'g'imi sohasida (tirsak bo'g'imi to'ri)
Bilak va tirsak arteriyalari	Orqa sohadagi kaft usti tarmog'i (bilak arteriyasi tarmog'i)	Oldingi va orqa suyaklararo arteriyalar (tirsak arteriyasi tarmoqlari)	Kaft usti orqa soxasida
Chanoq va oyoq arteriyalari orasidagi anastomozlar			
Tashqi va ichki yonbosh arteriyalari	Yonbosh suyagini o'rovchi chuqur arteriya (tashqi yonbosh arteriya tarmog'i)	Yonbosh-bel arteriyasi (ichki yonbosh arteriya tarmog'i)	Qorin bo'shlig'i lateral devorining ichki qatlamida
Tashqi va ichki yonbosh arteriyalari	Yopqich tarmog'i (qorin devori pastki arteriyasining qov tarmog'i tashqi yonbosh arteriyasidan chiqadi)	Qov tarmog'i (yopqich arteriyasi ichki yonbosh arteriyasidan chiqadi)	Qov suyagining ustki shoxi orqa yuzasida («o'lim toji»)
Ichki yonbosh va son arteriyalari	Ustki va pastki dumba arteriyalari (ichki yonbosh arteriyasi tarmoqlari)	Son suyagini o'rovchi medial va lateral arteriyalari (son arteriyasi tarmog'i)	Chanoq- son bo'g'imi sohasida
Son va taqim arteriyalari	Teshib o'tuvchi arteriyalar (sonning chuqur arteriyasi tarmog'i), tizza bo'g'imining tushuvchi arteriyasi (son arteriyasi tarmog'i)	Tizzaning yuqori medial va lateral, tizzaning pastki medial va lateral arteriyalari (taqim arteriyasi tarmoqlari)	Taqim osti chuqurchasi sohasida
Taqim arteriyasi va oldingi katta boldir arteriyalari	Tizzaning yuqori medial va lateral, tizzaning pastki medial va lateral tarmoqlari (taqim arteriyasidan chiqadi)	Oldingi va orqa qaytuvchi katta boldir arteriyalari (oldingi katta boldir arteriyasi tarmoqlari)	Tizza bo'g'imi sohasida (tizza bo'g'imi to'ri)
Oldingi va orqa katta boldir arteriyalari	Oldingi medial to'piq arteriyasi (oldingi katta boldir arteriyasidan chiqadi)	Medial to'piq tarmoqlari (orqa katta boldir arteriyasi)	Medial to'piq sohasida (medial to'piq to'ri)



Rasm № 462. Ayrisimon bez arteriyalari.
Рисунок № 462. Артерии тимуса.

- 1 Subclavian artery
- 2 Internal thoracic artery
- 3 Pericardio-diaphragmatic artery
- 4 Thymic branches

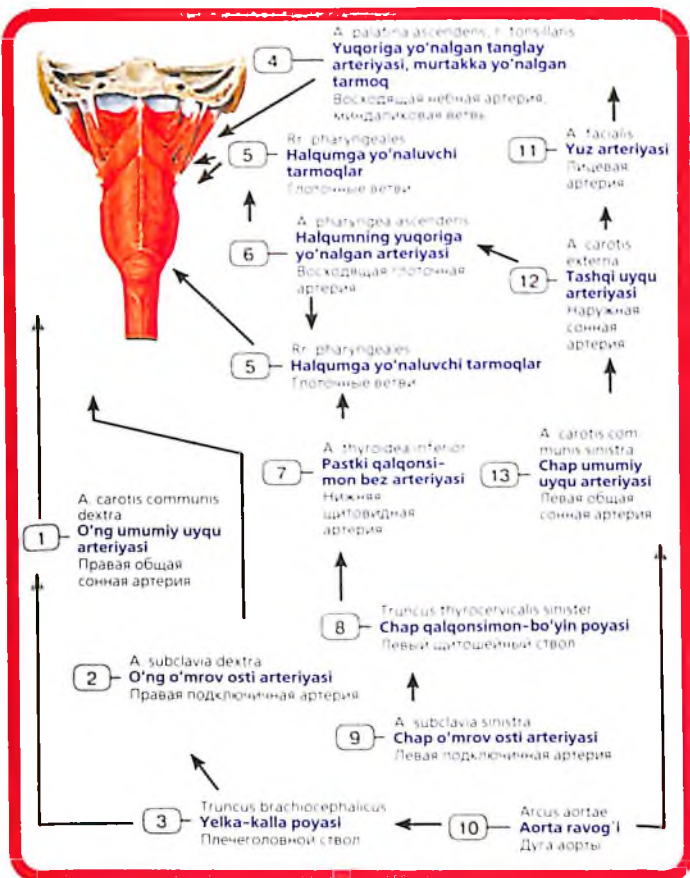


Rasm № 463. Hiqildoq arteriyalari.
Рисунок № 463. Артерии гортани.

- 1 Right common carotid artery
- 2 Right subclavian artery
- 3 Brachiocephalic trunk
- 4 Superior laryngeal artery
- 5 Superior thyroid artery
- 6 External carotid artery
- 7 Left common carotid artery
- 8 Inferior laryngeal artery
- 9 Inferior thyroid artery
- 10 Left thyrocervical trunk
- 11 Left subclavian artery
- 12 Arch of aorta, Aortic arch

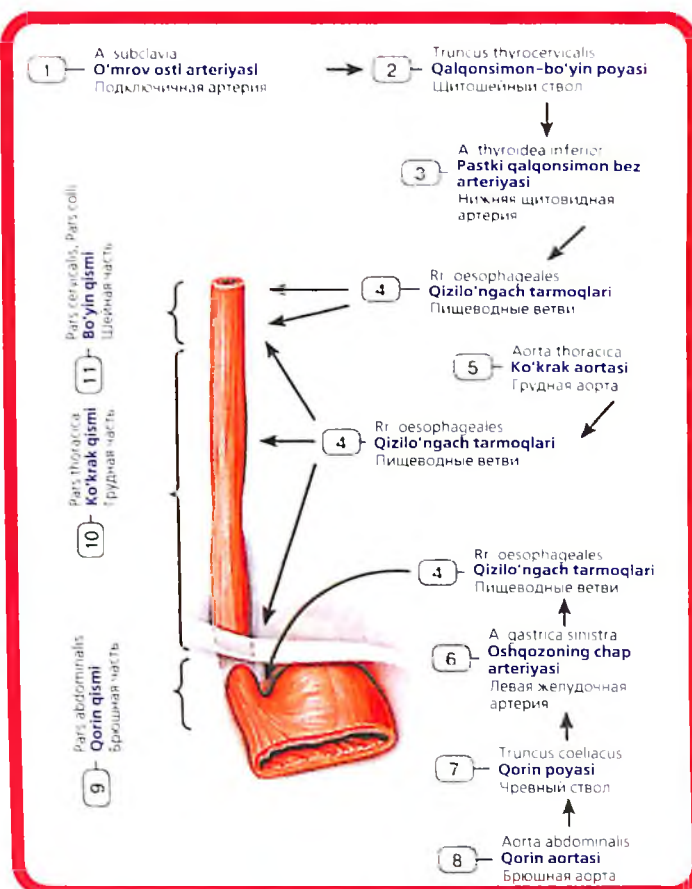
Rasm № 464. Qalqonsimon bez arteriyalari
(ko'rsatkich bilan qo'shimcha yo'llari ko'rsatilgan).
Рисунок № 464. Артерии щитовидной железы
(пунктиром выделены добавочные пути).

- 1 Right common carotid artery
- 2 Right subclavian artery
- 3 Brachiocephalic trunk
- 4 Thyroid ima artery
- 5 Left inferior thyroid artery
- 6 Left thyrocervical trunk
- 7 Left subclavian artery
- 8 Arch of aorta, Aortic arch
- 9 Superior thyroid artery
- 10 External carotid artery
- 11 Left common carotid artery



Rasm № 465. Halqum arteriyalari.
Рисунок № 465. Артерии глотки.

- 1 Right common carotid artery
- 2 Right subclavian artery
- 3 Brachiocephalic trunk
- 4 Ascending palatine artery, tonsillar branch
- 5 Pharyngeal branches
- 6 Ascending pharyngeal artery
- 7 Inferior thyroid artery
- 8 Left thyrocervical trunk
- 9 Left subclavian artery
- 10 Arch of aorta, Aortic arch
- 11 Facial artery
- 12 External carotid artery
- 13 Left common carotid artery

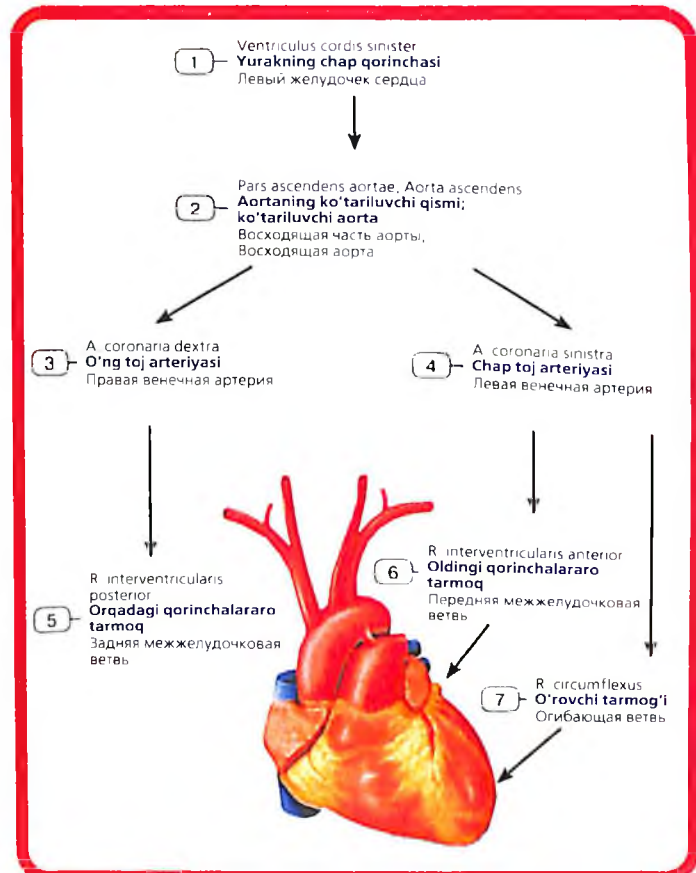


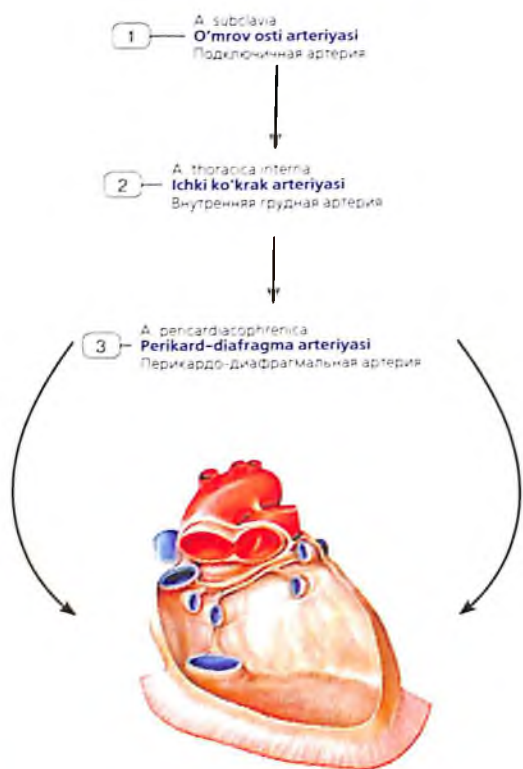
Rasm № 466. Qizilo'ngach arteriyalari.
Рисунок № 466. Артерии пищевода.

- 1 Subclavian artery
- 2 Thyrocervical trunk
- 3 Inferior thyroid artery
- 4 Esophageal branches
- 5 Thoracic aorta
- 6 Left gastric artery
- 7 Coeliac trunk
- 8 Abdominal aorta
- 9 Abdominal part
- 10 Thoracic part
- 11 Cervical part

Rasm № 467. Yurak arteriyalari.
Рисунок № 467. Артерии сердца.

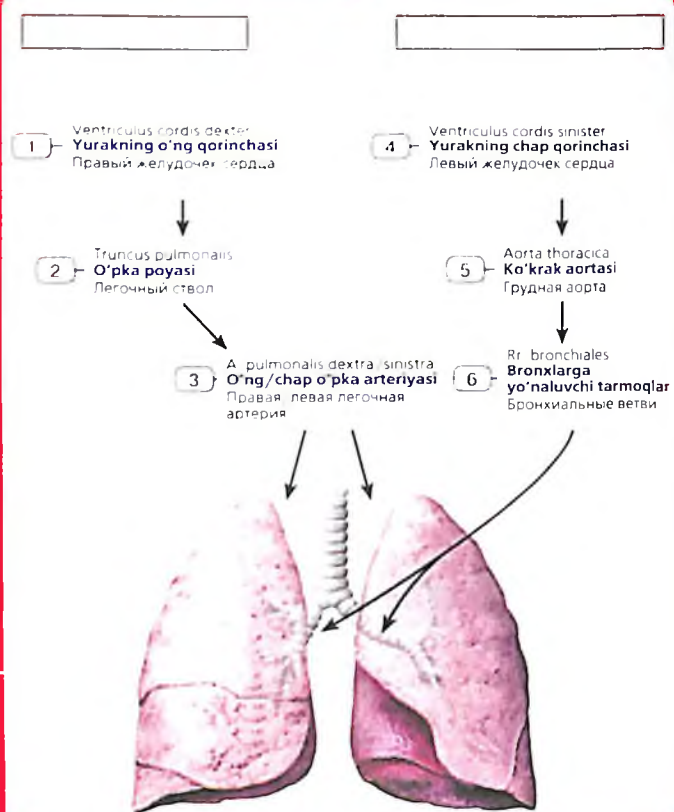
- 1 Left ventricle
- 2 Ascending aorta
- 3 Right coronary artery
- 4 Left coronary artery
- 5 Posterior interventricular branch
- 6 Anterior interventricular branch
- 7 Circumflex branch





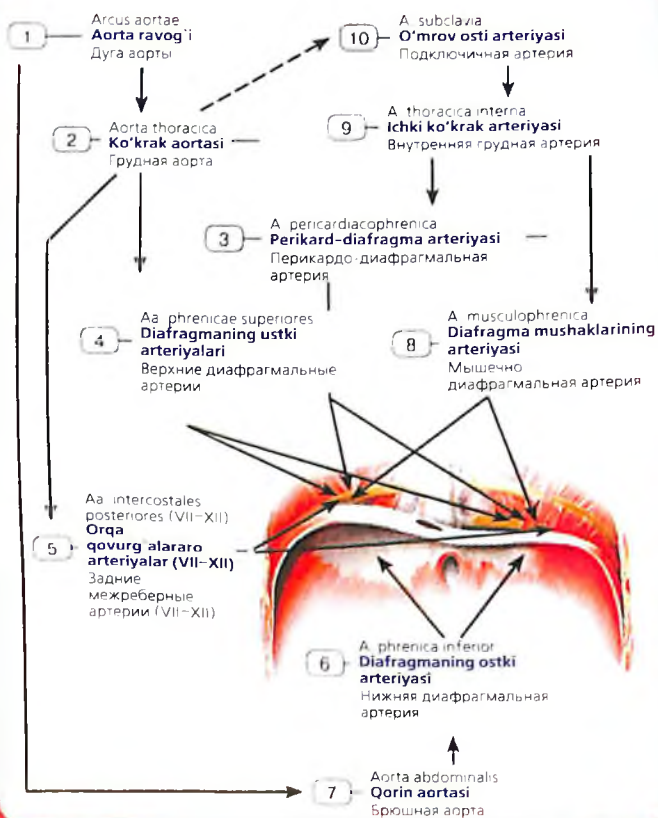
Rasm № 468. Perikard arteriyalari.
Рисунок № 468. Артерии перикарда.

- 1 Subclavian artery
- 2 Internal thoracic artery
- 3 Pericardiophrenic artery



Rasm № 469. O'pkalar va traxeya arteriyalari.
Рисунок № 469. Артерии легких и трахеи.

- 1 Right ventricle
- 2 Pulmonary trunk
- 3 Right/left pulmonary artery
- 4 Left ventricle
- 5 Thoracic aorta
- 6 Bronchial branches

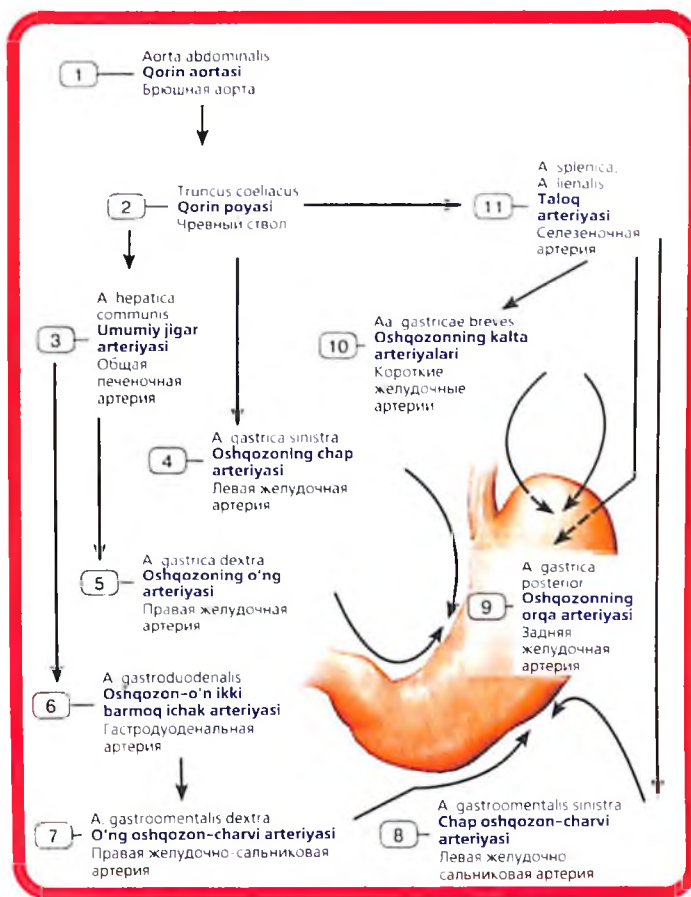


Rasm № 470. Diafragma arteriyalari.
Рисунок № 470. Артерии диафрагмы.

- 1 Arch of aorta, Aortic arch
- 2 Thoracic aorta
- 3 Pericardiophrenic artery
- 4 Superior phrenic arteries
- 5 Posterior intercostal arteries (VII-XII)
- 6 Inferior phrenic artery
- 7 Abdominal aorta
- 8 Musculophrenic artery
- 9 Internal thoracic artery
- 10 Subclavian artery

Rasm № 471. Jigar, o't pufagi va taloq arteriyalari.
Рисунок № 471. Артерии печени, желчного пузыря и селезенки.

- | | | |
|-------------------------|-------------------------|-----------------------|
| 1 Abdominal aorta | 4 Cystic artery | 7 Left branch |
| 2 Coeliac trunk | 5 Right branch | 8 Splenic artery |
| 3 Common hepatic artery | 6 Hepatic artery proper | 9 Left gastric artery |

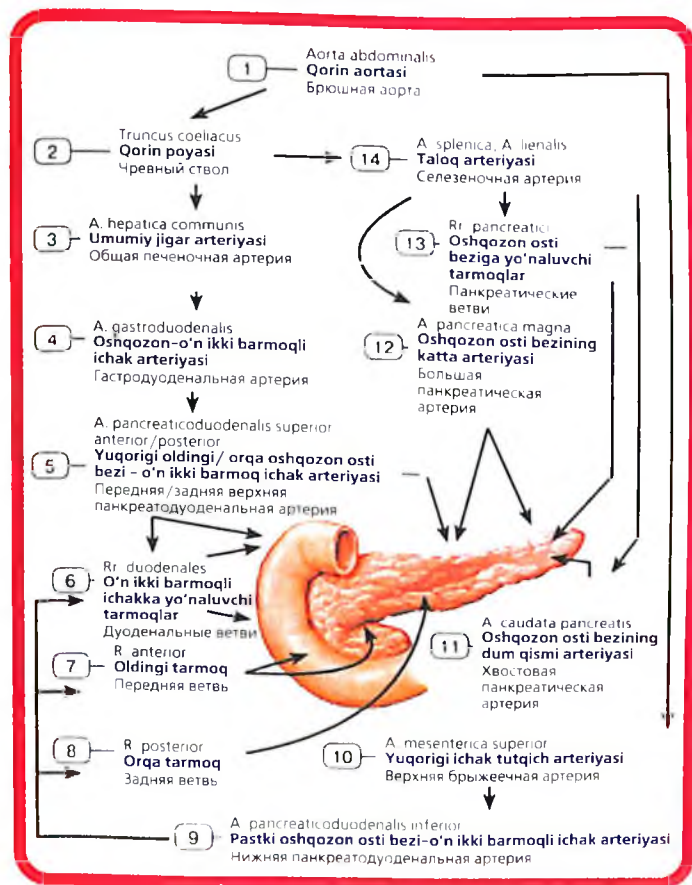
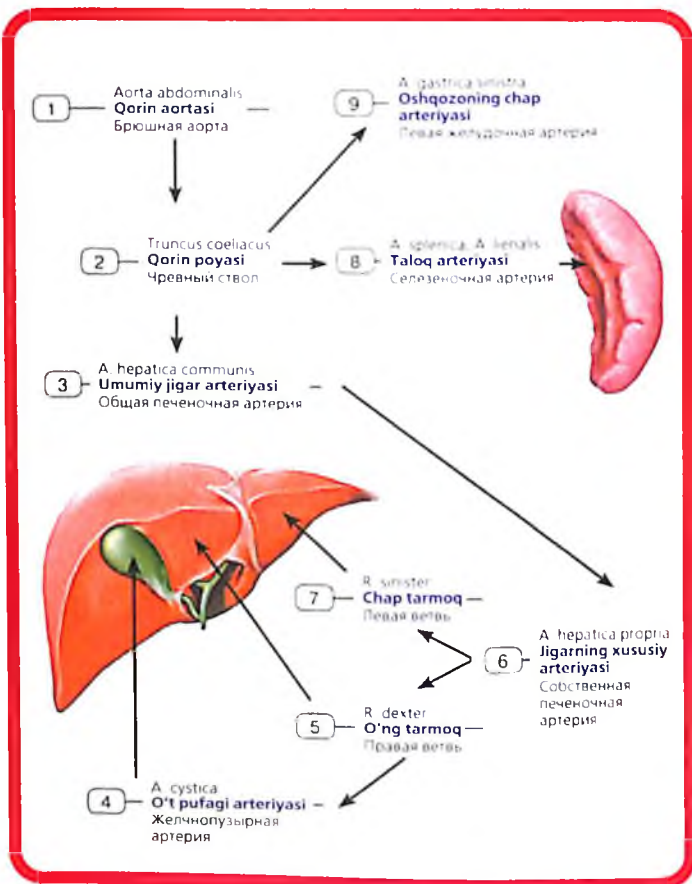


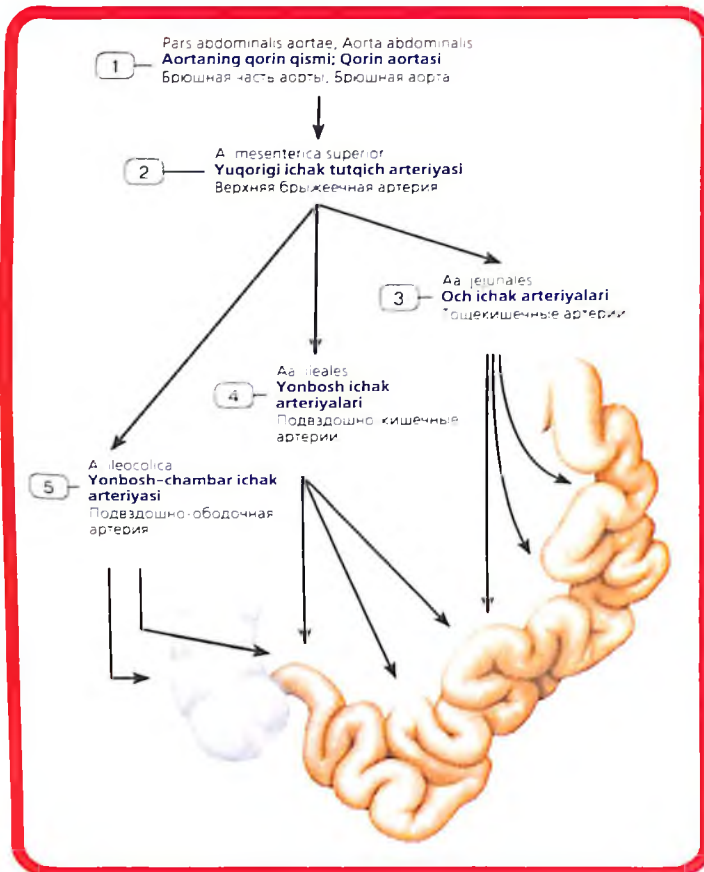
Rasm № 472. Oshqozon arteriyalari.
Рисунок № 472. Артерии желудка.

- | | |
|-----------------------------|-------------------------------|
| 1 Abdominal aorta | 8 Left gastro-omental artery |
| 2 Coeliac trunk | 9 Left gastro-epiploic artery |
| 3 Common hepatic artery | 10 Posterior gastric artery |
| 4 Left gastric artery | 11 Short gastric arteries |
| 5 Right gastric artery | |
| 6 Gastroduodenal artery | |
| 7 Right gastro-omental vein | |

Rasm № 473. O'n ikki barmoqli ichak va oshqozon osti bezi arteriyalari.
Рисунок № 473. Артерии двенадцатиперстной кишки и поджелудочной железы.

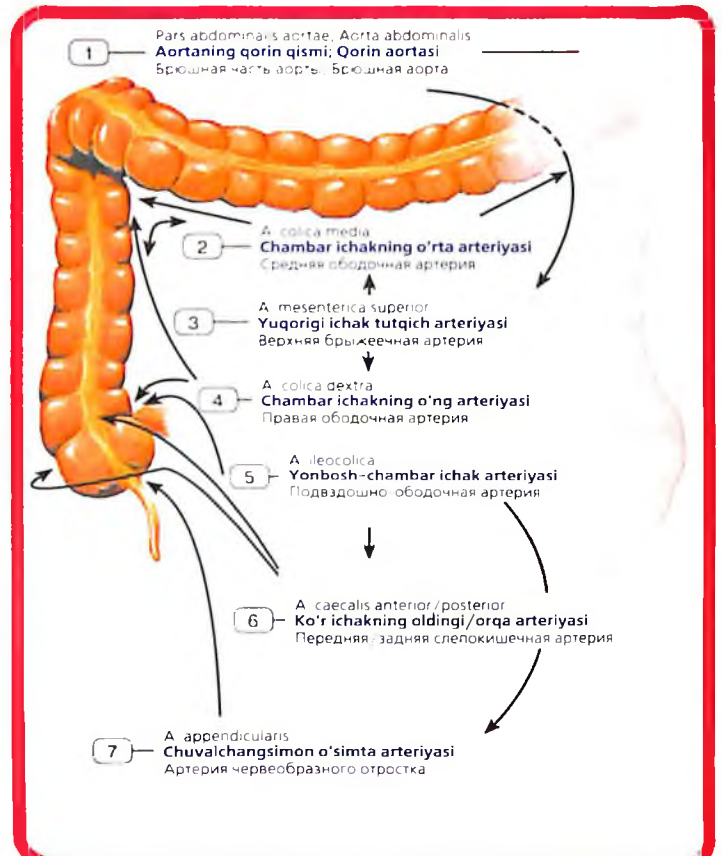
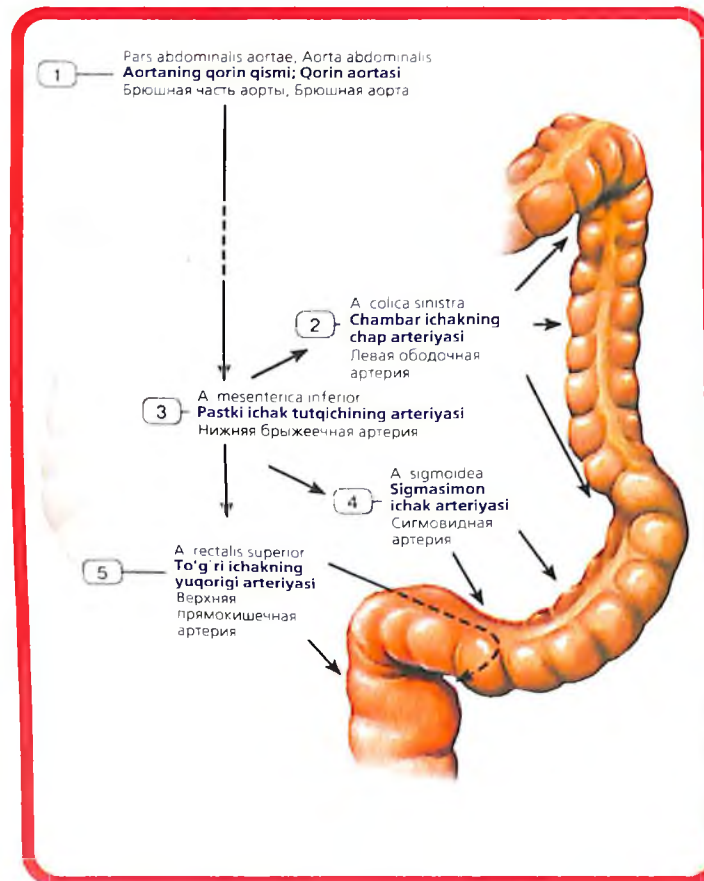
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|--|---------------------------------------|
| 1 Abdominal aorta | 8 Posterior branch |
| 2 Coeliac trunk | 9 Inferior pancreaticoduodenal artery |
| 3 Common hepatic artery | 10 Superior mesenteric artery |
| 4 Gastroduodenal artery | 11 Artery to tail of pancreas |
| 5 Anterior/posterior superior pancreaticoduodenal artery | 12 Greater pancreatic artery |
| 6 Duodenal branches | 13 Pancreatic branches |
| 7 Anterior branch | 14 Splenic artery |





Rasm № 474. Och ichak va yonbosh ichaklar arteriyalari.
Рисунок № 474. Артерии тощей и подвздошной кишок.

- 1 Abdominal aorta
- 2 Superior mesenteric artery
- 3 Jejunal arteries
- 4 Ileal arteries
- 5 Ileocolic artery

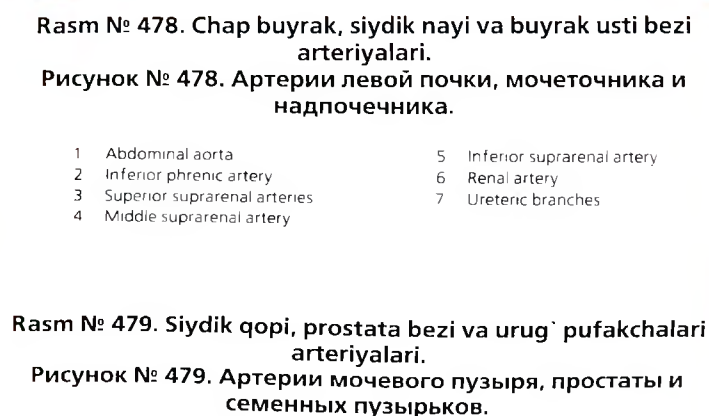
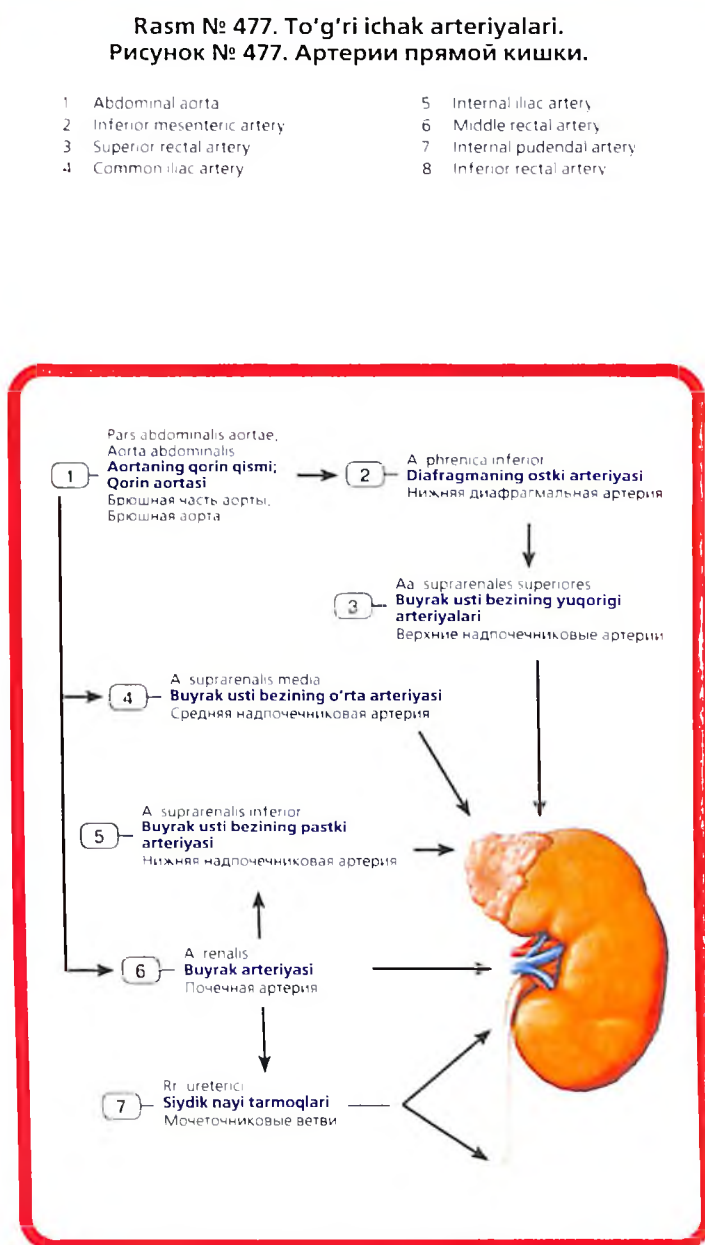
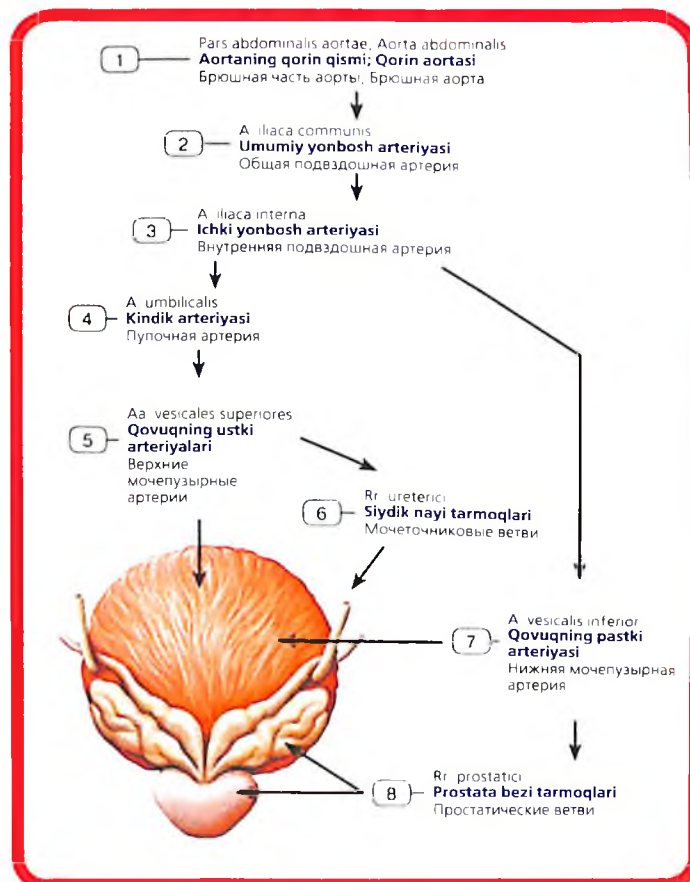
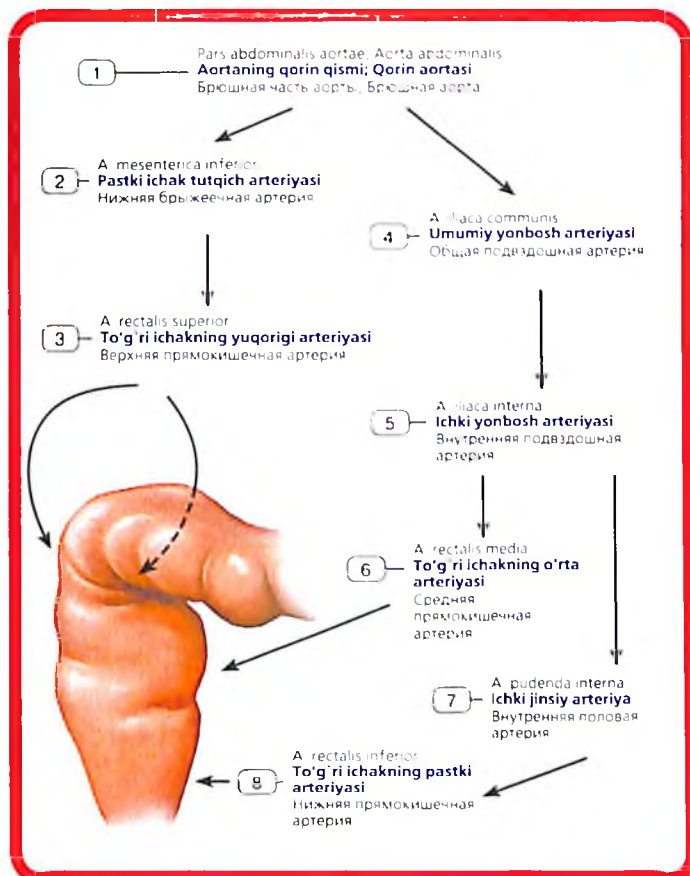


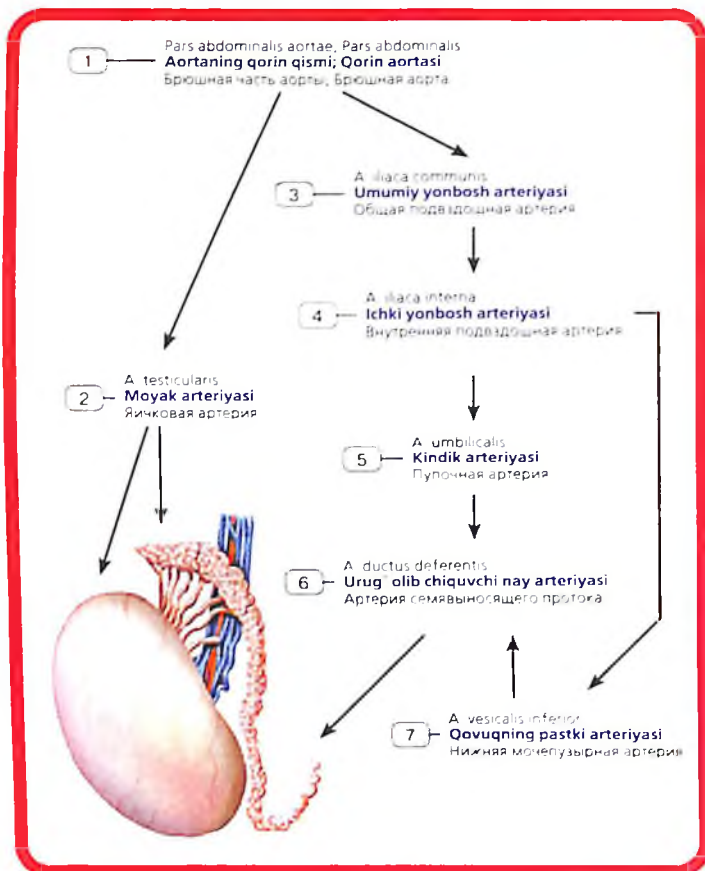
Rasm № 475. Ko'r ichak va chualchangsimon o'simta, ko'tariluvchi va ko'ndalang chamber ichaklar arteriyalari.
Рисунок № 475. Артерии слепой кишки и аппендикса, восходящей и поперечной ободочных кишок.

- 1 Abdominal aorta
- 2 Middle colic artery
- 3 Superior mesenteric artery
- 4 Right colic artery
- 5 Ileocolic artery
- 6 Anterior/posterior caecal artery
- 7 Appendicular artery

Rasm № 476. Tushuvchi va sigmasimon chamber ichaklar arteriyalari.
Рисунок № 476. Артерии нисходящей и сигмовидной ободочных кишок.

- 1 Abdominal aorta
- 2 Left colic artery
- 3 Inferior mesenteric artery
- 4 Sigmoid artery
- 5 Superior rectal artery

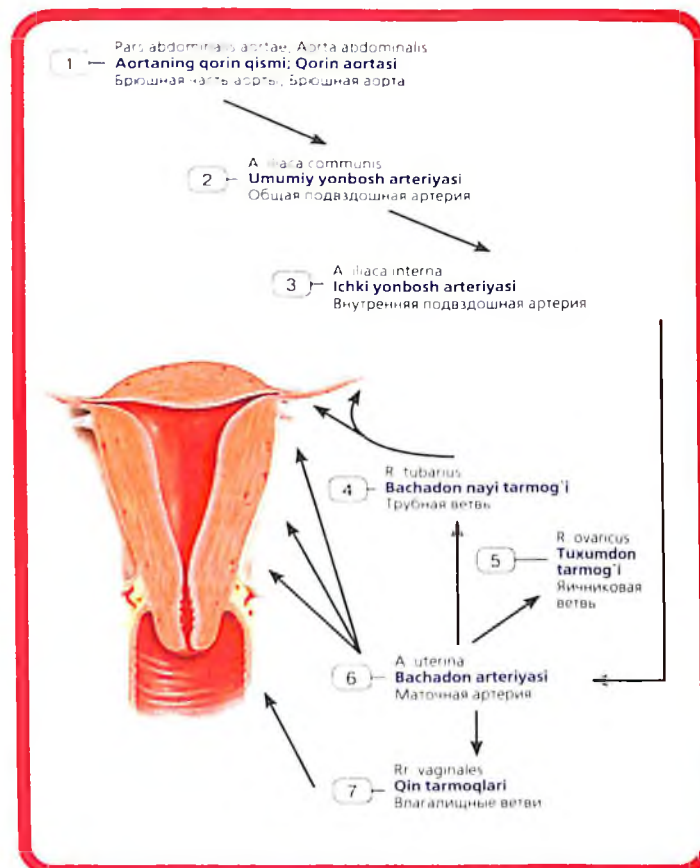




Rasm № 480. Moyak, moyak ortig'i va urug' olib ketuvchi nay arteriyalari.

Рисунок № 480. Артерии яичка, придатка яичка и семявыносящего протока.

- | | |
|---------------------------|--------------------------------|
| 1 — Abdominal aorta | 5 — Umbilical artery |
| 2 — Testicular artery | 6 — Artery to ductus deferens, |
| 3 — Common iliac artery | Artery to vas deferens |
| 4 — Internal iliac artery | 7 — Inferior vesical artery |



Rasm № 481. Bachadon, bachadon nayi va tuxumdon arteriyalari.

Рисунок № 481. Артерии матки, маточной трубы и влагалища.

- | | |
|---------------------------|----------------------|
| 1 — Abdominal aorta | 5 — Ovarian branch |
| 2 — Common iliac artery | 6 — Uterine artery |
| 3 — Internal iliac artery | 7 — Vaginal branches |
| 4 — Tubal branch | |

Rasm № 482. Bachadon nayi va tuxumdon arteriyalari.

Рисунок № 482. Артерии маточной трубы и яичника.

- | | |
|-------------------------|---------------------------|
| 1 — Abdominal aorta | 5 — Internal iliac artery |
| 2 — Ovarian artery | 6 — Ovarian branch |
| 3 — Tubal branch | 7 — Uterine artery |
| 4 — Common iliac artery | |



VEINS

**VENA
QON-TOMIRLAR**

ВЕНЫ



35 — jadval. Katta qon aylanish doirasi venalari (yuqori kavak vena tizimi)

Vena	Qaysi venalar qo'shilishidan va qayerda hosil bo'ladi	Asosiy yon oqimlar	Qaysi soha yoki a'zodan qon yig'adi	Quyilish joyi
Bosh va bo'yin venalari				
Yuzaki bo'yin venalari				
Tashqi bo'yinturuv vena	Quloq suprasining orqa venasi Ichki bo'yinturuv venasi tarmog'i bo'lgan pastki jag' orqasidagi venasi bilan to'sh o'mrov so'rg'ichsimon muskulining oldingi qirg'og'ida anastomozlashadi	1. Oldingi bo'yinturuv venasi 2. Bo'yinturuv vena ravog'i 3. Kurak usti venasi 4. Bo'ynining ko'ndalang venalari	Kallaning chakkasi, ensa, tepa qismlari, quloq suprasi va bo'ynining oldingi va yon sohalari, mushak va teri	To'sh o'mrov bo'g'imi ortida, o'mrov osti va ichki bo'yinturuv venalari qo'shilishidan hosil bo'lgan burchakka (venoz burchak)
Chuqur venalar				
Ichki bo'yinturuv vena	Bo'yinturuv chuqurchasida miya qattiq pardasi sigmasimon sinusining bevosita davomi bo'lib hisoblanadi	1. Pastki jag' orqasidagi vena 2. Miya pardasining venalari 3. Yuz venasi 4. Til venasi 5. Halqum venalari 6. Yuqori va o'rta qalqonsimon venalar	Bosh miya va uning bardalari yuzning oldingi va yon sohalari, til, halqum, biqildoq, qalqon simon bez	Umumiy uyqu arteriyasiga tegib turadi. To'sh o'mrov bo'g'imi ortida, o'mrov osti venasi bilan qo'shilib, yelka bosh venasini hosil qiladi
Yuqori mucha (qo'l) venalari				
Yuzaki venalar				
Qo'lning lateral teri osti venasi	Kaftning bilak tomoni dorsal yuzasi venoz to'ridan boshlanadi	1. Qo'lning lateral soxa teri osti venalari 2. Birinchi kaft orqasidagi vena 3. Tirsakning oraliq venasi	Qo'lning lateral sohasi terisi, teri osti yog' qavati	Qo'lting osti chuqurchasida qo'lting osti venasiga quyiladi
Qo'lning medial teri osti venasi	To'rtinchi kaft orqasidagi vena davomi hisoblanadi	1. Qo'lning medial soxa teri osti venalari 2. Tirsakning oraliq venasi	Qo'lning medial soha terisi, teri osti yog' qavati	Yelkaning o'rta va pastki uchdan bir qismi sathida yelka venasiga quyiladi
Chuqur venalar				
Bilak venasi, juft	Kaftning chuqur venoz ravog'i lateral soxasidan boshlanadi		Kaft va bilakning lateral soxasidagi suyaklar, mushaklar va boylamlar	Bilak arteriyasiga tegib turadi. Tirsak chuqurchasi sohasida tirsak venasi bilan qo'shiladi
Tirsak venasi, juft	Kaftning chuqur venoz ravog'i medial soxasidan boshlanadi		Bilak va kaftning medial soxasidagi suyaklar, mushaklar va boylamlar	Tirsak arteriyasiga tegib turadi. Tirsak chuqurchasi sohasida bilak venasi bilan qo'shiladi
Yelka venasi (boshlang'ich qismida juft bo'lib, keyin ikkala vena qo'shilib, bitta poyani hosil qiladi)	Tirsak chuqurchasi sohasida tirsak va bilak venalarining qo'shilishidan hosil bo'ladi	Yelkaning chuqur venasi	Qo'l sohasi (yelka, bilak, kaftning teri, boylamlari, mushaklari, suyaklari)	Yelka arteriyasiga tegib turadi. Orqaning serbar muskuli payi pastki qismi sathida qo'lting osti venasiga davom etadi
Qo'lting osti venasi	Orqaning serbar muskuli payi pastki qismi sathida boshlanib, yelka venasining davomi hisoblanadi	1. Ko'krakning lateral venasi 2. Ko'krak-qorin usti venalari 3. Kurak osti venasi 4. Yelka suyagini o'rovchi oldingi va orqa venalar	Qo'l sohasi, ko'krakning old va yon devori terisi, teri osti yog' qavati	Qo'lting osti arteriyasi yonida joylashgan bo'lib, I qovurg'aning lateral qirrası sathida o'mrov osti venasiga davom etadi
O'mrov osti venasi	I qovurg'a lateral qirrası sathida joylashib, qo'lting osti venasining davomi hisoblanadi	1. Ko'krak venalari 2. Kurakning orqa venasi 3. Ko'krak kurak o'sig'i venasi	Qo'l sohasi, ko'krakning old va yon devorining yuqori qismi	O'mrov osti arteriyasi yonida joylashgan bo'lib, ichki bo'yinturuv venasi bilan qo'shilib, yelka bosh venasini hosil qiladi (to'sh o'mrov bo'g'imi orqasida)
Ko'krak venalari				
Toq vena	Belning o'ng ko'tariluvchi venasining davomi bo'lib, diafragmaning bel qismi o'ng oyog'chasi sathida hosil bo'ladi	1. O'ng yuqori qovurg'alararo vena 2. O'ng orqa qovurg'alararo vena [IV-XII] 3. Qizilo'ngach venalari 4. Bronxlarning venalari 5. Yurak xaltasi venalari 6. Ko'ks oraliq venalari 7. Yarim toq vena	Qorinning orqa devori va ko'krak bo'shlig'i, ko'ks oraliq a'zolari	V ko'krak umurtqasi sathida yuqori kavak venaga quyiladi

35 — jadval yakuni

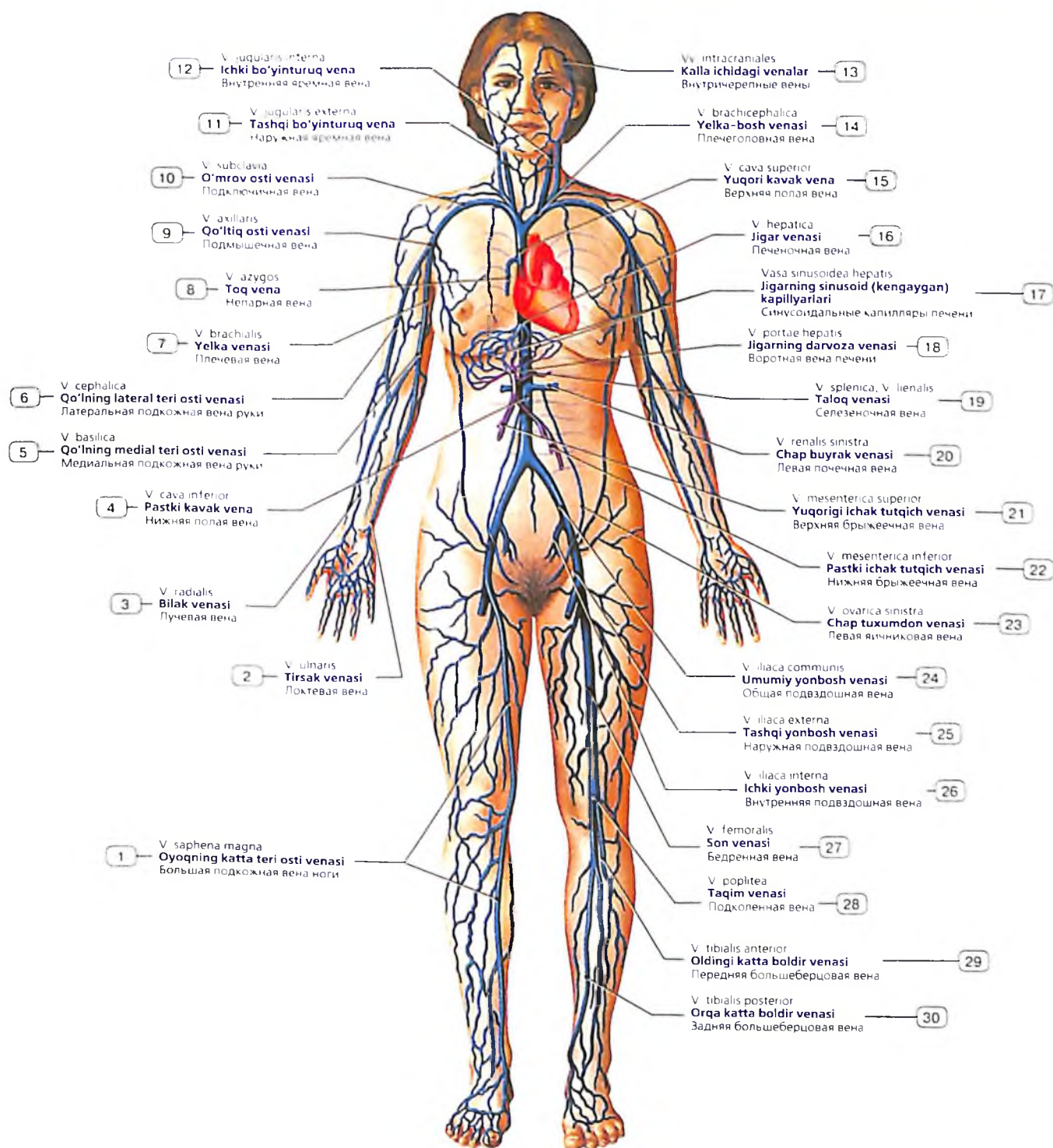
Vena	Qaysi venalar qo'shilishidan va qayerda hosil bo'ladi	Asosiy yon oqimlar	Qaysi soha yoki a'zodan qon yig'adi	Quyilish joyi
Yarim toq vena	Belning chap ko'tariluvchi venasining davomi bo'lib, diafragmaning bel qismi chap oyoqchasi sathida hosil bo'ladi.	1. Qo'shimcha yarim toq vena 2. 6-7 ta yuqori chap orqa qovurg'alararo venalar 3. Halqum venalari 4. Ko'ks oralig'i venalari	Qorinning orqa devori va ko'krak bo'shlig'ining chap qismi, ko'ks oralig'i a'zolari	VII-X ko'krak umurtqalari sathida toq venaga quyiladi
Yelka-bosh venasi	Ichki bo'yinturug' vena va o'mrov osti venalari qo'shilishidan hosil bo'ladi (to'liq o'mrov bo'lgan ortida).	1. Qo'shimcha yarim toq vena 2. Umurtqa venasi 3. Pastki qalqonsimon venalar 4. Pastki hiqildoq venasi 5. Aynisimon bez venalari 6. Bronxlarning venalari 7. Ko'ks oralig'i venalari 8. Qizilo'ngach venalari 9. Yurak xaltasi va diafragma venalari 10. Eng yuqoridagi qovurg'alararo vena	Qorinning old devori va ko'krak bo'shlig'ining old qismi, tegishli tomondagi ko'ks oralig'i a'zolari, qalqonsimon bez, aynisimon bez, hiqildoq, orqa miyaning bo'yin qismi va uning pardalari, bo'yinning chuqur mushaklari shuningdek, bosh, bo'yin, qo'l	O'ng yelka-bosh venasi yelka bosh poyasiga tegib turadi. O'ng va chap yelka bosh venalarining qo'shilishidan yuqori kavak vena hosil bo'ladi (o'ng tomondagi qovurg'aning to'g'ay qismi orqasida)
Yuqori kavak vena	Birinci qovurg'aning to'g'ay qismi orqasida o'ng va chap yelka bosh venalarining qo'shilishidan hosil bo'ladi.	1. Yarim toq vena 2. Ko'ks oralig'i venalari 3. Yurak xaltasi venalari	Bosh, bo'yin, qo'l, tananing yuqori qismi	O'ng tomondagi III qovurg'a to'g'ay qismining to'shga birikish sathida yurakning o'ng bo'lmachasiga quyiladi.

36 — jadval. Katta qon aylanish doirasidagi venalar (pastki kavak vena tizimi)

Venalar	Qaysi venalar qo'shilishidan va qayerda hosil bo'ladi	Asosiy yon oqimlar	Qaysi soha yoki a'zodan qon yig'adi	Quyilish joyi
Oyoq venalari				
Yuza venalar				
Oyoqning katta teri osti venasi	Oyoq panjasining bosh barmog'i, medial qirrasini, medial to'piqdan oldinda hosil bo'ladi.	1. Oyoqning oldingi medial yuzasi teri osti venalari 2. Tashqi jinsiy venalar 3. Qorin devorining yuzaki venasi 4. Yonbosh suyagini o'trovchi yuzaki vena	Oyoq panjasi, boldir, son soxalarining oldingi medial yuzalari, tashqi jinsiy a'zolar, qorinning old devori	Chov boylamidan pastda son venasiga quyiladi
Oyoqning kichik teri osti venasi	Lateral to'piq sohasida oyoq panjasini ustki qismi lateral yuzasidan hosil bo'ladi	Boldirning orqa lateral yuzasi teri osti venalari	Boldir va oyoq panjasining orqa lateral yuza teri, teri osti yog' qavati	Taqim chuqurchasida taqim venasiga quyiladi
Chuqur venalar				
Oldingi katta boldir venasi, juft	Oyoq panjasining ustki chuqur venalaridan hosil bo'ladi		Boldirning oldingi yuzasi, oyoq panjasi suyaklari, boylamlari, mushaklari	Oldingi katta boldir arteriyasiga tegib turadi. Orqa katta boldir venakari bilan qo'shilib, taqim chuqurchasining pastki qismida taqim venasiga quyiladi
Orqa katta boldir venasi, juft	Medial va lateral oyoq kafti venalarining qo'shilishidan hosil bo'ladi	Kichik boldir venalari	Boldirning orqa yuzasi, oyoq panjasi suyaklari, boylamlari, mushaklari	Orqa katta boldir arteriyasiga tegib turadi. Oldingi katta boldir venalari bilan qo'shilib, taqim chuqurchasining pastki qismida taqim venasiga quyiladi
Taqim venasi	Oldingi va orqa katta boldir venalarining qo'shilishidan taqim chuqurchasining pastki qismida hosil bo'ladi	1. Tizza venasi 2. Kichik teri osti venasi	Tizza va oyoq panjasining terisi, boylamlari, oyoq panjasi suyaklari	Taqim arteriyasiga tegib turadi va son venasiga davom etadi
Son venasi	Taqim venasining davomi bo'lib, yaqinlashtiruvchi kanalning pastki teshigi sathida boshlanadi	1. Sonning chuqur venasi 2. Katta teri osti venasi	Son, boldir, oyoq panja terisi, boylamlari, muskullari va tashqi jinsiy a'zolar, qorin old devori terisi va teri osti yog' qavati	Son arteriyasiga tegib turadi va chov boylami sathida tashqi yonbosh venaga davom etadi

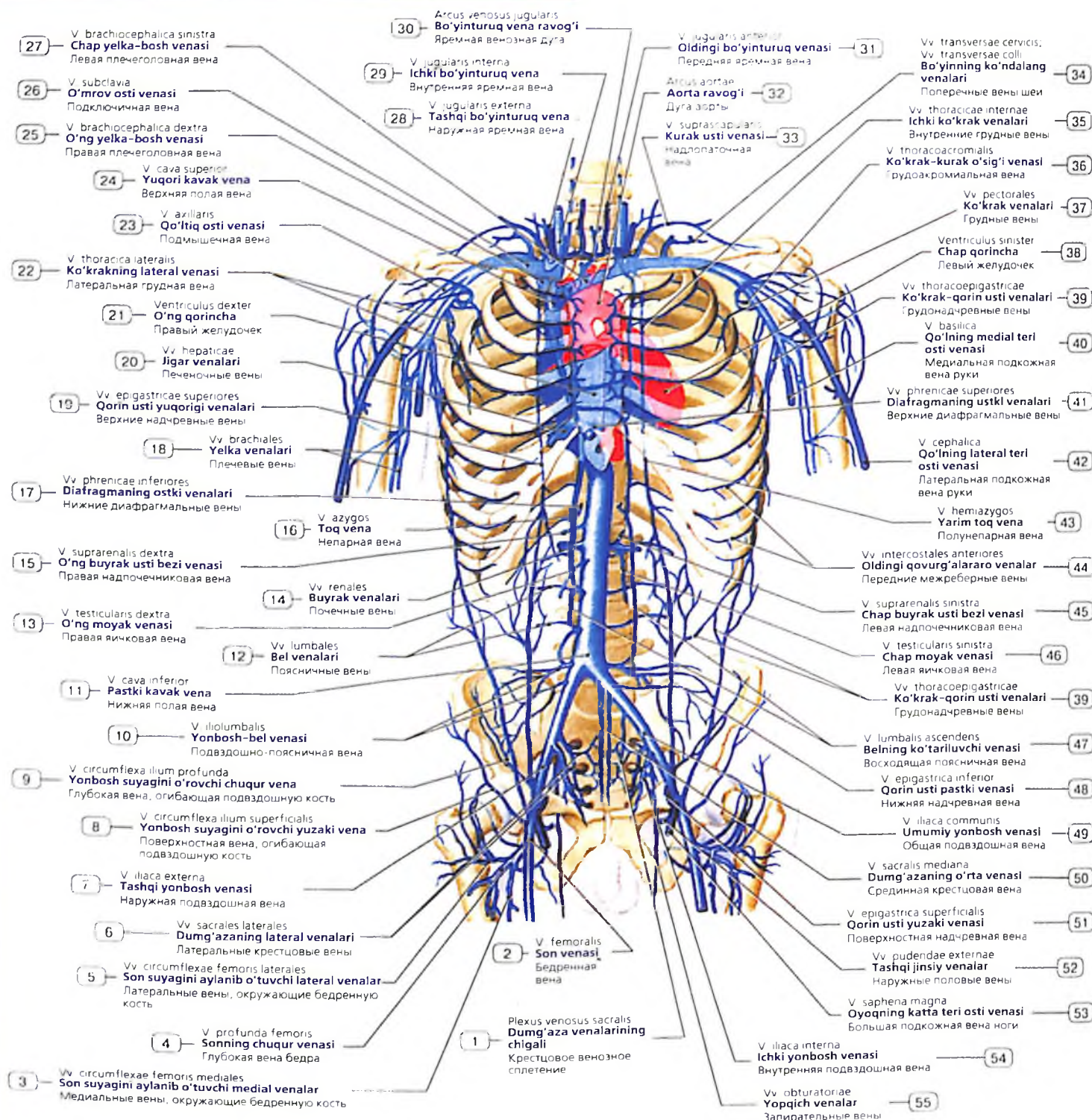
36-jadval yakuni

Venalar	Qaysi venalar qo'shilishidan va qayerda hosil bo'ladi	Asosiy yon oqimlar	Qaysi soha yoki a'zodan qon yig'adi	Quyilish joyi
Chanoq venalari				
Tashqi yonbosh venasi	Son venasining davomi bo'lib, cho'zi boylami sathida boshlanadi	1. Qorin devorining pastki venasi 2. Yonbosh suyagining o'troq venasi 3. Shuqur vena	Oyoq sohasi, qorinning old devori, tashqi yonbosh a'zolari	Tashqi yonbosh arteriyasiga tegib turadi. Ichki yonbosh venasi bilan birlashib dumg'aza-yonbosh birikmasi yuqori sathida umumiy yonbosh venasini hosil qiladi
Ichki yonbosh venasi	Chanoq yon devoridan boshlanadi	1. 2. Dumbaning ustki va pastki venalari 3. Yopqich venalari 4. Dumg'azaning lateral venalari 5. Yonbosh bel venasi 6. 7. To'g'ri ichakning o'tta va pastki venalari 8. Bachadon venasi (ayollarda) 9a. Prostata bezi venasi (erkaklarda) 9. Siydik qopri venalari	Chanoq devorlari, a'zolari va ichki yonbosh a'zolari	Ichki yonbosh arteriyasiga tegib turadi. Tashqi yonbosh venasi bilan birlashib dumg'aza-yonbosh birikmasi yuqori sathida umumiy yonbosh venasini hosil qiladi
Umumiy yonbosh venasi	Dumg'aza yonbosh birlashmasi yuqori sathida tashqi va ichki yonbosh venalarning qo'shilishidan hosil bo'ladi	1. Dumg'azaning o'tta venasi 2. Yonbosh bel venasi	Chanoq devorlari, a'zolari va ichki yonbosh a'zolari, oyoq sohasi	Umumiy yonbosh arteriyasiga tegib turadi. IV-V bel umurtqalari sathida o'ng va chap umumiy yonbosh arteriyalari qo'shilib, pastki kavak venani hosil qiladi
Pastki kavak vena	IV-V bel umurtqalari sathida o'ng va chap umumiy yonbosh arteriyalari qo'shilishidan hosil bo'ladi	1a. O'ng tuxumdon venasi (ayollarda) 1b. O'ng moyak venasi (erkaklarda) 2. Buyrak venalari 3. O'ng buyrak usti bezi venasi 4. Bel venalari 5. Jigar venalari 6. Diafragmaning pastki venalari	Oyoq, chanoq devorlari, a'zolari, qisman diafragma, qorin bo'shlig'i old va yon devorlari, qorin bo'shlig'idagi juft a'zolar	Yurakning o'ng bo'lmachasiga quyiladi. Qorin orqa devorida qorin aortasidan o'ng tomonda joylashadi
Darvoza venasi tizimi				
Taloq venasi	Taloqning a'zo ichidagi venalari qo'shilishidan taloq darvozasi sohasida hosil bo'ladi	1. Chap oshqozon charvi venasi 2. Oshqozonning kalta venalari 3. Oshqozon osti bezi venalari	Taloq, oshqozon tubi va orqa devori, oshqozon osti bezi tanasi va dum qismi, katta charvining chap yarmi	Me'da osti bezi boshchasi orqasida yuqori tutqich venasi bilan qo'shilib, darvoza venasini hosil qiladi
Yuqori ichak tutqich venasi	O'ng ikki barmoqli ichak, och, yonbosh ichak venalari, me'da osti bezi boshchasi venalari qo'shilishidan hosil bo'ladi	1. Yonbosh-chambar ichak venasi 2. O'ng va o'rtadagi chamber ichak venalari 3. O'ng oshqozon charvi venasi 4. Oshqozon osti bezi o'ng ikki barmoqli ichak venalari 5. Oshqozon osti bezi venalari	Ingichka ichak va uning tutqichi, ko'r ichak, ko'tariluvchi ichak, ko'ndalang chamber ichakning o'ng qismi, chuvalchangsimon o'simta, me'da osti bezi boshchasi va tanasining bir qismi, oshqozon tanas va katta charvining o'ng qismi	Me'da osti bezi boshchasi orqasida taloq venasi bilan qo'shilib, darvoza venasini hosil qiladi
Pastki ichak tutqich venasi	Sigmasimon ichak tutqichida to'g'ri ichakning yuqorigi venasi bilan sigmasimon ichak venalari qo'shilib hosil qiladi	Chap chamber ichak venasi	To'g'ri ichakning yuqori qismi, sigmasimon ichak, pastga tushuvchi chamber ichak va ko'ndalang chamber ichakning chap qismi	Me'da osti bezi tanasi orqa qismida taloq venasiga quyiladi (ba'zan yuqori tutqich venasiga)
Jigarning darvoza venasi	Me'da osti bezi boshchasi orqasida taloq, yuqori tutqich va pastki tutqich venalari qo'shilib, darvoza venasini hosil qiladi	1. O't xaltasi venasi 2. Kindik atrofidagi venalar 3. O'ng va chap oshqozon venalari 4. Oshqozonning chiqish qismi venasi	Qorin bo'shlig'ining toq a'zolaridan (oshqozon, ingichka va yuqori ichak, oshqozon osti bezi, taloq)	Jigar darvozasiga kiradi va kapilyarlarga bo'linib, jigarning darvoza venasini hosil qiladi va u pastki kavak venaga quyiladi



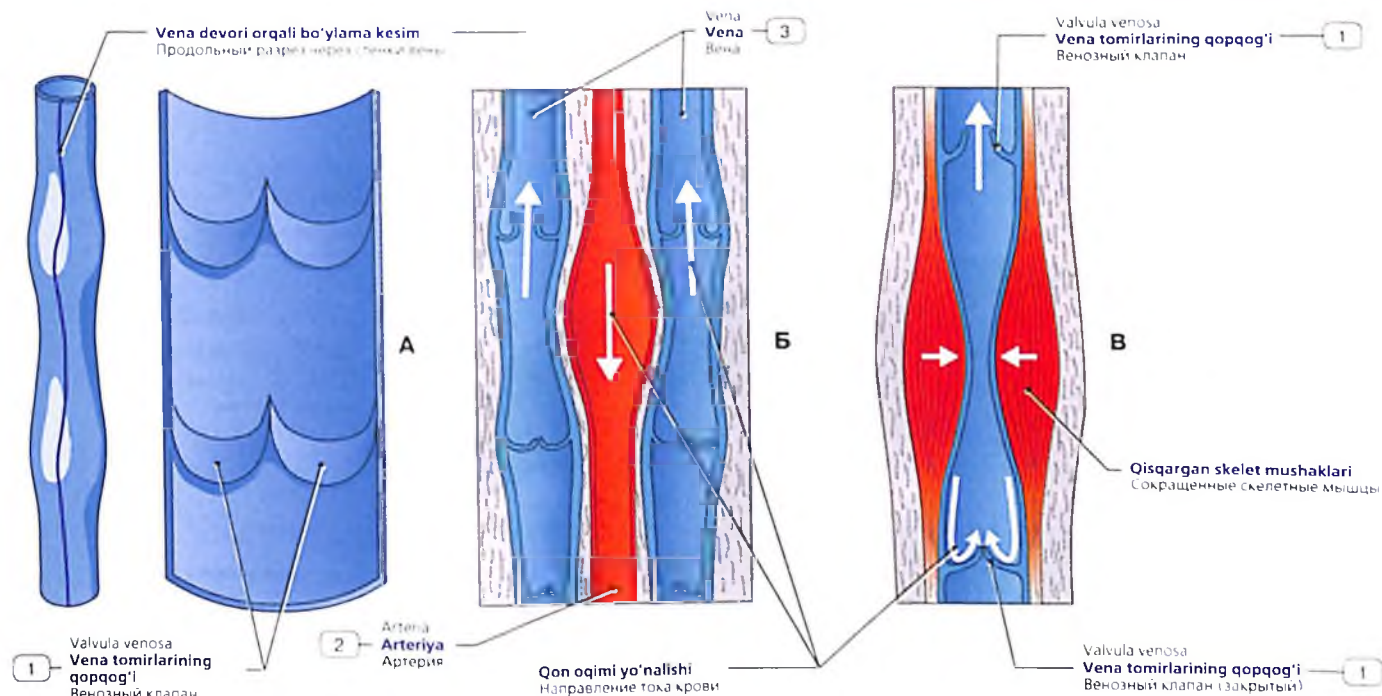
Rasm № 483. Katta qon aylanish doirasining venalari (chizma).
Рисунок № 483. Вены большого круга кровообращения (схема).

- | | | | |
|--|--------------------------|------------------------------|--------------------------|
| 1 Great saphenous vein,
Long saphenous vein | 8 Azygos vein | 16 Hepatic vein | 24 Common iliac vein |
| 2 Ulnar vein | 9 Axillary vein | 17 Vessels sinusoid of liver | 25 External iliac vein |
| 3 Radial vein | 10 Subclavian vein | 18 Hepatic portal vein | 26 Internal iliac vein |
| 4 Inferior vena cava | 11 External jugular vein | 19 Splenic vein | 27 Femoral vein |
| 5 Basilic vein | 12 Internal jugular vein | 20 Left renal vein | 28 Popliteal vein |
| 6 Cephalic vein | 13 Intracranial veins | 21 Superior mesenteric vein | 29 Anterior tibial vein |
| 7 Brachial vein | 14 Brachicephalic vein | 22 Inferior mesenteric vein | 30 Posterior tibial vein |
| | 15 Superior vena cava | 23 Left ovarian vein | |

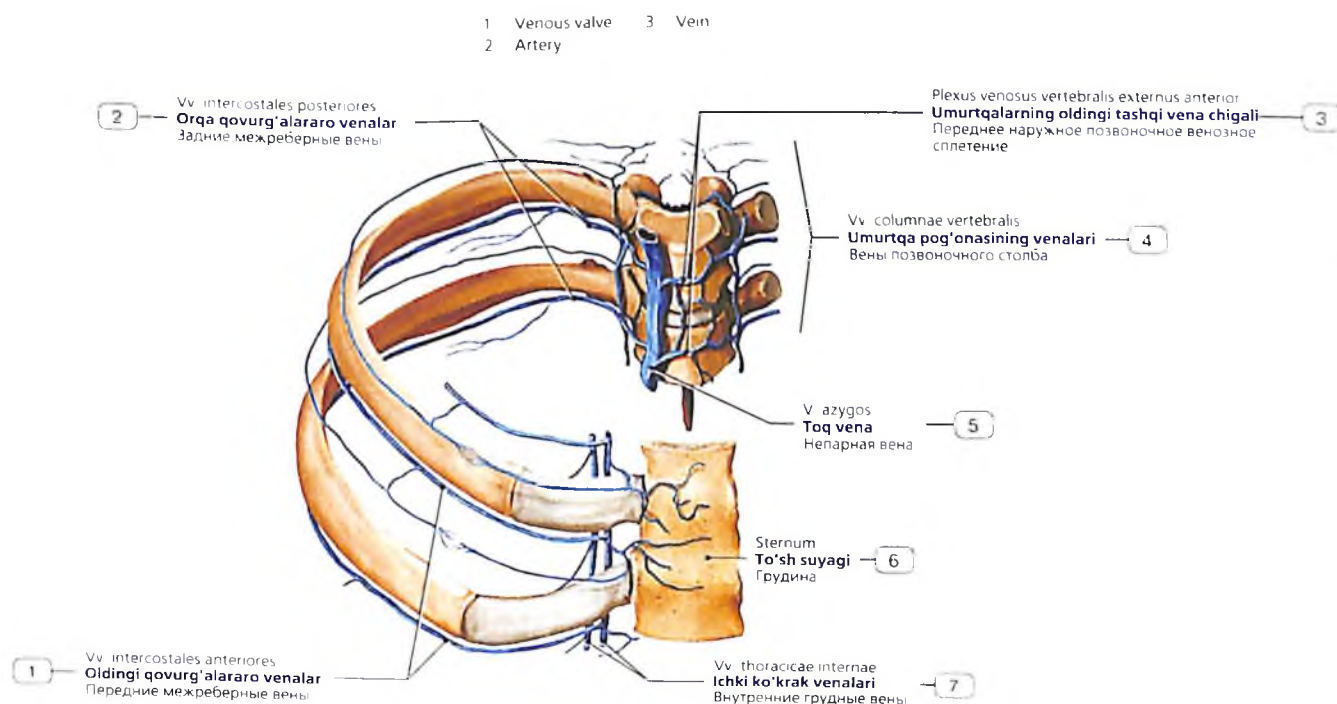


Rasm № 484. Yuqori va pastki kavak vena va ularning oqimlari (chizma).
Рисунок № 484. Верхняя и нижняя полые вены и их притоки (схема).

- | | | | | | |
|---|------------------------------|-------------------------------|-------------------------------|--|--|
| 1 Sacral venous plexus | iliac vein | 19 Superior epigastric veins | 30 Jugular venous arch | 41 Superior phrenic veins | 51 Superficial epigastric vein |
| 2 Femoral vein | 9 Deep circumflex iliac vein | 20 Hepatic veins | 31 Anterior jugular vein | 42 Cephalic vein | 52 External pudendal veins |
| 3 Medial circumflex femoral veins | 10 Iliolumbar vein | 21 Right ventricle | 32 Arch of aorta, Aortic arch | 43 Hemi-azygos vein, Inferior hemi-azygos vein | 53 Great saphenous vein, Long saphenous vein |
| 4 Profunda femoris vein, Deep vein of thigh | 11 Inferior vena cava | 22 Lateral thoracic vein | 33 Suprascapular vein | 44 Anterior intercostal veins | 54 Internal iliac vein |
| 5 Lateral circumflex femoral veins | 12 Lumbar veins | 23 Axillary vein | 34 Transverse cervical veins | 45 Left suprarenal vein | 55 Obturator veins |
| 6 Lateral sacral veins | 13 Right testicular vein | 24 Superior vena cava | 35 Internal thoracic veins | 46 Left suprarenal vein | |
| 7 External iliac vein | 14 Renal veins | 25 Right brachiocephalic vein | 36 Thoracoacromial vein | 47 Ascending lumbar vein | |
| 8 Superficial circumflex femoral veins | 15 Right suprarenal vein | 26 Subclavian vein | 37 Pectoral veins | 48 Inferior epigastric vein | |
| | 16 Azygos vein | 27 Left brachiocephalic vein | 38 Left ventricle | 49 Common iliac vein | |
| | 17 Inferior phrenic veins | 28 External jugular vein | 39 Thoracoepigastric veins | 50 Median sacral vein | |
| | 18 Brachial veins | 29 Internal jugular vein | 40 Basilic vein | | |

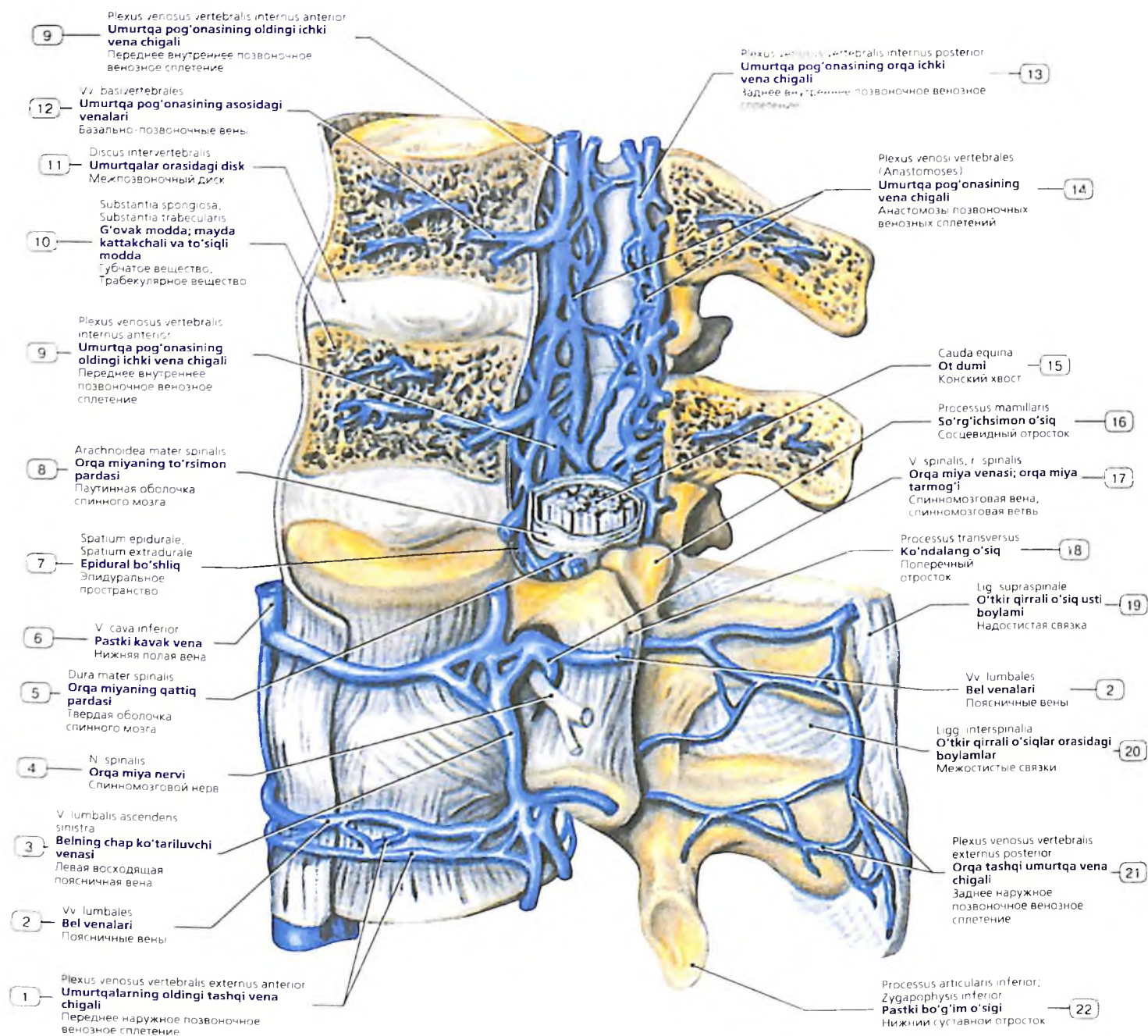


Rasm №485. Qonning vena bo'ylab harakati (A — vena klapanlari; B, B — qonning harakat mexanizmi) (chizma).
Рисунок № 485. Движение крови по венам (А — клапаны вен; Б, В — механизм движения) (схема).



Rasm № 486. Qovurg'alararo venalar.
Рисунок № 486. Межреберные вены.

- 1 Anterior intercostal veins
- 2 Posterior intercostal veins
- 3 Anterior external vertebral venous plexus
- 4 Veins of vertebral column
- 5 Azygos vein
- 6 Sternum
- 7 Internal thoracic veins

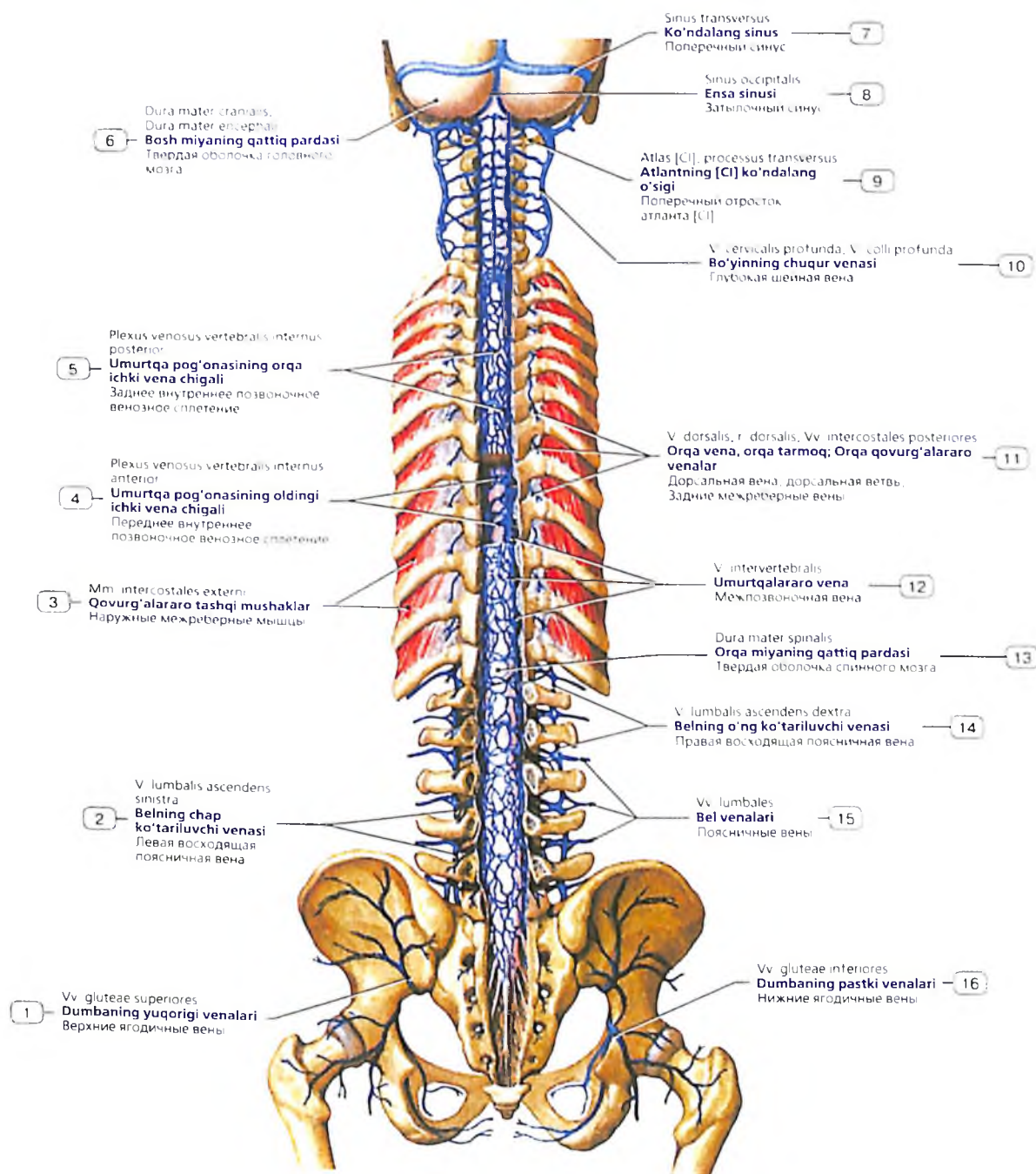


Rasm № 487. Umurtqa pog'onasining venalari, chap tomondan ko'rinishi.
Рисунок № 487. Вены позвоночного столба, вид слева.

1. Anterior external vertebral venous plexus
2. Lumbar veins
3. Left ascending lumbar vein
4. Spinal nerve
5. Spinal dura mater
6. Inferior vena cava
7. Extradural space, Epidural space
8. Spinal arachnoid mater

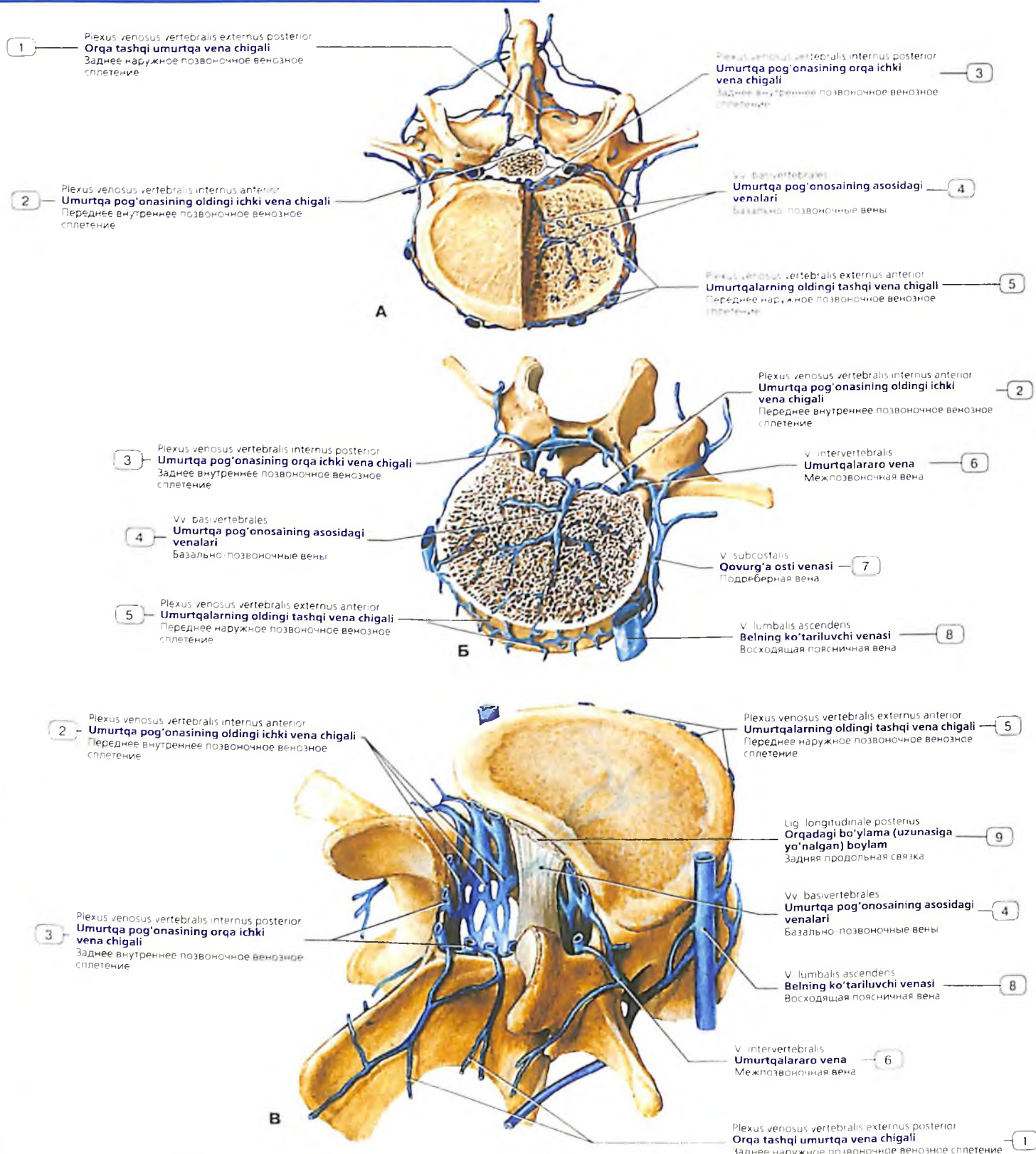
9. Anterior internal vertebral venous plexus
10. Spongy substance, Trabecular substance
11. Intervertebral disc
12. Basivertebral veins
13. Posterior internal vertebral venous plexus
14. Vertebral venous plexus (anastomosis)
15. Cauda equine
16. Mammillary process

17. Spinal vein, Spinal branch
18. Transverse process
19. Supraspinous ligament
20. Interspinal ligament
21. Posterior external vertebral venous plexus
22. Inferior articular process



Rasm № 488. Umurtqa pog'onasining venalari, orqadan ko'rinishi.
Рисунок № 488. Вены позвоночного столба, вид сзади.

- | | |
|--|--|
| 1 Superior gluteal veins | 9 Atlas [C1], transverse process |
| 2 Left ascending lumbar vein | 10 Deep cervical vein |
| 3 External intercostal muscle | 11 Dorsal vein, dorsal branch, Posterior intercostal veins |
| 4 Anterior internal vertebral venous plexus | 12 Intervertebral vein |
| 5 Posterior internal vertebral venous plexus | 13 Spinal dura mater |
| 6 Cranial dura mater | 14 Right ascending lumbar vein |
| 7 Transverse sinus | 15 Lumbar veins |
| 8 Occipital sinus | 16 Inferior gluteal veins |



Rasm № 489. Umurtqa venalari (A — yuqoridan ko'rinishi; B — umurtqa tanasining gorizontaal kesmasi;

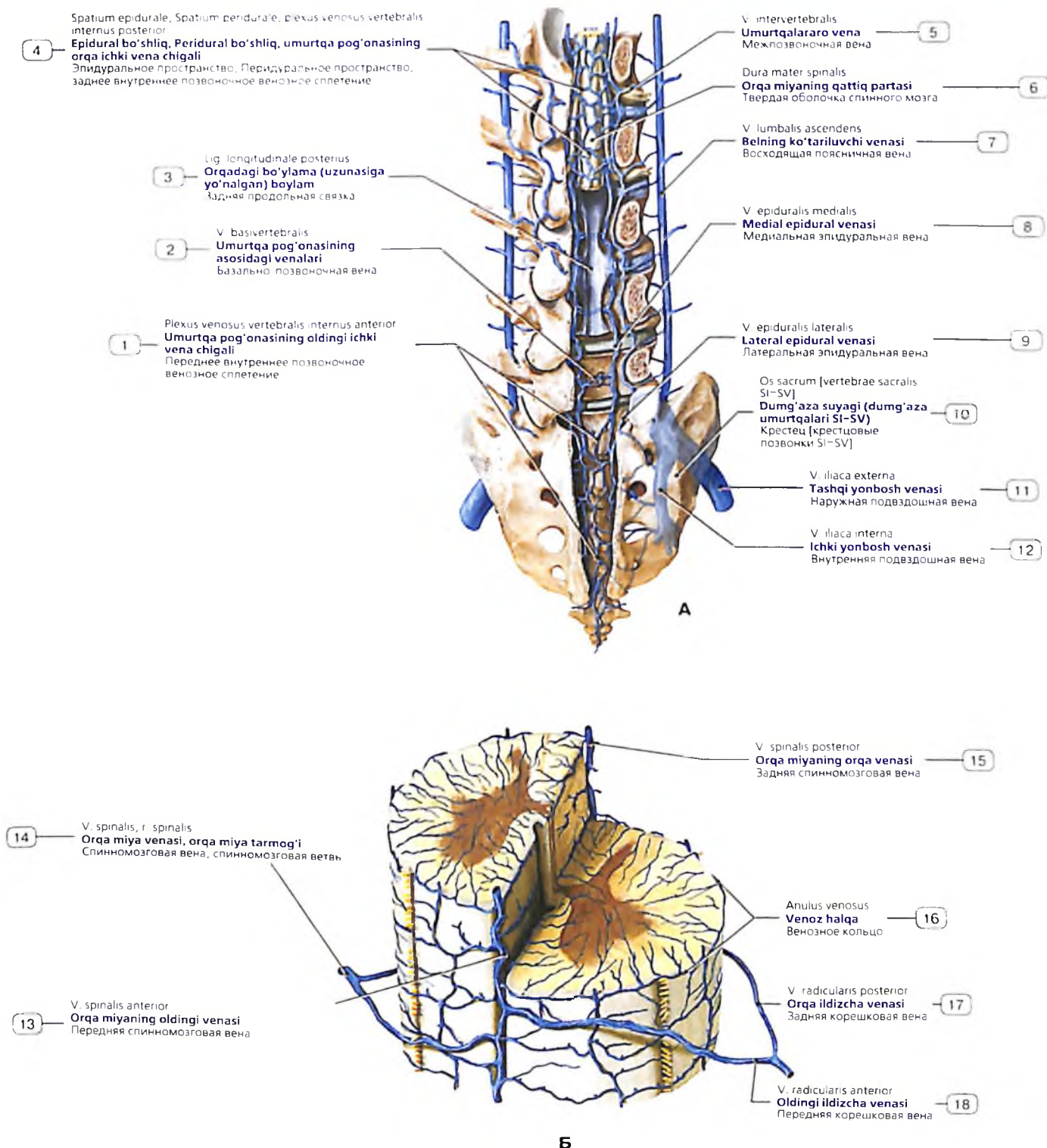
B — yon tomondan ko'rinishi, ong tomon).

Рисунок № 489. Вены позвонка (А — вид сверху; Б — горизонтальный распил тела позвонка — позвоночные венозные сплетения; В — вид сбоку, справа).

1. Posterior external vertebral venous plexus
2. Anterior internal vertebral venous plexus
3. Posterior internal vertebral venous plexus

4. Basivertebral veins
5. Anterior external vertebral venous plexus
6. Intervertebral vein

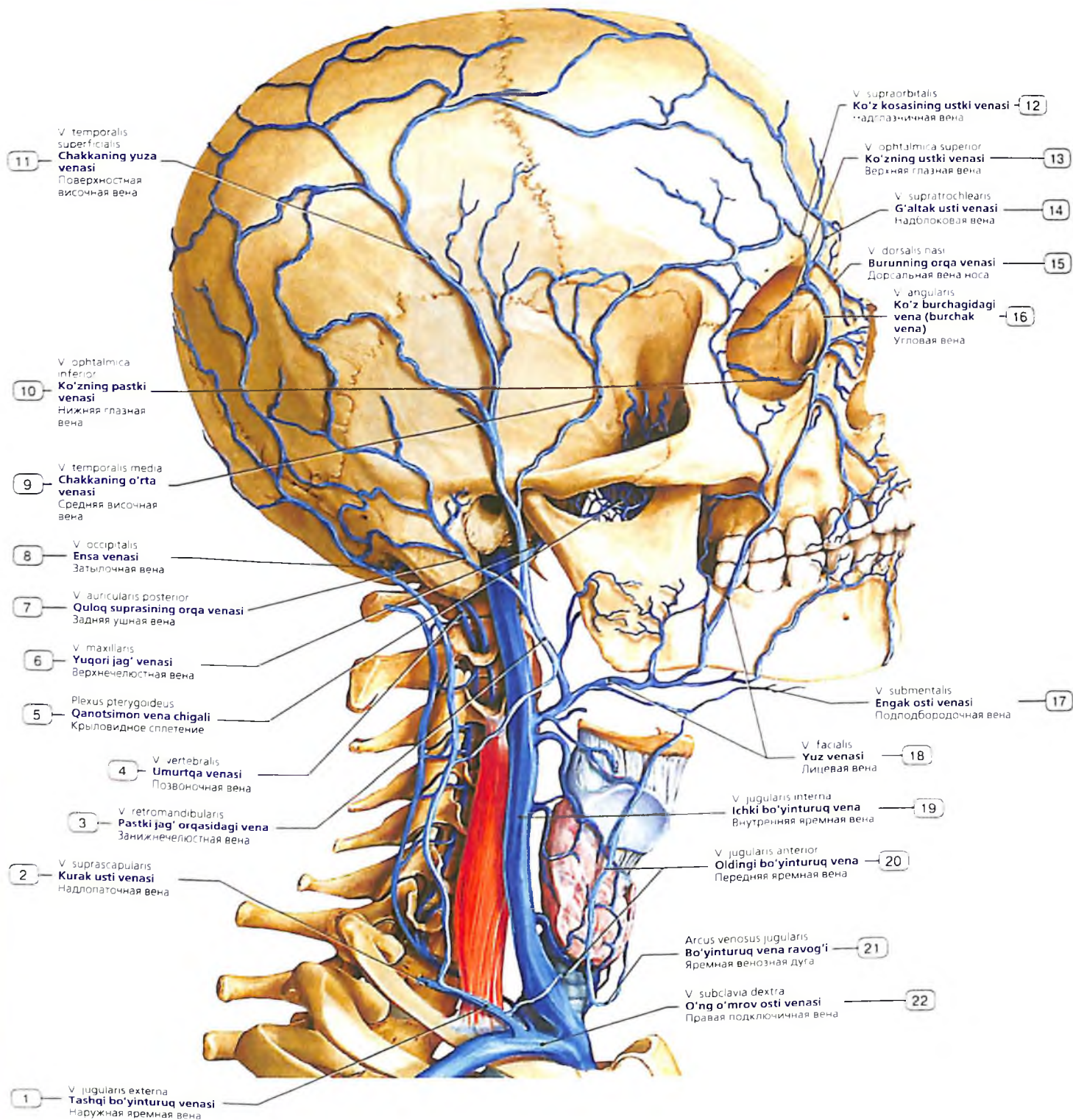
7. Subcostal vein
8. Ascending lumbar vein
9. Posterior longitudinal ligament



Rasm № 490. Umurtqa pog'onasi va orqa miya venalari (A — umurtqa kanali bel va dumg'aza qismlarining epidural venalari, umurtqa kanali ochilgan; B — orqa miya segmentining venoz oqimi).

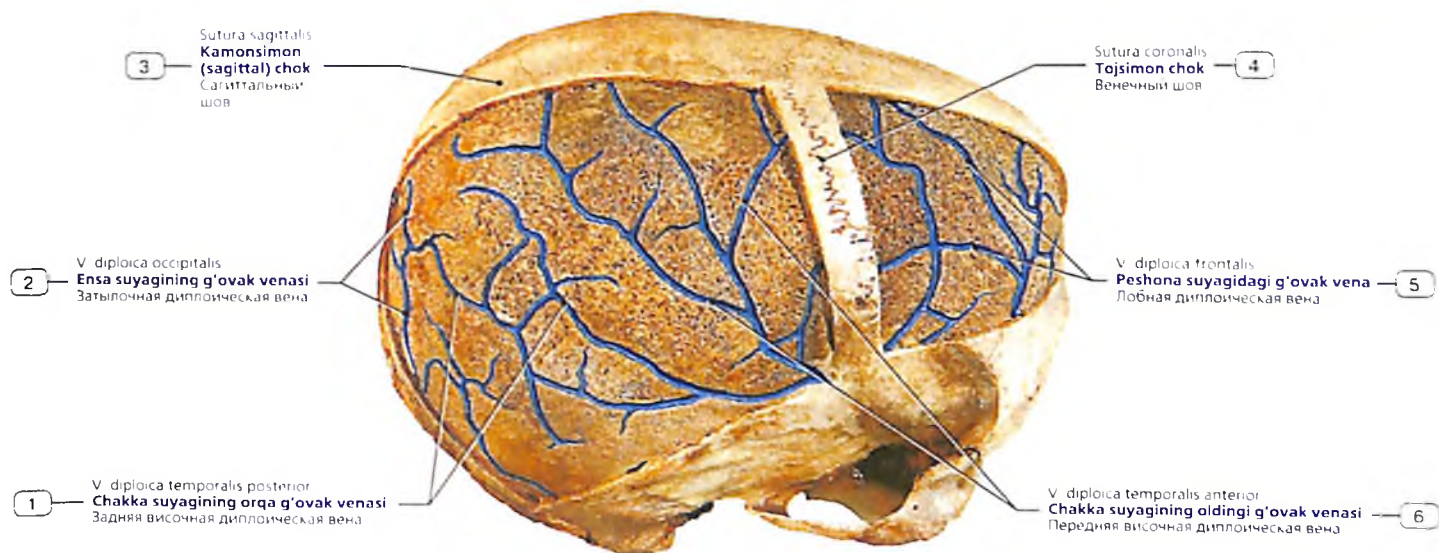
Рисунок № 490. Вены спинного мозга и позвоночного столба (A — эпидуральные вены в поясничном и крестцовом отделах позвоночного канала, позвоночный канал вскрыт; B — венозный отток от сегмента спинного мозга).

- | | | | |
|---|--------------------------|-------------------------------------|------------------------------|
| 1. Anterior internal vertebral venous plexus | 5. Intervertebral vein | 10. Sacrum [sacral vertebrae SI-SV] | 15. Posterior spinal vein |
| 2. Basivertebral vein | 6. Spinal dura mater | 11. External iliac vein | 16. Venous ring |
| 3. Posterior longitudinal ligament | 7. Ascending lumbar vein | 12. Internal iliac vein | 17. Posterior radicular vein |
| 4. Epidural space, posterior internal vertebral venous plexus | 8. Medical epidural vein | 13. Anterior spinal vein | 18. Anterior radicular vein |
| | 9. Lateral epidural vein | 14. Spinal vein, spinal branch | |



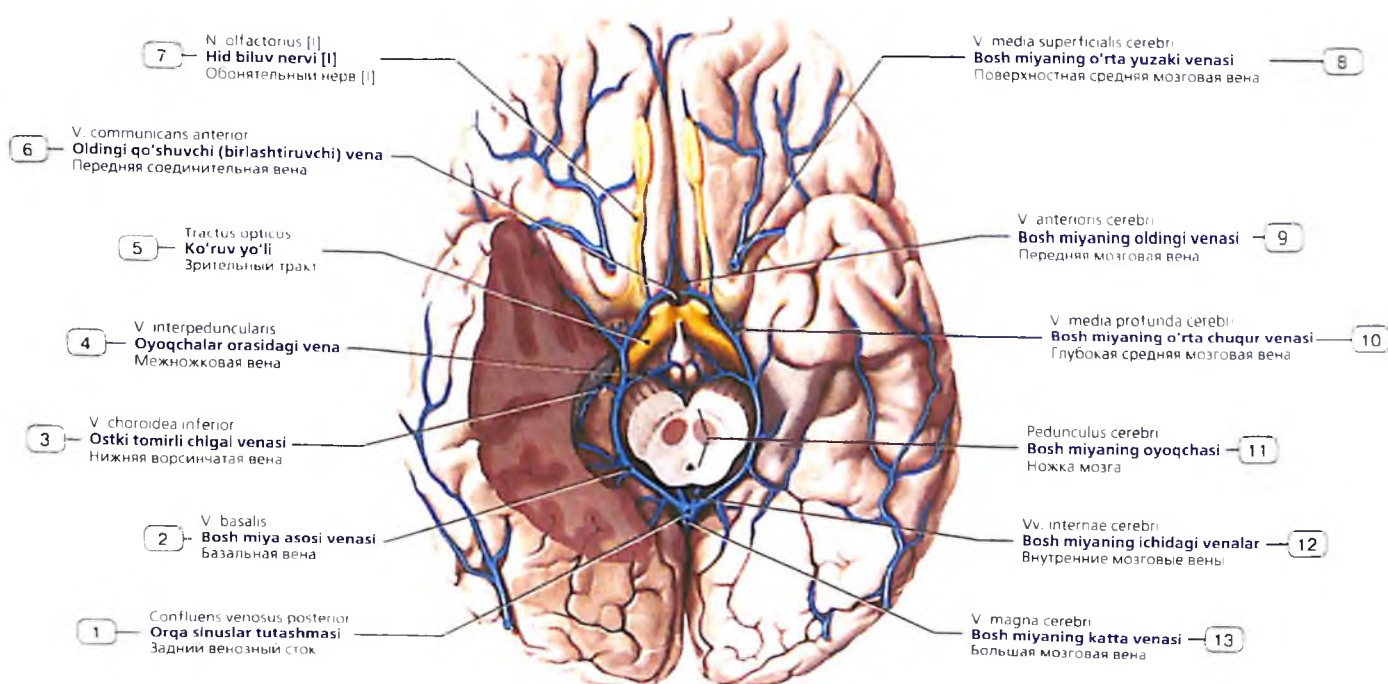
Rasm № 491. Bosh va bo'yinning venalari.
Рисунок № 491. Вены головы и шеи.

- | | | |
|----------------------------|------------------------------|--------------------------|
| 1 External jugular vein | 9 Middle temporal vein | 17 Submental vein |
| 2 Suprascapular vein | 10 Inferior ophthalmic vein | 18 Facial vein |
| 3 Retromandibular vein | 11 Superficial temporal vein | 19 Internal jugular vein |
| 4 Vertebral vein | 12 Supra-orbital vein | 20 Anterior jugular vein |
| 5 Pterygoid plexus | 13 Superior ophthalmic vein | 21 Jugular venous arch |
| 6 Maxillary vein | 14 Supratrochlear vein | 22 Right subclavian vein |
| 7 Posterior auricular vein | 15 Dorsal nasal vein | |
| 8 Occipital vein | 16 Angular vein | |



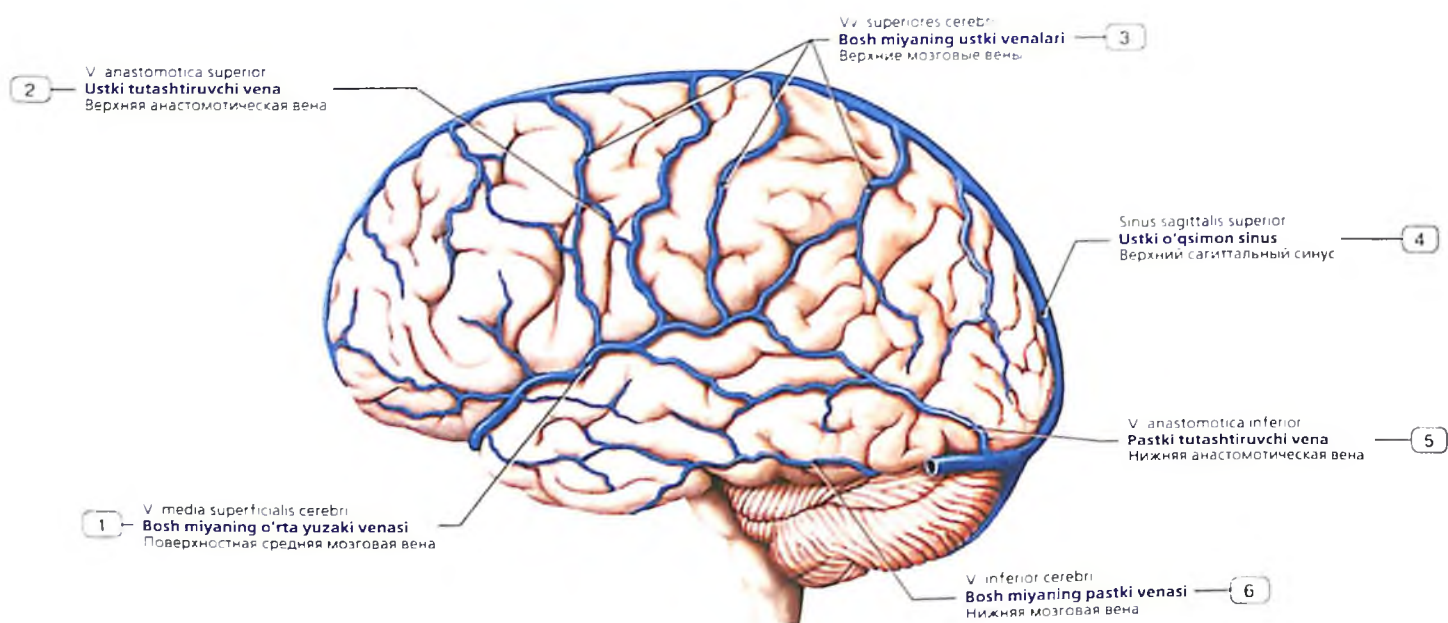
Rasm № 492. G'ovak venalar, yon tomondan ko'rinishi, o'ng tomon.
Рисунок № 492. Диплоические вены, вид сбоку, справа.

- | | |
|-----------------------------------|----------------------------------|
| 1 Posterior temporal diploic vein | 4 Coronal suture |
| 2 Occipital diploic vein | 5 Frontal diploic vein |
| 3 Sagittal suture | 6 Anterior temporal diploic vein |

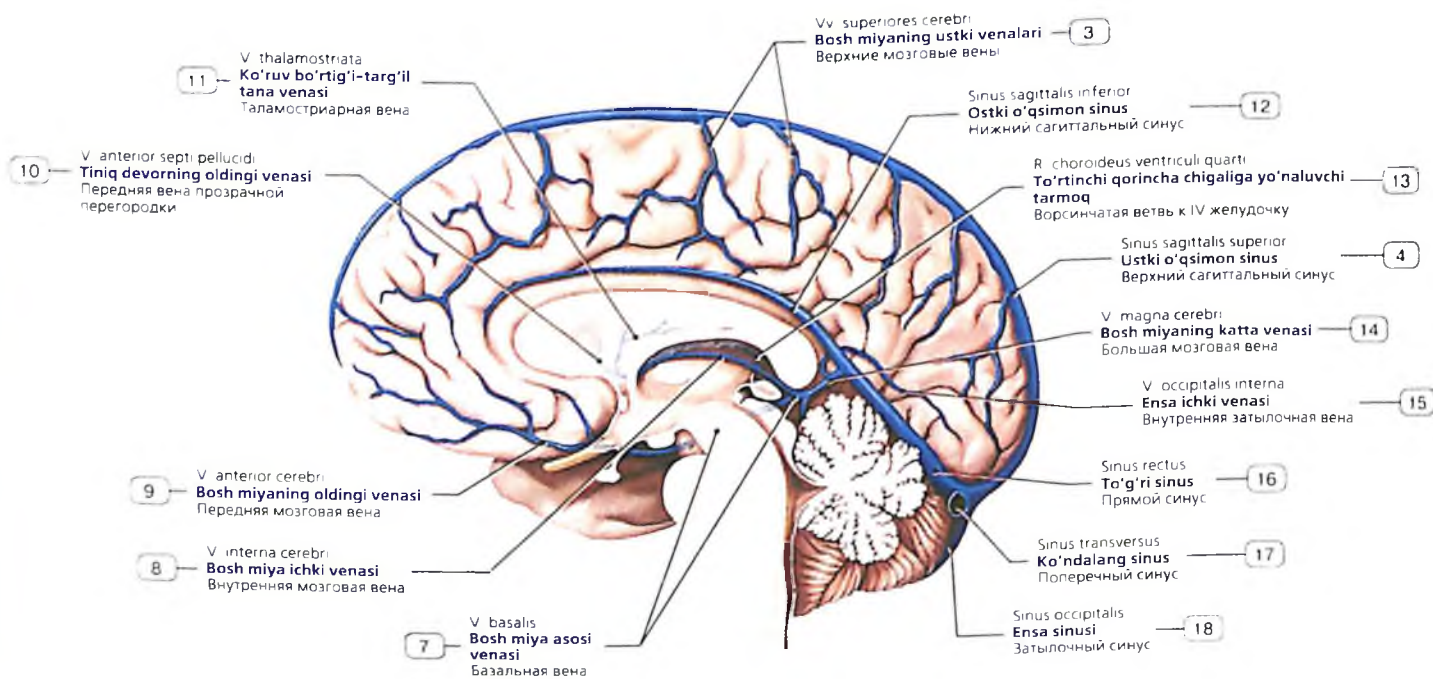


Rasm № 493. Bosh miya venalari, pastdan ko'rinishi.
Рисунок № 493. Вены головного мозга, вид снизу.

- | | | |
|-------------------------------|------------------------------------|----------------------------|
| 1 Posterior venous confluence | 6 Anterior communicating vein | 11 Cerebral peduncle |
| 2 Basal vein | 7 Olfactory nerve [I] | 12 Internal cerebral veins |
| 3 Inferior choroid vein | 8 Superficial middle cerebral vein | 13 Great cerebral vein |
| 4 Interpeduncular vein | 9 Anterior cerebral vein | |
| 5 Optic tract | 10 Deep middle cerebral vein | |



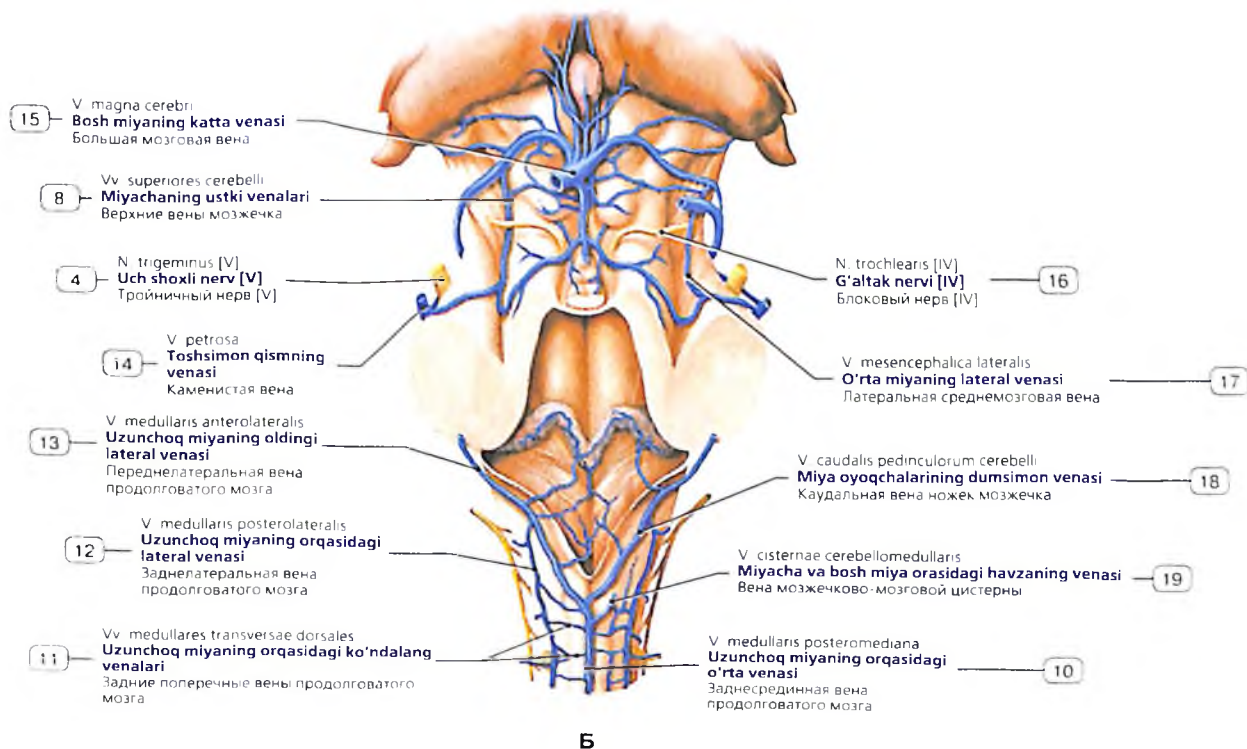
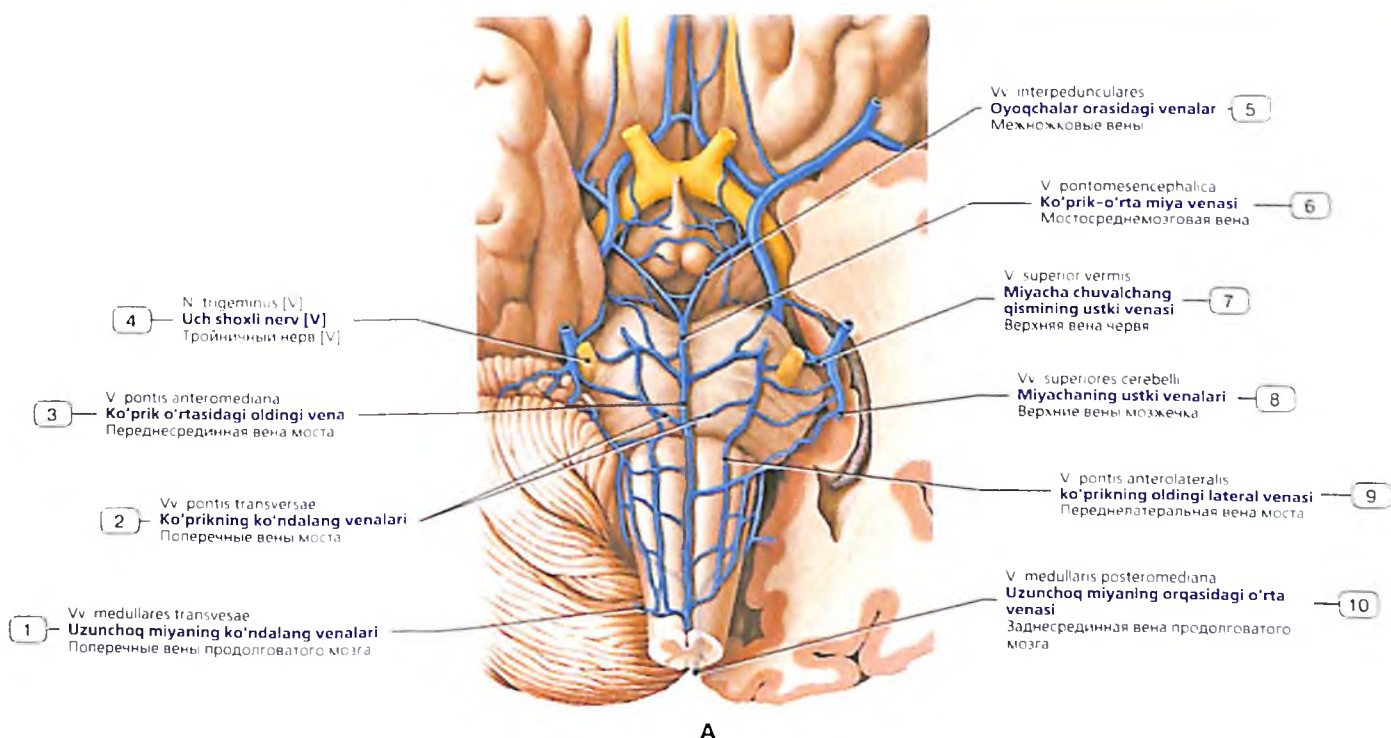
A



B

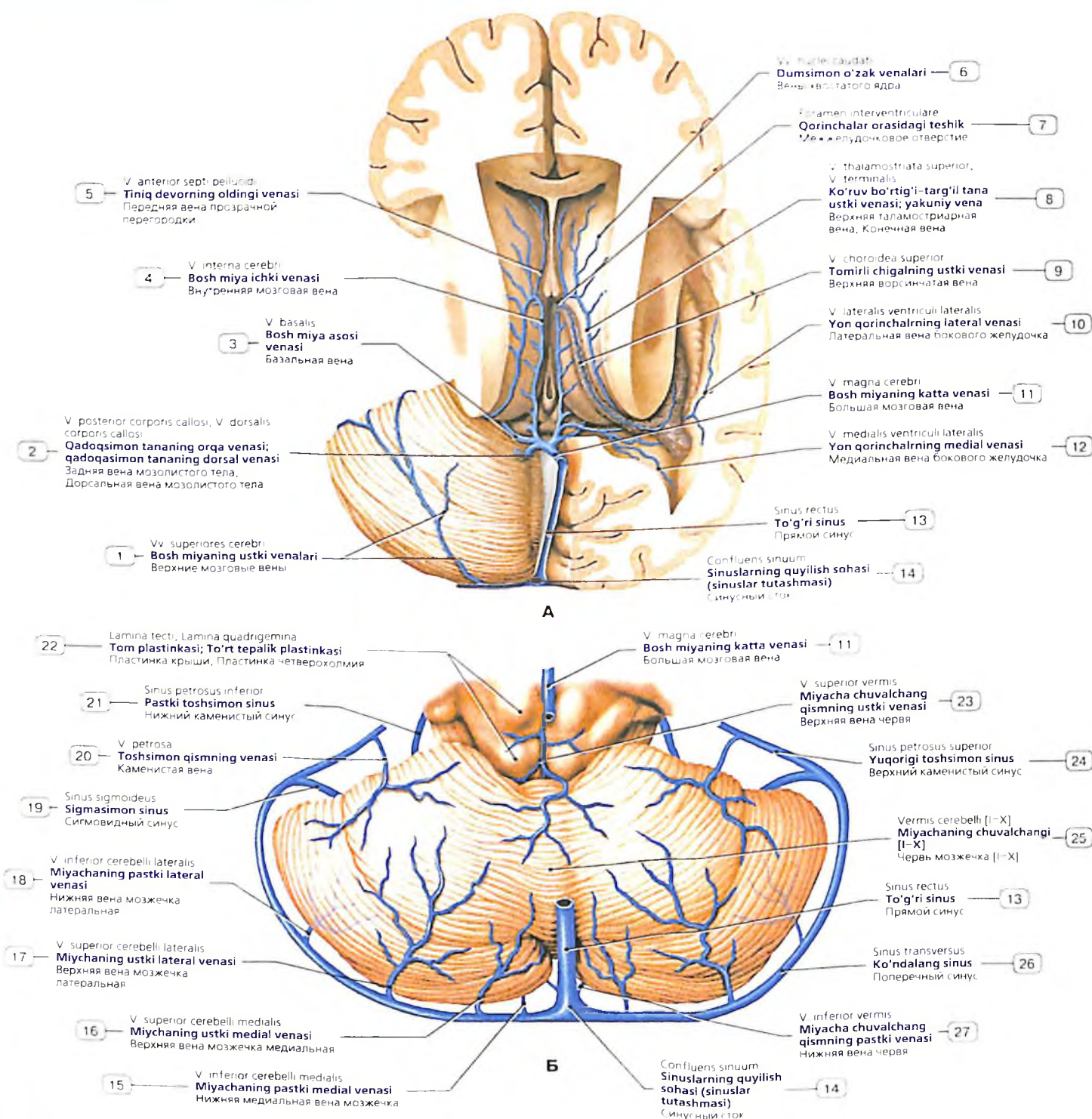
Рисунок № 494. Вены головного мозга (А — верхнелатеральная поверхность; Б — медиальная поверхность).

- | | | |
|------------------------------------|---------------------------------------|---|
| 1 Superficial middle cerebral vein | 7 Basal vein | 13 Choroidal branch to fourth ventricle |
| 2 Superior anastomotic vein | 8 Internal cerebral vein | 14 Great cerebral vein |
| 3 Superior cerebral veins | 9 Anterior cerebral vein | 15 Internal occipital vein |
| 4 Superior sagittal sinus | 10 Anterior vein of septum pellucidum | 16 Straight sinus |
| 5 Inferior anastomotic vein | 11 Thalamostriate vein | 17 Transverse sinus |
| 6 Inferior cerebral veins | 12 Inferior sagittal sinus | 18 Occipital sinus |



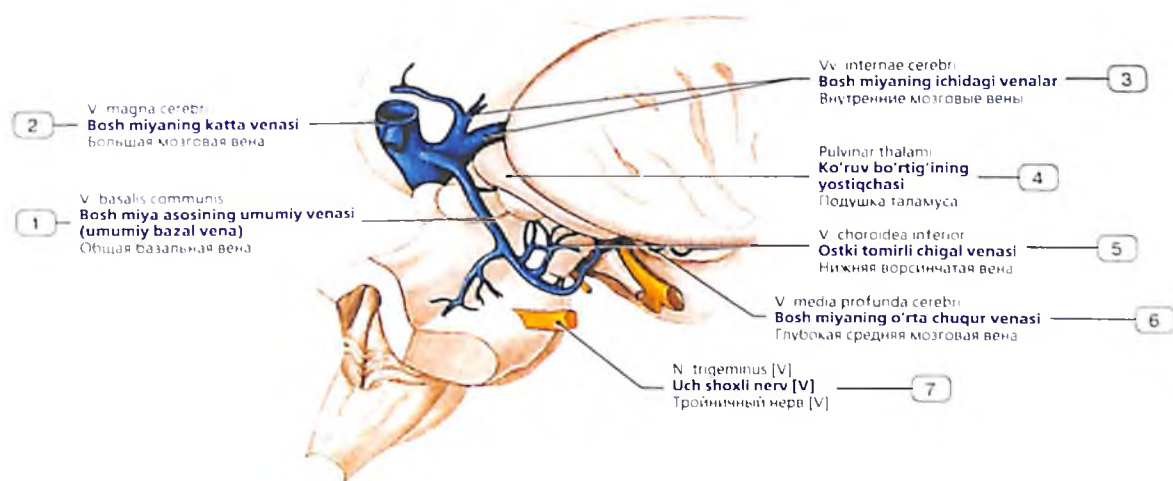
Rasm № 495. Bosh miya so'g'oni venalari (A — pastdan ko'rinishi; B — yuqoridan ko'rinishi).
Рисунок № 495. Вены ствола головного мозга (А — вид снизу; Б — вид сверху).

- | | | | |
|------------------------------|---|--------------------------------------|---------------------------------------|
| 1 Transverse medullary veins | 6 Pontomesencephalic vein | 11 Dorsal transverse medullary veins | 16 Trochlear nerve [IV] |
| 2 Transverse pontine veins | 7 Superior vein of vermis | 12 Posterolateral medullary vein | 17 Lateral mesencephalic vein |
| 3 Anteromedian pontine vein | 8 Superior veins of cerebellar hemisphere | 13 Anterolateral medullary vein | 18 Caudal cerebellar peduncular vein |
| 4 Trigeminal nerve [V] | 9 Anterolateral pontine vein | 14 Petrosal vein | 19 Vein of cerebellomedullary cistern |
| 5 Interpeduncular veins | 10 Posteromedian medullary vein | 15 Great cerebral vein | |



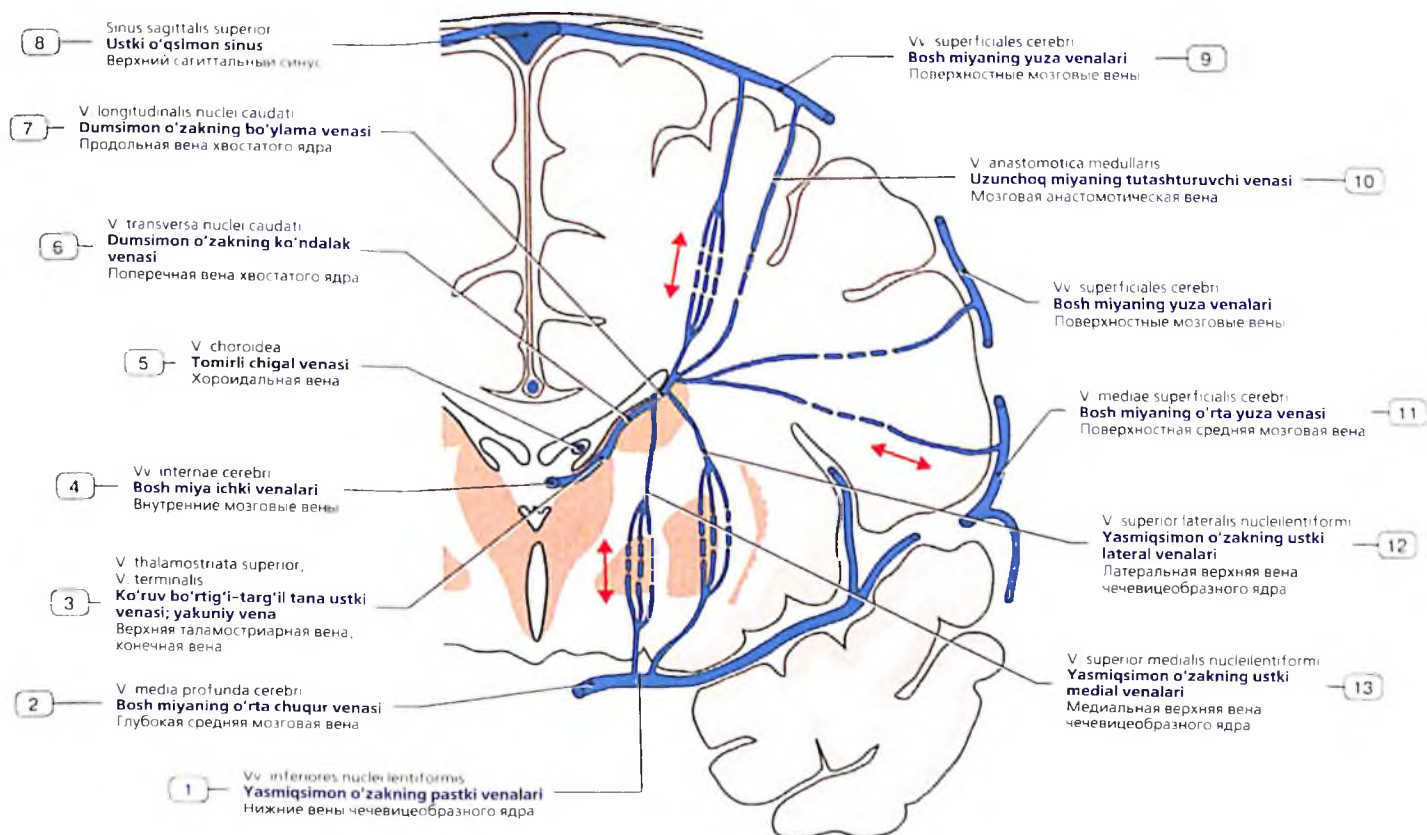
Rasm № 496. Bosh miya venalari (A — oraliq va o'rta miya venalari; B — miyacha venalari, yuqoridan ko'rinishi).
Рисунок № 496. Вены головного мозга (A — вены промежуточного и среднего мозга; B — вены мозжечка, вид сверху).

- | | | |
|---|---|--------------------------------------|
| 1 Superior cerebral veins | 10 Lateral vein of lateral ventricle | 20 Petrosal vein |
| 2 Posterior vein of corpus callosum, Dorsal vein of corpus callosum | 11 Great cerebral vein | 21 Inferior petrosal sinus |
| 3 Basal vein | 12 Medial vein of lateral ventricle | 22 Tectal plate, Quadrigeminal plate |
| 4 Internal cerebral vein | 13 Straight sinus | 23 Superior vein of vermis |
| 5 Anterior vein of septum pellucidum | 14 Confluence of sinuses | 24 Superior petrosal sinus |
| 6 Veins of caudate nucleus | 15 Medial inferior vein of cerebellar hemisphere | 25 Vermis of cerebellum [I-X] |
| 7 Interventricular foramen | 16 Medial superior vein of cerebellar hemisphere | 26 Transverse sinus |
| 8 Superior thalamostriate vein | 17 Lateral superior vein of cerebellar hemisphere | 27 Inferior vein of vermis |
| 9 Superior choroidea vein | 18 Lateral inferior vein of cerebellar hemisphere | |
| | 19 Sigmoid sinus | |



Rasm № 497. Bosh miyanning chuqur venalari.
Рисунок № 497. Глубокие вены головного мозга.

- | | |
|---------------------------|-----------------------------|
| 1 Common basal vein | 5 Inferior choroid vein |
| 2 Great cerebral vein | 6 Deep middle cerebral vein |
| 3 Internal cerebral veins | 7 Trigeminal nerve [V] |
| 4 Pulvinar | |



Rasm № 498. Bosh miya venalari anastomozlari (chizma, qizil chiziqlar bilan qon harakati belgilangan).
Рисунок № 498. Анастомозы вен головного мозга (схема, красными стрелками отмечено направление оттока крови).

- | | | |
|---|--|---|
| 1 Inferior veins of lentiformis nucleus | 6 Transverse vein of caudate nucleus | 11 Superficial middle cerebral vein |
| 2 Deep middle cerebral vein | 7 Longitudinal vein of caudate nucleus | 12 Lateral superior vein of lentiformis nucleus |
| 3 Superior thalamostriate vein | 8 Superior sagittal sinus | 13 Medial superior vein of lentiformis nucleus |
| 4 Internal cerebral veins | 9 Superficial cerebral veins | |
| 5 Choroidal vein | 10 Medullary anastomotic vein | |

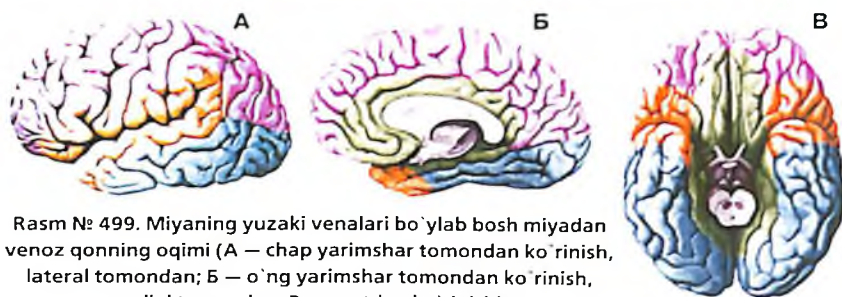


Рис. № 499. Мишнинг yuzaki venalari bo'ylab bosh miyadan venoz qonning oqimi (A — chap yarimshar tomondan ko'rinish, lateral tomondan; B — o'ng yarimshar tomondan ko'rinish, medial tomondan; V — pastdan ko'rinishi).

Рисунок № 499. Области венозного оттока от головного мозга по поверхностным мозговым венам (A — вид на левое полушарие, латерально; B — вид на правое полушарие, медиально; V — вид снизу).

- VI. Superficiales cerebri ascendentes
Bosh miyaning ko'tariluvchi yuzaki venalari
Поверхностные восходящие мозговые вены
Superficial ascending cerebral veins
- VII. Media superficialis cerebri
Bosh miyaning o'rta yuzaki venasi
Поверхностная средняя мозговая вена
Superficial middle cerebral vein
- VIII. Superficiales cerebri descendentes
Bosh miyaning tushuvchi yuzaki venalari
Поверхностные нисходящие мозговые вены
Superficial descending cerebral veins
- IX. Basalis
Bosh miya asosi venasi
Базальная вена
Basilar vein

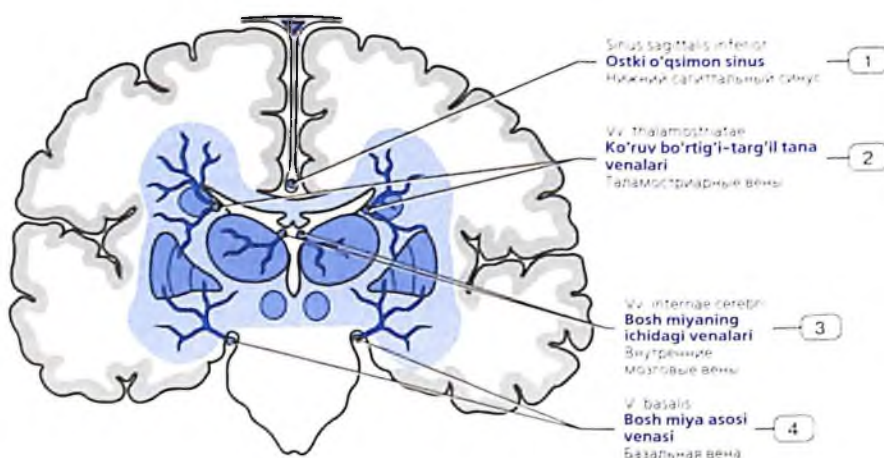


Рис. № 500. Bosh miya chuqur venalari bo'ylab venoz oqim (rang bilan ajratilgan), frontal kesma.

Рисунок № 500. Области венозного оттока от головного мозга по глубоким мозговым венам (выделено цветом), фронтальный разрез.

- 1 Inferior sagittal sinus
- 2 Thalamostriate veins
- 3 Internal cerebral veins
- 4 Basal vein

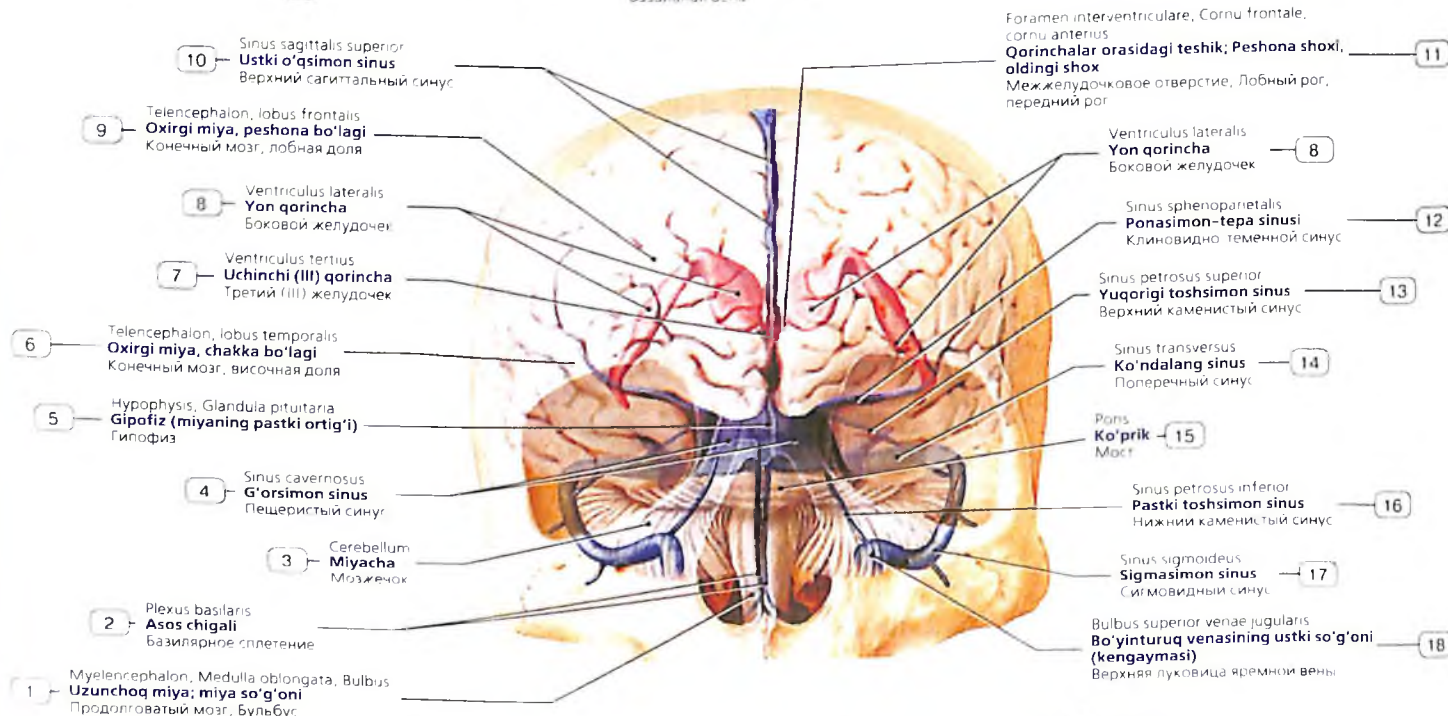
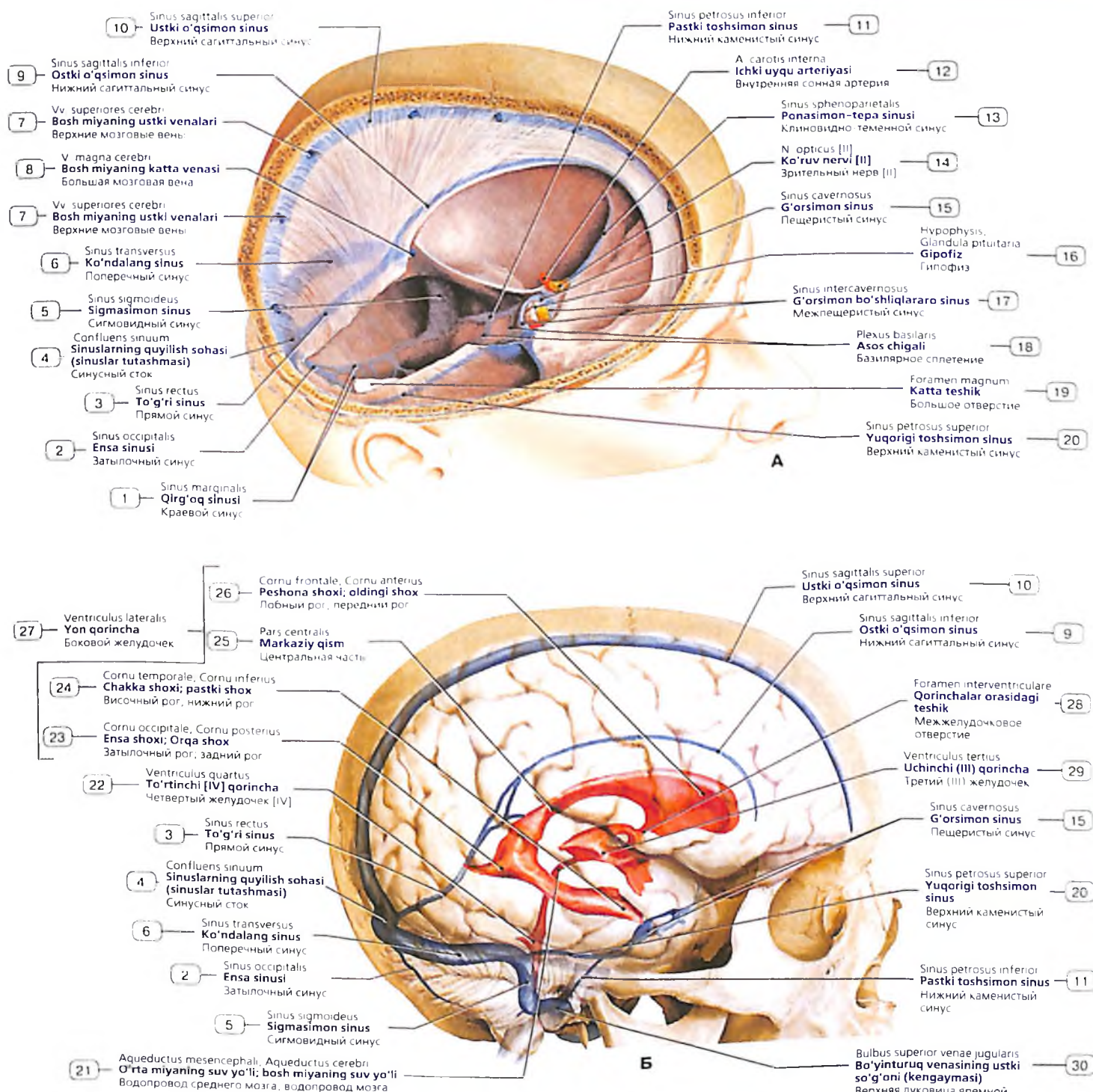


Рис. № 501. Bosh miya qattiq pardasi sinuslari, old tomondan ko'rinishi.
Рисунок № 501. Синусы твердой оболочки головного мозга, вид спереди.

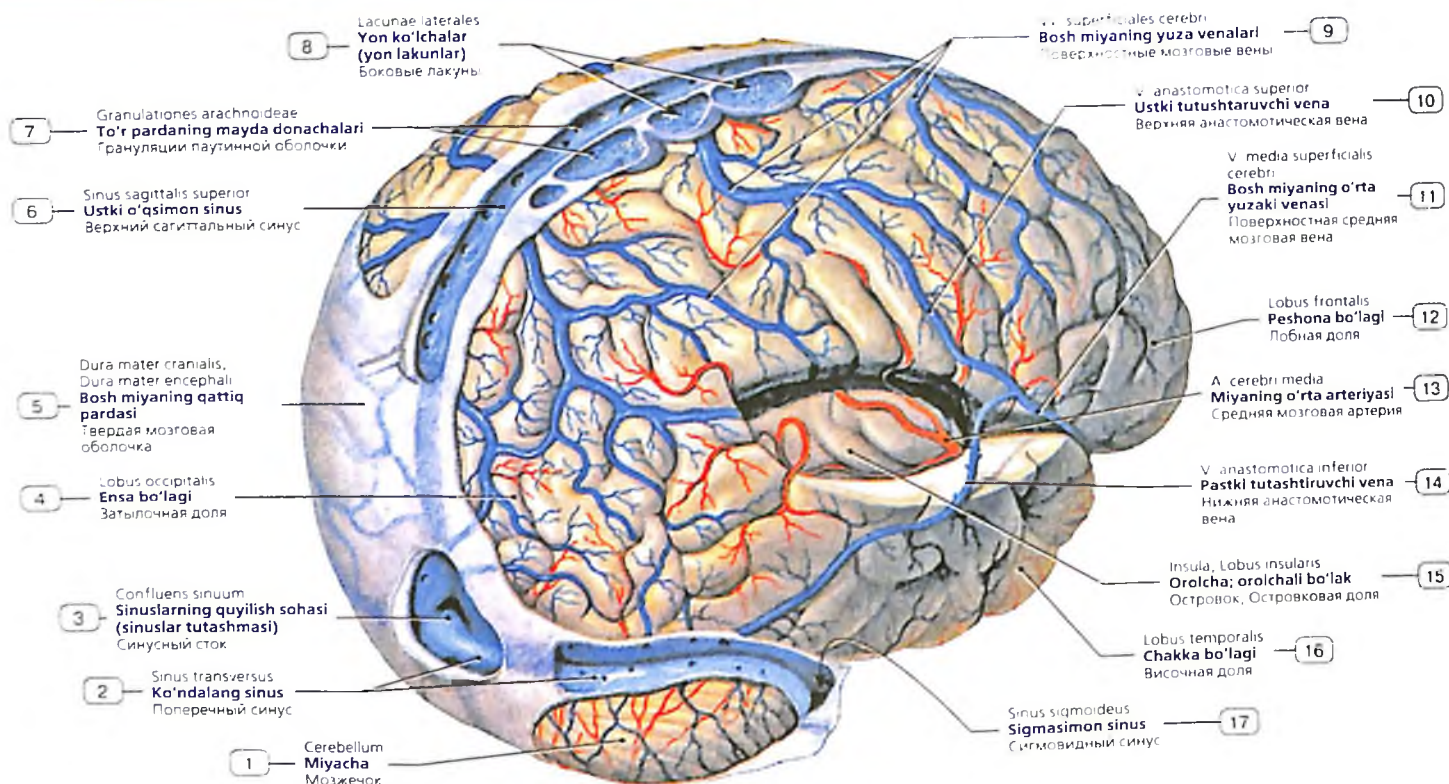
- 1 Myelencephalon, Medulla oblongata, Bulb
- 2 Basilar plexus
- 3 Cerebellum
- 4 Cavernous sinus
- 5 Pituitary gland
- 6 Telencephalon, temporal lobe
- 7 Third ventricle
- 8 Lateral ventricle
- 9 Telencephalon, frontal lobe
- 10 Superior sagittal sinus
- 11 Interventricular foramen
- 12 Sphenoparietal sinus
- 13 Superior petrosal sinus
- 14 Transverse sinus
- 15 Pons
- 16 Inferior petrosal sinus
- 17 Sigmoid sinus
- 18 Superior bulb of jugular vein



Rasm № 502. Bosh miya qattiq pardasi sinuslari, yon tomondan ko'rinishi (A — bosh miya olib tashlangan; B — bosh miya saqlanib, miya qorinchalari ko'ringan).

Рисунок № 502. Синусы твердой оболочки головного мозга, вид сбоку (А — головной мозг удален; Б — головной мозг сохранен, видны желудочки мозга).

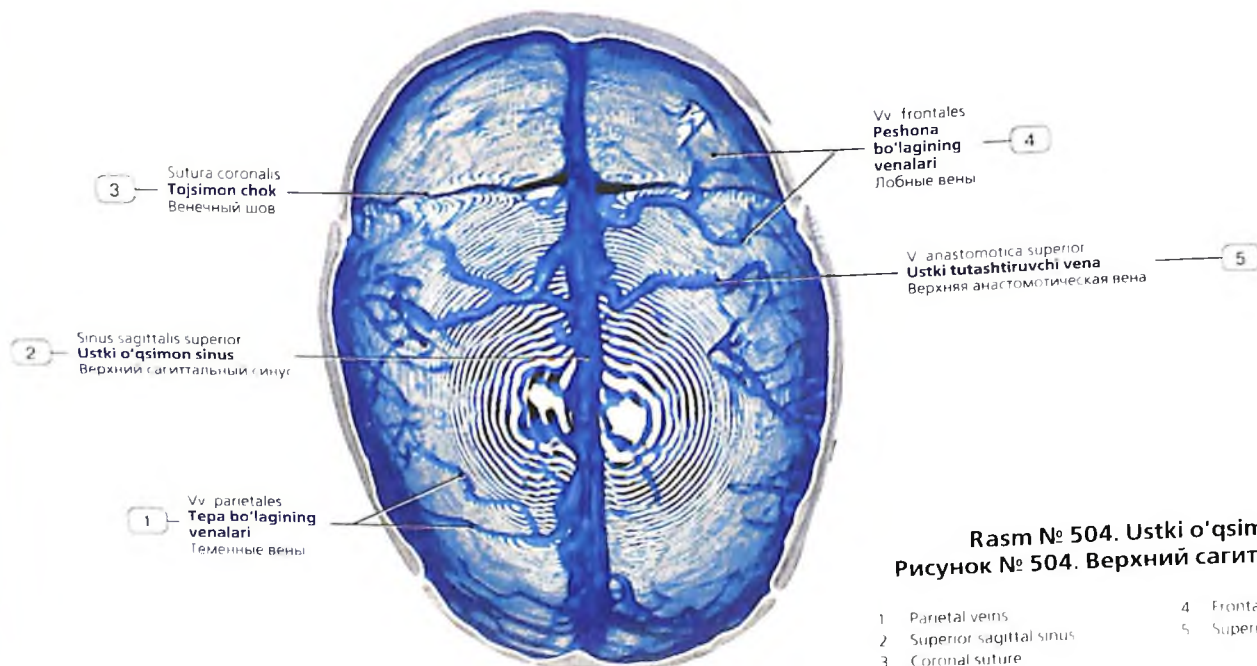
- | | | | |
|---------------------------|----------------------------|--|----------------------------------|
| 1 Marginal sinus | 9 Inferior sagittal sinus | 17 Intercavernous sinus | 24 Temporal horn, Inferior horn |
| 2 Occipital sinus | 10 Superior sagittal sinus | 18 Basilar plexus | 25 Central part, Body |
| 3 Straight sinus | 11 Inferior petrosal sinus | 19 Foramen magnum | 26 Anterior horn, Ventral horn |
| 4 Confluence of sinuses | 12 Internal carotid artery | 20 Superior petrosal sinus | 27 Lateral ventricle |
| 5 Sigmoid sinus | 13 Sphenoparietal sinus | 21 Aqueduct of midbrain, Cerebral aqueduct | 28 Interventricular foramen |
| 6 Transverse sinus | 14 Optic nerve [III] | 22 Fourth ventricle | 29 Third ventricle |
| 7 Superior cerebral veins | 15 Cavernous sinus | 23 Occipital horn, Posterior horn | 30 Superior bulb of jugular vein |
| 8 Great cerebral vein | 16 Pituitary gland | | |



Rasm № 503. Bosh miya qattiq pardasi sinuslari va unga quyuluvchi katta miyaning vena oqimlari, bosh miya chakka bo'lagi va qattiq pardasi qisman olingan, ustki o'qsimon sinus, ko'ndalang sinus va sinuslarning quyilish sohasi qisman ochilgan, yon (o'ng tomon) va orqa ko'rinishi.

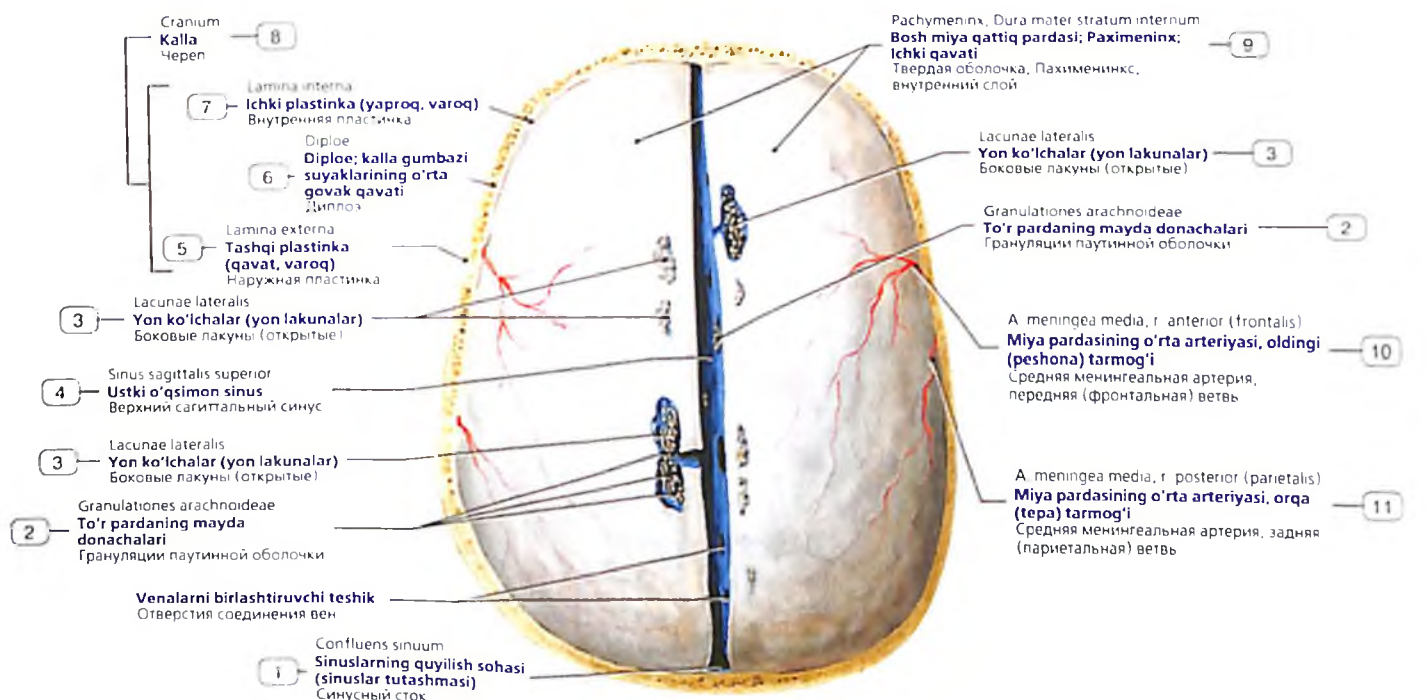
Рисунок № 503. Синусы твердой мозговой оболочки головного мозга и впадающие в них вены большого мозга, часть твердой оболочки и височной доли мозга удалена, часть верхнего сагиттального и поперечного синусов, а также синусный сток вскрыты, вид сбоку (справа) и сзади.

- | | | | | |
|-------------------------|---------------------------|-------------------------------------|------------------------------|-------------------------|
| 1 Cerebellum | 5 Cranial dura mater | 9 Superficial cerebral veins | 12 Frontal lobe | 15 Insula, Insular lobe |
| 2 Transverse sinus | 6 Superior sagittal sinus | 10 Superior anastomotic vein | 13 Middle cerebral artery | 16 Temporal lobe |
| 3 Confluence of sinuses | 7 Arachnoid granulations | 11 Superficial middle cerebral vein | 14 Inferior anastomotic vein | 17 Sigmoid sinus |
| 4 Occipital lobe | 8 Lateral lacunae | | | |

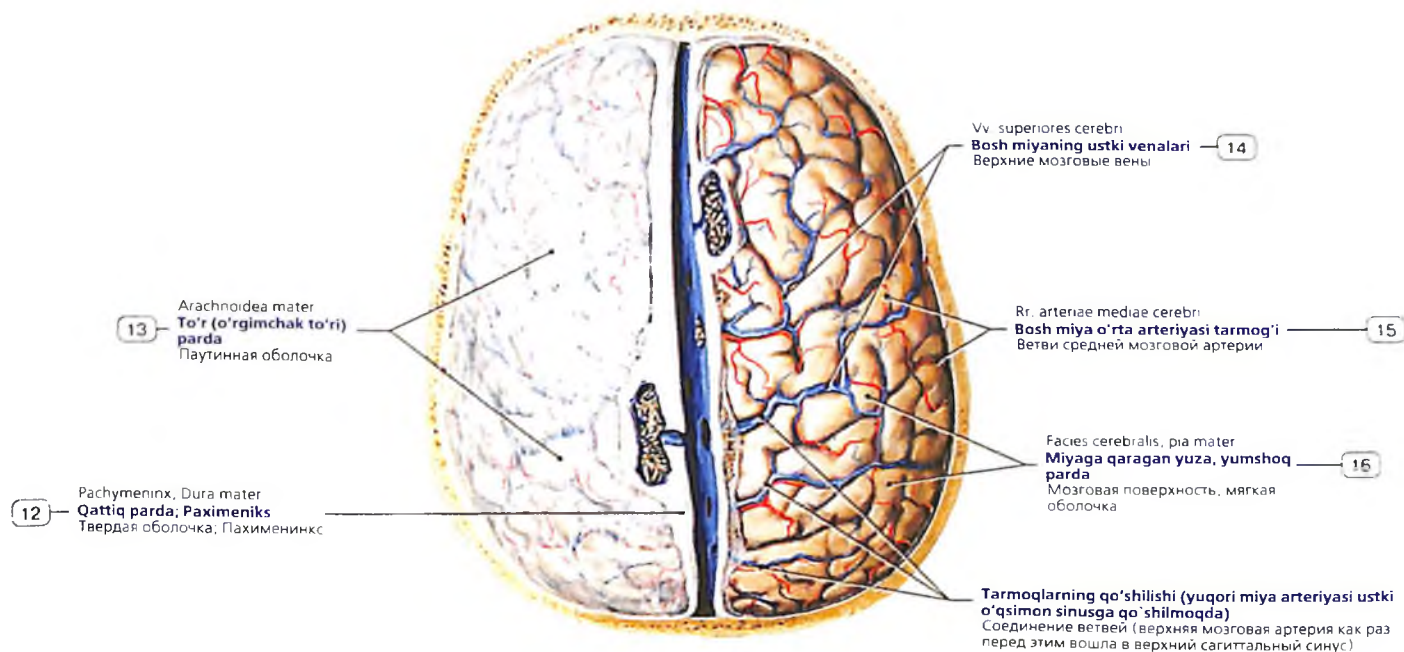


Rasm № 504. Ustki o'qsimon sinus.
Рисунок № 504. Верхний сагиттальный синус.

- | | |
|---------------------------|-----------------------------|
| 1 Parietal veins | 4 Frontal veins |
| 2 Superior sagittal sinus | 5 Superior anastomotic vein |
| 3 Coronal suture | |



A



B

Rasm № 505. Bosh miya qattiq pardasining ustki o'qsimon sinusi (A — bosh miya qattiq pardasi saqlangan; B — o'ng tomon bosh miya qattiq pardasi olingan).

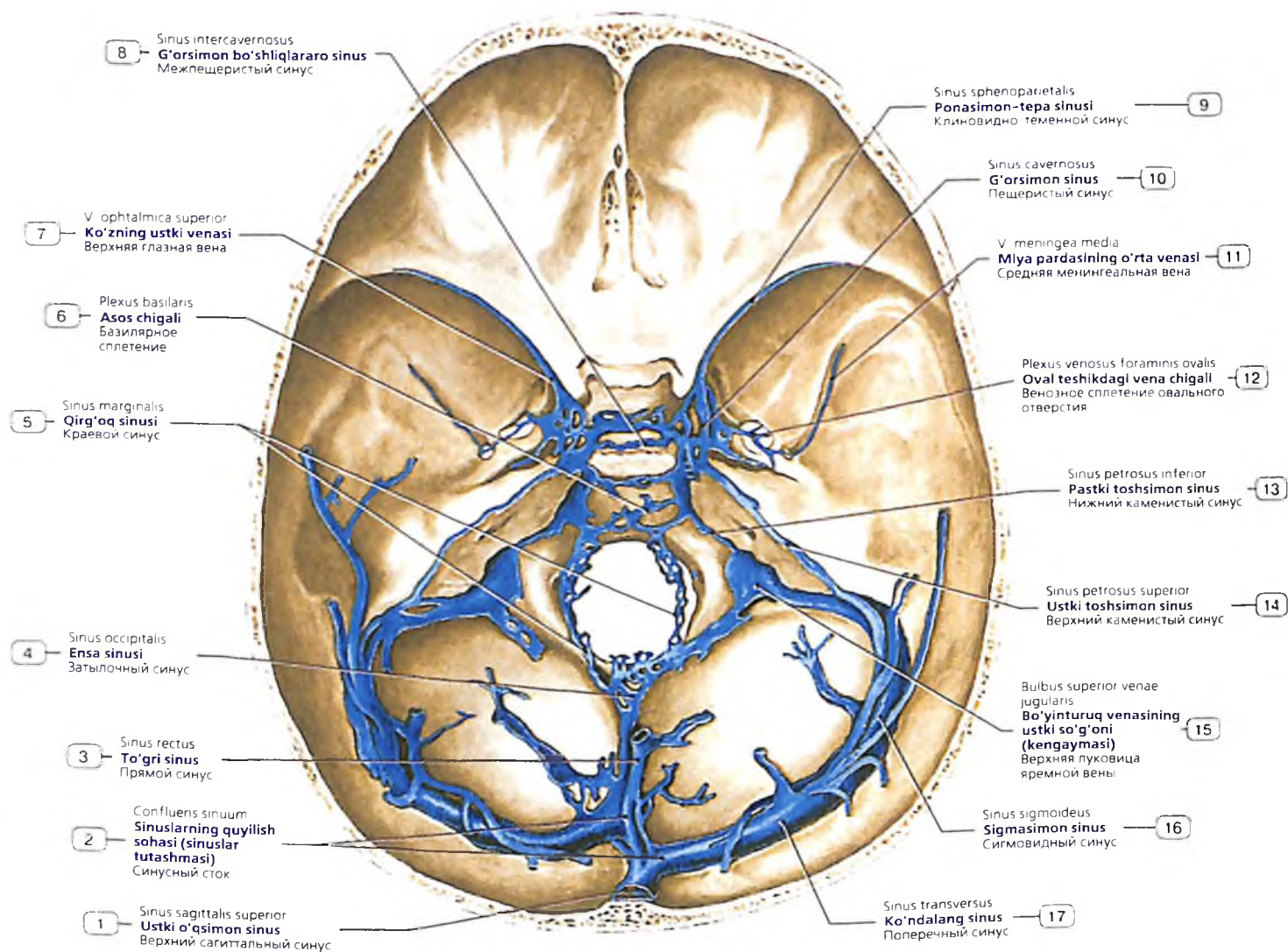
Рисунок № 505. Верхний сагиттальный синус твердой мозговой оболочки головного мозга (А — твердая оболочка головного мозга сохранена; Б — твердая оболочка головного мозга справа удалена).

- 1 Confluence of sinuses
- 2 Arachnoid granulations
- 3 Lateral lacunae
- 4 Superior sagittal sinus
- 5 External plate

- 6 Diploe
- 7 Internal plate
- 8=5+6+7 Cranium
- 9 Pachymeninx, Dura mater, internal layer

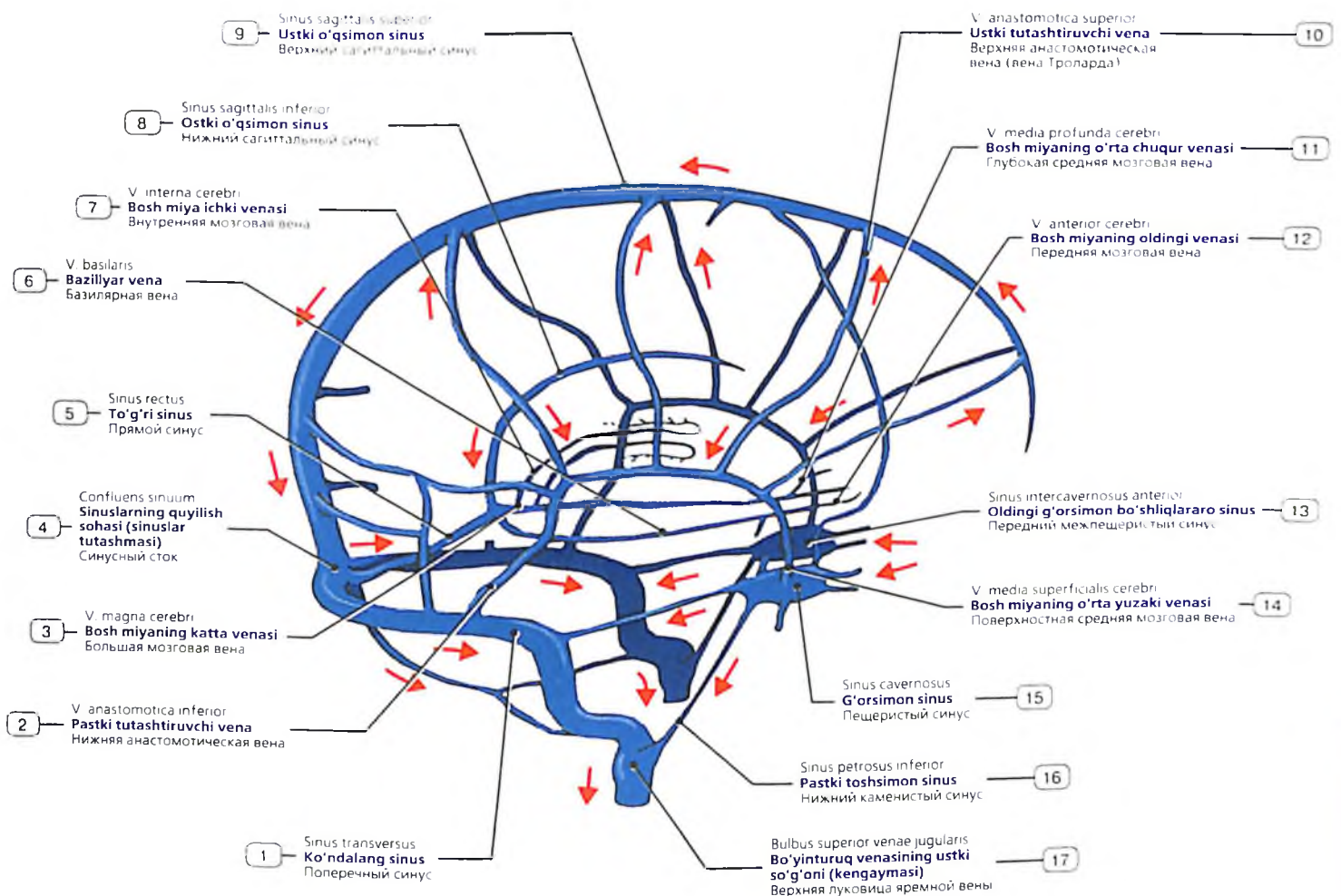
- 10 Middle meningeal artery, anterior (frontal) branch
- 11 Middle meningeal artery, posterior (parietal) branch
- 12 Pachymeninx, Dura mater

- 13 Arachnoid mater
- 14 Superior cerebral veins
- 15 Branches of middle cerebral artery
- 16 Cerebral surface, pia mater



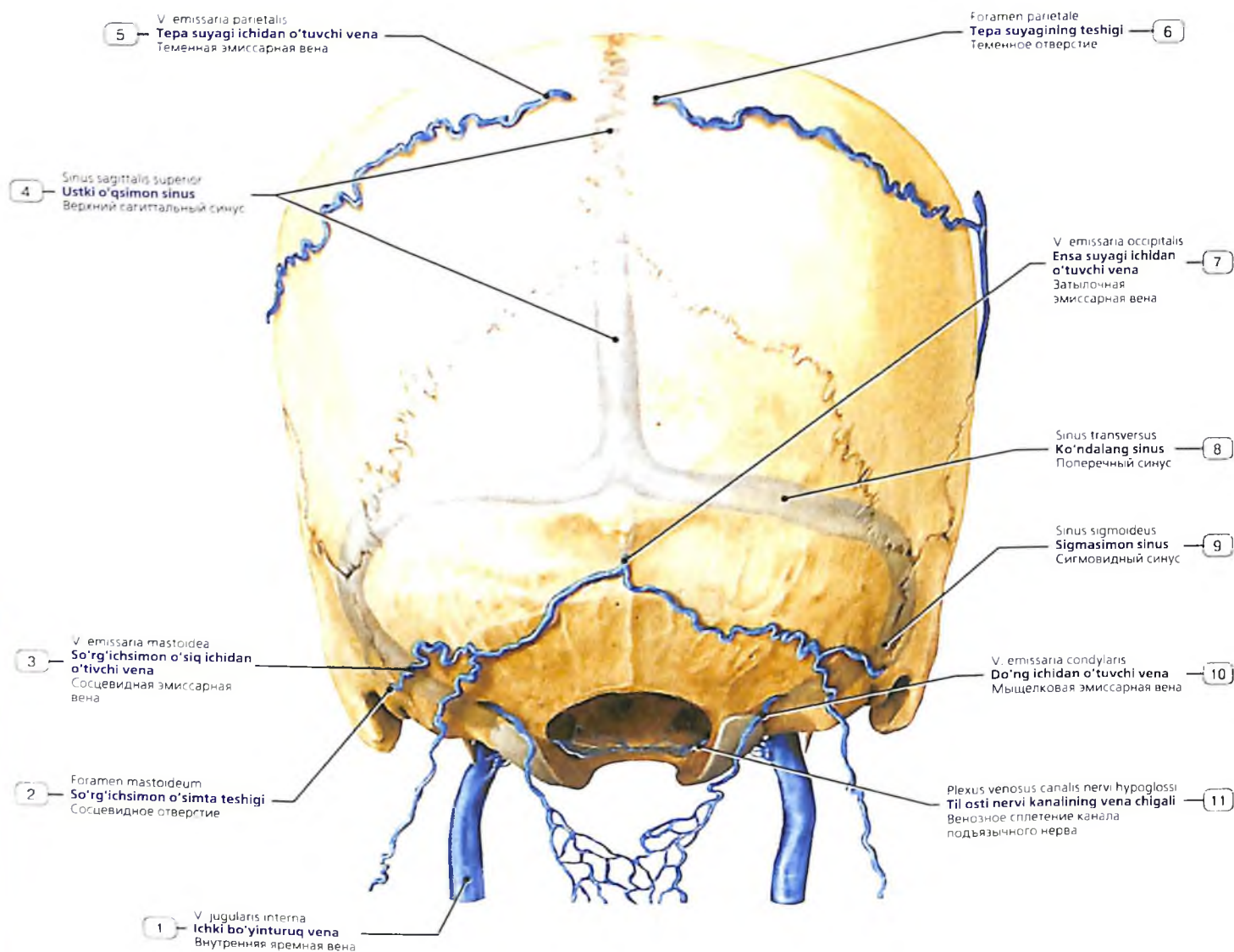
Rasm № 506. Bosh miya qattiq pardasi sinuslari, kalla ichki asosi.
Рисунок № 506. Синусы твердой мозговой оболочки головного мозга, внутреннее основание черепа.

- | | |
|----------------------------|-----------------------------------|
| 1 Superior sagittal sinus | 10 Cavernous sinus |
| 2 Confluence of sinuses | 11 Middle meningeal vein |
| 3 Straight sinus | 12 Venous plexus of foramen ovale |
| 4 Occipital sinus | 13 Inferior petrosal sinus |
| 5 Marginal sinus | 14 Superior petrosal sinus |
| 6 Basilar plexus | 15 Superior bulb of jugular vein |
| 7 Superior ophthalmic vein | 16 Sigmoid sinus |
| 8 Intercavernous sinus | 17 Transverse sinus |
| 9 Sphenoparietal sinus | |



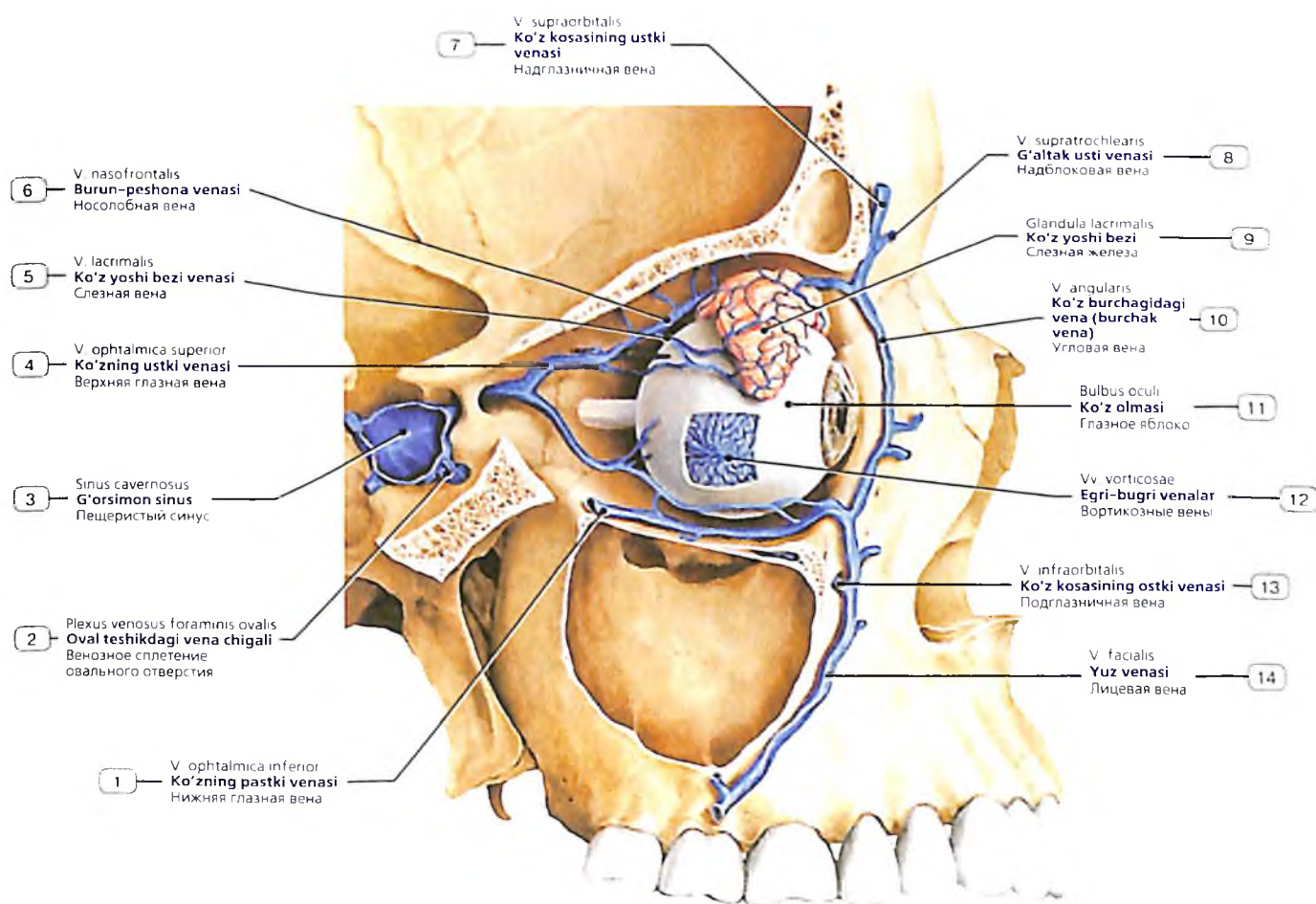
Rasm № 507. Bosh miya qattiq pardasi sinuslaridagi qon harakati (chizma).
Рисунок № 507. Движение крови по синусам твердой оболочки головного мозга (схема).

- | | |
|-----------------------------|---|
| 1 Transverse sinus | 10 Superior anastomotic vein (of Trolard) |
| 2 Inferior anastomotic vein | 11 Deep middle cerebral vein |
| 3 Great cerebral vein | 12 Anterior cerebral vein |
| 4 Confluence of sinuses | 13 Anterior intercavernous sinus |
| 5 Straight sinus | 14 Superficial middle cerebral vein |
| 6 Basilar vein | 15 Cavernous sinus |
| 7 Internal cerebral vein | 16 Inferior petrosal sinus |
| 8 Inferior sagittal sinus | 17 Superior bulb of jugular vein |
| 9 Superior sagittal sinus | |



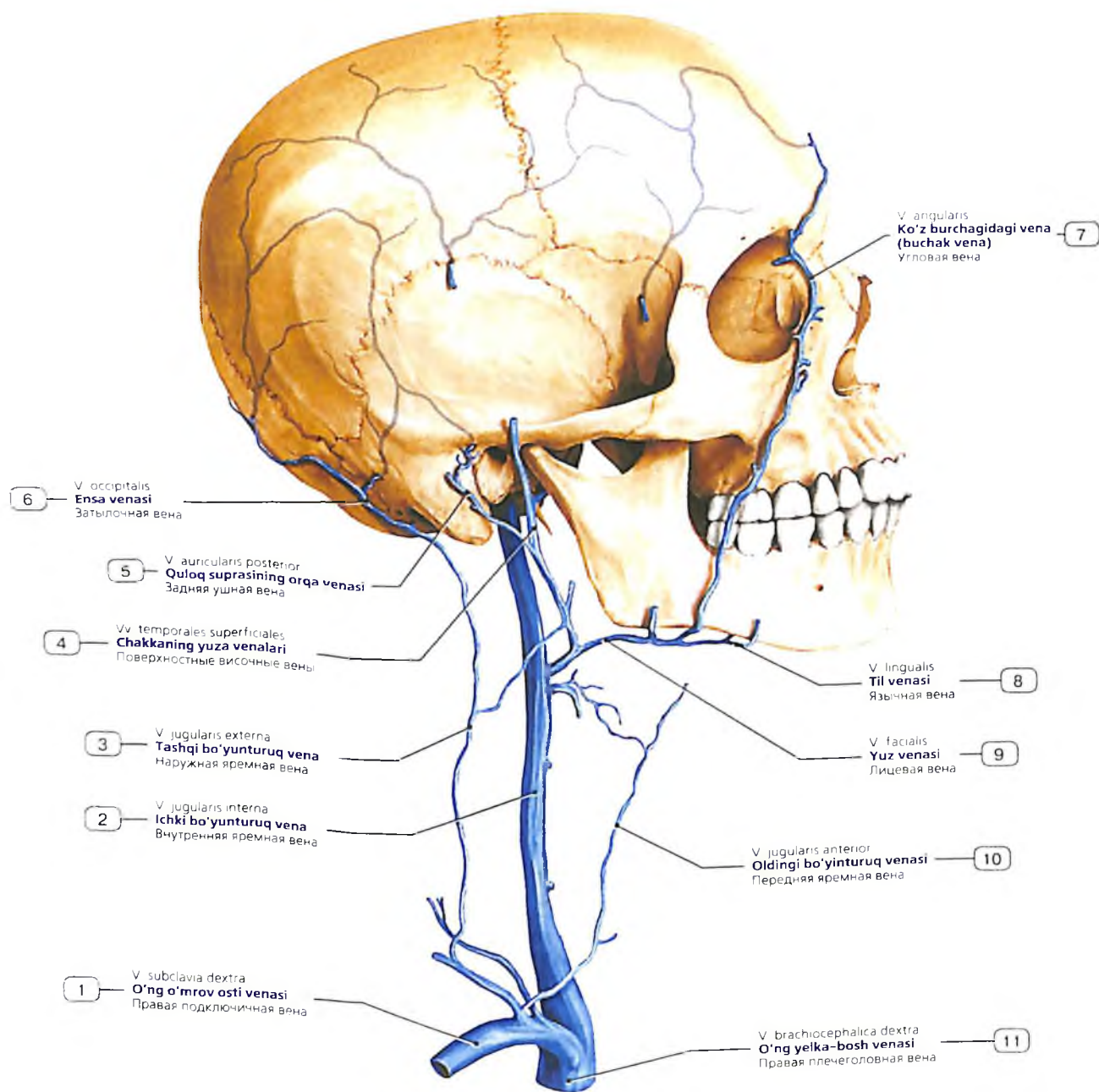
Rasm № 508. Kalla suyagi ichidan o'tuvchi venalar va ularning aloqalari.
Рисунок № 508. Эмиссарные вены и их связи.

- | | |
|---------------------------|---------------------------------------|
| 1 Internal jugular vein | 7 Occipital emissary vein |
| 2 Mastoid foramen | 8 Transverse sinus |
| 3 Mastoid emissary vein | 9 Sigmoid sinus |
| 4 Superior sagittal sinus | 10 Condylar emissary vein |
| 5 Parietal emissary vein | 11 Venous plexus of hypoglossal canal |
| 6 Parietal foramen | |



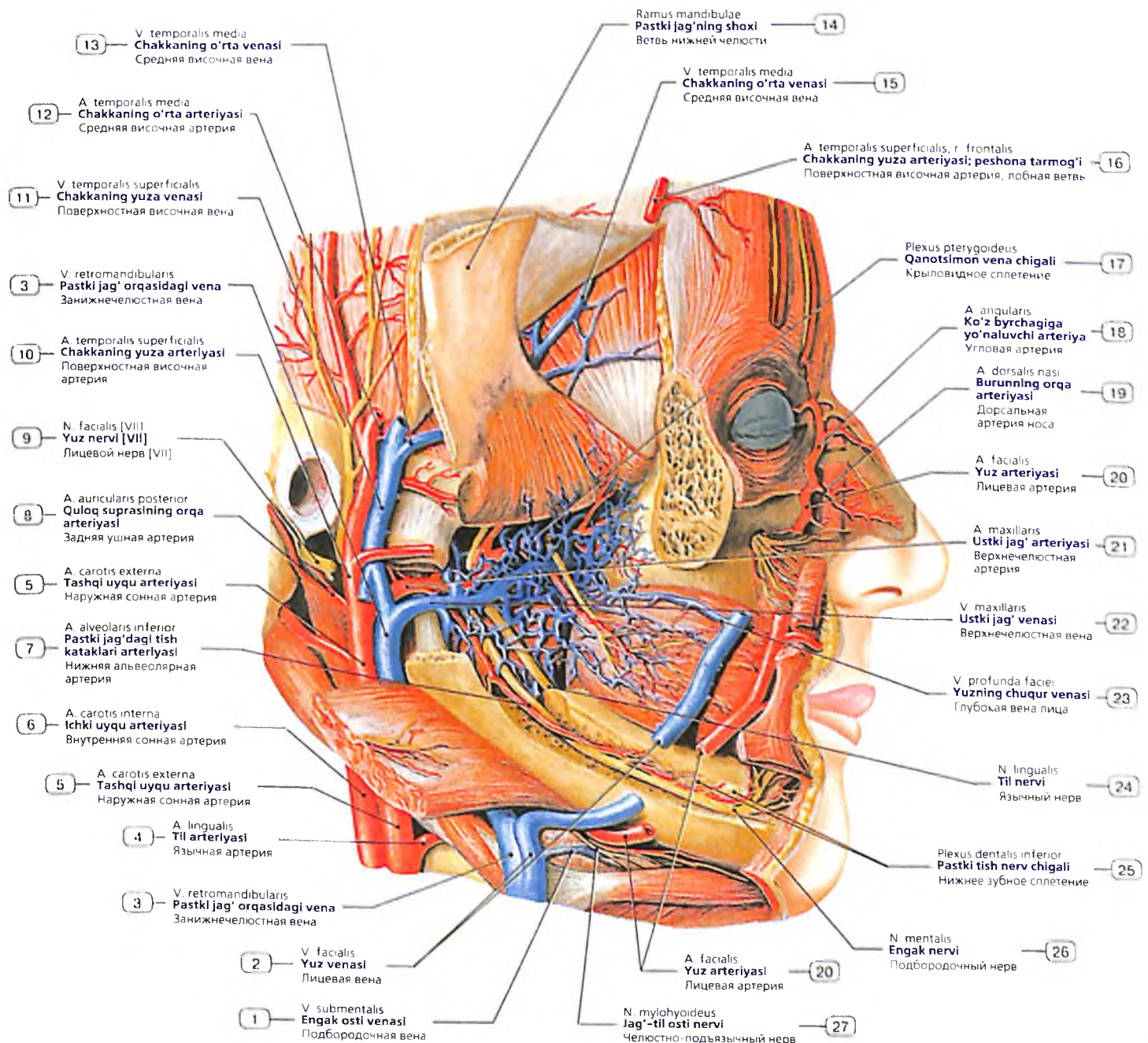
Rasm № 509. Ko'z kosasi venalari va ularning bog'liqligi.
Рисунок № 509. Вены глазницы и их связи.

- | | |
|----------------------------------|------------------------|
| 1 Inferior ophthalmic vein | 8 Supratrochlear veins |
| 2 Venous plexus of foramen ovale | 9 Lacrimal gland |
| 3 Cavernous sinus | 10 Angular vein |
| 4 Superior ophthalmic vein | 11 Eyeball |
| 5 Lacrimal vein | 12 Vorticoze veins |
| 6 Nasofrontal vein | 13 Infra-orbital vein |
| 7 Supra-orbital vein | 14 Facial vein |



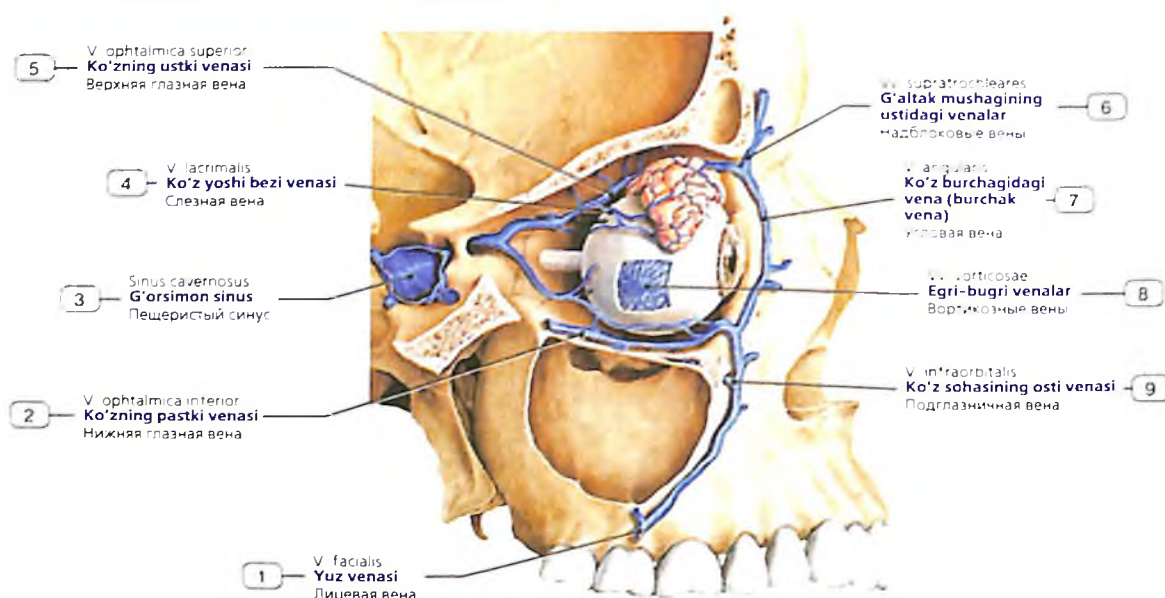
Rasm № 510. Ichki bo'yinturuq vena, yon tomondan ko'rinishi, o'ng tomon.
Рисунок № 510. Внутренняя яремная вена, вид сбоку, справа.

- | | |
|------------------------------|-------------------------------|
| 1 Right subclavian vein | 7 Angular vein |
| 2 Internal jugular vein | 8 Lingual vein |
| 3 External jugular vein | 9 Facial vein |
| 4 Superficial temporal veins | 10 Anterior jugular vein |
| 5 Posterior auricular vein | 11 Right brachiocephalic vein |
| 6 Occipital vein | |



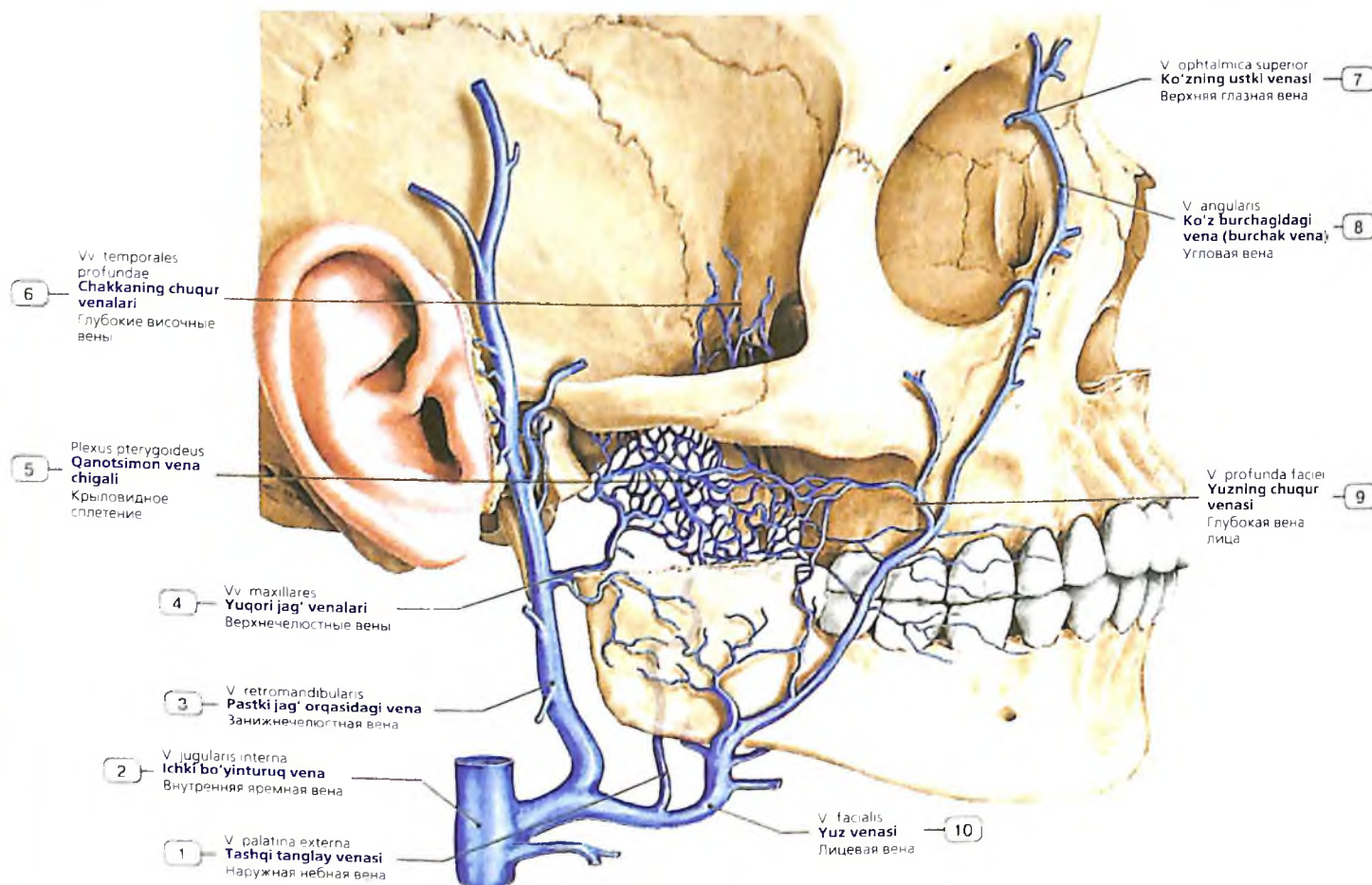
Rasm № 511. Bosh venalari, yon tomondan ko'rinishi.
Рисунок № 511. Вены головы, вид сбоку.

- | | | |
|------------------------------|--|---|
| 1 Submental vein | 10 Superficial temporal artery | 19 Dorsal nasal artery, External nasal artery |
| 2 Facial vein | 11 Superficial temporal vein | 20 Facial artery |
| 3 Retromandibular vein | 12 Middle temporal artery | 21 Maxillary artery |
| 4 Lingual artery | 13 Middle temporal vein | 22 Maxillary vein |
| 5 External carotid artery | 14 Ramus of mandible | 23 Deep facial vein |
| 6 Internal carotid artery | 15 Middle temporal vein | 24 Lingual nerve |
| 7 Inferior alveolar artery | 16 Superficial temporal artery, frontal branch | 25 Inferior dental plexus |
| 8 Posterior auricular artery | 17 Pterygoid plexus | 26 Mental nerve |
| 9 Facial nerve [VII] | 18 Angular artery | 27 Nerve of mylohyoid |



Rasm № 512. Ko'z kosasi venalari.
Рисунок № 512. Вены глазницы.

- | | | | | |
|--------------------------|--------------------|--------------------------|-------------------------|---------------------|
| 1. Facial vein | 3. Cavernous sinus | 5. Superior orbital vein | 6. Supratrochlear veins | 8. Vorticosae veins |
| 2. Inferior orbital vein | 4. Lacrimal vein | 7. Angular vein | 9. Infra-orbital vein | |



Rasm № 513. Kallaning yuz qismi venalari.
Рисунок № 513. Вены лицевого черепа.

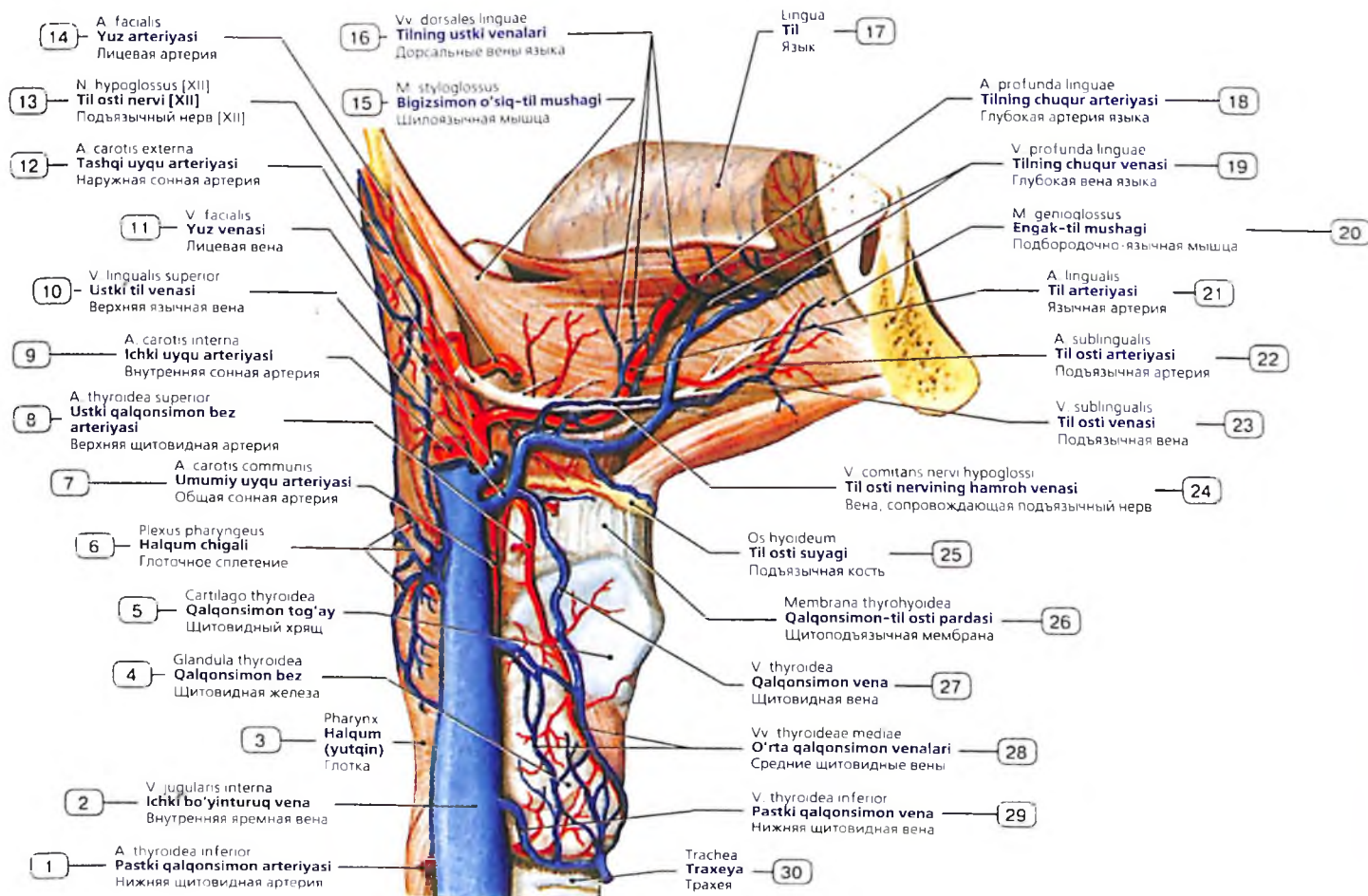
- | | | | | |
|---------------------------|-------------------------|------------------------|--------------------------|---------------------|
| 1. External palatine vein | 3. Retromandibular vein | 5. Pterygoid plexus | 7. Superior orbital vein | 9. Deep facial vein |
| 2. Internal jugular vein | 4. Maxillary veins | 6. Deep temporal veins | 8. Angular vein | 10. Facial vein |



Rasm № 514. Yuzning xavfli sohasi, «xavfli uchburchak».
Рисунок № 514. Опасная зона лица, «опасный треугольник».

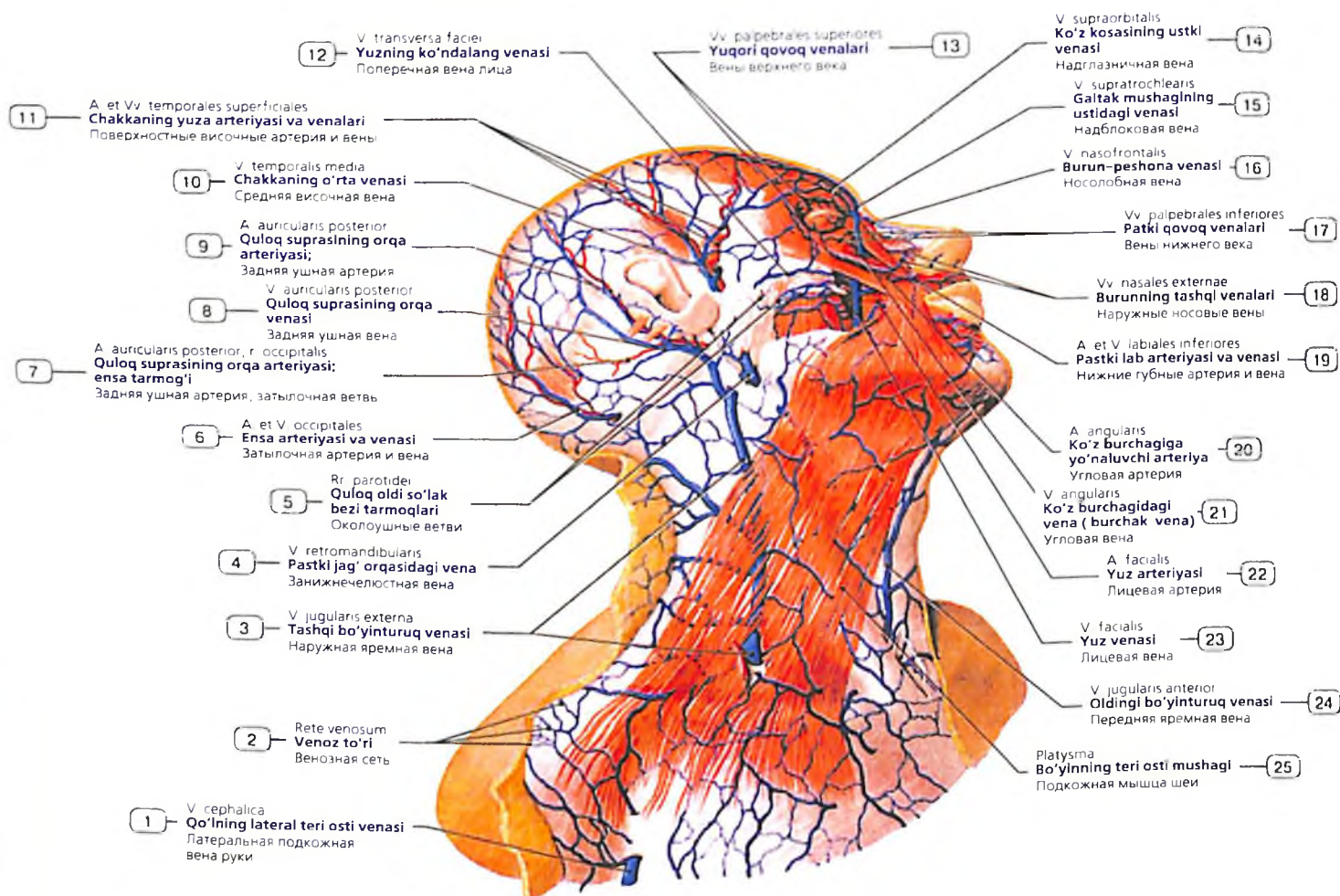
Bu soha bosh miya qattiq pardasi venoz sinuslari bilan yuz venalari o'rtasida anastomozlar joylashgan joy hisoblanadi. Bu sohadagi venalarda klapanlar yo'q, shuning uchun infeksiyaning kalla bo'shlig'iga tarqalishi va meningitga olib kelish imkoniyati juda katta.

Эту зону выделяют в связи с наличием анастомозов вен лица с венозными синусами твердой оболочки головного мозга. Вены этой области лишены клапанов, поэтому существует высокий риск распространения бактериальной инфекции в полость черепа, что может привести к менингиту.



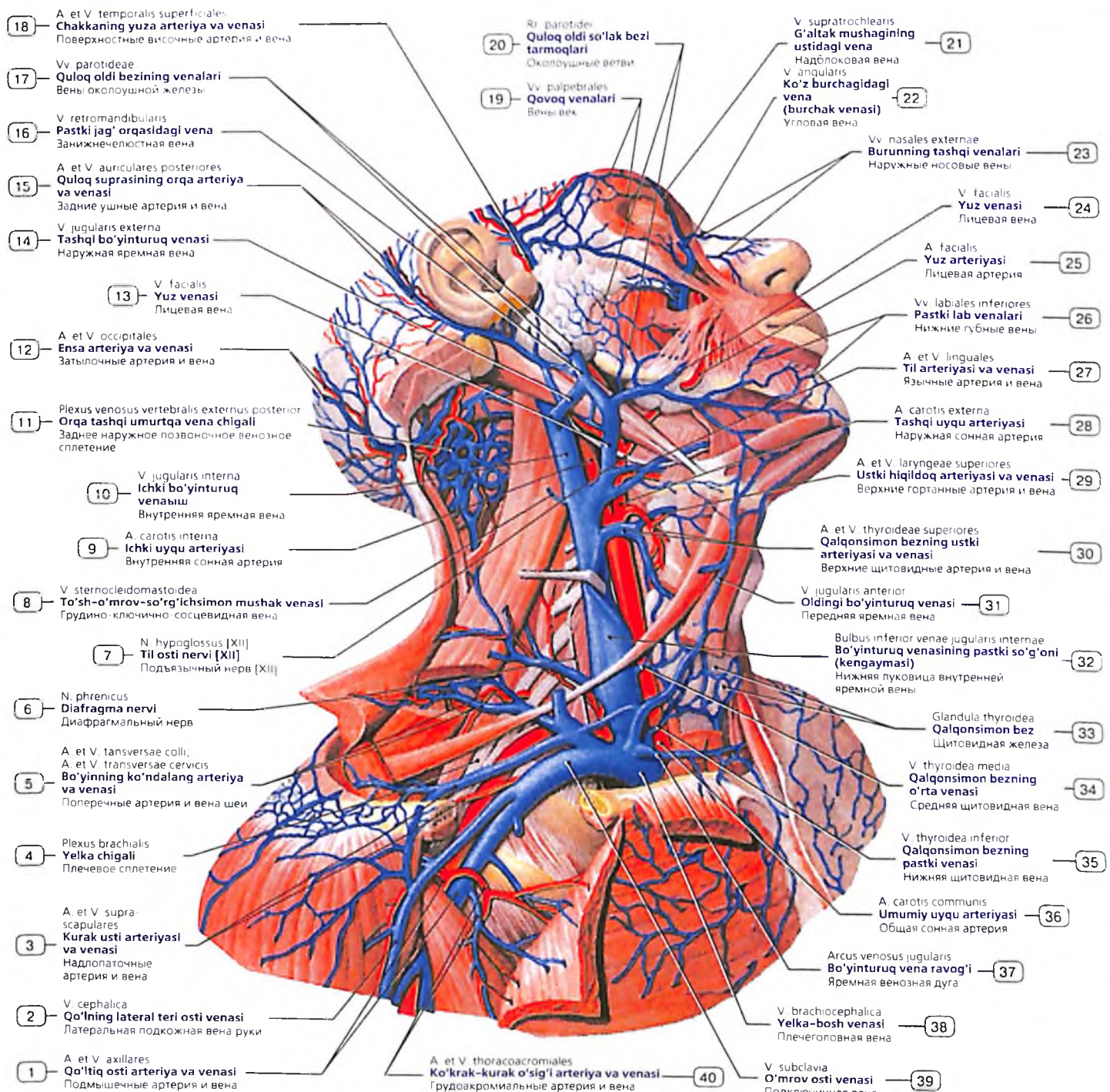
Rasm № 515. Til va halqum venalari, yon tomondan ko'rinishi.
Рисунок № 515. Вены языка и гортани, вид сбоку.

- | | | | | |
|---------------------------|----------------------------|-------------------------|---------------------------------------|--------------------------|
| 1 Inferior thyroid artery | 8 Superior thyroid artery | 15 Styloglossus | 22 Sublingual artery | 28 Middle thyroid veins |
| 2 Internal jugular vein | 9 Internal carotid artery | 16 Dorsal lingual veins | 23 Sublingual vein | 29 Inferior thyroid vein |
| 3 Pharynx | 10 Superior lingual vein | 17 Tongue | 24 Vein comitans of hypoglossal nerve | 30 Trachea |
| 4 Thyroid gland | 11 Facial vein | 18 Deep lingual artery | 25 Hyoid bone | |
| 5 Thyroid cartilage | 12 External carotid artery | 19 Deep lingual vein | 26 Thyrohyoid membrane | |
| 6 Pharyngeal plexus | 13 Hypoglossal nerve [XII] | 20 Genioglossus | 27 Thyroid vein | |
| 7 Common carotid artery | 14 Facial artery | 21 Lingual artery | | |



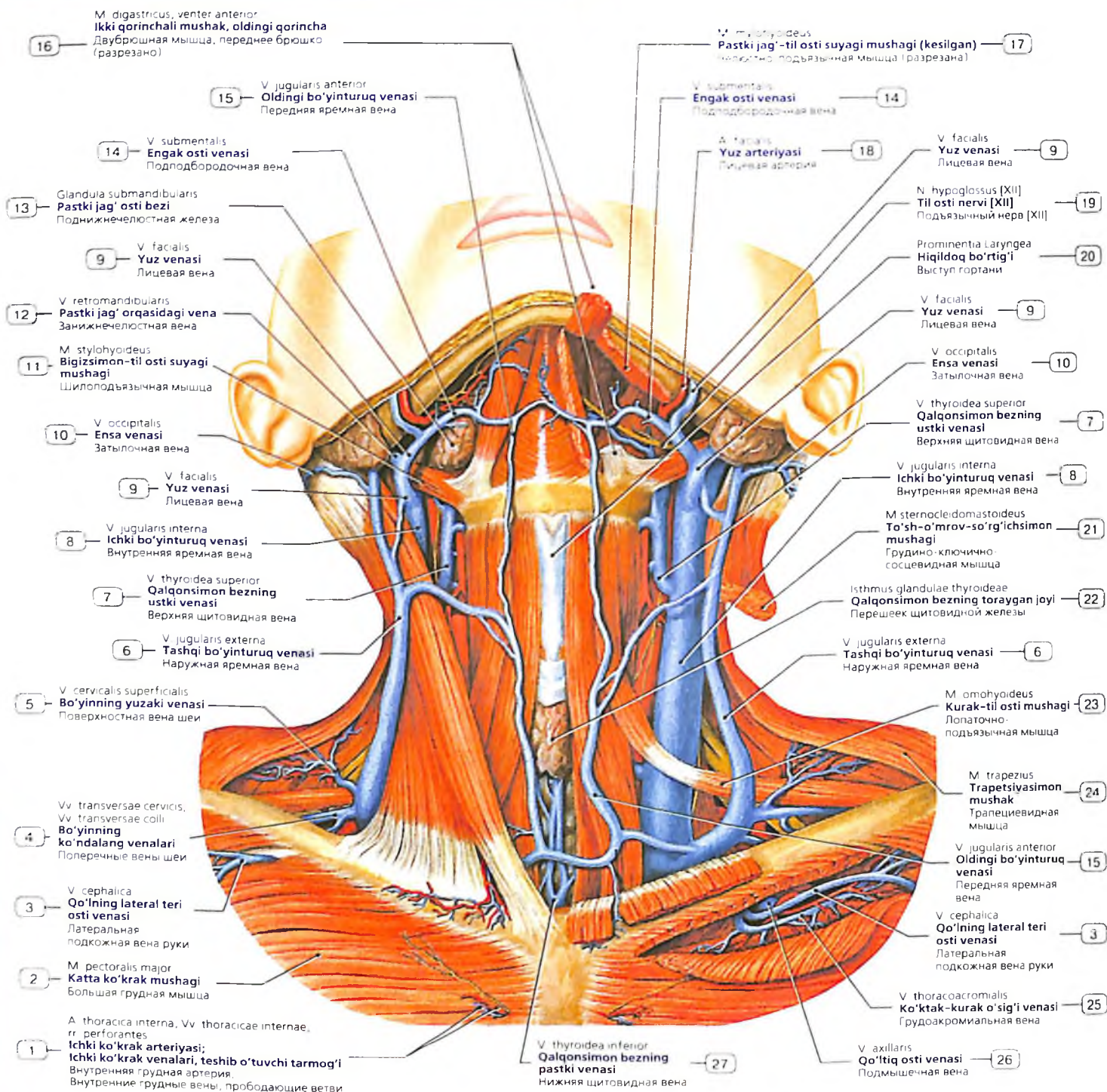
Rasm № 516. Tashqi va oldingi bo'yunturuq venalar va ularning oqimlari, o'ng tomondan ko'rinishi.
Рисунок № 516. Наружная и передняя яремные вены и их притоки, вид справа.

- | | | |
|--|-----------------------------------|------------------------------------|
| 1 Cephalic vein | 10 Middle temporal vein | 19 Superior labial artery and vein |
| 2 Venous plexus | 11 Deep temporal artery and veins | 20 Angular artery |
| 3 External jugular vein | 12 Transverse facial vein | 21 Angular vein |
| 4 Retromandibular vein | 13 Superior palpebral veins | 22 Facial artery |
| 5 Parotid branches | 14 Supraorbital vein | 23 Facial vein |
| 6 Occipital artery and vein | 15 Supratrochlear vein | 24 Anterior jugular vein |
| 7 Posterior auricular artery, occipital branch | 16 Nasofrontal vein | 25 Platysma |
| 8 Posterior auricular vein | 17 Inferior palpebral veins | |
| 9 Posterior auricular artery | 18 External nasal veins | |



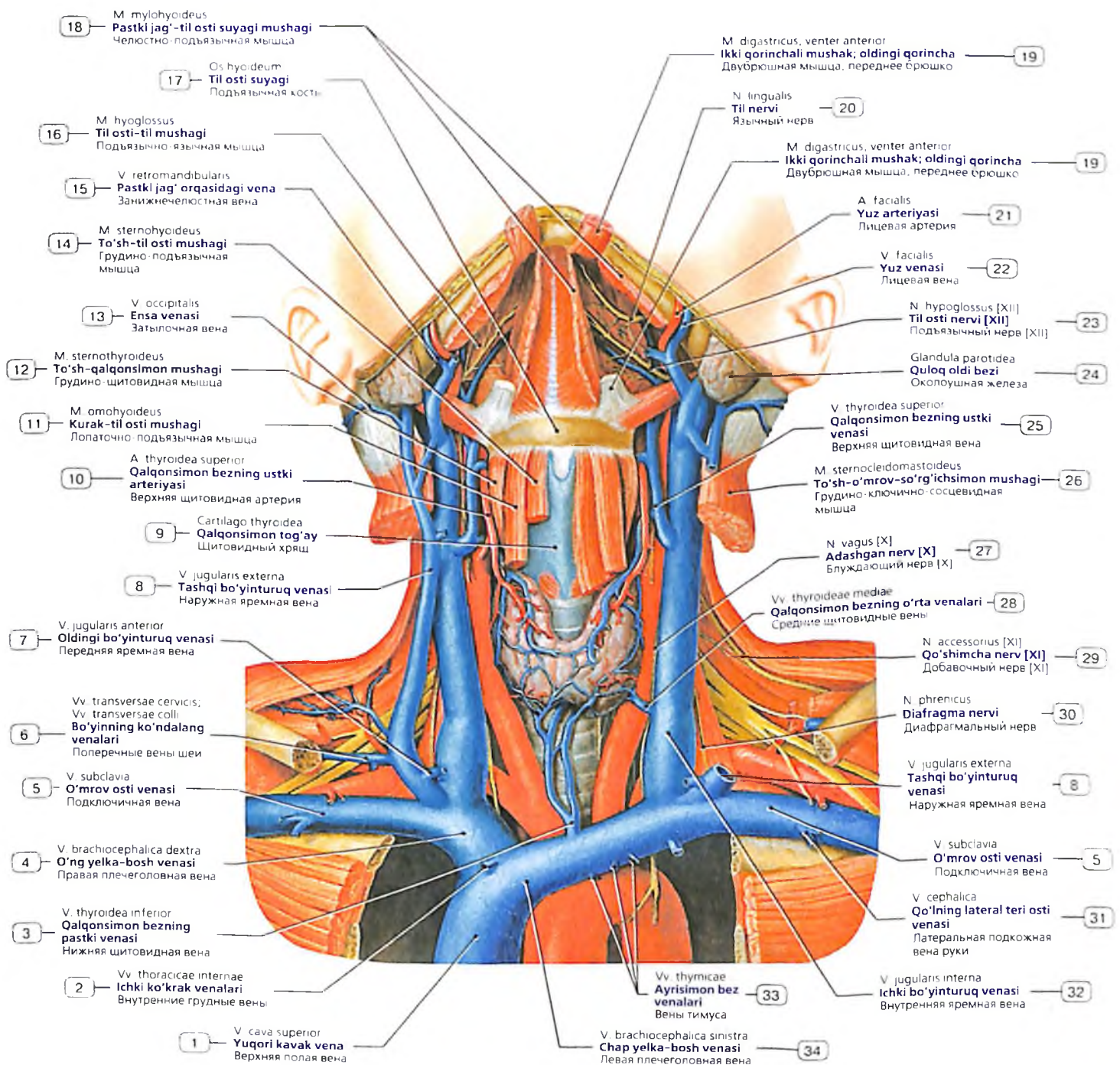
Rasm № 517. Bosh va bo'yin venalari, yon tomondan ko'rinishi.
Рисунок № 517. Вены головы и шеи, вид сбоку.

- | | | |
|---------------------------------------|---|---|
| 1 Axillary artery and vein | 11 Posterior external vertebral venous plexus | 21 Supratrochlear vein |
| 2 Cephalic vein | 12 Occipital artery and vein | 22 Angular vein |
| 3 Suprascapular artery and vein | 13 Facial vein | 23 External nasal veins |
| 4 Brachial plexus | 14 External jugular vein | 24 Facial vein |
| 5 Transverse cervical artery and vein | 15 Posterior auricular artery and vein | 25 Facial artery |
| 6 Phrenic nerve | 16 Retromandibular vein | 26 Inferior labial veins |
| 7 Hypoglossal nerve [XII] | 17 Parotid veins | 27 Lingual artery and vein |
| 8 Sternocleidomastoid vein | 18 Superficial temporal artery and vein | 28 External carotid artery |
| 9 Internal carotid artery | 19 Palpebral veins | 29 Superior laryngeal artery and vein |
| 10 Internal jugular vein | 20 Parotid branches | 30 Superior thyroid artery and veins |
| | | 31 Anterior jugular vein |
| | | 32 Inferior bulb of internal jugular vein |
| | | 33 Thyroid gland |
| | | 34 Middle thyroid vein |
| | | 35 Inferior thyroid vein |
| | | 36 Common carotid artery |
| | | 37 Jugular venous arch |
| | | 38 Brachiocephalic vein |
| | | 39 Subclavian vein |
| | | 40 Thoracoacromial artery and vein |



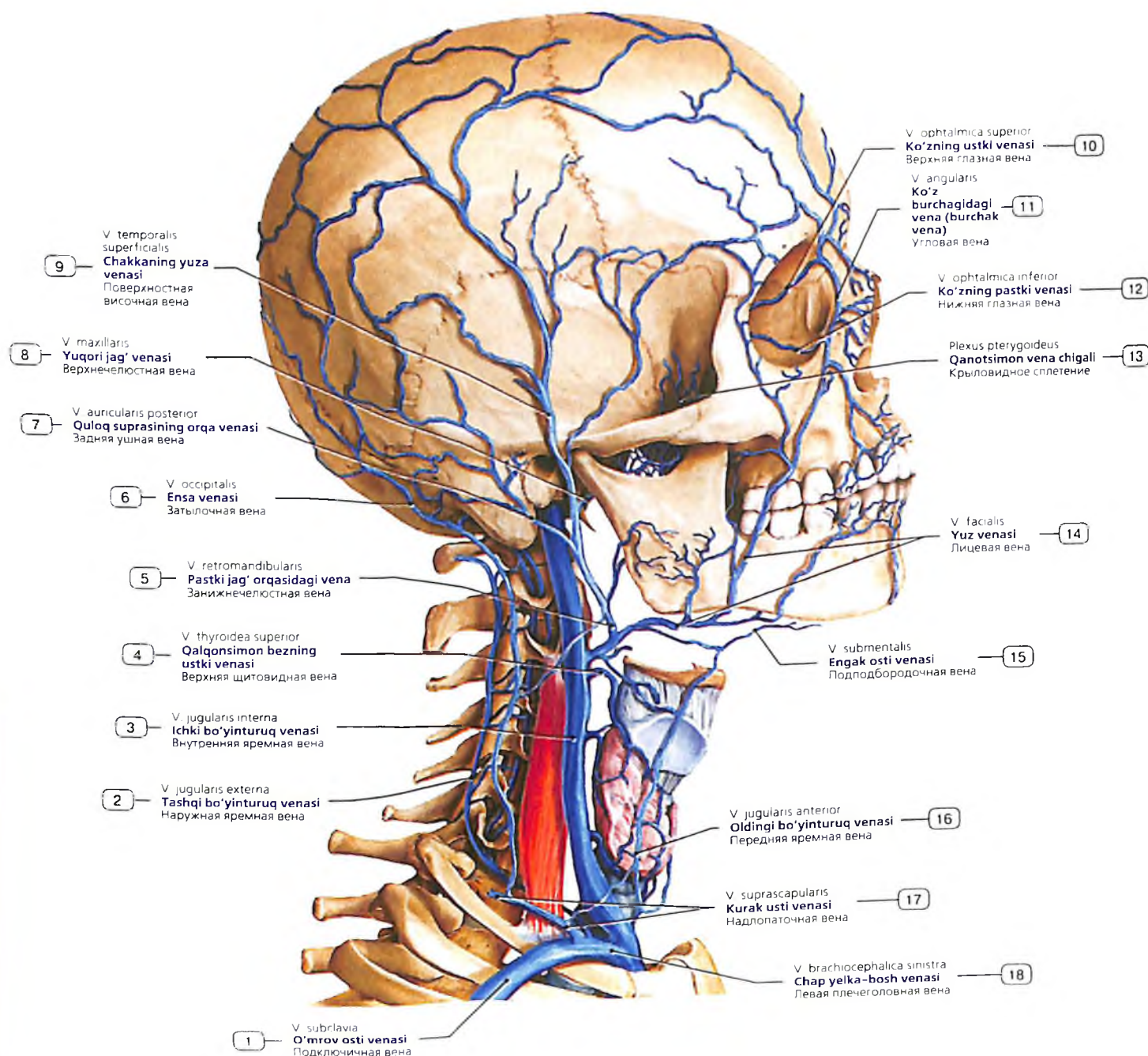
Rasm № 518. Bo'yin venalari, old ko'rinishi.
Рисунок № 518. Вены шеи, вид спереди.

- | | | |
|---|------------------------------|----------------------------|
| 1 Internal thoracic artery,
Internal thoracic veins,
perforating branches | 9 Facial vein | 19 Hypoglossal nerve [XII] |
| 2 Pectoralis major | 10 Occipital vein | 20 Laryngeal prominence |
| 3 Cephalic vein | 11 Stylohyoid | 21 Sternocleidomastoid |
| 4 Transverse cervical veins | 12 Retromandibular vein | 22 Isthmus |
| 5 Superficial cervical vein | 13 Submandibular gland | 23 Omohyoid |
| 6 External jugular vein | 14 Submental vein | 24 Trapezius |
| 7 Superior thyroid vein | 15 Anterior jugular vein | 25 Thoracoacromial vein |
| 8 Internal jugular vein | 16 Digastric, anterior belly | 26 Axillary vein |
| | 17 Mylohyoid | 27 Inferior thyroid vein |
| | 18 Facial artery | |



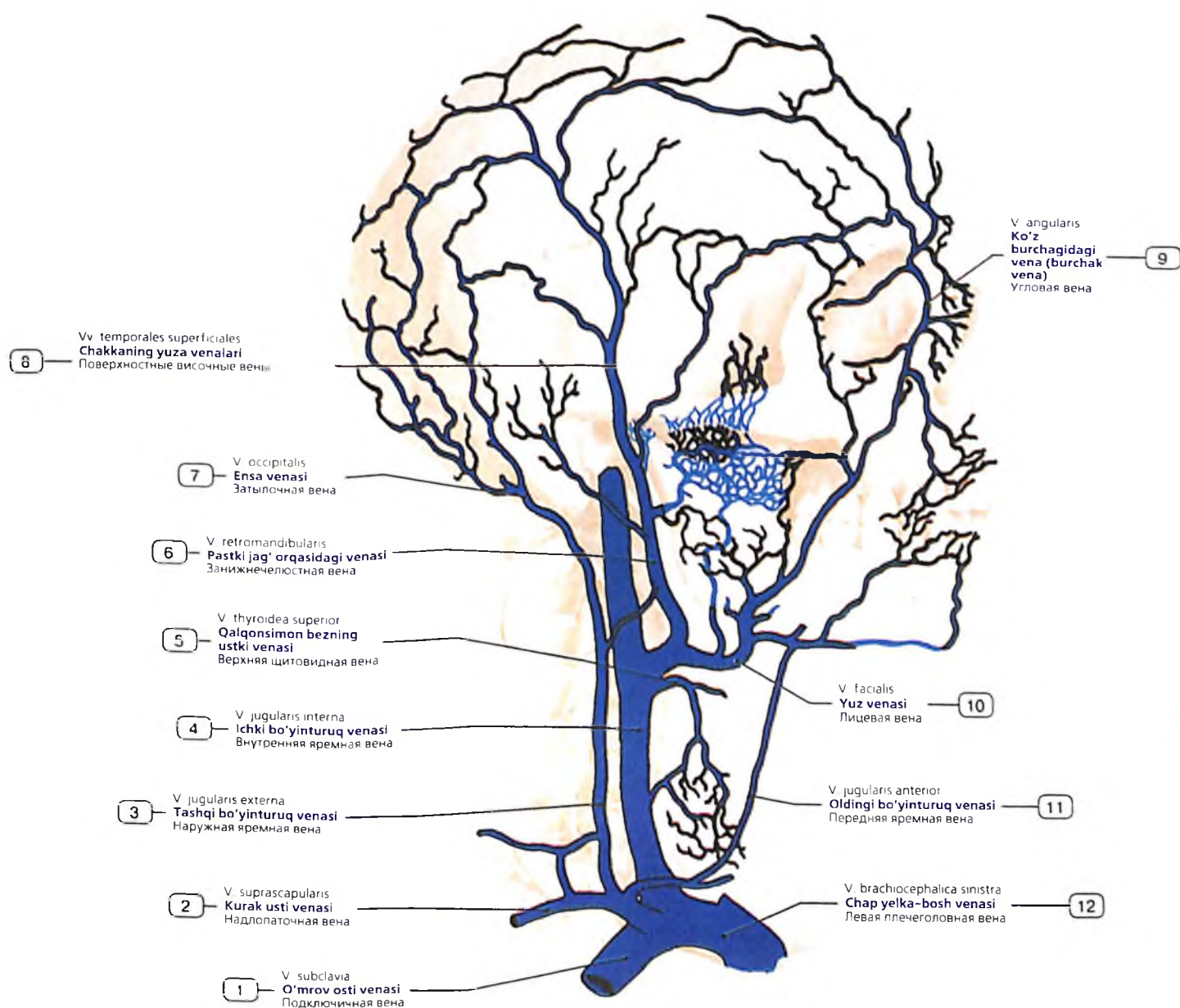
Rasm № 519. Bo'yin venalari, oldindan ko'rinishi, bo'yinning yuza mushaklari olib tashlangan.
Рисунок № 519. Вены шеи, вид спереди, поверхностные мышцы шеи удалены.

- | | | | | |
|------------------------------|----------------------------|------------------------------|----------------------------|------------------------------|
| 1 Superior vena cava | 8 External jugular vein | 15 Retromandibular vein | 22 Facial vein | 29 Accessory nerve [XI] |
| 2 Internal thoracic veins | 9 Thyroid cartilage | 16 Hyoglossus | 23 Hypoglossal nerve [XII] | 30 Phrenic nerve |
| 3 Inferior thyroid vein | 10 Superior thyroid artery | 17 Hyoid bone | 24 Parotid gland | 31 Cephalic vein |
| 4 Right brachiocephalic vein | 11 Omohyoid | 18 Mylohyoid | 25 Superior thyroid vein | 32 Internal jugular vein |
| 5 Subclavian vein | 12 Sternohyoid | 19 Digastric, anterior belly | 26 Sternocleidomastoid | 33 Thymic veins |
| 6 Transverse cervical veins | 13 Occipital vein | 20 Lingual nerve | 27 Vagus nerve [X] | 34 Left brachiocephalic vein |
| 7 Anterior jugular vein | 14 Sternohyoid | 21 Facial artery | 28 Middle thyroid veins | |



Rasm № 520. Bosh va bo'yin venalarining skeletotopiyasi, yon tomondan ko'rinishi.
Рисунок № 520. Скелетотопия вен головы и шеи, вид сбоку.

- | | | |
|-------------------------|-----------------------------|------------------------------|
| 1 Subclavian vein | 7 Posterior auricular vein | 13 Pterygoid plexus |
| 2 External jugular vein | 8 Maxillary vein | 14 Facial vein |
| 3 Internal jugular vein | 9 Superficial temporal vein | 15 Submental vein |
| 4 Superior thyroid vein | 10 Superior ophtalmic vein | 16 Anterior jugular vein |
| 5 Retromandibular vein | 11 Angular vein | 17 Suprascapular vein |
| 6 Occipital vein | 12 Inferior ophtalmic vein | 18 Left brachiocephalic vein |



Rasm № 521. Bosh va bo'yin venalari, yon tomondan ko'rinishi (chizma).
Рисунок № 521. Вены головы и шеи, вид сбоку (схема).

- | | | |
|-------------------------|------------------------------|------------------------------|
| 1 Subclavian vein | 5 Superior thyroid vein | 9 Angular vein |
| 2 Suprascapular vein | 6 Retromandibular vein | 10 Facial vein |
| 3 External jugular vein | 7 Occipital vein | 11 Anterior jugular vein |
| 4 Internal jugular vein | 8 Superficial temporal veins | 12 Left brachiocephalic vein |

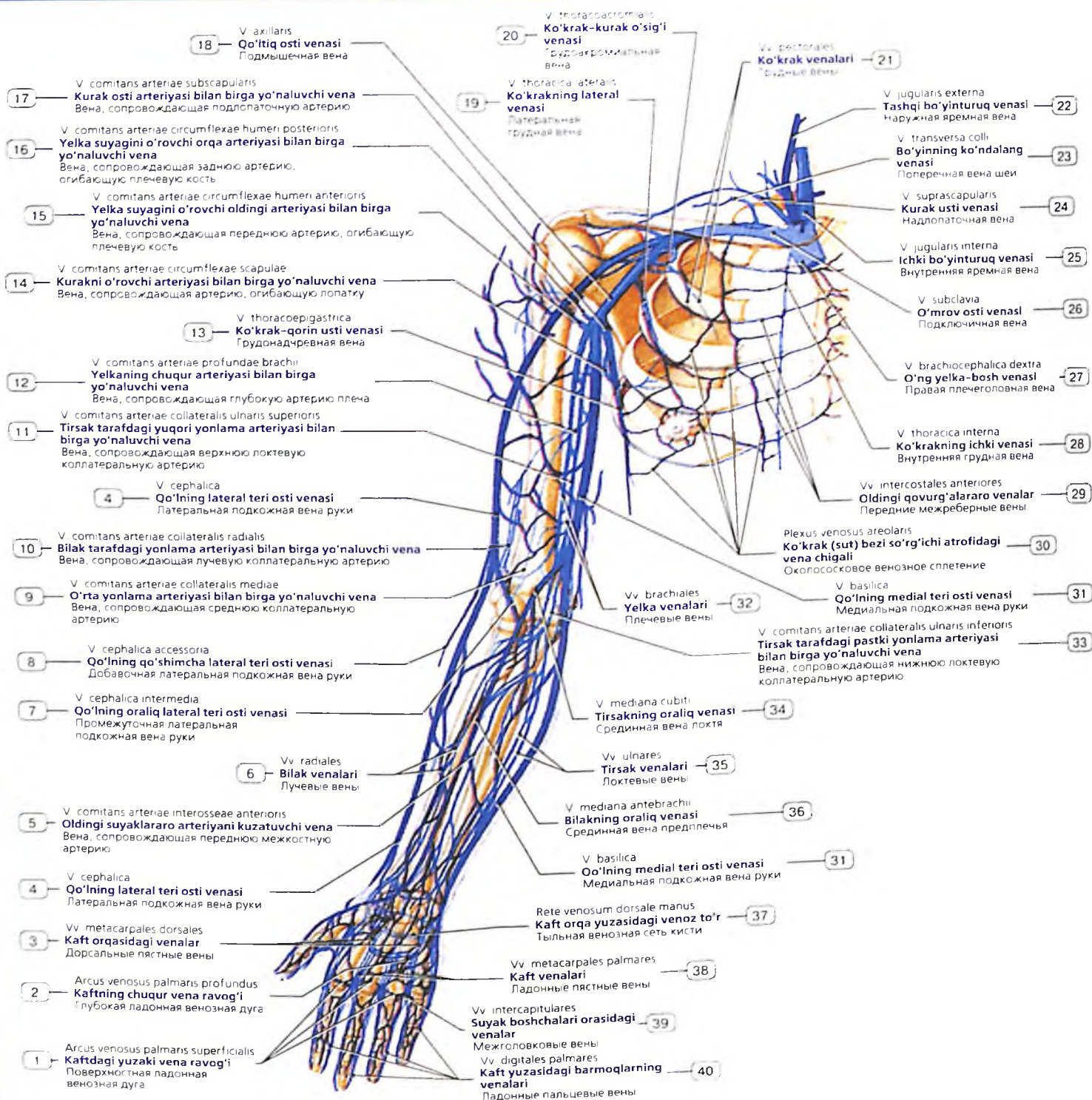
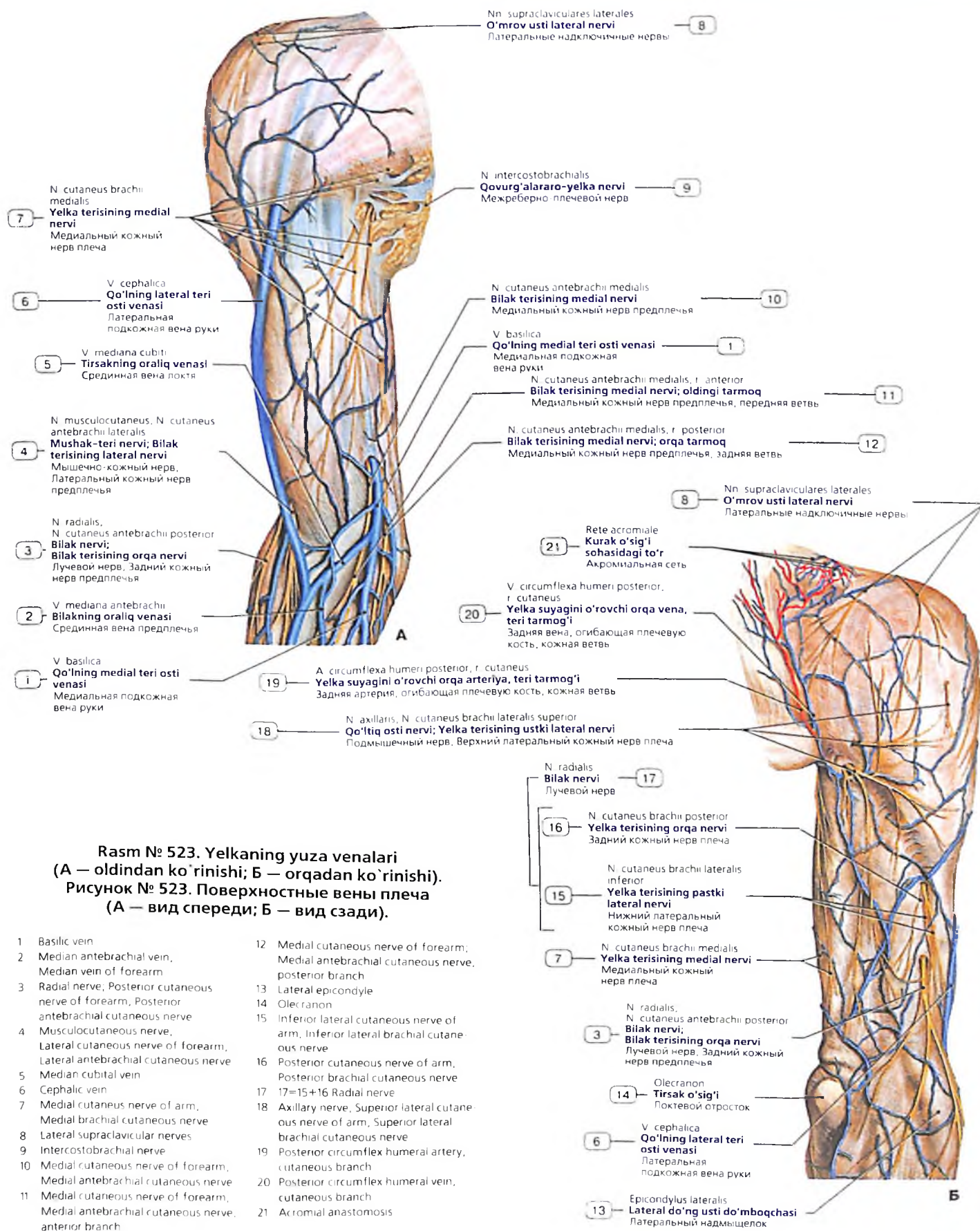


Рисунок № 522. Вены плечевого пояса и свободной части верхней конечности, правой, вид спереди (схема).

Рисунок № 522. Вены плечевого пояса и свободной части верхней конечности, правой, вид спереди (схема).

- | | | | | |
|---|--|---|--|----------------------------------|
| 1 Superficial venous palmar arch | 10 Vein comitans to radial collateral artery | 16 Vein comitans to posterior circumflex humeral artery | 25 Internal jugular vein | 35 Ulnar veins |
| 2 Deep venous palmar arch | 11 Vein comitans to superior ulnar collateral artery | 17 Vein comitans to subscapular artery | 26 Subclavian vein | 36 Median antebrachial vein |
| 3 Dorsal metacarpal veins | 12 Vein comitans to profunda brachii artery | 18 Axillary vein | 27 Right brachiocephalic vein | 37 Median vein of forearm |
| 4 Cephalic vein | 13 Thoracoepigastric vein | 19 Lateral thoracic vein | 28 Internal thoracic vein | 37 Dorsal venous network of hand |
| 5 Vein comitans to anterior interosseous artery | 14 Vein comitans to circumflex scapular artery | 20 Thoracoacromial vein | 29 Anterior intercostal veins | 38 Palmar metacarpal veins |
| 6 Radial veins | 15 Vein comitans to anterior circumflex humeral artery | 21 Pectoral veins | 30 Areolar venous plexus | 39 Intermetacarpal veins |
| 7 Intermediate cephalic vein | | 22 External jugular vein | 31 Basilic vein | 40 Palmar digital veins |
| 8 Accessory cephalic vein | | 23 Transverse cervical vein | 32 Brachial veins | |
| 9 Vein comitans to medial collateral artery | | 24 Suprascapular vein | 33 Vein comitans to inferior ulnar collateral artery | |
| | | | 34 Median cubital vein | |



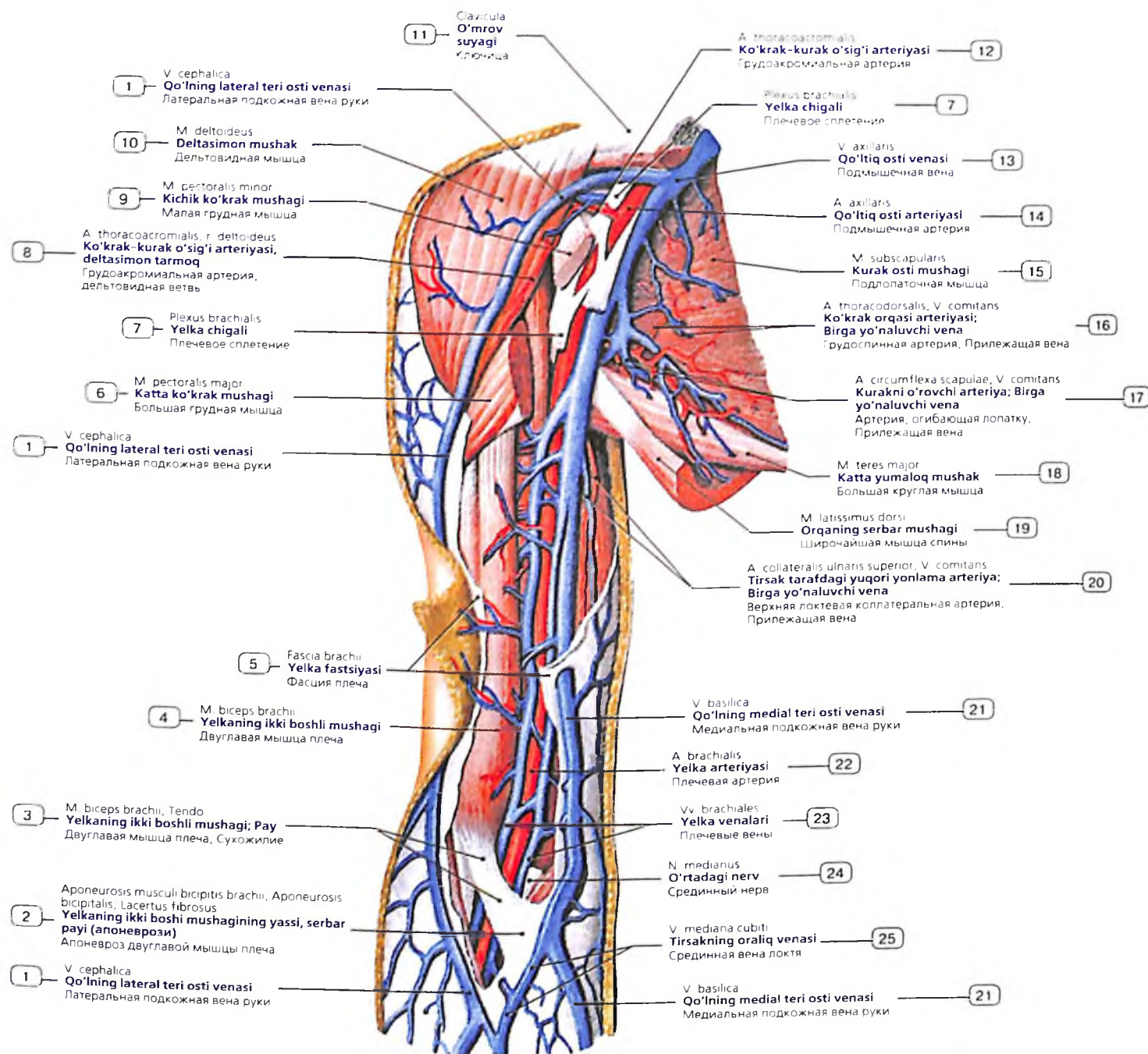
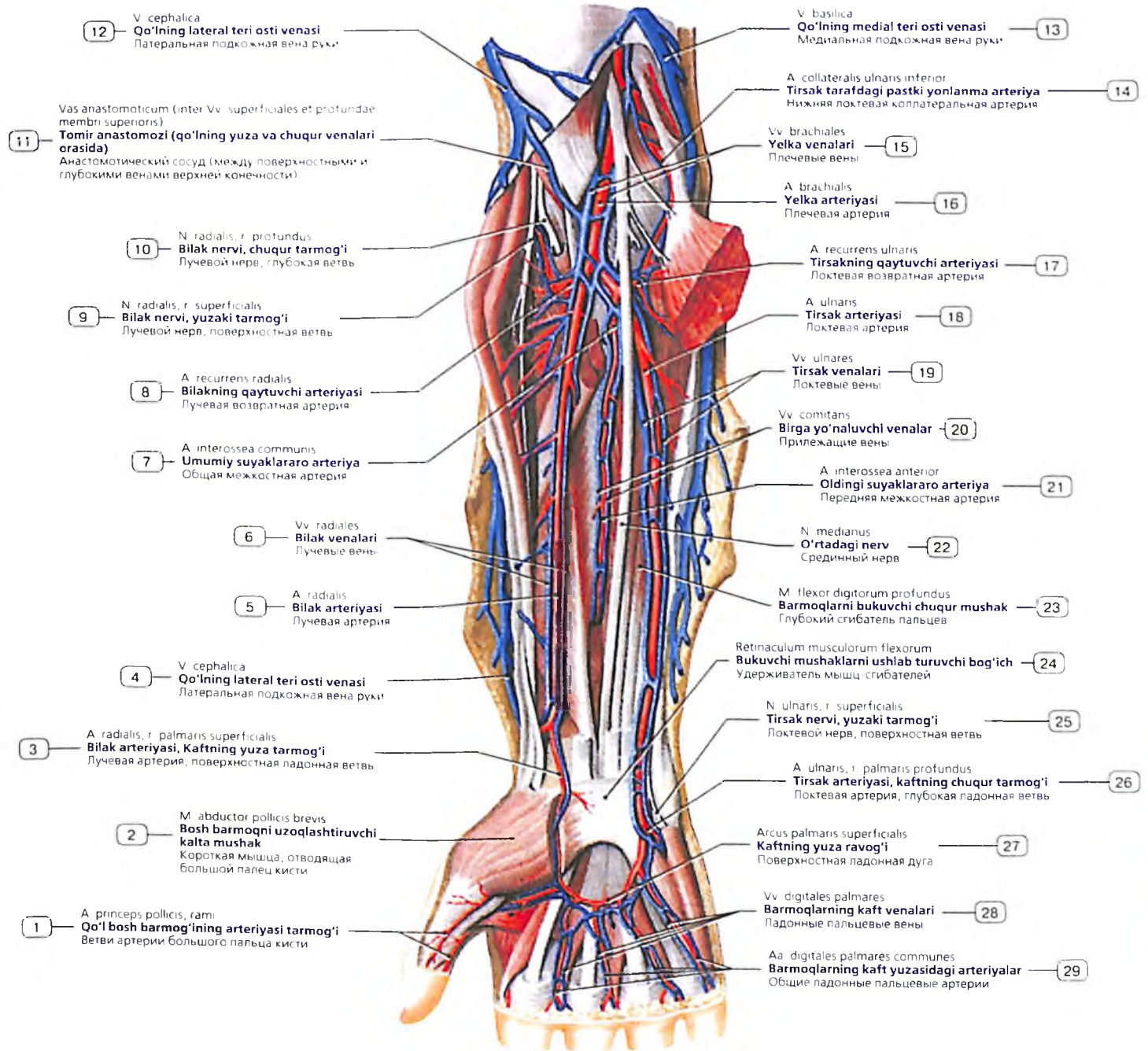


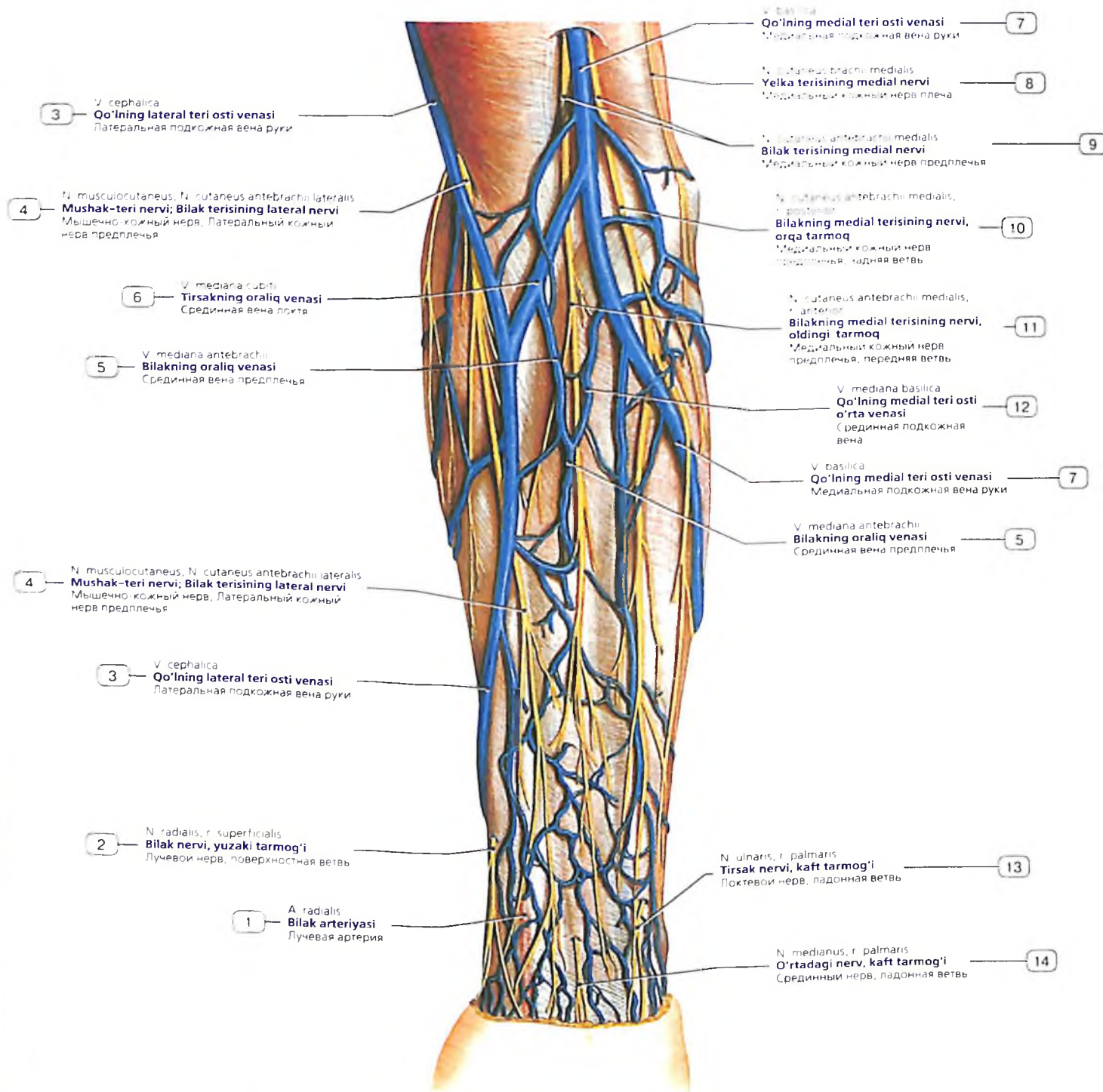
Рис. № 524. Глубокие вены плеча, вид спереди.

- | | | |
|---|--|--|
| 1 Cephalic vein | 10 Deltoid | 19 Latissimus dorsi |
| 2 Bicipital aponeurosis | 11 Clavicle | 20 Superior ulnar collateral artery, Vein comitans |
| 3 Biceps brachii, Tendo | 12 Thoraco acromial artery | 21 Basilic vein |
| 4 Biceps brachii | 13 Axillary vein | 22 Brachial artery |
| 5 Brachial fascia | 14 Axillary artery | 23 Brachial veins |
| 6 Pectoralis major | 15 Subscapularis | 24 Median nerve |
| 7 Brachial plexus | 16 Thoracodorsal artery | 25 Median cubital vein |
| 8 Thoraco acromial artery, deltoid branch | 17 Circumflex scapular artery, Vein comitans | |
| 9 Pectoralis minor | 18 Teres major | |



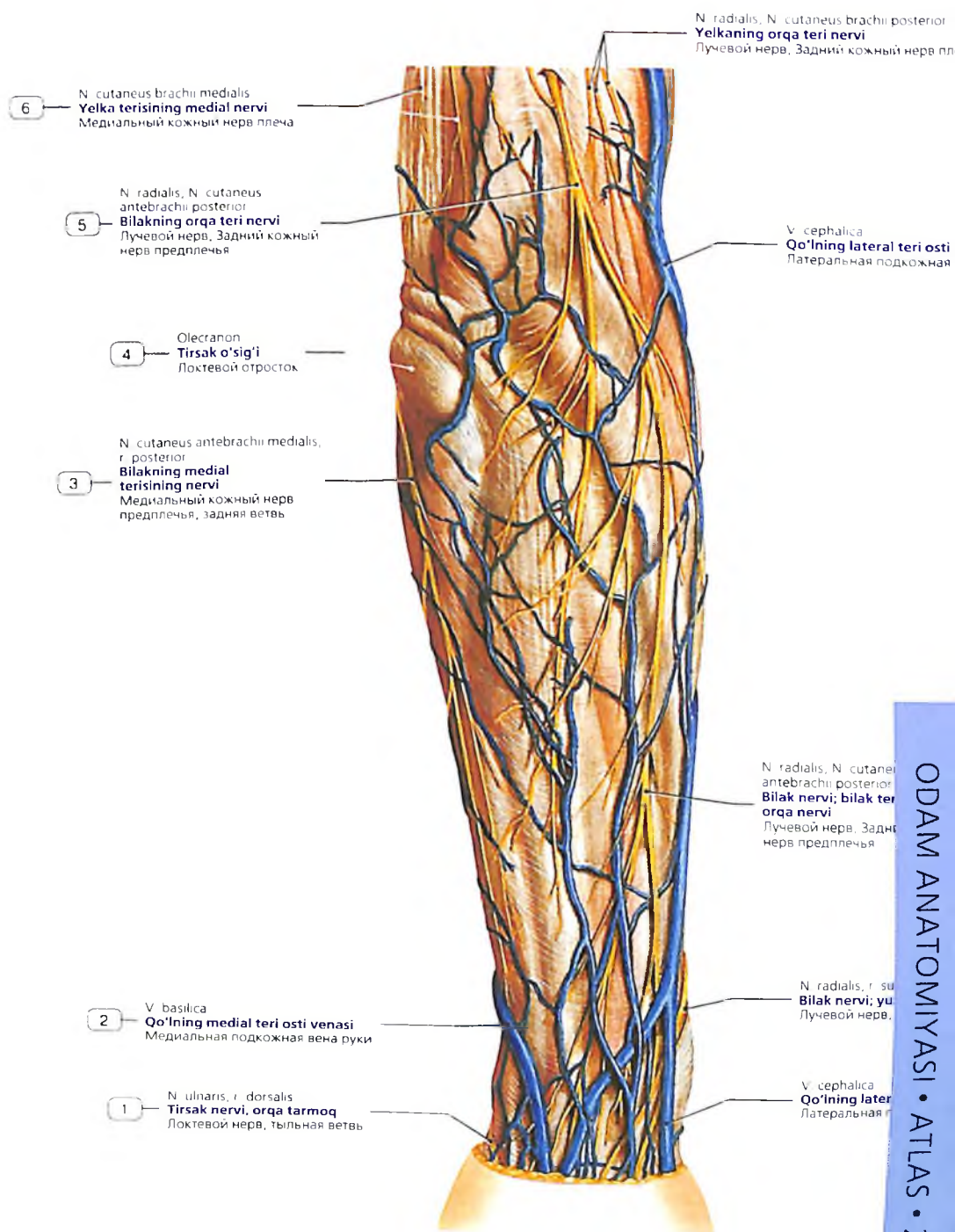
Rasm № 525. Bilakning chuqur venalari, oldindan ko'rinishi.
Рисунок № 525. Глубокие вены предплечья, вид спереди.

- | | | | | | | | |
|---|--|----|--|----|------------------------------|----|----------------------------------|
| 1 | Principes pollicis artery, branches | 9 | Radial nerve, superficial branch | 16 | Brachial artery | 24 | Flexor retinaculum |
| 2 | Abductor pollicis brevis | 10 | Radial nerve, deep branch | 17 | Ulnar recurrent artery | 25 | Ulnar nerve, superficial branch |
| 3 | Radial artery, superficial palmar branch | 11 | Anastomotic vessel (between superficial and veins of upper limb) | 18 | Ulnar artery | 26 | Ulnar artery, deep palmar branch |
| 4 | Cephalic vein | 12 | Cephalic vein | 19 | Ulnar veins | 27 | Superficial palmar arch |
| 5 | Radial artery | 13 | Basilic vein | 20 | Veins comitans | 28 | Palmar digital veins |
| 6 | Radial veins | 14 | Inferior ulnar collateral artery | 21 | Anterior interosseous artery | 29 | Common palmar digital arteries |
| 7 | Common interosseous artery | 15 | Brachial veins | 22 | Median nerve | | |
| 8 | Radial recurrent artery | | | 23 | Flexor digitorum profundus | | |



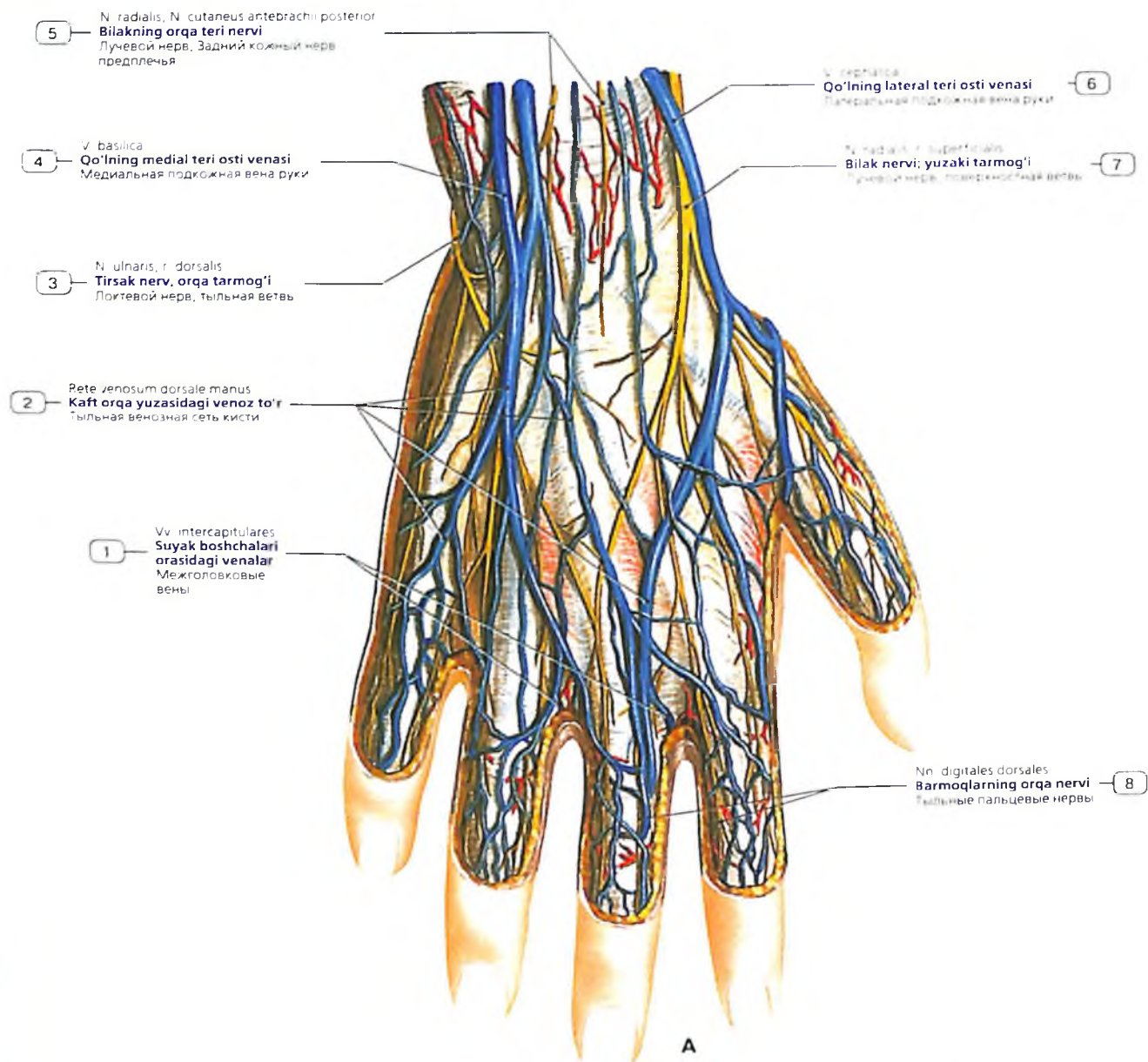
Rasm № 526. Qo'ling lateral va medial teri osti venalari.
Рисунок № 526. Латеральная и медиальная подкожные вены руки.

- | | |
|--|---|
| 1 Radial artery | 9 Medial cutaneous nerve of forearm, Medial antebrachial cutaneous nerve |
| 2 Radial nerve, superficial branch | 10 Medial cutaneous nerve of forearm, Medial antebrachial cutaneous nerve, posterior branch |
| 3 Cephalic vein | 11 Medial cutaneous nerve of forearm, Medial antebrachial cutaneous nerve, anterior branch |
| 4 Musculocutaneous nerve, Lateral cutaneous nerve of forearm, Lateral antebrachial cutaneous nerve | 12 Median basilic vein |
| 5 Median antebrachial vein, Median vein of forearm | 13 Ulnar nerve, palmar branch |
| 6 Median cubital vein | 14 Median nerve, palmar branch |
| 7 Basilic vein | |
| 8 Medial cutaneous nerve of arm, Medial brachial cutaneous nerve | |



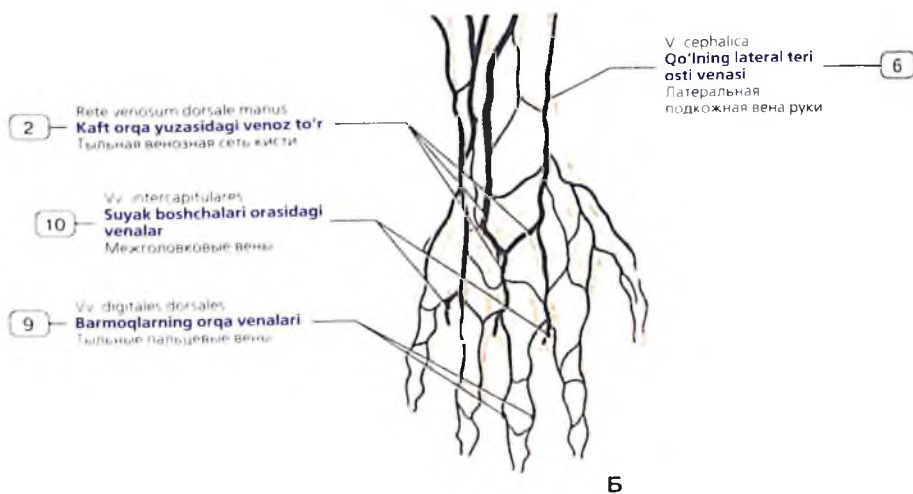
Rasm № 527. Bilakning yuza venalari, orqadan ko'rinib
Рисунок № 527. Поверхностные вены предплечья, вид сзади

- | | |
|-------------------------------------|-------------------------------------|
| 1 Ulnar nerve, dorsal branch | 6 Medial cutaneous nerve of arm |
| 2 Basilic vein | 7 Medial brachial cutaneous nerve |
| 3 Medial cutaneous nerve of forearm | 8 Radial nerve; Posterior cutaneous |

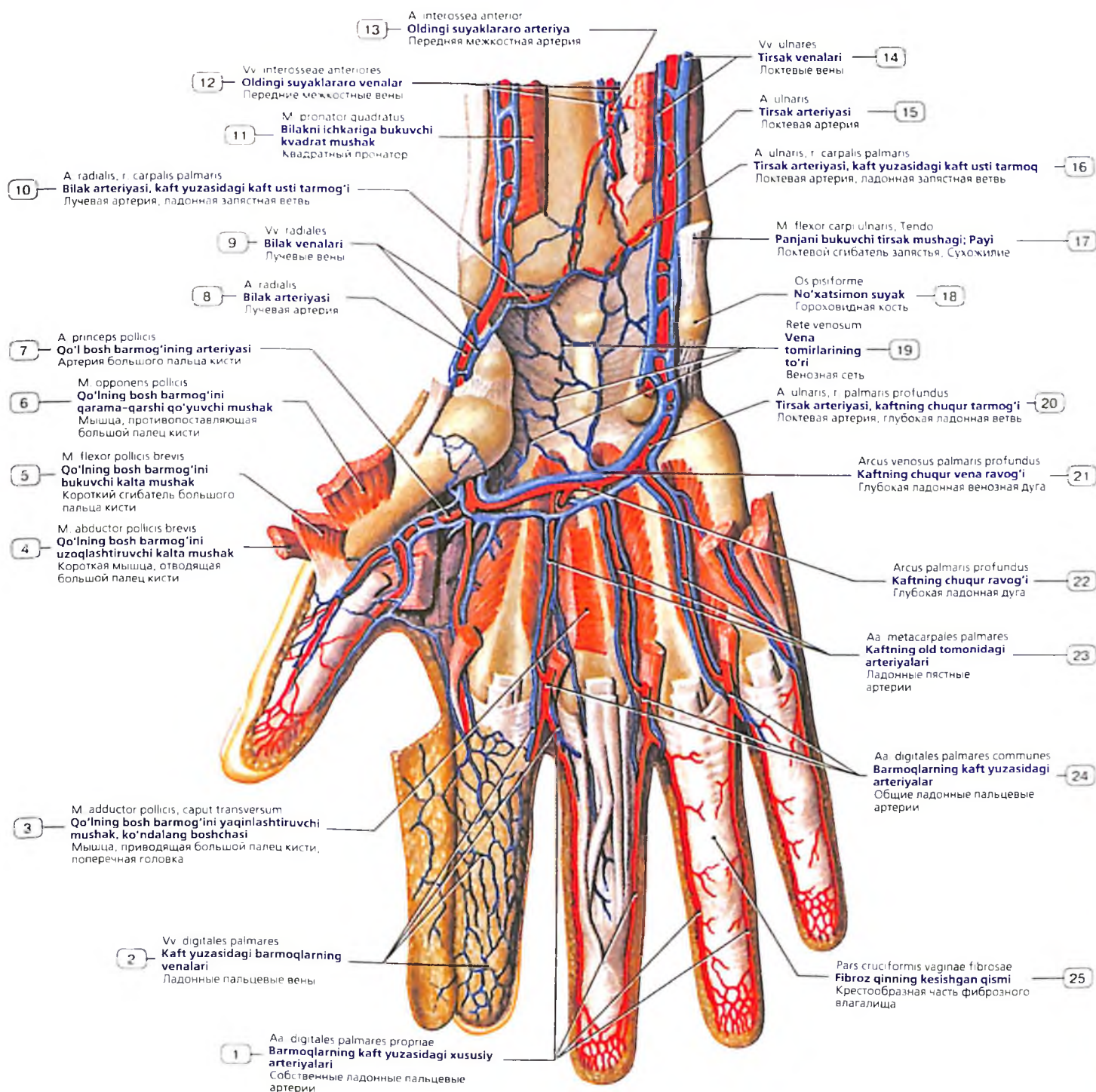


Расм № 528. Kaftning orqa yuza venalari, o'ng tomon (A — umumiy ko'rinish; B — chizma).
Рисунок № 528. Поверхностные тыльные вены кисти, правой (A — общий вид; B — схема).

1. Intercapitular veins
2. Dorsal venous network of hand
3. Ulnar nerve, dorsal branch
4. Basilic vein
5. Radial nerve, Posterior cutaneous nerve of forearm, Posterior antebrachial cutaneous nerve
6. Cephalic vein
7. Radial nerve, superficial branch
8. Dorsal digital nerves
9. Dorsal digital veins
10. Intercapitular veins

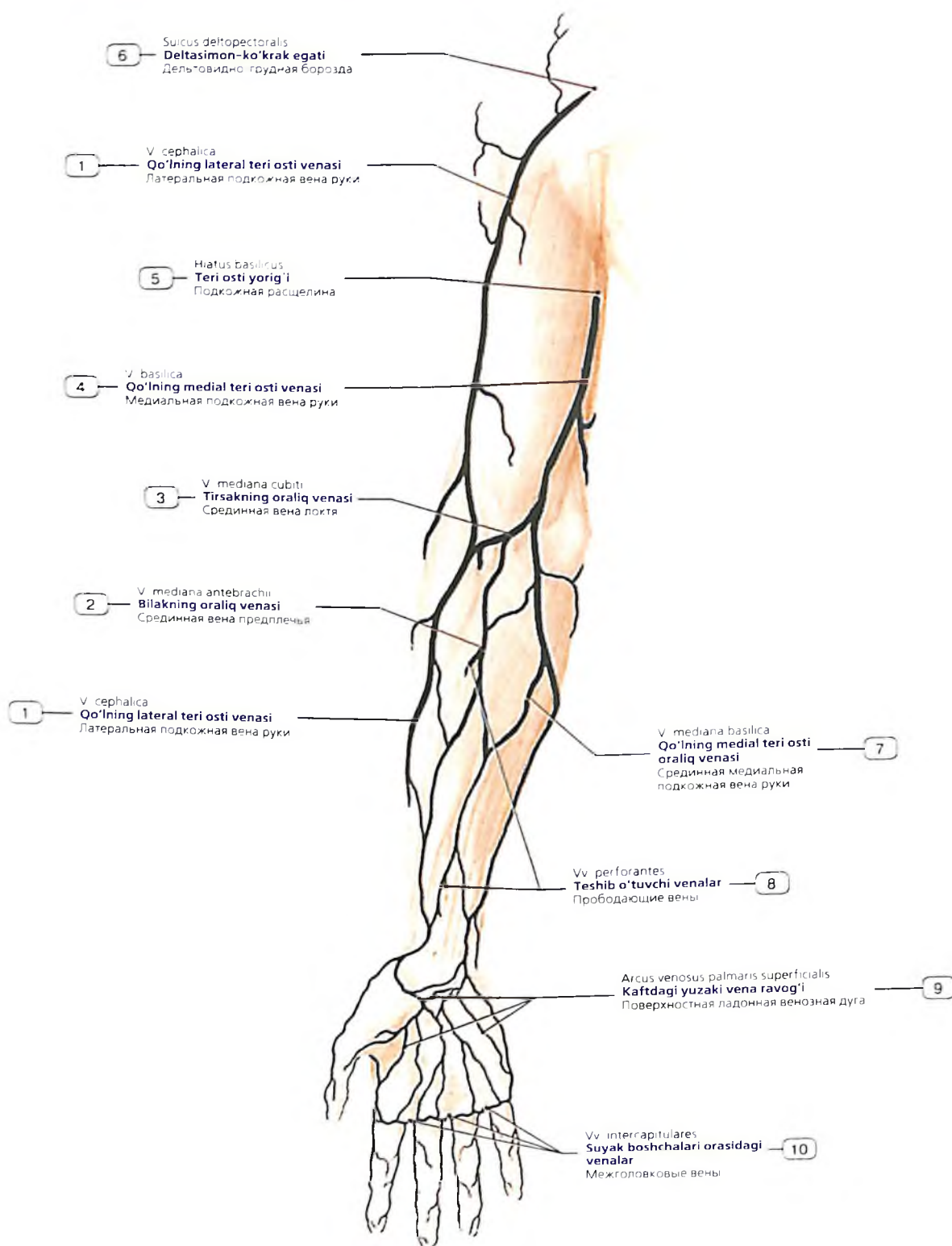


Б



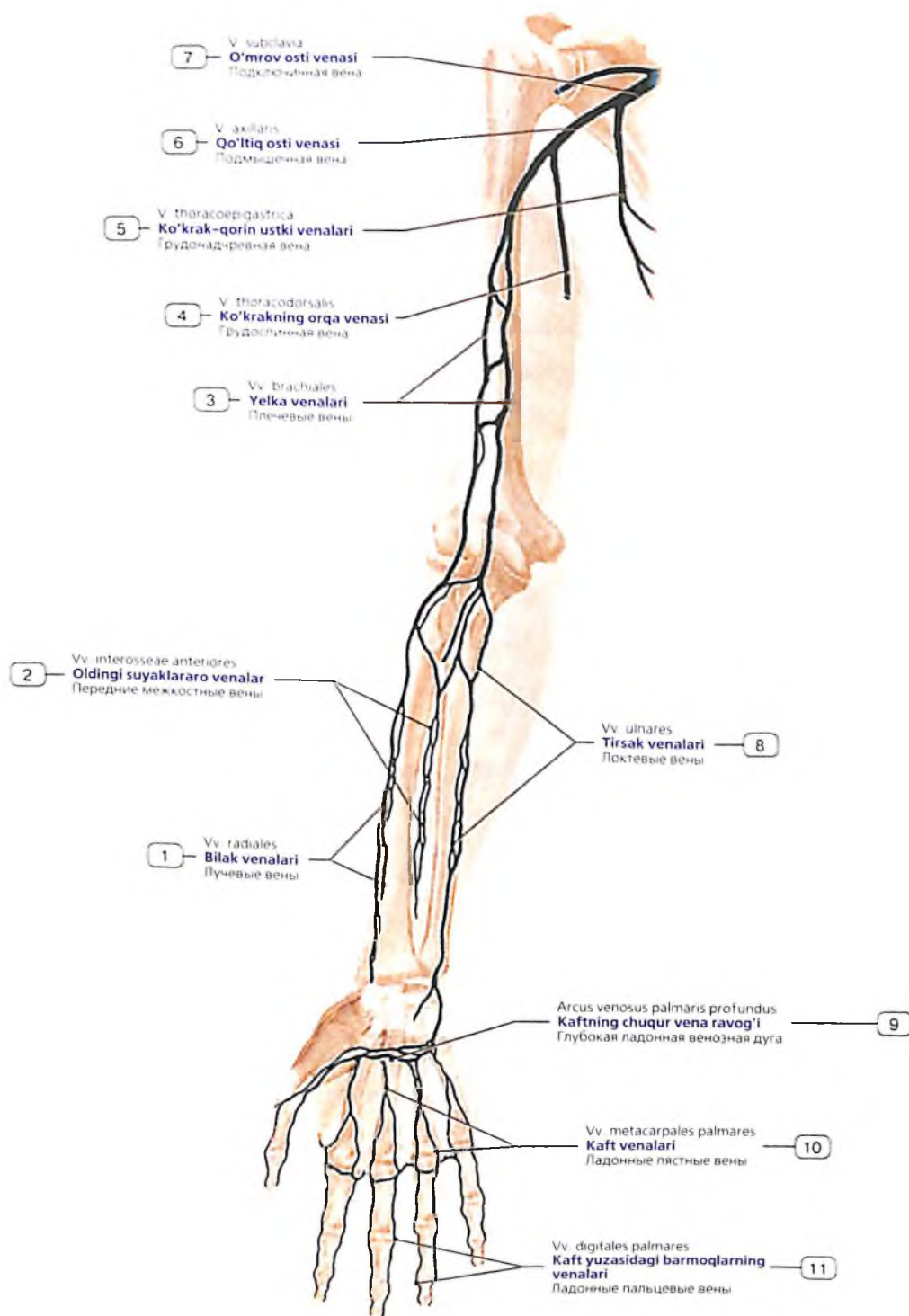
Rasm № 529. Qo'l kaftining chuqur venalari.
Рисунок № 529. Глубокие вены ладонной стороны кисти.

- | | | |
|--------------------------------------|--|-------------------------------------|
| 1 Proper palmar digital arteries | 10 Radial artery, palmar carpal branch | 19 Venous plexus |
| 2 Palmar digital veins | 11 Pronator quadratus | 20 Ulnar artery, deep palmar branch |
| 3 Adductor pollicis, transversa head | 12 Anterior interosseous veins | 21 Deep venous palmar arch |
| 4 Abductor pollicis brevis | 13 Anterior interosseous artery | 22 Deep palmar arch |
| 5 Flexor pollicis brevis | 14 Ulnar veins | 23 Palmar metacarpal arteries |
| 6 Opponens pollicis | 15 Ulnar artery | 24 Common palmar digital arteries |
| 7 Princeps pollicis artery | 16 Ulnar artery, palmar carpal branch | 25 Cruciform part of fibrous sheath |
| 8 Radial artery | 17 Flexor carpi ulnaris, Tendon | |
| 9 Radial veins | 18 Pisiform | |



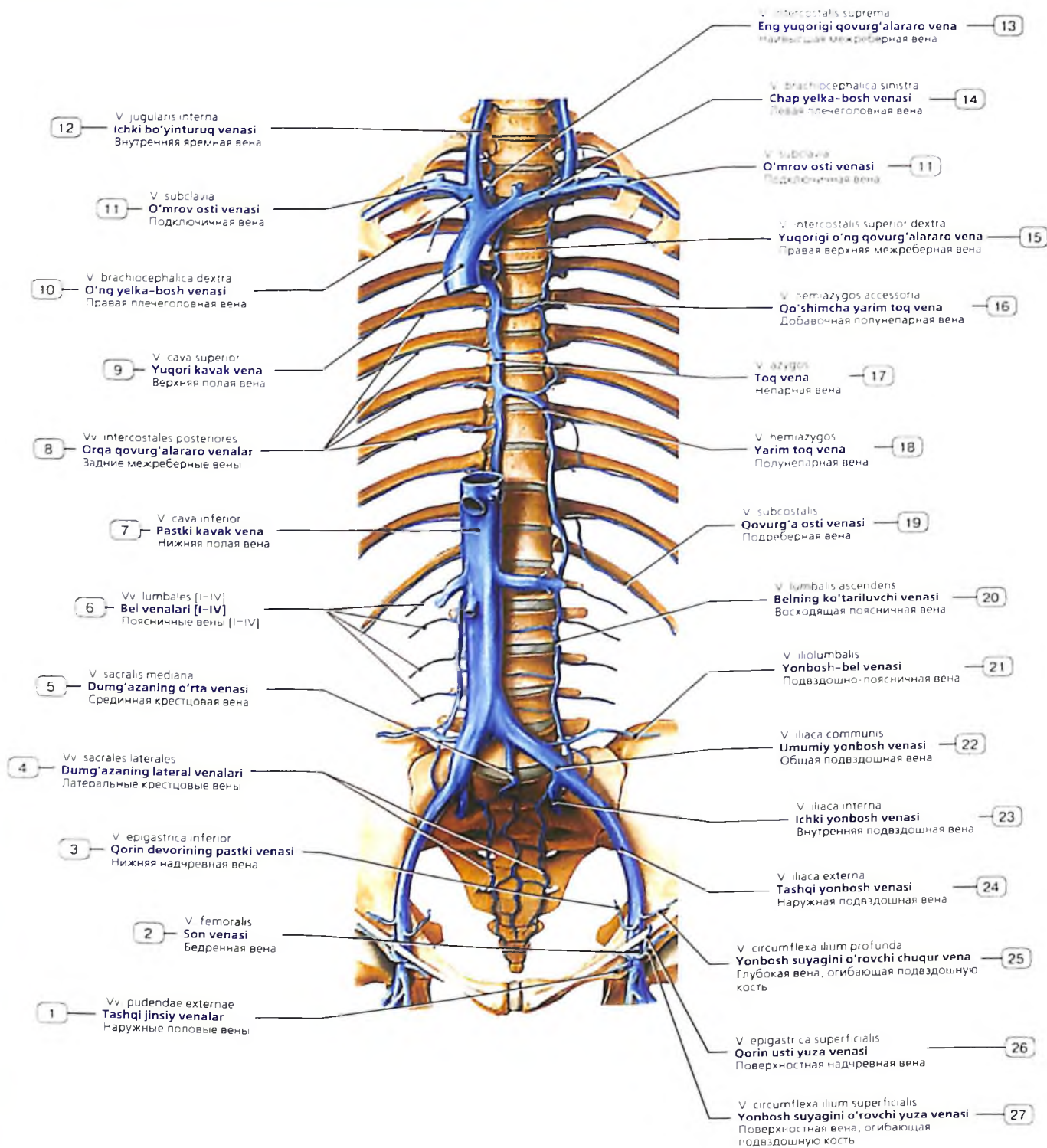
Rasm № 530. Qo'lning yuza venalari, oldindan ko'rinishi.
Рисунок № 530. Поверхностные вены верхней конечности, вид спереди.

- | | | |
|---|------------------------|----------------------------------|
| 1 Cephalic vein | 4 Basilic vein | 8 Perforating veins |
| 2 Median antebrachial vein,
Median vein of forearm | 5 Basilic hiatus | 9 Superficial venous palmar arch |
| 3 Median cubital vein | 6 Deltopectoral sulcus | 10 Intercapitular veins |
| | 7 Median basilic vein | |



Rasm № 531. Qo'lning chuqur venalari (chizma).
Рисунок № 531. Глубокие вены верхней конечности (схема).

- | | |
|-------------------------------|----------------------------|
| 1 Radial veins | 7 Subclavian vein |
| 2 Anterior interosseous veins | 8 Ulnar veins |
| 3 Brachial veins | 9 Deep venous palmar arch |
| 4 Thoracodorsal vein | 10 Palmar metacarpal veins |
| 5 Thoraco-epigastric vein | 11 Palmar digital veins |
| 6 Axillary vein | |



Rasm № 532. Yuqori va pastki kavak venalarining shakllanishi, oldindan ko'rinishi.
Рисунок № 532. Формирование верхней и нижней полых вен, вид спереди.

- | | | | |
|----------------------------|------------------------------------|--------------------------------|--------------------------------------|
| 1 External pudendal veins | 9 Superior vena cava | 16 Accessory hemi-azygos vein, | 22 Common iliac vein |
| 2 Femoral vein | 10 Right brachiocephalic vein | Superior hemi-azygos vein | 23 Internal iliac vein |
| 3 Inferior epigastric vein | 11 Subclavian vein | 17 Azygos vein | 24 External iliac vein |
| 4 Lateral sacral vein | 12 Internal jugular vein | 18 Hemi-azygos vein, | 25 Deep circumflex iliac vein |
| 5 Medial sacral vein | 13 Supreme intercostal vein | Inferior hemi-azygos vein | 26 Superficial epigastric vein |
| 6 Lumbar veins [I-IV] | 14 Left brachiocephalic vein | 19 Subcostal vein | 27 Superficial circumflex iliac vein |
| 7 Inferior vena cavae | 15 Right superior intercostal vein | 20 Ascending lumbar vein | |
| 8 Poster intercostal veins | | 21 Iliolumbar vein | |

Tana venalari qisqacha tasnifi.

Tana devori venalari kavak vena va toq vena tizimiga quyiladi. Kavak venalari tizimida yuqori va pastki kavak vena tarmoqlari tafovut etiladi

Yuqori kavak vena tarmoqlari

- Eng yuqoridagi qovurg'alararo vena (yelka-bosh venasi)
- Oldingi qovurg'alararo venalar (ichki ko'krak venasi, o'mrov osti venasi)
- Qorin devorining ustki venasi (ichki ko'krak venasi, o'mrov osti venasi)
- Ko'krakning lateral venasi (qo'ltiq osti venasi)
- Ko'krak-qorin usti venalari (qo'ltiq osti venasi)

Pastki kavak vena tarmoqlari

- Orqa qovurg'alararo venalar
- Qovurg'a osti venalari
- Bel venalari (I-IV)

Belning
ko'tariluvchi venasi

- Yonbosh-bel venasi
- Dumg'azaning o'rta venasi
- Dumg'azaning lateral venasi

Umumiy yonbosh venasi

- Yonbosh suyagini o'rovchi chuqur vena
- Qorin devorining pastki venasi

Tashqi yonbosh venasi

- Yopqich venasi
- Ichki jinsiy vena

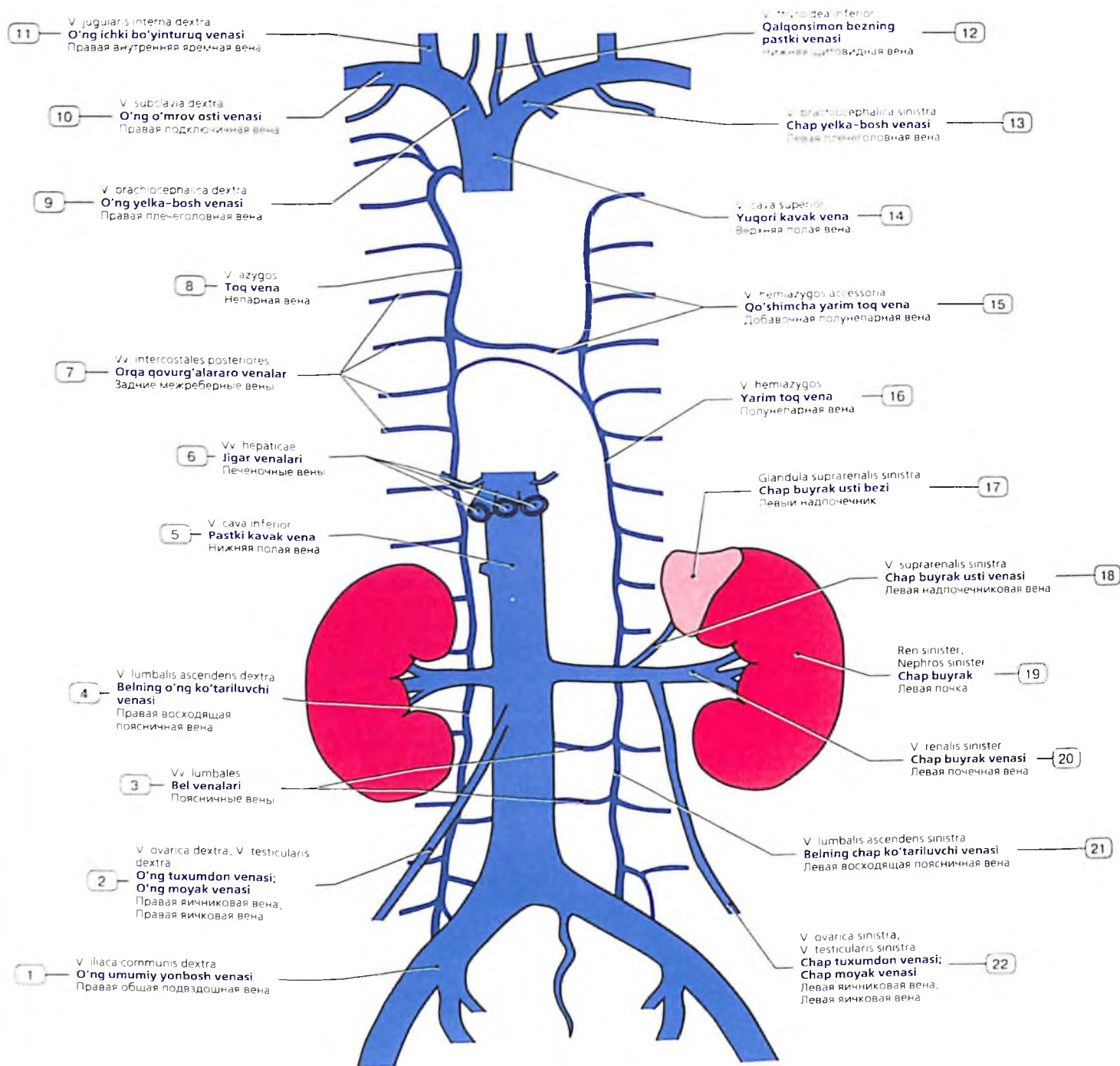
Ichki yonbosh venasi

- Tashqi jinsiy venalar
- Yonbosh suyagini o'rovchi yuzaki vena
- Qorin devorining yuzaki venasi

Son venasi

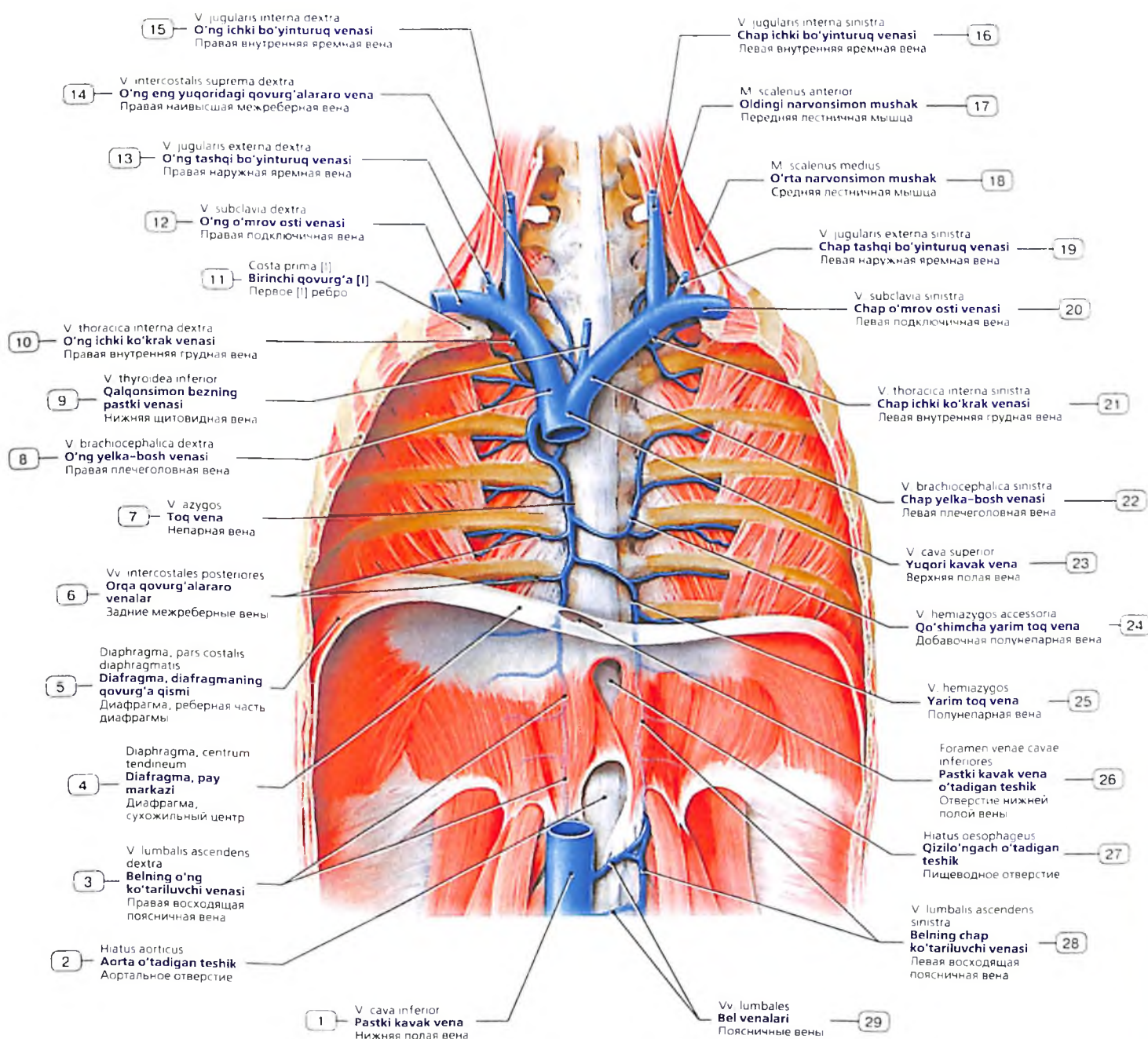
Toq vena tarmoqlari

- Orqa qovurg'alararo venalar
- Ustki qovurg'alararo venalar
- Yarim toq vena
- Qo'shimcha yarim toq vena
- Umurtqa pog'onasining venalari



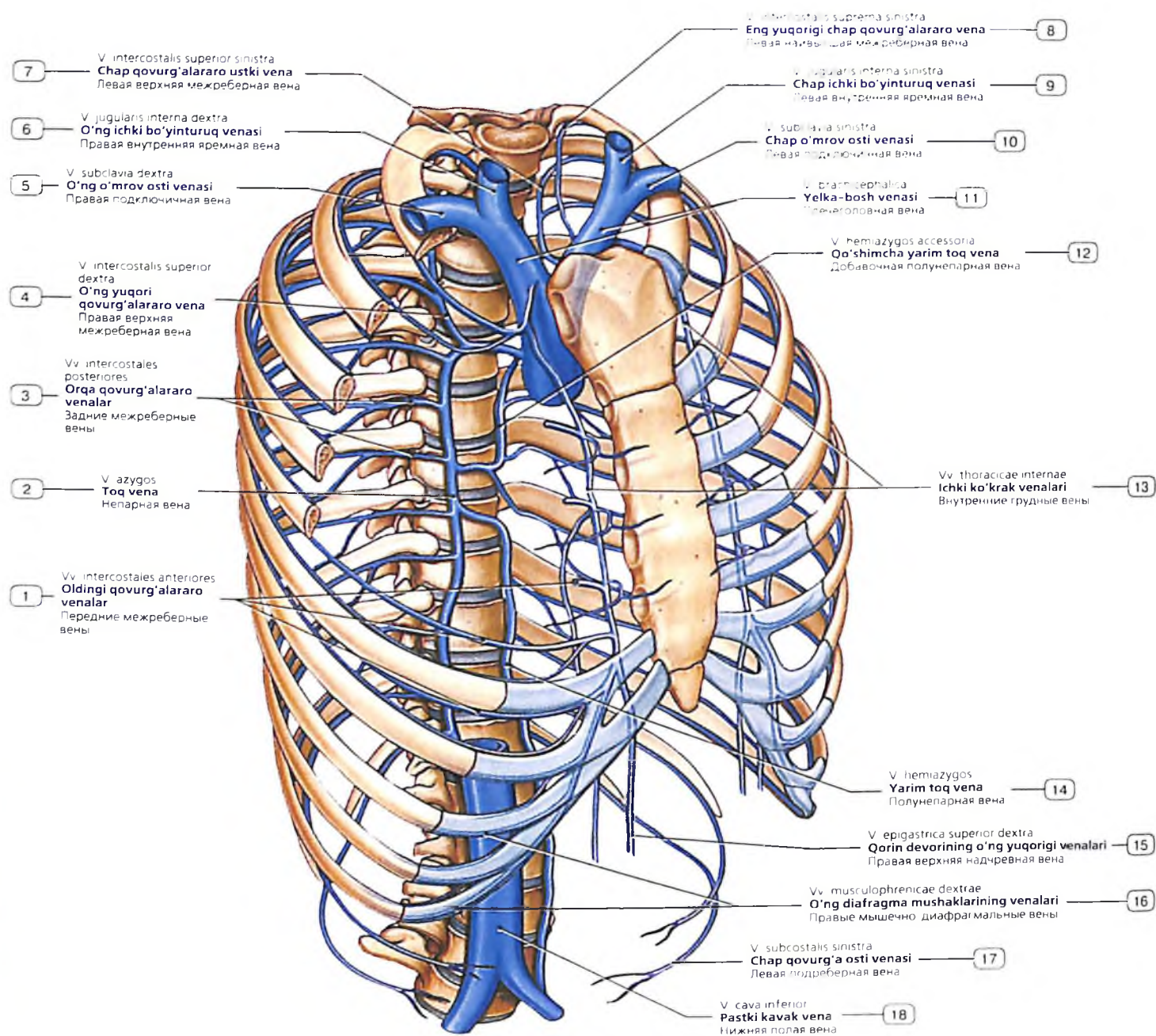
Рисунки № 533. Тоқ ва yarim тоқ веналар.
Рисунок № 533. Непарная и полунепарная вены.

- | | | |
|---|-------------------------------|--|
| 1 Right common iliac vein | 9 Right brachiocephalic vein | 16 Hemiazygos vein, |
| 2 Right ovarian vein, Right testicular vein | 10 Right subclavian vein | Inferior hemiazygos vein |
| 3 Lumbar veins | 11 Right jugular vein | 17 Left suprarenal gland, Left adrenal gland |
| 4 Right ascending lumbar vein | 12 Inferior thyroid vein | 18 Left suprarenal vein |
| 5 Inferior vena cava | 13 Left brachiocephalic vein | 19 Left kidney |
| 6 Hepatic veins | 14 Superior vena cavae | 20 Left renal vein |
| 7 Posterior intercostal veins | 15 Accessory hemiazygos vein, | 21 Left ascending lumbar vein |
| 8 Azygos vein | Superior hemiazygos vein | 22 Left ovarian vein, Left testicular vein |



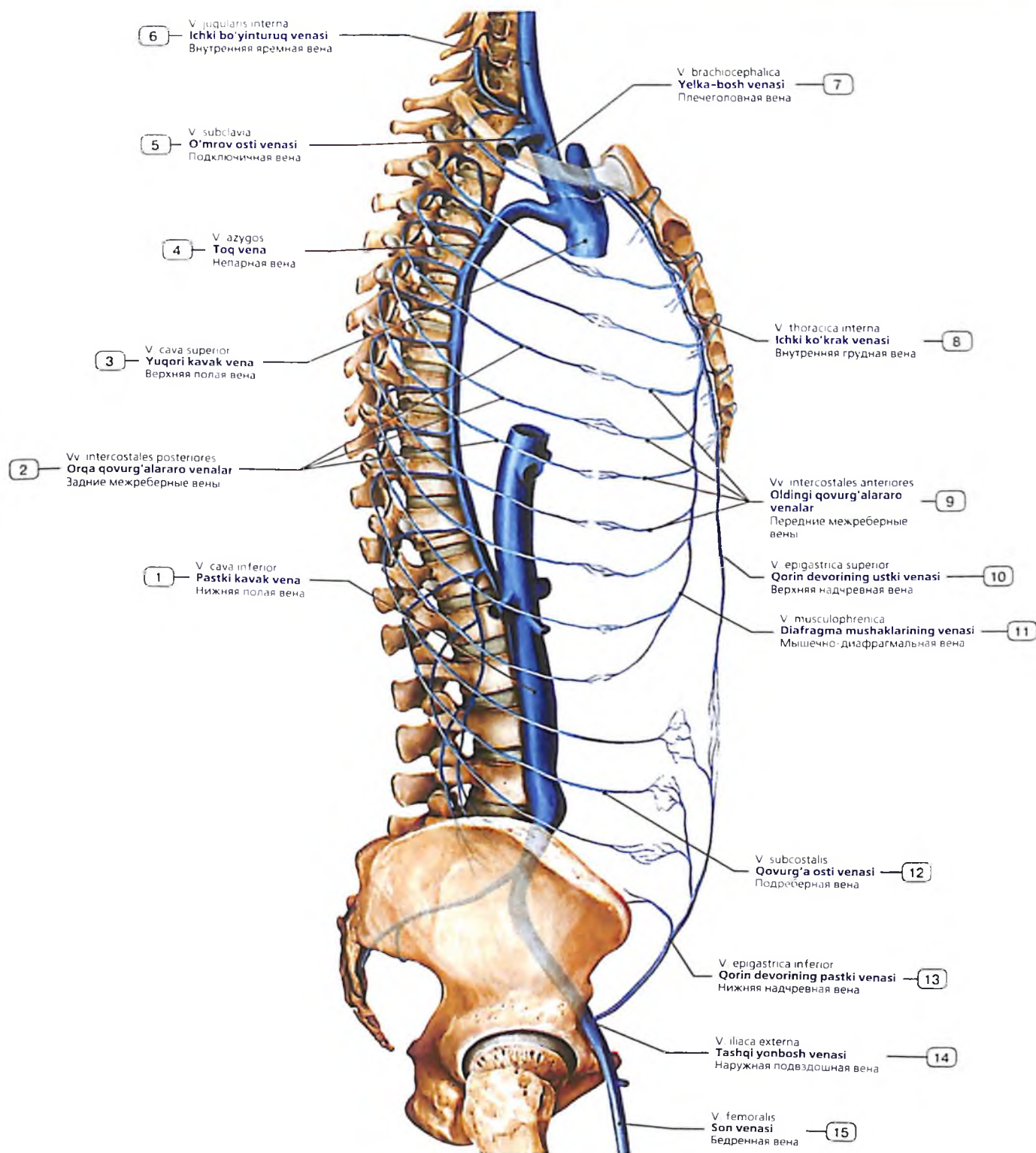
Rasm № 534. Yuqori kavak venasining shakllanishi, oldindan ko'rinishi.
Рисунок № 534. Формирование верхней полой вены, вид спереди.

- | | | | |
|-------------------------------|----------------------------------|--|--|
| 1 Inferior vena cava | 9 Inferior thyroid vein | 17 Scalenus anterior, Anterior scalene | 24 Accessory hemi-azygos vein, Superior hemi-azygos vein |
| 2 Aortic hiatus | 10 Right internal thoracic vein | 18 Scalenus medius; media scalene | 25 Hemi-azygos vein, Inferior hemi-azygos vein |
| 3 Right ascending lumbar vein | 11 First rib [I] | 19 Left external jugular vein | 26 Caval opening |
| 4 Diaphragm, central tendon | 12 Right subclavian vein | 20 Left subclavian vein | 27 Oesophageal hiatus |
| 5 Diaphragm, costal part | 13 Right external jugular vein | 21 Left internal thoracic vein | 28 Left ascending lumbar vein |
| 6 Posterior intercostal vein | 14 Right supra- intercostal vein | 22 Left brachiocephalic vein | 29 Lumbar vein |
| 7 Azygos vein | 15 Right internal jugular vein | 23 Superior vena cava | |
| 8 Right brachiocephalic vein | 16 Left internal jugular vein | | |



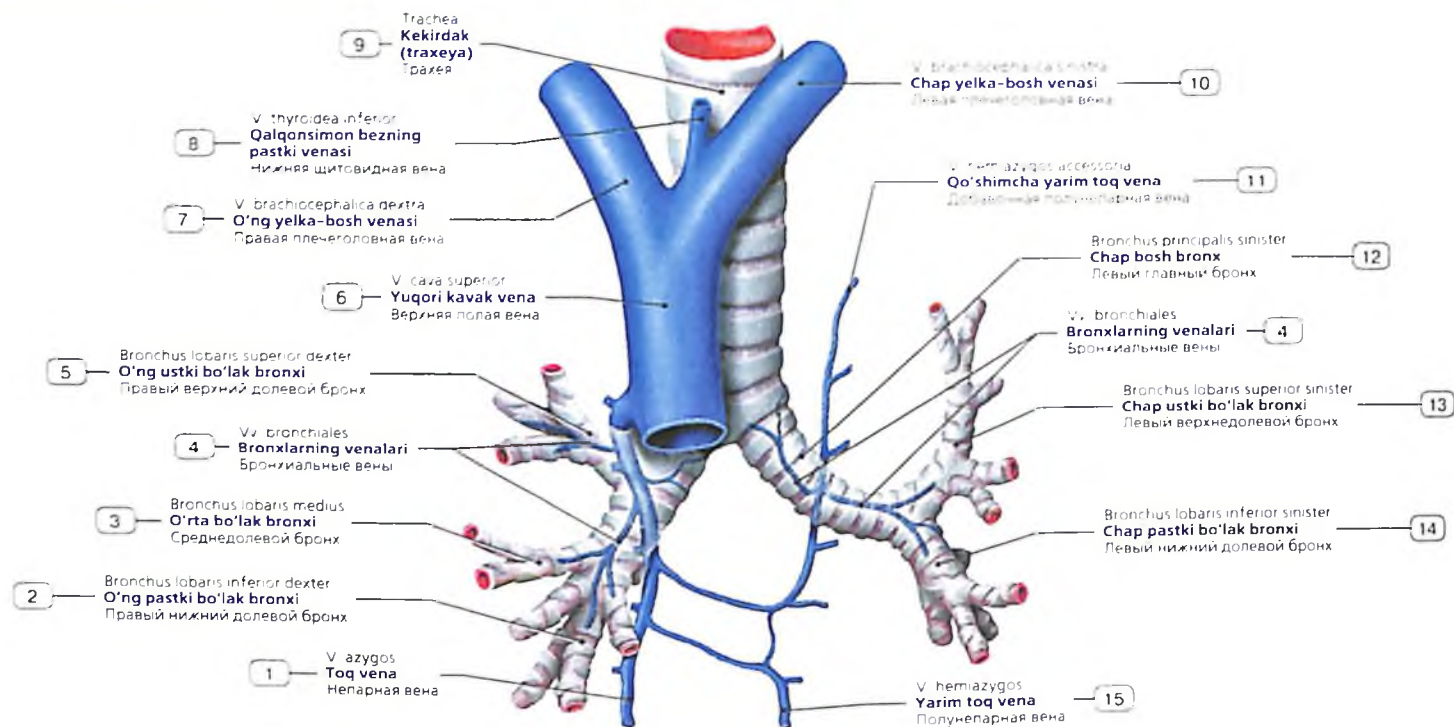
Rasm № 535. Ko'krak qafasining venalari, oldindan, yon tomondan ko'rinish.
Рисунок № 535. Вены грудной клетки, вид спереди, сбоку.

- | | | |
|-----------------------------------|---------------------------------|-----------------------------------|
| 1 Anterior intercostal veins | 8 Left supreme intercostal vein | 14 Hemi-azygos vein, |
| 2 Azygos vein | 9 Left internal jugular vein | inferior hemi-azygos vein |
| 3 Posterior intercostal veins | 10 Left subclavian vein | 15 Right superior epigastric vein |
| 4 Right superior intercostal vein | 11 Brachiocephalic vein | 16 Right musculophrenic veins |
| 5 Right subclavian vein | 12 Accessory hemi-azygos vein, | 17 Left subcostal vein |
| 6 Right internal jugular vein | superior hemi-azygos vein | 18 Inferior vena cava |
| 7 Left superior intercostal vein | 13 Internal thoracic veins | |



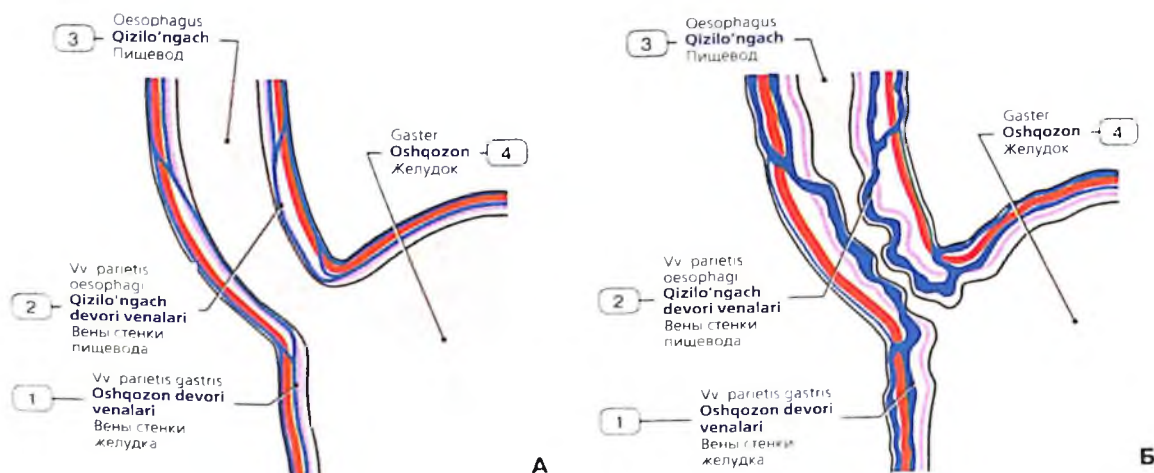
Rasm № 536. Tana devori venalari, yon tomondan ko'rinishi.
Рисунок № 536. Вены стенок туловища, вид сбоку.

- | | | |
|------------------------------|------------------------------|-----------------------------|
| 1 Inferior vena cava | 6 Internal jugular vein | 11 Musculophrenic vein |
| 2 Posterior intercostal vein | 7 Brachiocephalic vein | 12 Subcostal vein |
| 3 Superior vena cava | 8 Internal thoracic vein | 13 Inferior epigastric vein |
| 4 Azygos vein | 9 Anterior intercostal veins | 14 External iliac vein |
| 5 Subclavian vein | 10 Superior epigastric vein | 15 Femoral vein |



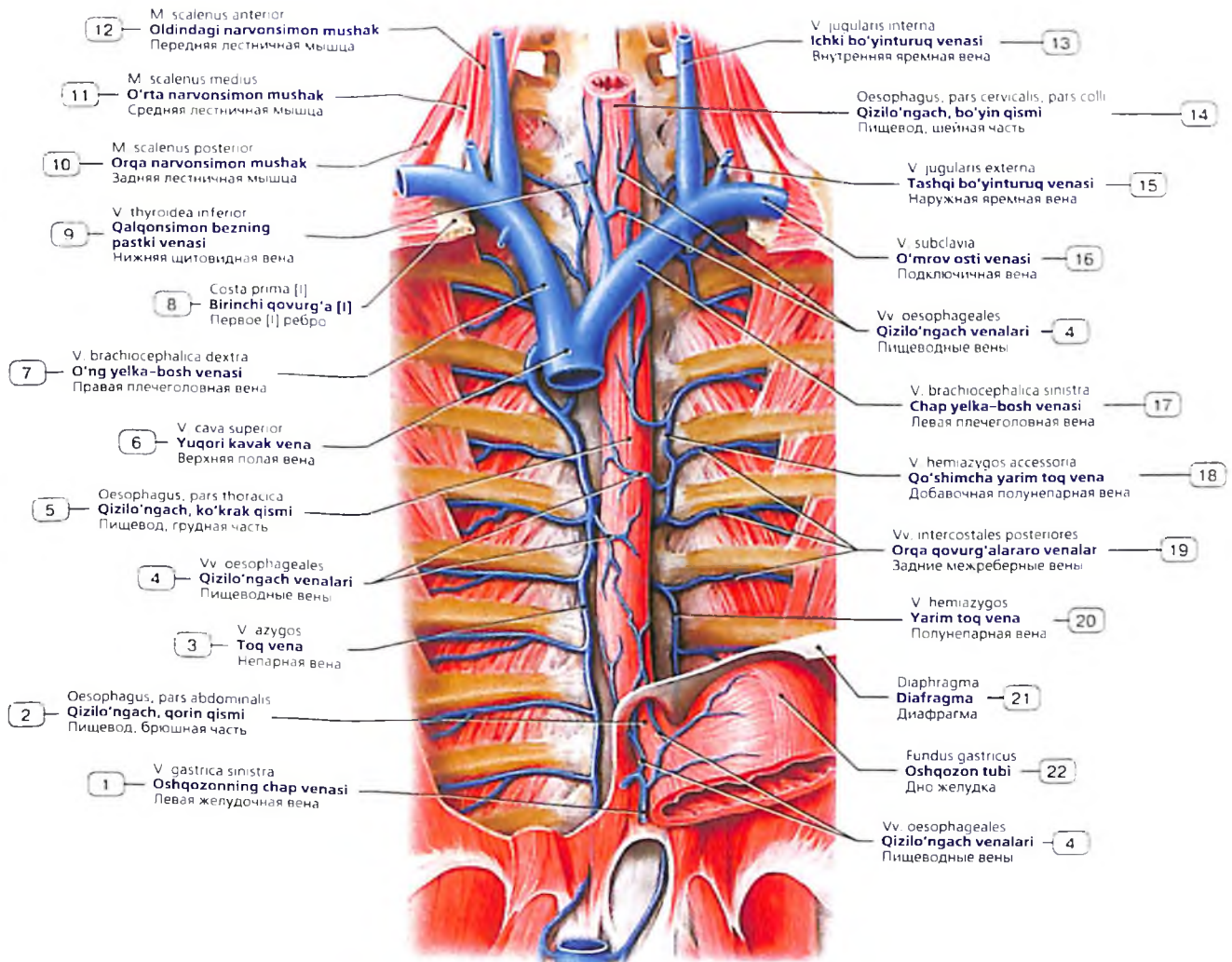
Rasm № 537. Bronxlarning venalari, oldindan ko'rinish.
Рисунок № 537. Бронхиальные вены, вид спереди.

- | | |
|---------------------------------|--|
| 1 Azygos vein | 9 Trachea |
| 2 Right inferior lobar bronchus | 10 Left brachiocephalic vein |
| 3 Middle lobar bronchus | 11 Accessory hemi-azygos vein, Superior hemi-azygos vein |
| 4 Bronchial veins | 12 Left main bronchus |
| 5 Right superior lobar bronchus | 13 Left superior lobar bronchus |
| 6 Superior vena cava | 14 Left inferior lobar bronchus |
| 7 Right brachiocephalic vein | 15 Hemi-azygos vein, Inferior hemi-azygos vein |
| 8 Inferior thyroid vein | |



Rasm № 538. Qizilo'ngachning oshqozonga o'tish qismida shilliq osti qavatidagi venoz chigal
(A — normal holat; Б — varikoz kengaygan venalar).
Рисунок № 538. Венозное сплетение в подслизистой основе зоны перехода пищевода в желудок
(А — нормальное состояние; Б — варикозное расширение вен).

- | | | | |
|----------------------------|-------------------------------|--------------|-----------|
| 1 Veins of wall of stomach | 2 Veins of wall of oesophagus | 3 Oesophagus | 4 Stomach |
|----------------------------|-------------------------------|--------------|-----------|

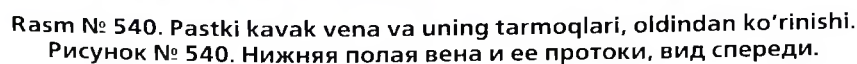


Rasm № 539. Qizilo'ngach venalari, oldindan ko'rinishi.
Рисунок № 539. Вены пищевода, вид спереди.

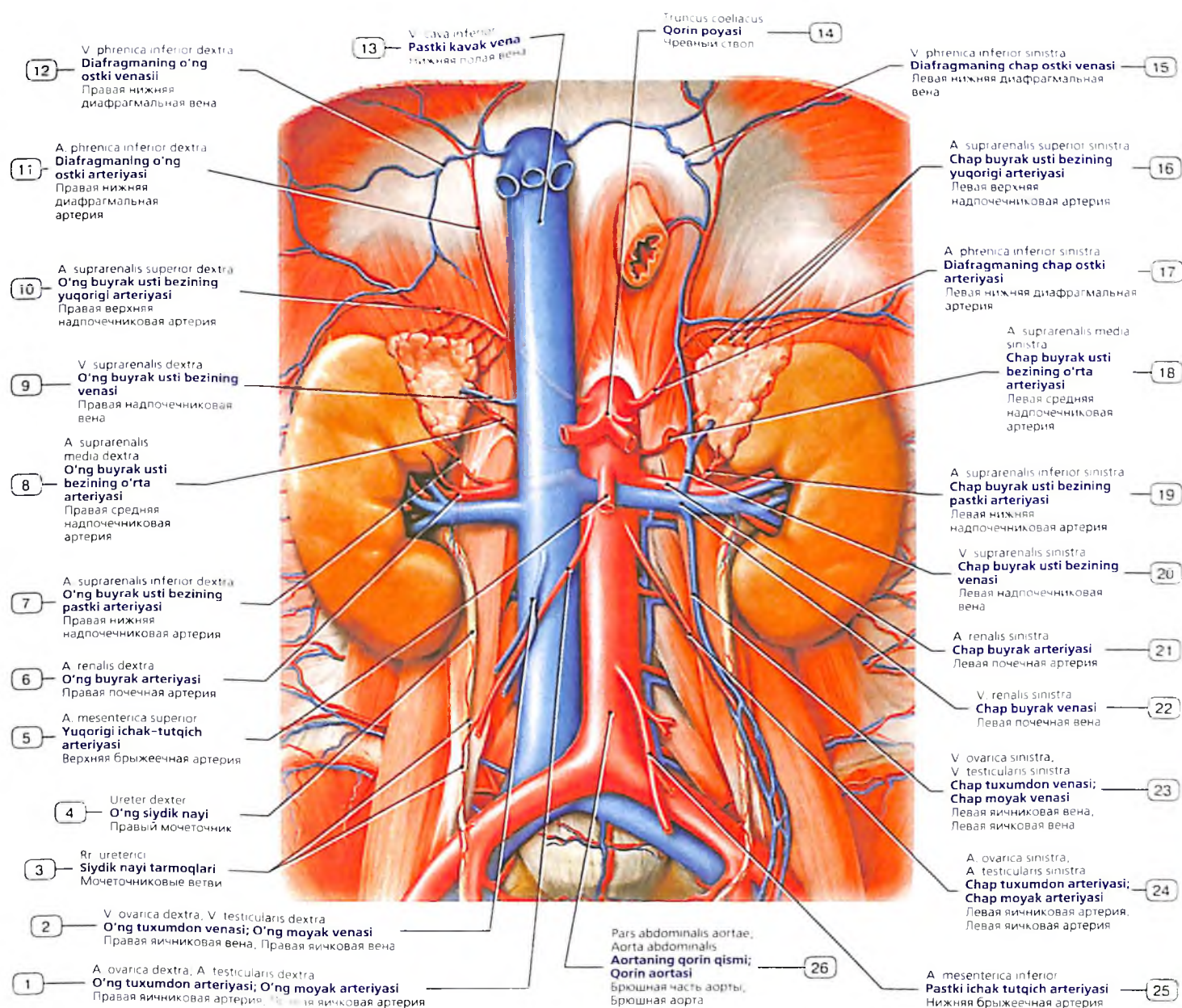
- 1 Left gastric vein
- 2 Oesophagus, abdominal part
- 3 Azygos vein
- 4 Oesophageal veins
- 5 Oesophagus, thoracic part
- 6 Superior vena cava
- 7 Right brachiocephalic vein
- 8 First rib [I]

- 9 Inferior thyroid vein
- 10 Scalenus posterior, posterior scalene
- 11 Scalenus medius, middle scalene
- 12 Scalenus anterior, anterior scalene
- 13 Internal jugular vein
- 14 Oesophagus, cervical part
- 15 Externa jugular vein
- 16 Subclavian vein

- 17 Left brachiocephalic vein
- 18 Accessory hemi-azygos vein, superior hemi-azygos vein
- 19 Posterior intercostal veins
- 20 Hemi-azygos vein, inferior hemi-azygos vein
- 21 Diaphragm
- 22 Fundus of stomach



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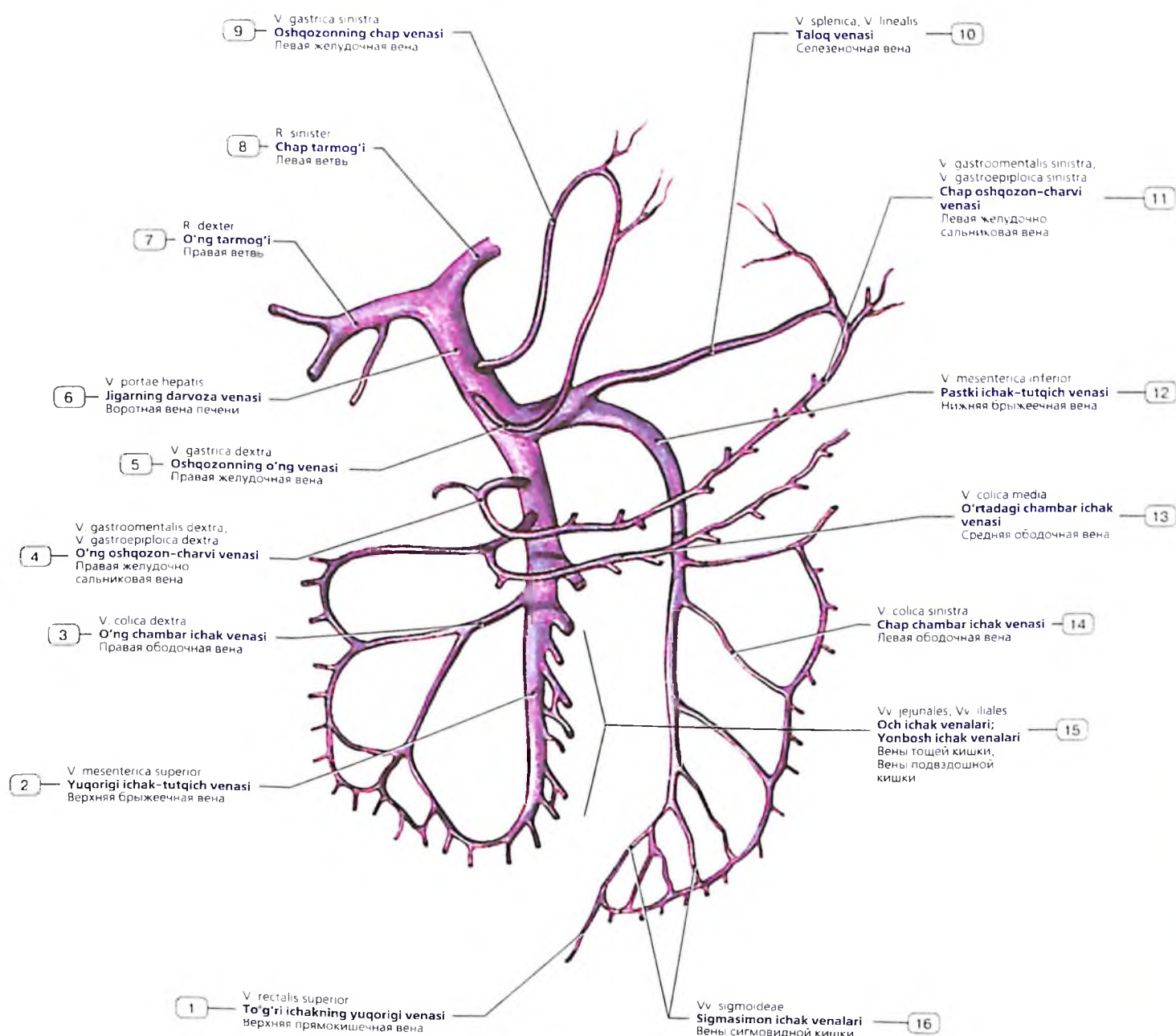


Rasm № 541. Qorin bo'shlig'i venalari, oldindan ko'rinishi.
Рисунок № 541. Вены брюшной полости, вид спереди.

- | | | |
|--|--|---|
| 1 Right ovarian artery,
Right testicular artery | 10 Right superior suprarenal
artery | 20 Left suprarenal vein |
| 2 Right ovarian vein,
Right testicular vein | 11 Right inferior phrenic artery | 21 Left renal artery |
| 3 Ureteric branches | 12 Right inferior phrenic vein | 22 Left renal vein |
| 4 Right ureter | 13 Inferior vena cava | 23 Left ovarian vein,
Left testicular vein |
| 5 Superior mesenteric artery | 14 Coeliac trunk | 24 Left ovarian artery,
Left testicular artery |
| 6 Right renal artery | 15 Left inferior phrenic vein | 25 Inferior mesenteric artery |
| 7 Right inferior suprarenal artery | 16 Left superior suprarenal artery | 26 Abdominal aorta |
| 8 Right middle suprarenal artery | 17 Left inferior phrenic artery | |
| 9 Right suprarenal vein | 18 Left middle suprarenal artery | |
| | 19 Left inferior suprarenal artery | |

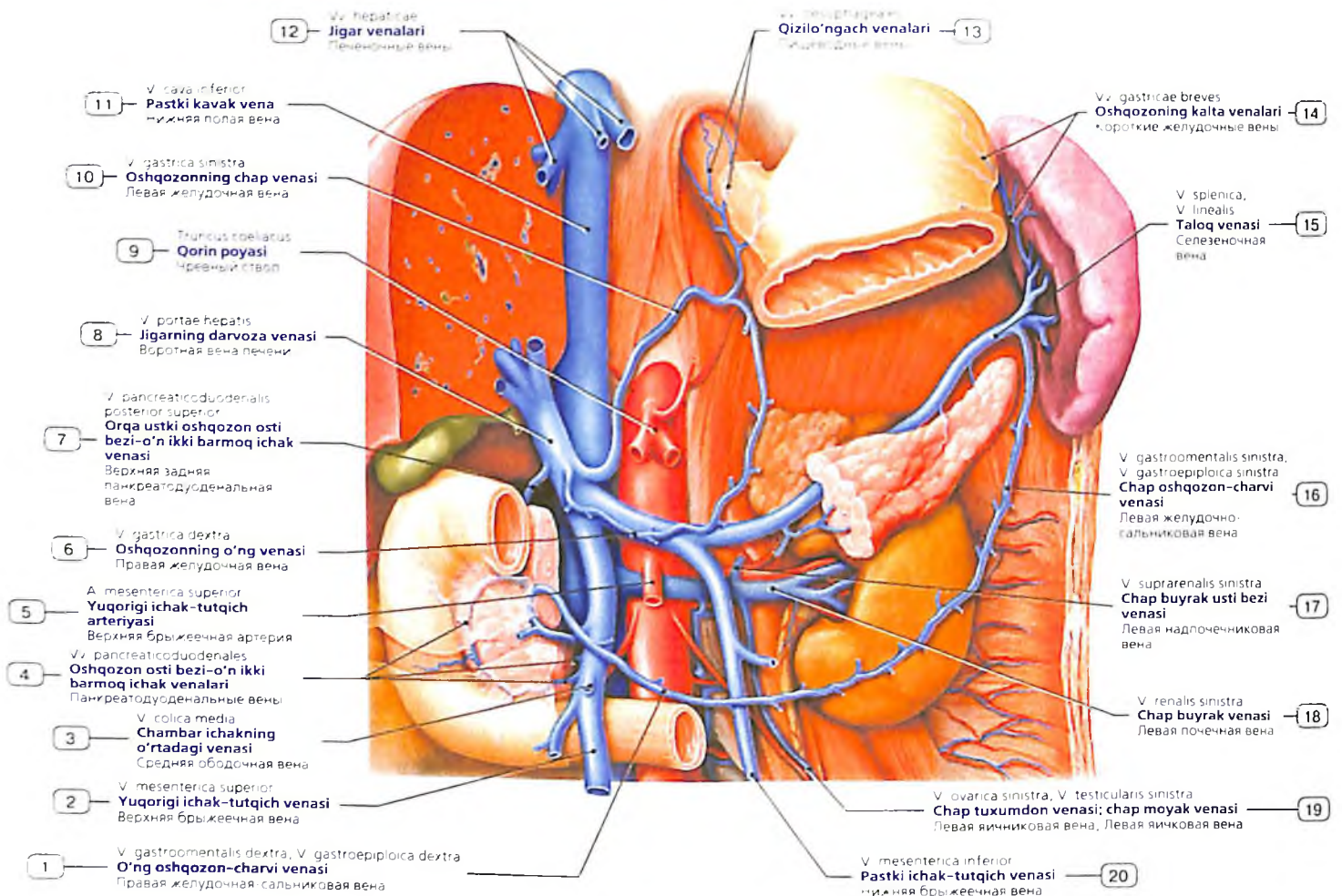


- | | | | | | |
|----|---|----|---|----|---|
| 1 | Iliac veins | 11 | Cystic vein | 21 | Pancreatic veins |
| 2 | Appendicular vein | 12 | Hepatic portal vein, right branch | 22 | Right gastro-omental vein, right gastro-epiploic vein |
| 3 | Ileocolic vein | 13 | Hepatic veins | 23 | Inferior mesenteric vein |
| 4 | Right colic vein | 14 | Inferior vena cava | 24 | Marginal vein of colon |
| 5 | Middle colic vein | 15 | Right gastric vein | 25 | Left colic vein |
| 6 | Superior posterior pancreaticoduodenal vein | 16 | Oesophageal veins | 26 | Superior rectal vein |
| 7 | Duodenal veins | 17 | Oesophageal branch | 27 | Sigmoid veins |
| 8 | Superior mesenteric vein | 18 | Left gastric vein | 28 | Middle rectal veins |
| 9 | Splenic vein | 19 | Short gastric veins | 29 | Inferior rectal veins |
| 10 | Hepatic portal vein | 20 | Left gastro-omental vein, left gastro-epiploic vein | 30 | Ileal veins |



Rasm № 543. Jigarning darvoza venasi tizimi (chizma).
Рисунок № 543. Система воротной вены печени (схема).

- | | |
|------------------------------|-------------------------------|
| 1 Superior rectal vein | 9 Left gastric vein |
| 2 Superior mesenteric vein | 10 Splenic vein |
| 3 Right colic vein | 11 Left gastro-omental vein, |
| 4 Right gastro-omental vein, | Left gastro-epiploic vein |
| right gastro-epiploic vein | 12 Inferior mesenteric vein |
| 5 Right gastric vein | 13 Middle colic vein |
| 6 Hepatic portal vein | 14 Left colic vein |
| 7 Right branch | 15 Jejunal veins, ileal veins |
| 8 Left branch | 16 Sigmoid veins |

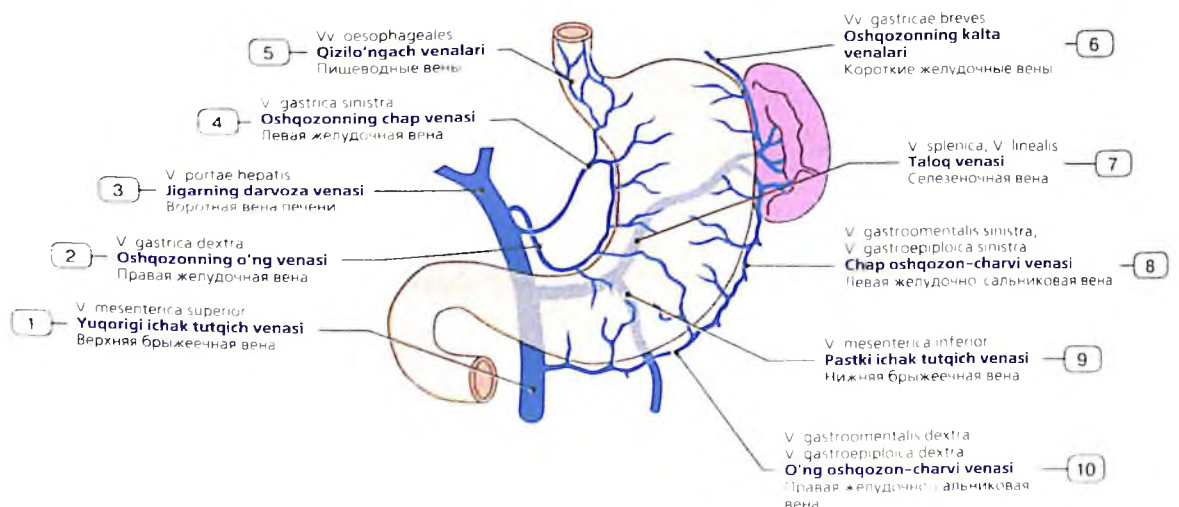


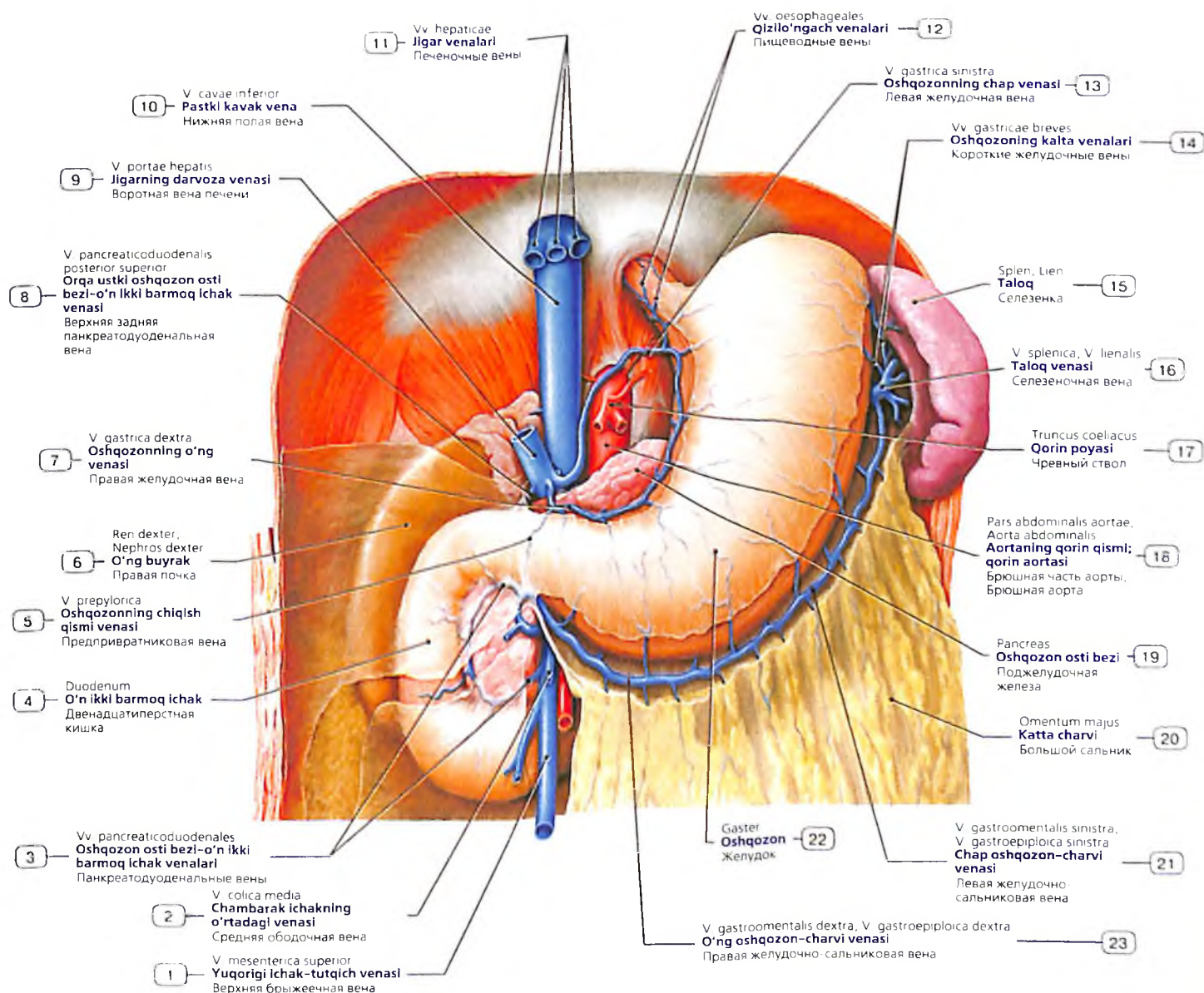
Rasm № 544. Jigarning darvoza venasining hosil bo'lishi, oldindan ko'rinishi.
Рисунок № 544. Формирование воротной вены печени, вид спереди.

- | | | | | |
|---|---|-----------------------|--|-----------------------------|
| 1 Right gastro-omental vein, right gastro-epiploic vein | 5 Superior mesenteric artery | 9 Coeliac trunk | 14 Short gastric veins | 18 Left renal vein |
| 2 Superior mesenteric vein | 6 Right gastric vein | 10 Left gastric vein | 15 Splenic vein | 19 Left ovarian vein; |
| 3 Middle colic vein | 7 Superior posterior Pancreaticoduodenal vein | 11 Inferior vena cava | 16 Left gastro-omental vein; Left gastro-epiploic vein | 20 Inferior mesenteric vein |
| 4 Pancreaticoduodenal veins | 8 Hepatic portal vein | 12 Hepatic veins | 17 Left suprarenal vein | |
| | | 13 Oesophageal veins | | |

Rasm № 545.
Oshqozon venalari (chizma).
Рисунок № 545.
Вены желудка (схема).

- Superior mesenteric vein
- Right gastric vein
- Hepatic portal vein
- Left gastric vein
- Oesophageal veins
- Short gastric veins
- Splenic vein
- Left gastro-omental vein, left gastro-epiploic vein
- Inferior mesenteric vein
- Right gastro-omental vein, right gastro-epiploic vein





Rasm № 546. Oshqozon venalari, oldindan ko`rinishi.
Рисунок № 546. Вены желудка, вид спереди.

- 1 Superior mesenteric vein
- 2 Middle colic vein
- 3 Pancreaticoduodenal veins
- 4 Duodenum
- 5 Prepyloric vein
- 6 Right kidney
- 7 Right gastric vein
- 8 Superior posterior pancreaticoduodenal vein
- 9 Hepatic portal vein
- 10 Inferior vena cava
- 11 Hepatic veins
- 12 Oesophageal veins

- 13 Left gastric vein
- 14 Short gastric veins
- 15 Spleen
- 16 Splenic vein
- 17 Coeliac trunk
- 18 Abdominal aorta
- 19 Pancreas
- 20 Greater omentum
- 21 Left gastro-omental vein, Left gastro-epiploic vein
- 22 Stomach
- 23 Right gastro-omental vein, Right gastro-epiploic vein

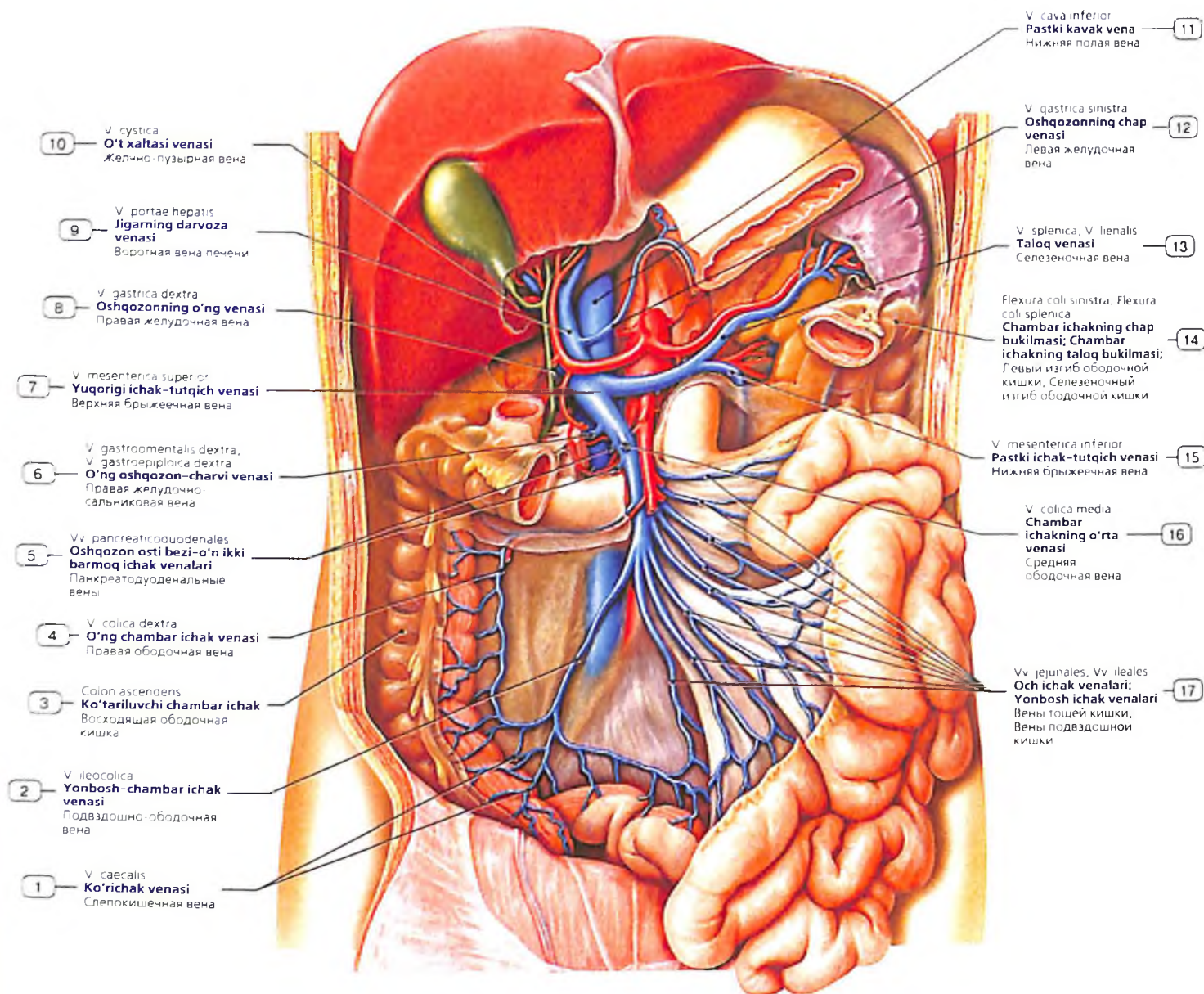
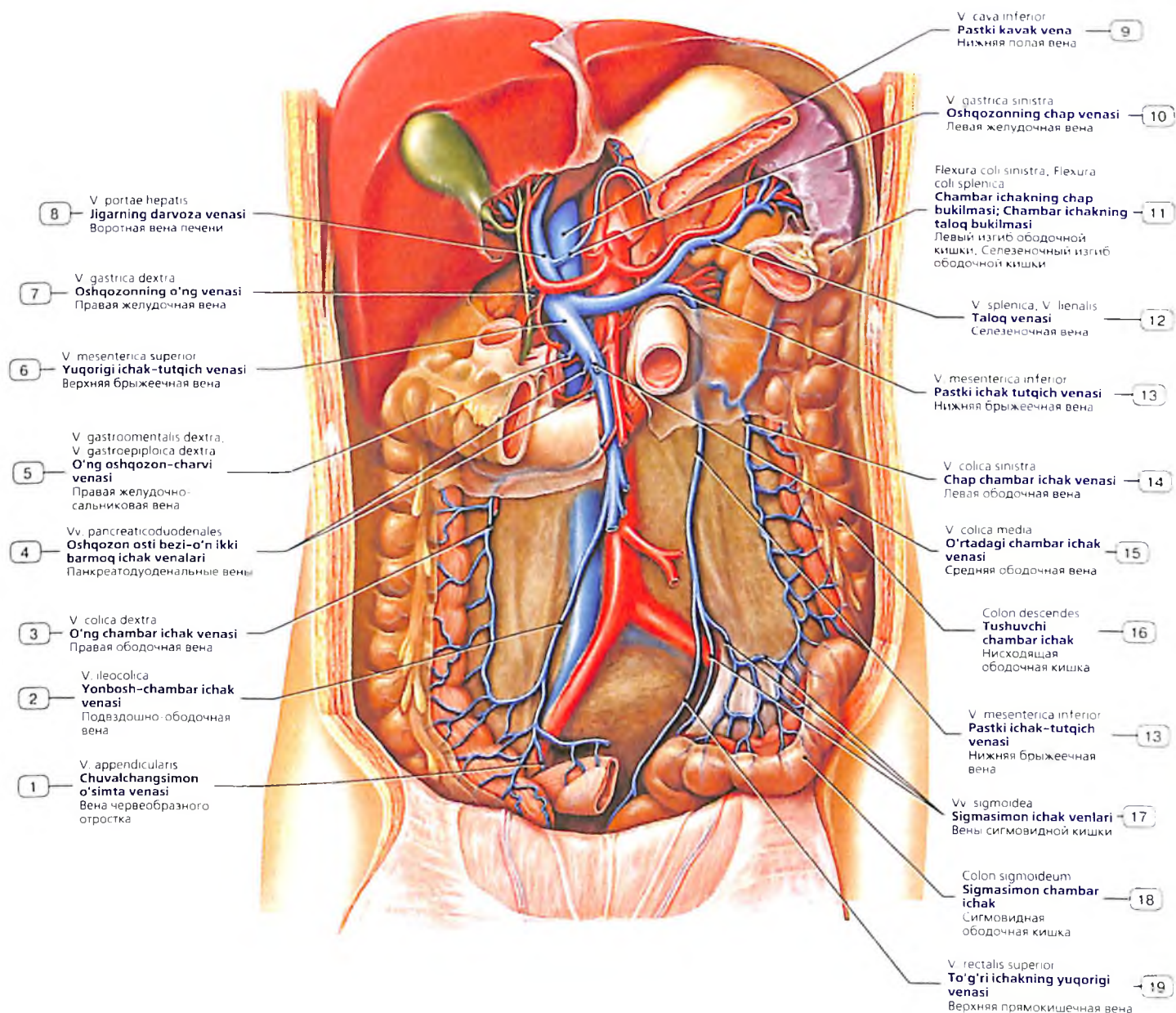


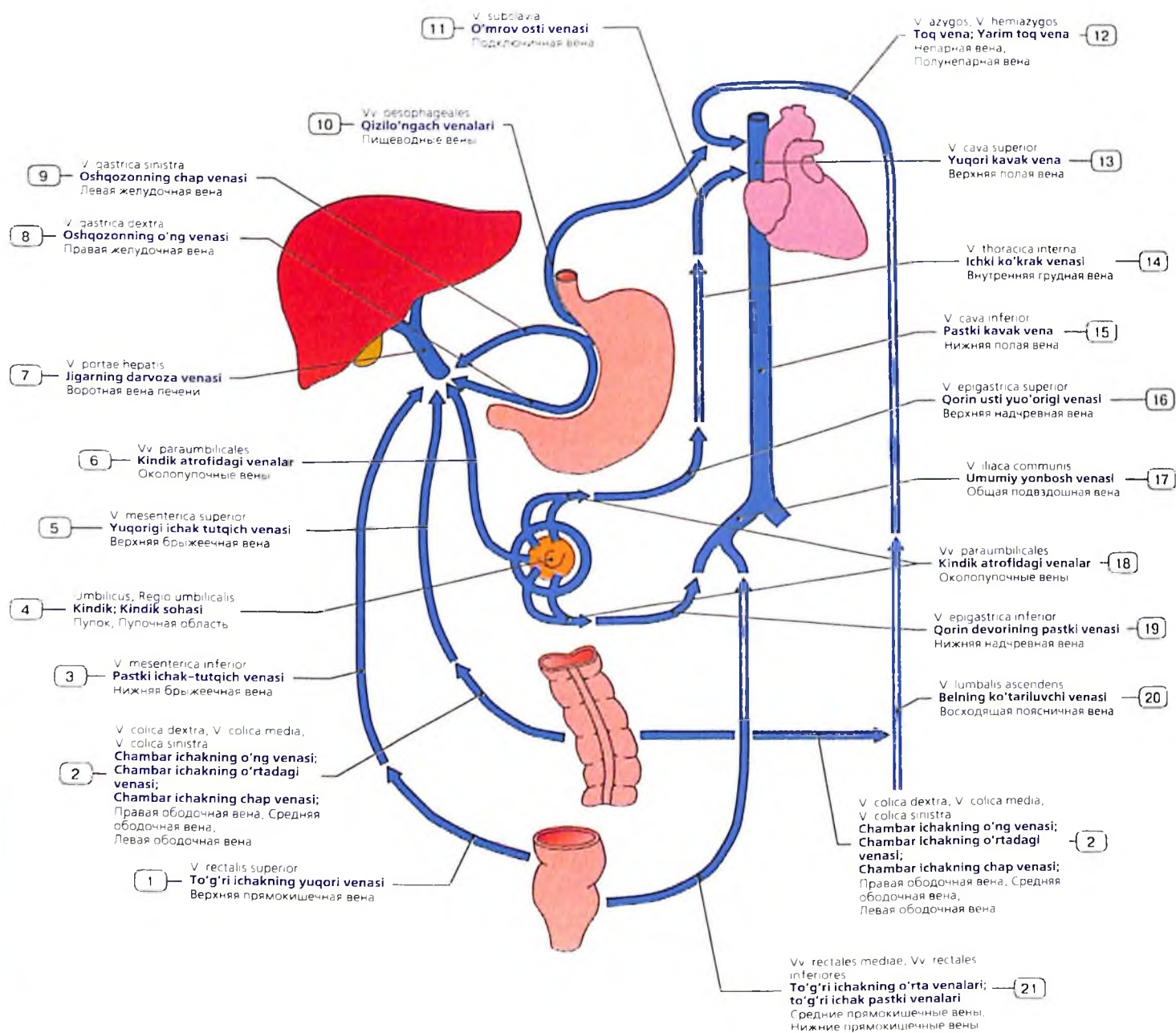
Рис. № 547. Верхняя брыжеечная вена и ее притоки.
Rasm № 547. Yuqorigi ichak tutqich venasi va uning tarmoqlari.
Рисунок № 547. Верхняя брыжеечная вена и ее притоки.

- | | | |
|---|----------------------------|-------------------------------|
| 1 Caecal veins | 7 Superior mesenteric vein | 14 Left colic flexure |
| 2 Ileocolic vein | 8 Right gastric vein | 15 Splenic flexure |
| 3 Ascending colon | 9 Hepatic portal vein | 16 Inferior mesenteric vein |
| 4 Right colic vein | 10 Cystic vein | 17 Middle colic vein |
| 5 Pancreatoduodenal veins | 11 Inferior vena cava | 17 Jejunal veins, ileal veins |
| 6 Right gastroepiploic vein,
Right gastroepiploic vein | 12 Left gastric vein | |
| | 13 Splenic vein | |



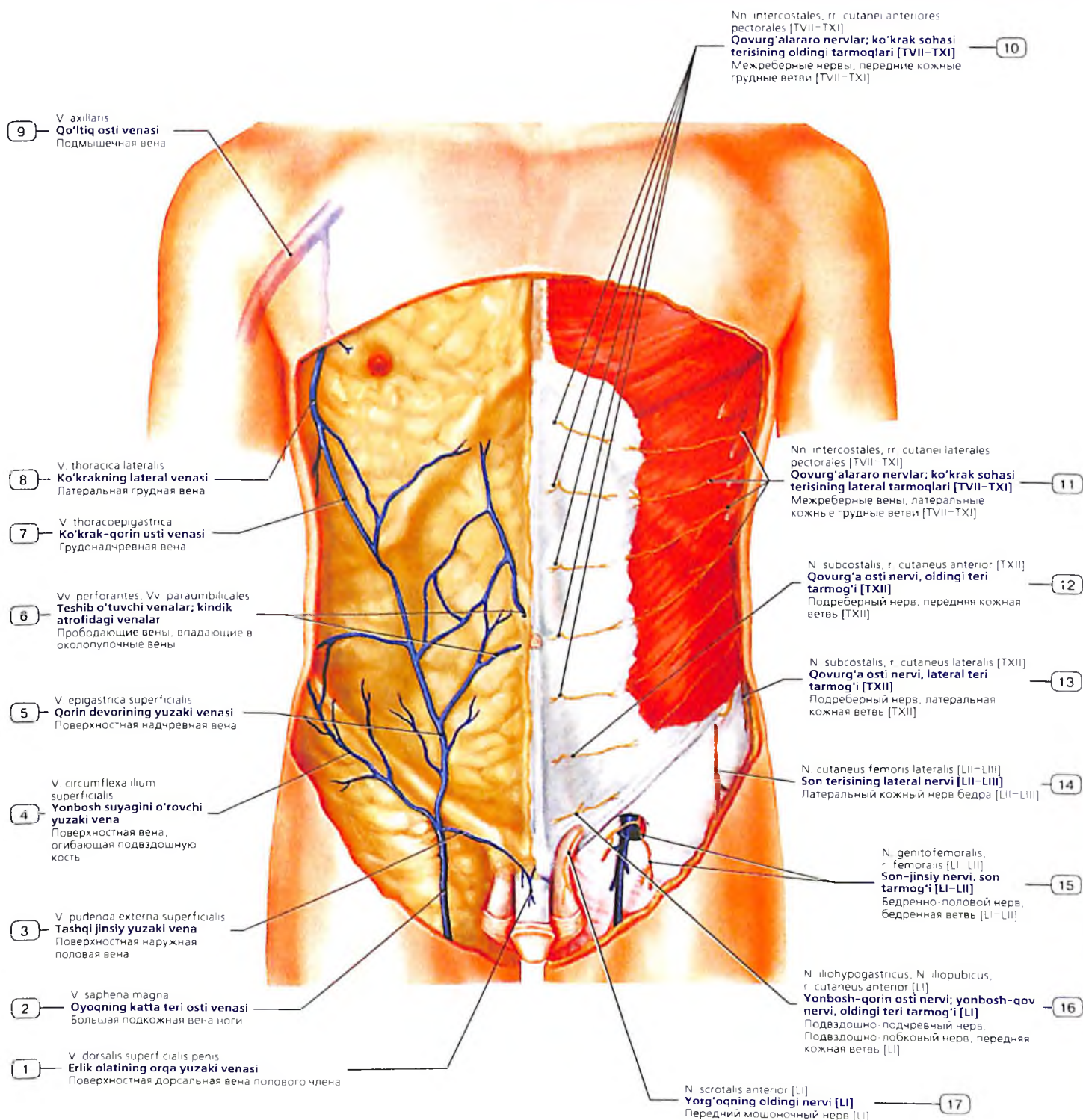
Rasm № 548. Pastki tutqich vena va uning tarmoqlari.
Рисунок № 548. Нижняя брыжеечная вена и ее притоки.

- | | | |
|--|---|-----------------------------|
| 1 Appendicular vein | 7 Right gastric vein | 13 Inferior mesenteric vein |
| 2 Ileocolic vein | 8 Hepatic portal vein | 14 Left colic vein |
| 3 Right colic vein | 9 Inferior vena cava | 15 Middle colic vein |
| 4 Pancreaticoduodenal veins | 10 Left gastric vein | 16 Descending colon |
| 5 Right gastro-omental vein,
Right gastro-epiploic vein | 11 Left colic flexure,
Splenic flexure | 17 Sigmoid veins |
| 6 Superior mesenteric vein | 12 Splenic vein | 18 Sigmoid colon |
| | | 19 Superior rectal vein |



Rasm № 549. Venoz anastomozlar (chizma).
Рисунок № 549. Венозные анастомозы (схема).

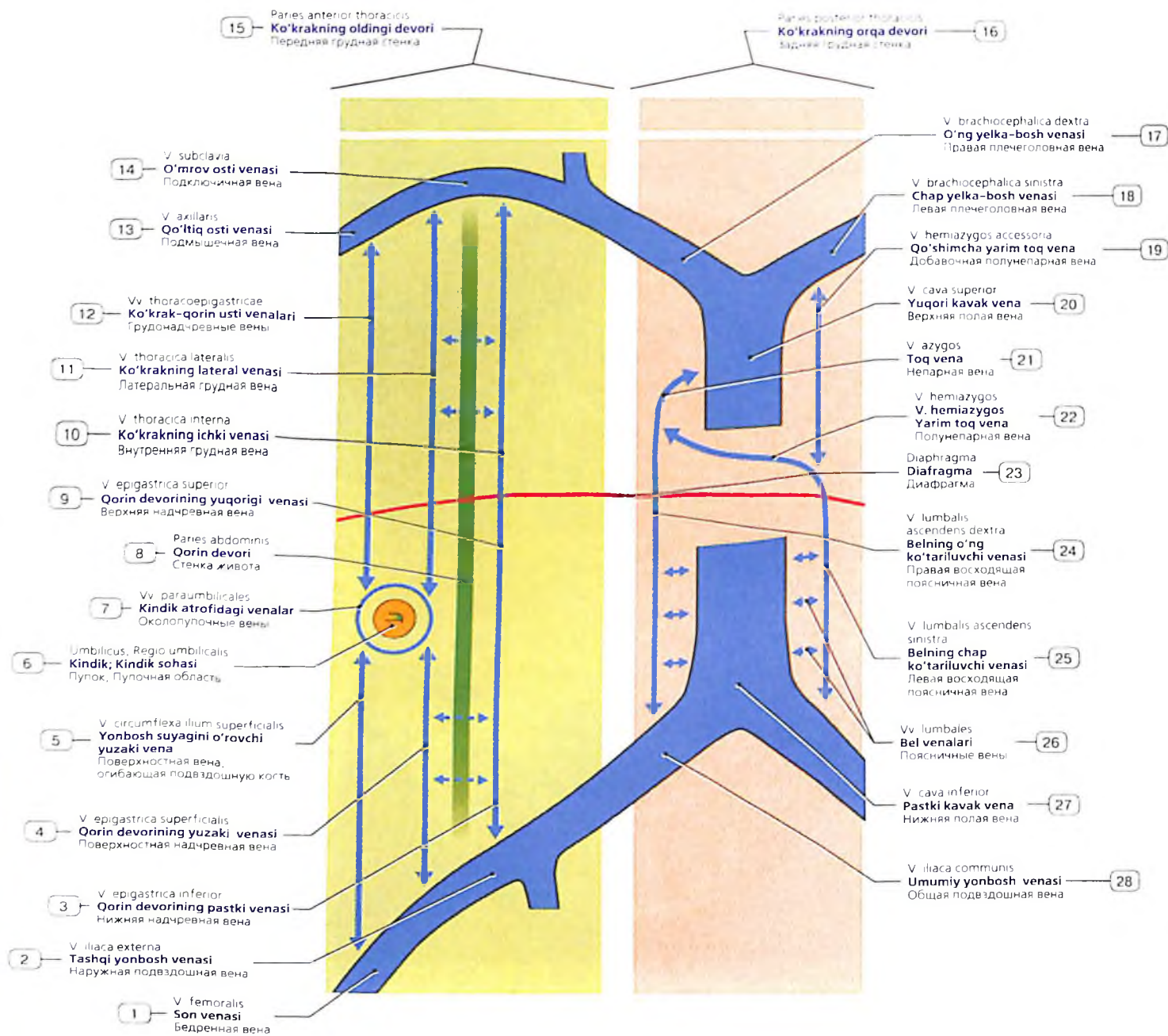
- | | | |
|--|---|--|
| 1 Superior rectal vein | 8 Right gastric vein | 15 Inferior vena cava |
| 2 Right colic vein,
Middle colic vein,
Left colic vein | 9 Left gastric vein | 16 Superior epigastric vein |
| 3 Inferior mesenteric vein | 10 Oesophageal veins | 17 Common iliac vein |
| 4 Umbilical region | 11 Subclavian vein | 18 Paraumbilical veins |
| 5 Superior mesenteric vein | 12 Azygos vein,
Hemi azygos vein,
Inferior hemi azygos vein | 19 Inferior epigastric vein |
| 6 Paraumbilical vein | 13 Superior vena cava | 20 Ascending lumbar vein |
| 7 Hepatic portal vein | 14 Internal thoracic vein | 21 Middle rectal veins,
Inferior rectal veins |



Rasm № 550. Qorin oldingi devori sohasidagi venoz anastomozlar.
Рисунок № 550. Венозные анастомозы в области передней стенки живота.

- 1 Superficial dorsal vein of penis
- 2 Great saphenous vein, Long saphenous vein
- 3 Superficial external pudendal vein
- 4 Superficial circumflex iliac vein
- 5 Superficial epigastric vein
- 6 Perforating veins draining into paraumbilical veins
- 7 Thoraco-epigastric vein
- 8 Lateral thoracic vein
- 9 Axillary vein

- 10 Intercostal nerves, anterior pectoral cutaneous branches [TVII-TXI]
- 11 Intercostal nerves, lateral pectoral cutaneous branches [TVII-TXI]
- 12 Subcostal nerve, anterior cutaneous branches [TXII]
- 13 Subcostal nerve, lateral cutaneous branches [TXII]
- 14 Lateral cutaneous nerve of thigh, Lateral femoral cutaneous nerve [LII-LIII]
- 15 Genitofemoral nerve, femoral branch [LI-LII]
- 16 Iliohypogastric nerve, Iliopubic nerve anterior cutaneous branch [LI]
- 17 Anterior scrotal nerve [LI]



Rasm № 551. Venoz anastomozlar (chizma).
Рисунок № 551. Венозные анастомозы (схема).

1. Femoral vein
2. External iliac vein
3. Inferior epigastric vein
4. Superficial epigastric vein
5. Superficial circumflex iliac vein
6. Umbilical region
7. Para-umbilical veins

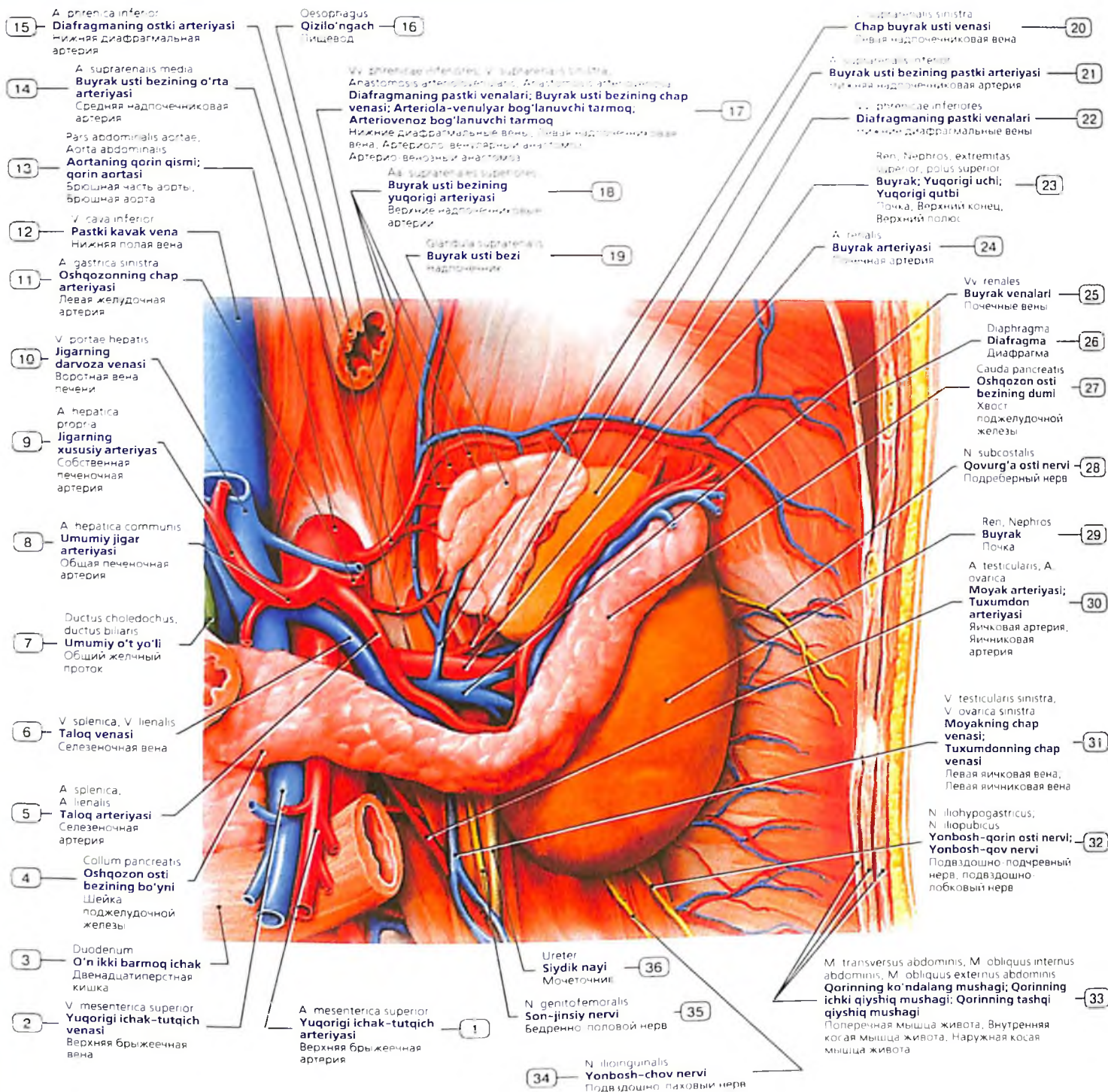
8. Abdominal wall
9. Superior epigastric vein
10. Internal thoracic vein
11. Lateral thoracic vein
12. Thoraco epigastric veins
13. Axillary vein
14. Subclavian vein

15. Anterior wall of trunk
16. Posterior wall of trunk
17. Right brachiocephalic vein
18. Left brachiocephalic vein
19. Accessory hemi-azygos vein
20. Superior vena cava
21. Azygos vein

22. Hemi-azygos vein
23. Diaphragm
24. Right ascending lumbar vein
25. Left ascending lumbar vein
26. Lumbar veins
27. Inferior vena cava
28. Common iliac vein

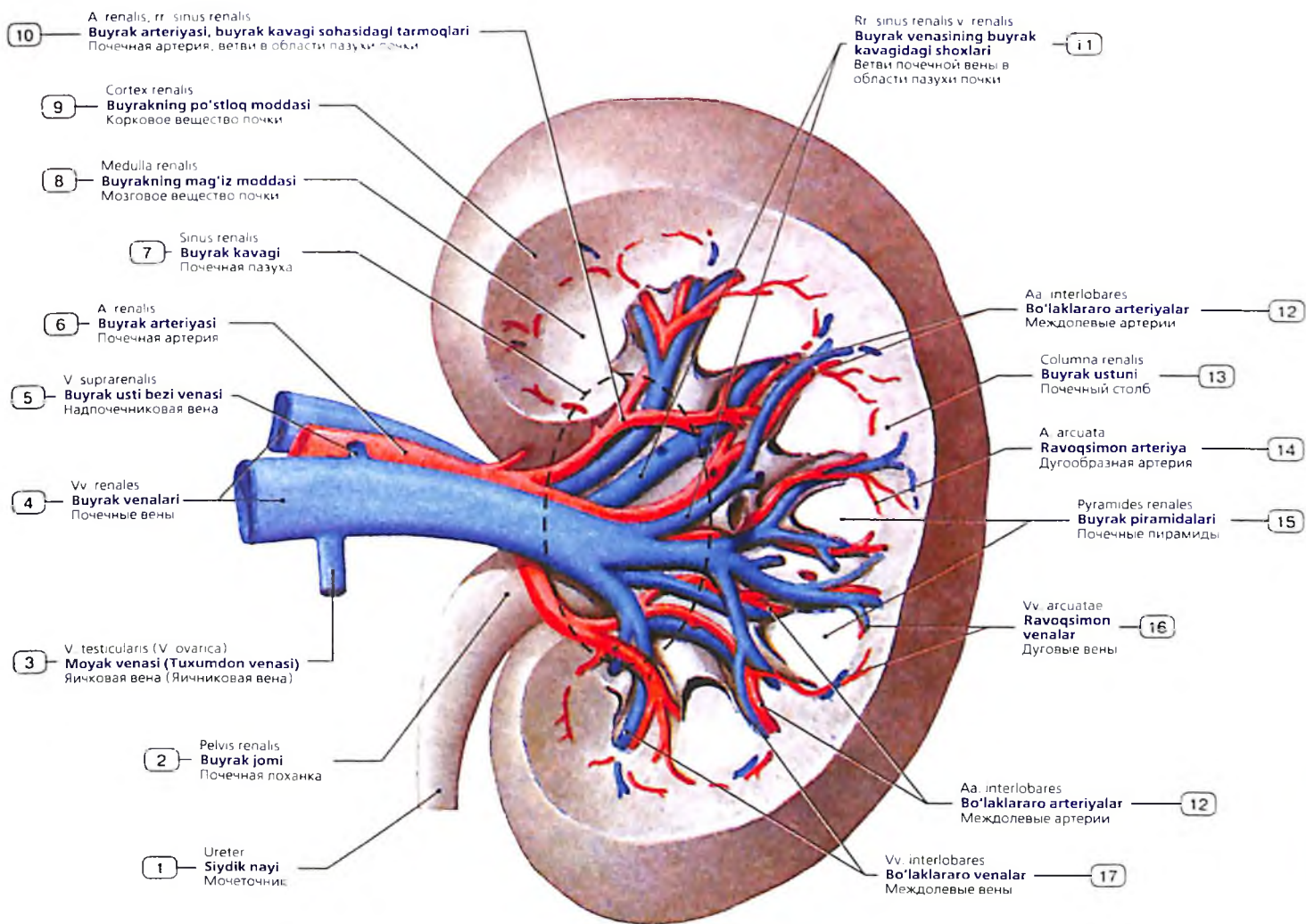
37 — jadval. Yirik venoz anastomozlar

Anastomoz hosil qiluvchi vena tarmoqlari	Yuqori kavak venaning anastomoz hosil qiluvchi tarmoqlari	Pastki kavak venaning anastomoz hosil qiluvchi tarmoqlari	Anastomoz joylashgan soha
Yuqori va pastki kavak venalar	Qorin devorining ustki venasi (ichki ko'krak venasi tarmog'i) va ko'krak qorin usti venasi (qo'ltiq osti venasi tarmog'i) (yuqori kavak vena tizimi)	Qorin devorining pastki venasi (tashqi yonbosh venasi tarmog'i) va qorin devorining yuzaki venasi (son venasi tarmog'i) (pastki kavak vena tizimi)	Qorinning old devori chuqur qatlamida
Yuqori va pastki kavak venalar	Toq va yarim toq venalar, o'ng va chap belning ko'tariluvchi venalari (yuqori kavak vena tizimi)	O'ng va chap bel venalari (pastki kavak vena tizimi)	Qorinning orqa devorida
Yuqori va pastki kavak venalar	Orqa miya venalari (orqa qovurg'alararo venalarining itarmog'i) (yuqori kavak vena tizimi)	Orqa miya venalari (bel venalari tarmog'i) (pastki kavak vena tizimi)	Umurtqa kanali ichida va umurtqa pog'onasi atrofida
Yuqori kavak vena va jigarning darvoza venasi	Qorin devorining ustki arteriyasi (ichki ko'krak venasi tarmog'i) (yuqori kavak vena tizimi)	Kindik atrofida venalar (darvoza venasi tizimi)	Qorinning old devori chuqur qatlamida
Yuqori kavak vena va jigarning darvoza venasi	Qizilo'ngach venalari (toq vena tarmog'i) (yuqori kavak vena tizimi)	Oshqozonning chap venasi (darvoza venasi tizimi)	Oshqozonning kardial qismida
Pastki kavak vena va jigarning darvoza venasi	Qorin devorining pastki venasi (tashqi yonbosh vena tarmog'i) (pastki kavak vena tizimi)	Kindik atrofida venalar (darvoza venasi tizimi)	Qorinning old devori chuqur qatlamida
Pastki kavak vena va jigarning darvoza venasi	To'g'ri ichakning o'rta venasi (ichki yonbosh vena tarmog'i), to'g'ri ichakning pastki venasi (ichki jinsiy vena tarmog'i) (pastki kavak vena tizimi)	To'g'ri ichakning yuqori venasi (pastki tutqich vena tarmog'i) (darvoza venasi tizimi)	To'g'ri ichak devorida



Rasm № 552. Chap buyrak va buyrak usti bezi, oshqozon osti venalari.
Рисунок № 552. Вены почки и надпочечника (левых), поджелудочной железы.

- | | | | |
|------------------------------|---|--|--|
| 1 Superior mesenteric artery | 11 Left gastric artery | 19 Suprarenal gland, Adrenal gland | 29 Kidney |
| 2 Superior mesenteric vein | 12 Inferior vena cava | 20 Left suprarenal vein | 30 Testicular artery, Ovarian artery |
| 3 Duodenum | 13 Abdominal aorta | 21 Inferior suprarenal artery | 31 Left testicular vein, Left ovarian vein |
| 4 Neck of pancreas | 14 Middle suprarenal artery | 22 Inferior phrenic veins | 32 Iliohypogastric nerve, Iliopubic nerve |
| 5 Splenic artery | 15 Inferior phrenic artery | 23 Kidney, superior pole, superior extremity | 33 Transversus abdominis, Transversus abdominalis, Transversus abdominalis, Internal oblique |
| 6 Splenic vein | 16 Oesophagus | 24 Renal artery | 34 Ilioinguinal nerve |
| 7 Bile duct | 17 Inferior phrenic veins, Left suprarenal vein, Arteriovenous anastomosis, Arteriovenous anastomosis | 25 Renal veins | 35 Genitofemoral nerve |
| 8 Common hepatic artery | 18 Superior suprarenal arteries | 26 Diaphragm | 36 Ureter |
| 9 Hepatic artery proper | | 27 Tail of pancreas | |
| 10 Hepatic portal vein | | 28 Subcostal nerve | |

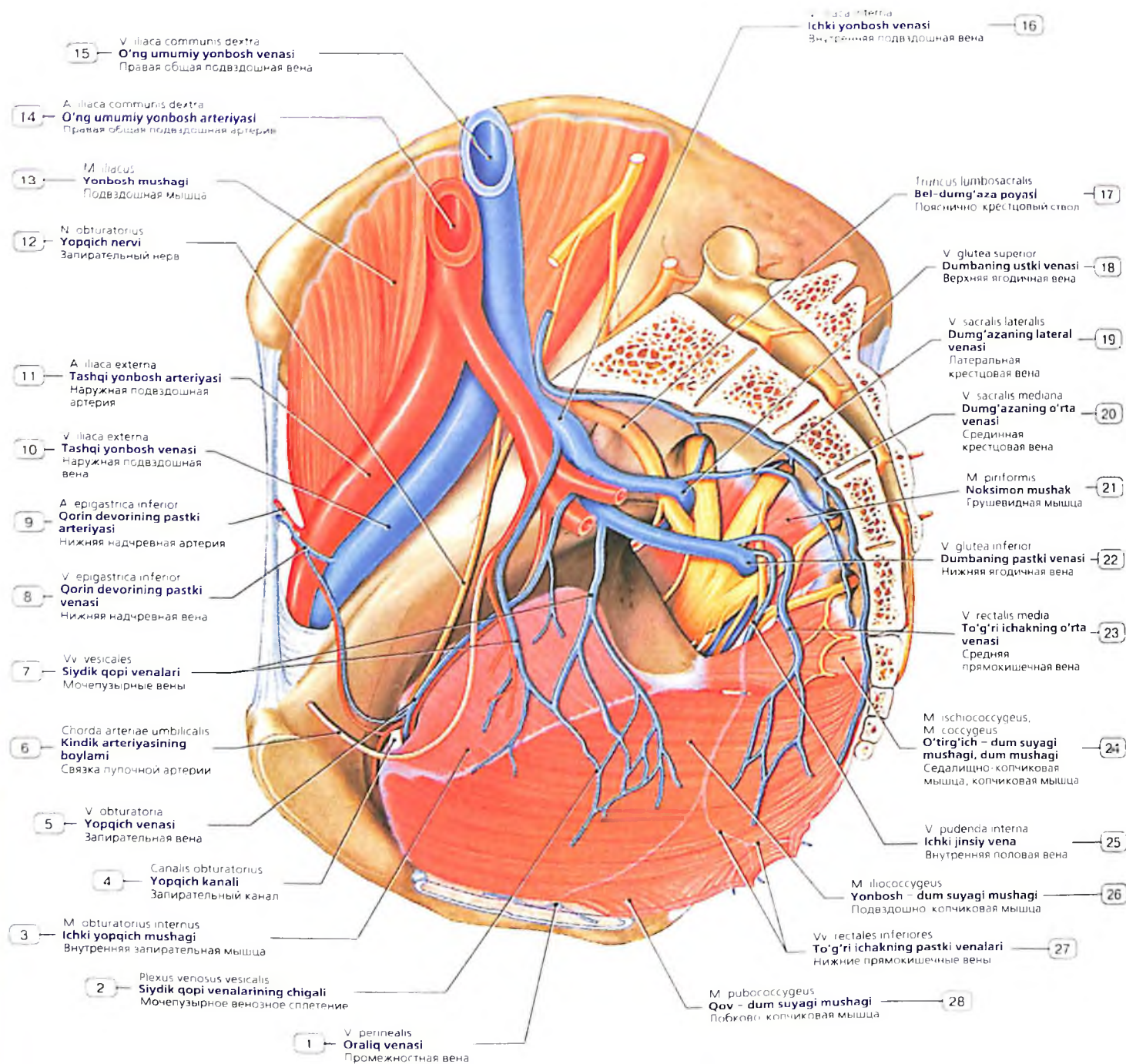


Rasm № 553. Chap buyrak venalari.
Рисунок № 553. Вены почки, левой.

- 1 Ureter
- 2 Renal pelvis
- 3 Testicular vein (Ovarian vein)
- 4 Renal veins
- 5 Suprarenal vein
- 6 Renal artery

- 7 Renal sinus
- 8 Renal medulla
- 9 Renal cortex
- 10 Renal artery, renal sinus of branches
- 11 Renal sinus of branches
- 12 Interlobar arteries

- 13 Renal column
- 14 Arcuate artery
- 15 Renal pyramids
- 16 Arcuate veins
- 17 Interlobar veins



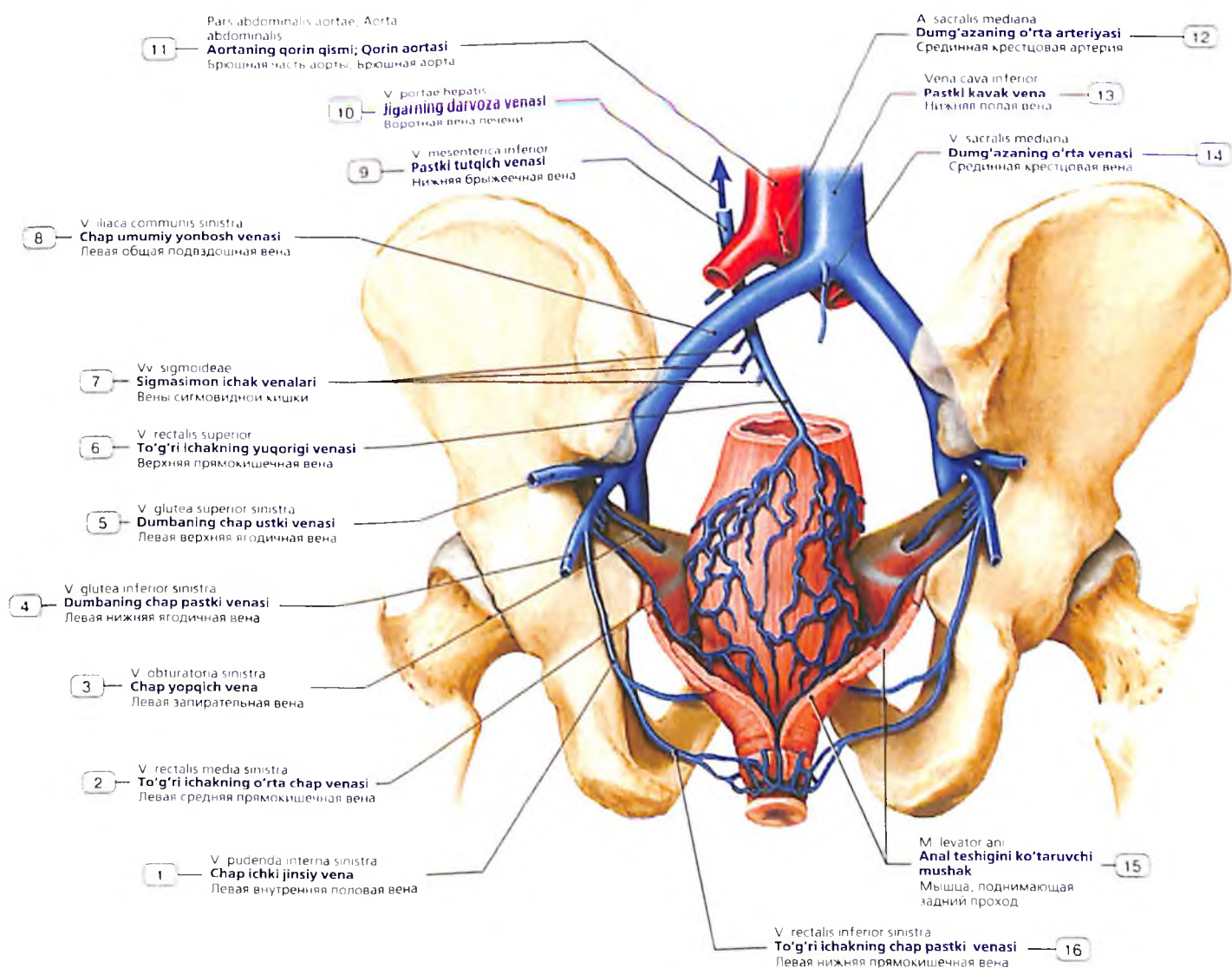
Rasm № 554. Chanoq venalari, chanoq aʼzolari olib tashlangan.
Рисунок № 554. Вены таза, органы таза удалены.

- 1 Perineal vein
- 2 Vesical venous plexus
- 3 Obturator internus
- 4 Obturator canal
- 5 Obturator vein
- 6 Cord of umbilical artery
- 7 Vesical vein

- 8 Inferior epigastric vein
- 9 Inferior epigastric artery
- 10 External iliac vein
- 11 External iliac artery
- 12 Obturator nerve
- 13 Iliacus
- 14 Right common iliac artery

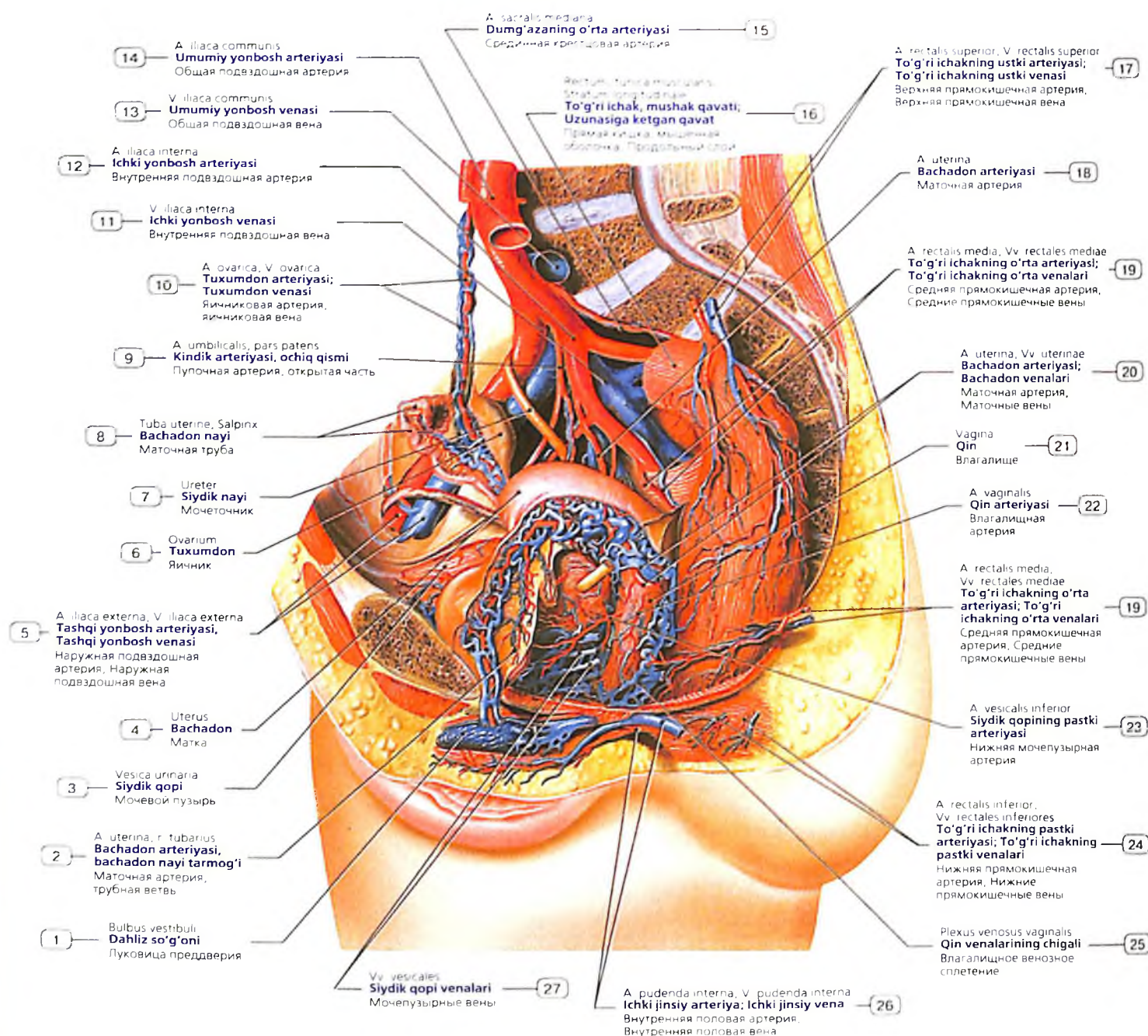
- 15 Right common iliac vein
- 16 Internal iliac vein
- 17 Lumbosacral trunk
- 18 Superior gluteal vein
- 19 Lateral sacral vein
- 20 Median sacral vein
- 21 Piriformis

- 22 Inferior gluteal vein
- 23 Middle rectal vein
- 24 Ischiococcygeus, Coccygeus
- 25 Internal pudendal vein
- 26 Iliococcygeus
- 27 Inferior rectal veins
- 28 Pubococcygeus



Rasm № 555. To'g'ri ichak venoz oqimi (chizma).
Рисунок № 555. Венозный отток от прямой кишки (схема).

- | | |
|-------------------------------|------------------------------|
| 1 Left internal pudendal vein | 9 Inferior mesenteric vein |
| 2 Left middle rectal vein | 10 Hepatic portal vein |
| 3 Left obturator vein | 11 Abdominal aorta |
| 4 Left inferior gluteal veins | 12 Median sacral artery |
| 5 Left superior gluteal vein | 13 Inferior vena cava |
| 6 Superior rectal vein | 14 Median sacral vein |
| 7 Sigmoid veins | 15 Levator ani |
| 8 Left common iliac vein | 16 Left inferior rectal vein |

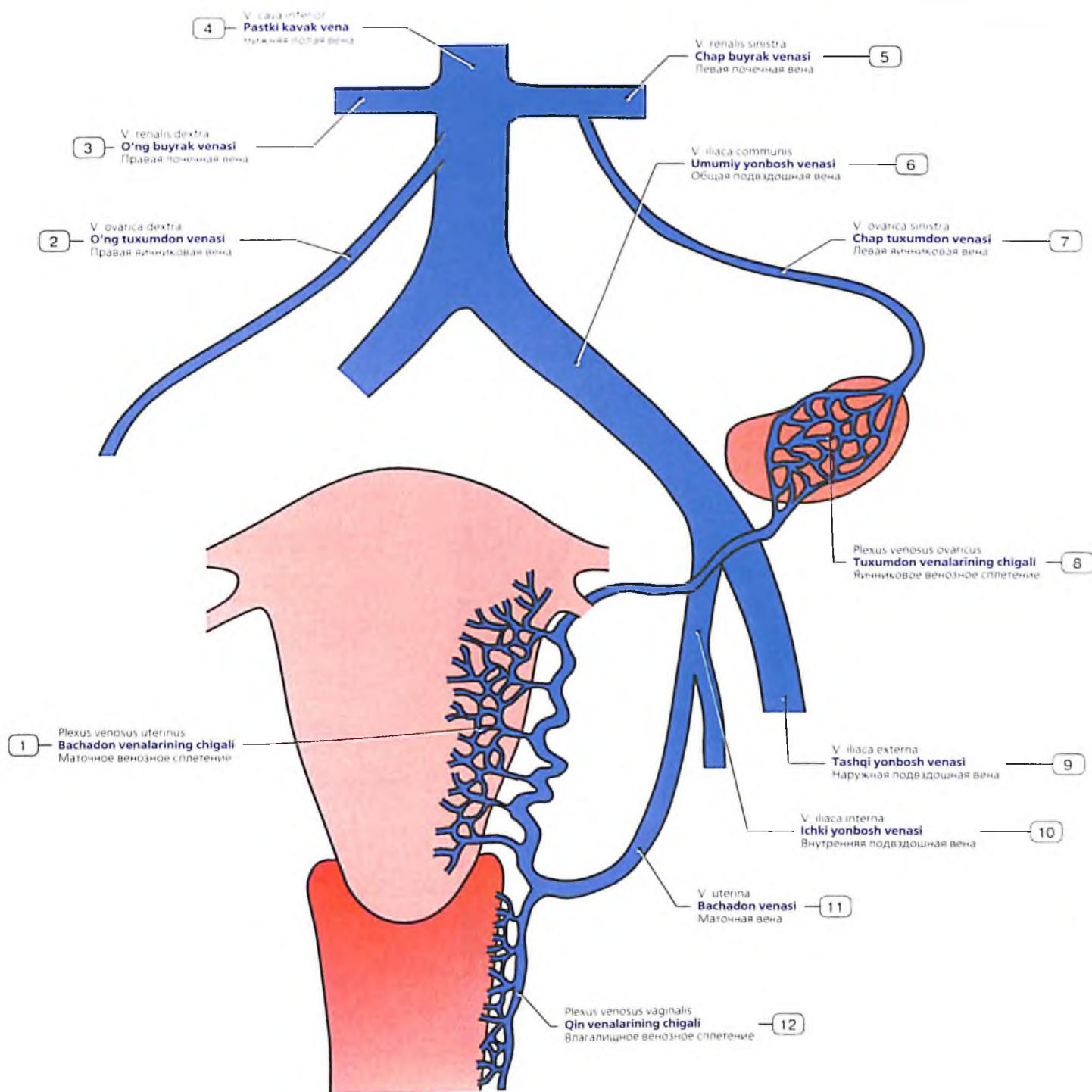


Рисунки № 556. Женские малые тазовые вены.
Рисунок № 556. Вены малого таза женщины.

1. Bulb of vestibule
2. Uterine artery, tubal branch
3. Urinary bladder
4. Uterus
5. External iliac artery, External iliac vein
6. Ovary
7. Ureter
8. Uterine tube
9. Umbilical artery, patent part
10. Ovarian artery, Ovarian vein

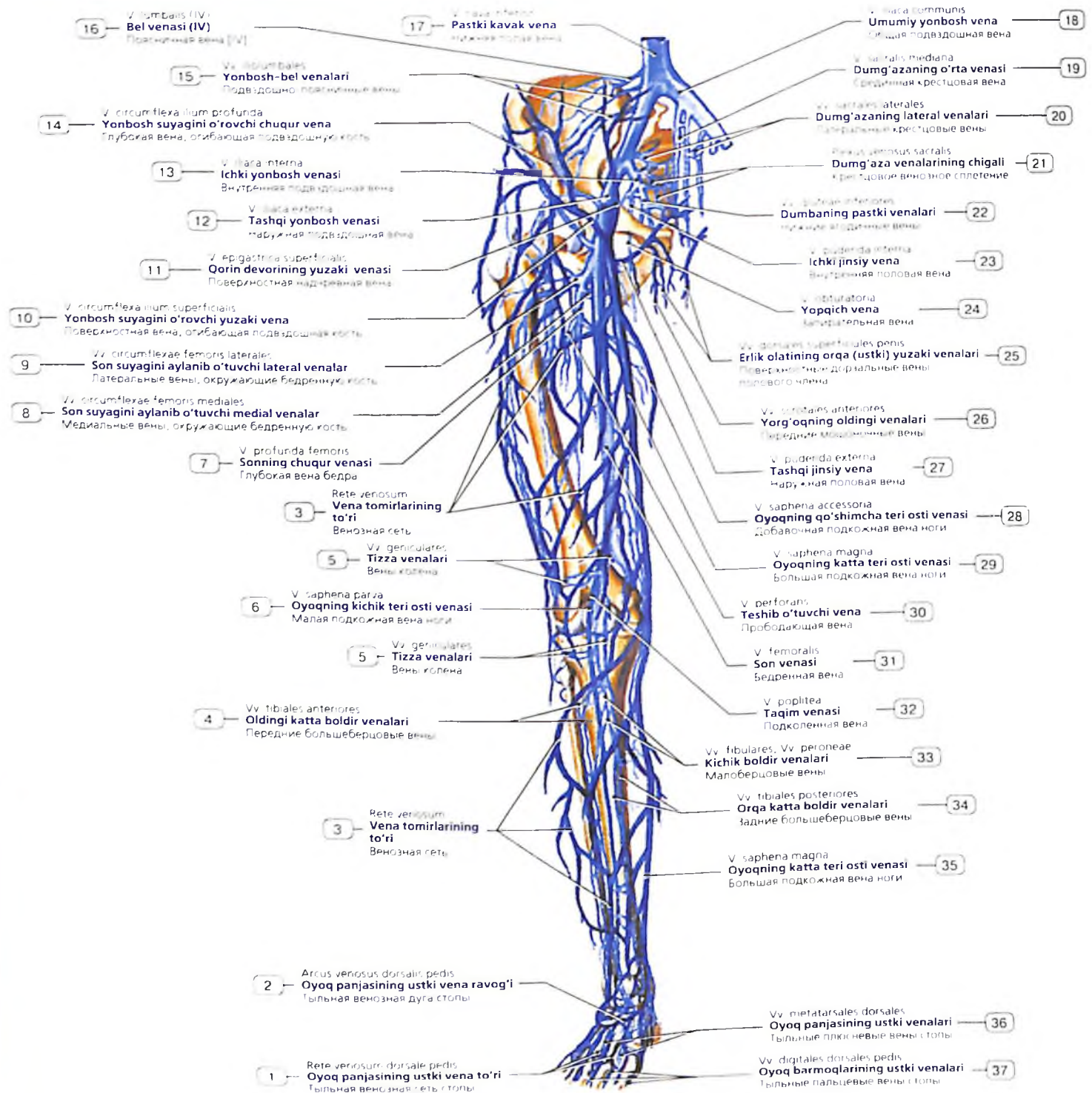
11. Internal iliac vein
12. Internal iliac artery
13. Common iliac vein
14. Common iliac artery
15. Median sacral artery
16. Rectum, muscular layer, longitudinal layer
17. Superior rectal artery, Superior rectal vein
18. Uterine artery
19. Middle rectal artery, Middle rectal veins

20. Uterine artery, Uterine veins
21. Vagina
22. Vaginal artery
23. Inferior vesical artery
24. Inferior rectal artery, inferior rectal veins
25. Vaginal venous plexus
26. Internal pudendal artery, internal pudendal vein
27. Vesical veins



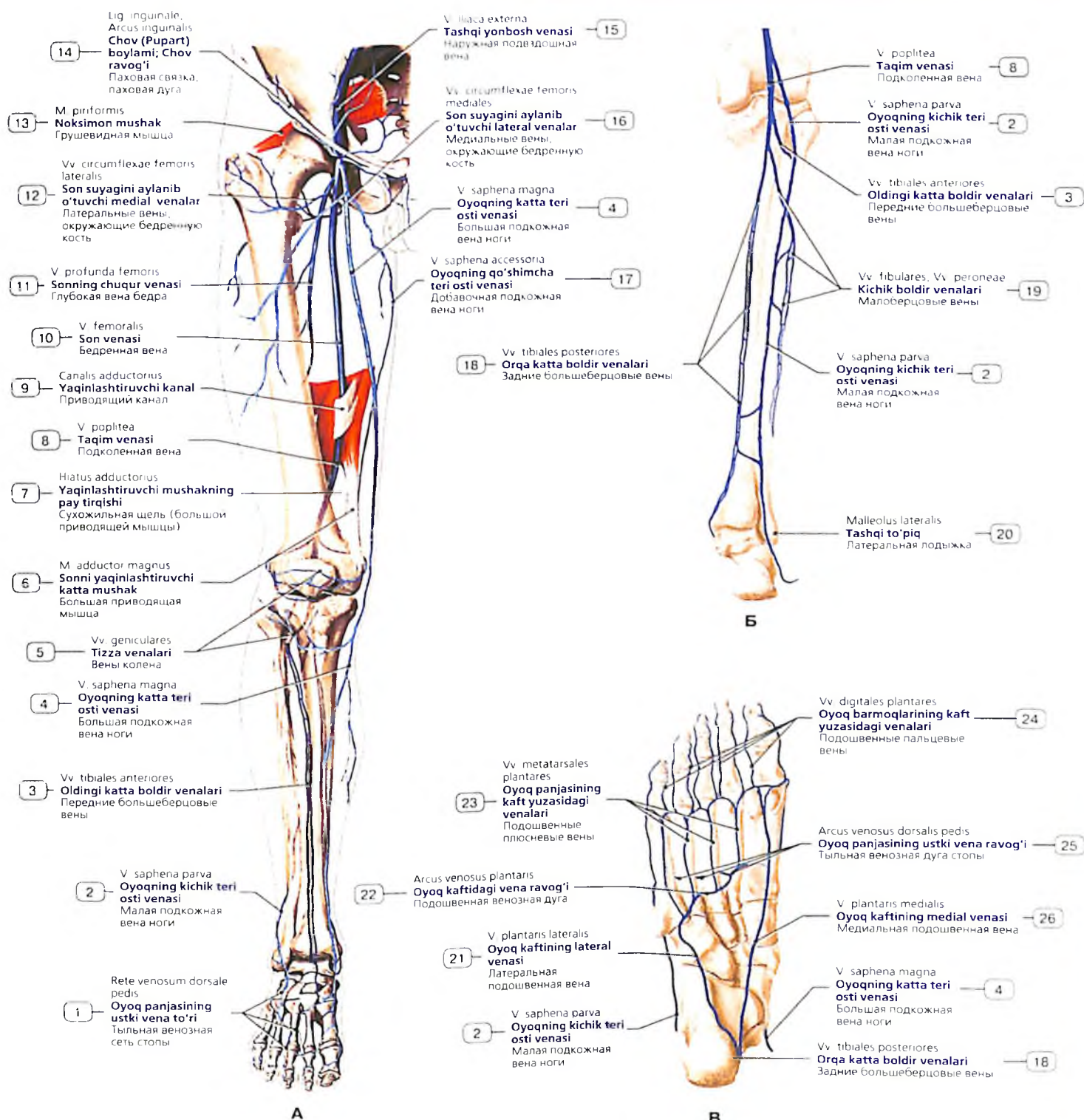
Rasm № 557. Ayollar jinsiy a'zolari venoz oqimi (chizma).
Рисунок № 557. Венозный отток от женских половых органов (схема).

- | | | |
|-------------------------|-------------------------|--------------------------|
| 1 Uterine venous plexus | 5 Left renal vein | 9 External iliac vein |
| 2 Right ovarian vein | 6 Common iliac vein | 10 Internal iliac vein |
| 3 Right renal vein | 7 Left ovarian vein | 11 Uterine vein |
| 4 Inferior vena cava | 8 Ovarian venous plexus | 12 Vaginal venous plexus |



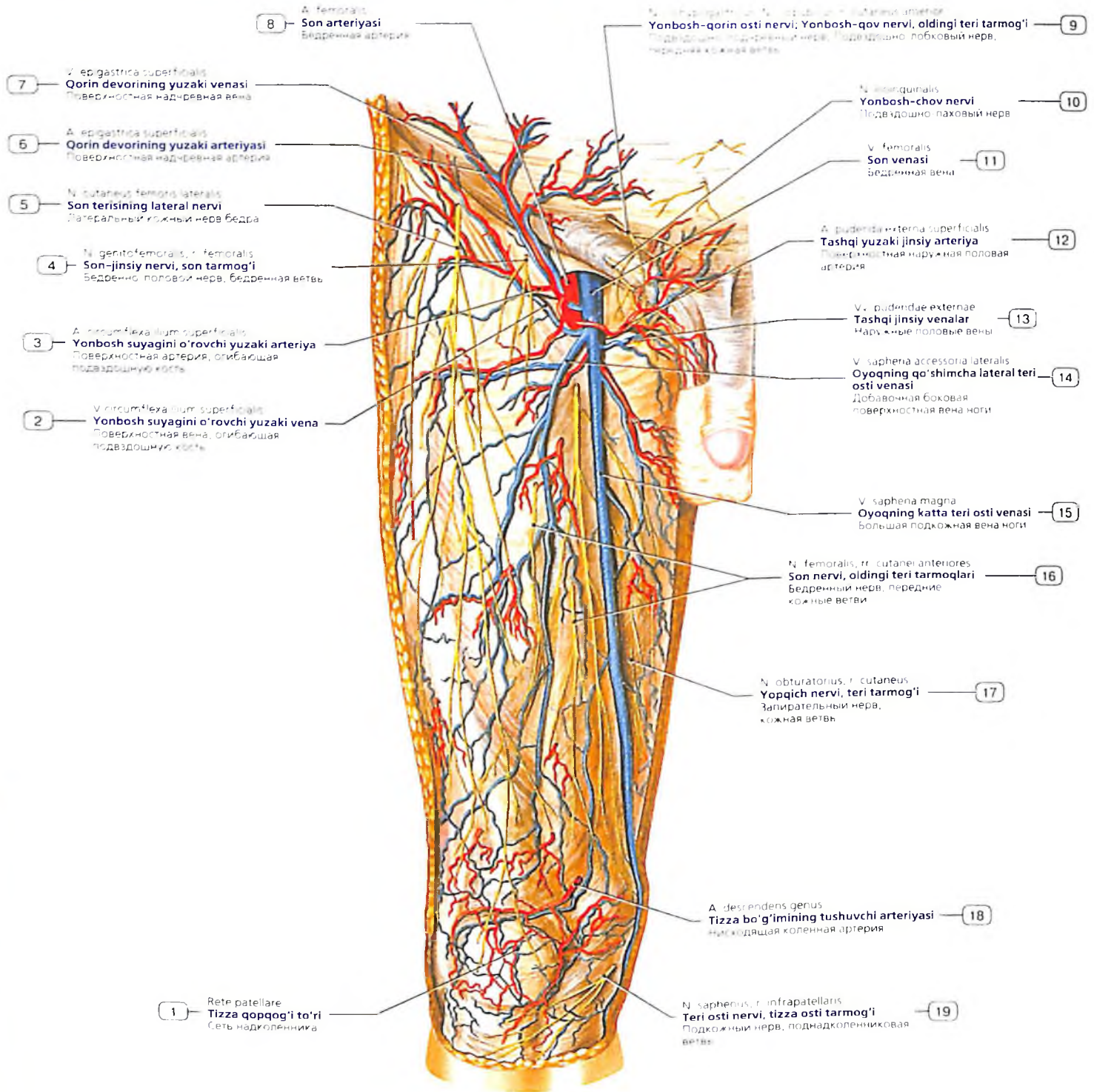
Rasm № 558. Pastki mucha (oyoq) venalari, oldindan ko'rinishi (chizma).
Рисунок № 558. Вены нижней конечности, вид спереди (схема).

- | | | | | |
|---------------------------------|--------------------------------------|-----------------------------|-----------------------------|----------------------------|
| 1 Dorsal venous network of foot | 8 Medial circumflex femoral veins | 17 Inferior vena cava | 26 Anterior scrotal veins | 34 Posterior tibial veins |
| 2 Dorsal venous arch of foot | 9 Lateral circumflex femoral veins | 18 Common iliac vein | 27 External pudendal vein | 35 Great saphenous vein, |
| 3 Venous plexus | 10 Superficial circumflex iliac vein | 19 Median sacral vein | 28 Accessory saphenous vein | Long saphenous vein |
| 4 Anterior tibial veins | 11 Superficial epigastric vein | 20 Lateral sacral veins | 29 Great saphenous vein, | 36 Dorsal metatarsal veins |
| 5 Genicular veins | 12 External iliac vein | 21 Sacral venous plexus | Long saphenous vein | 37 Dorsal digital veins |
| 6 Small saphenous vein, | 13 Internal iliac vein | 22 Inferior gluteal veins | | |
| Short saphenous vein | 14 Deep circumflex iliac vein | 23 Internal pudendal vein | | |
| 7 Profunda femoris vein | 15 Iliolumbar veins | 24 Obturator vein | | |
| | 16 Lumbar vein (IV) | 25 Superficial dorsal veins | | |



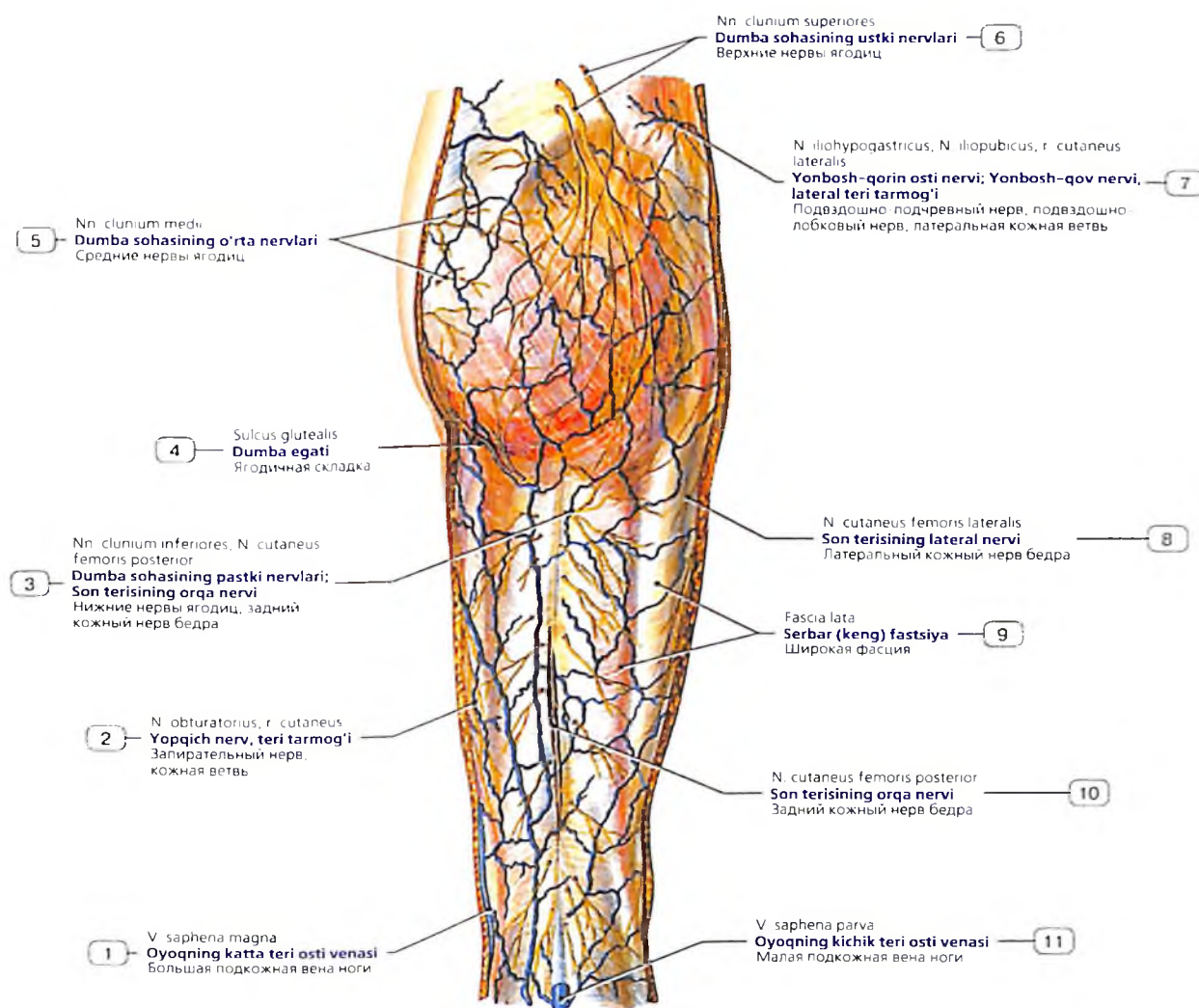
Rasm № 559. Pastki muchaning (oyoq) yuza va chuqur venalari
(A — oldindan ko'rinishi; B — orqadan ko'rinishi; B — oyoq kafti venalari) (chizma).
Рисунок № 559. Поверхностные и глубокие вены нижней конечности
(A — вид спереди; B — вид сзади; B — вены подошвенной стороны стопы) (схемы).

- | | | | | |
|--|-------------------|-------------------------------------|------------------------------------|-------------------------------|
| 1 Dorsal venous network of foot | 5 Genicular veins | 11 Profunda femoris vein | 16 Medial circumflex femoral veins | 21 Lateral plantar vein |
| 2 Small saphenous vein, Short saphenous vein | 6 Adductor magnus | 12 Lateral circumflex femoral veins | 17 Accessory saphenous vein | 22 Plantar venous arch |
| 3 Anterior tibial veins | 7 Adductor hiatus | 13 Piriformis | 18 Posterior tibial veins | 23 Plantar metatarsal veins |
| 4 Great saphenous vein, Long saphenous vein | 8 Popliteal vein | 14 Inguinal ligament | 19 Fibular veins, Peroneal veins | 24 Plantar digital veins |
| | 9 Adductor canal | 15 External iliac vein | 20 Lateral malleolus | 25 Dorsal venous arch of foot |
| | 10 Femoral vein | | | 26 Medial plantar vein |



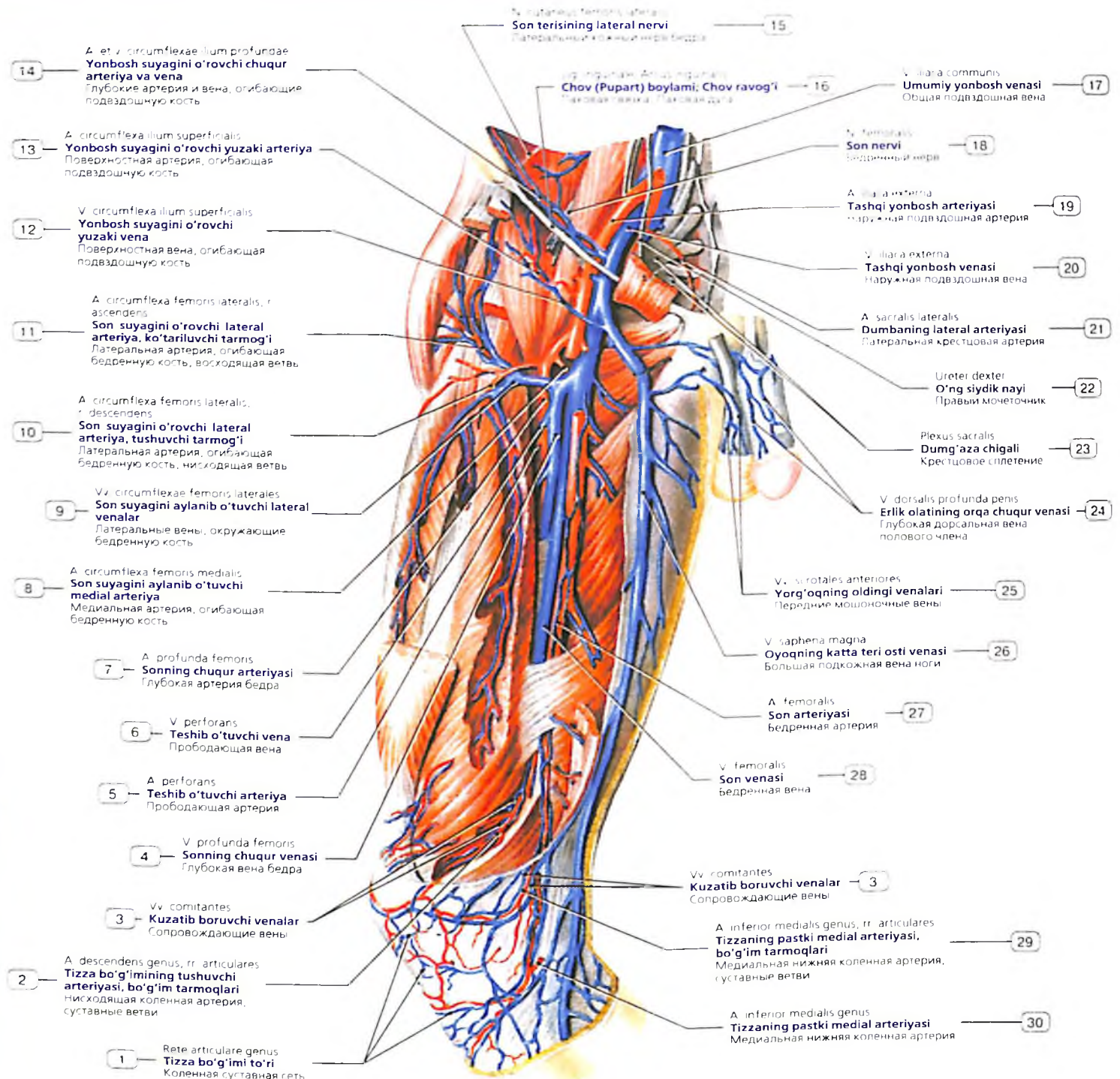
Rasm № 560. Sonning yuza venalari, oldindan ko'rinishi.
Рисунок № 560. Поверхностные вены бедра, вид спереди.

- | | | |
|---------------------------------------|---|---|
| 1 Patellar anastomosis | 7 Superficial epigastric vein | 13 External pudendal veins |
| 2 Superficial circumflex iliac vein | 8 Femoral artery | 14 Accessory saphenous lateral vein |
| 3 Superficial circumflex iliac artery | 9 Iliohypogastric nerve, iliopectineus nerve, anterior cutaneous branch | 15 Great saphenous vein, long saphenous vein |
| 4 Genitofemoral nerve, femoral branch | 10 Ilioinguinal nerve | 16 Femoral nerve, anterior cutaneous branches |
| 5 Lateral cutaneous nerve of thigh | 11 Femoral vein | 17 Obturator nerve, cutaneous branch |
| 6 Lateral femoral circumflex artery | 12 Superficial external pudendal artery | 18 Descending genicular artery |
| | | 19 Saphenous nerve, infrapatellar branch |



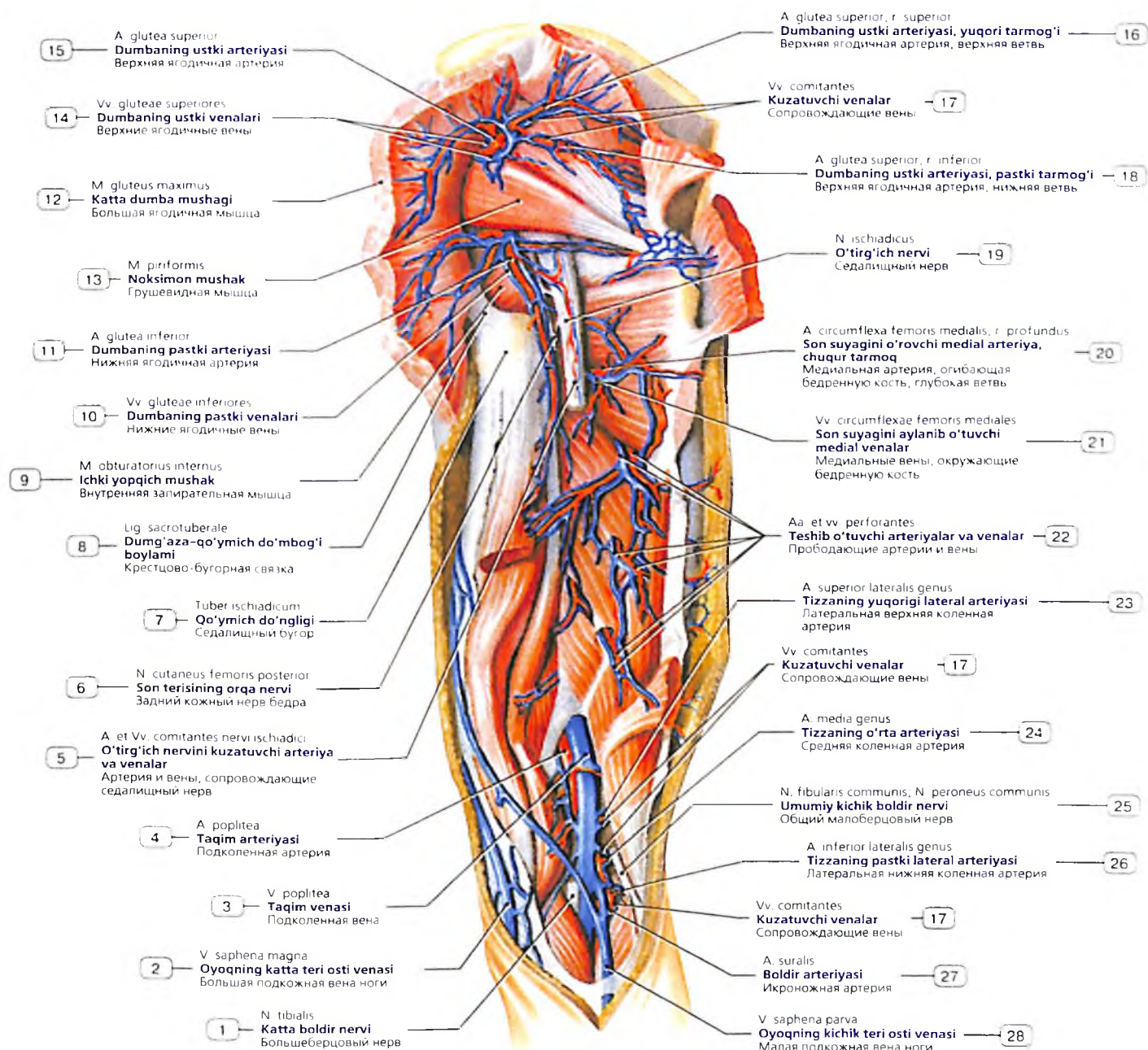
Rasm № 561. Sonning yuza venalari, orqadan koʻrinishi.
Рисунок № 561. Поверхностные вены бедра, вид сзади.

- | | |
|--|---|
| 1 Great saphenous vein,
Long saphenous vein | 7 Iliohypogastric nerve, Iliopubic nerve,
lateral cutaneous branch |
| 2 Obturator nerve, cutaneous branch | 8 Lateral cutaneous nerve of thigh,
Lateral femoral cutaneous nerve |
| 3 Inferior clunial nerves,
Posterior cutaneous nerve of thigh,
Posterior femoral cutaneous nerve | 9 Fascia lata |
| 4 Gluteal fold | 10 Posterior cutaneous nerve of thigh,
Posterior femoral cutaneous nerve |
| 5 Medial clunial nerves | 11 Small saphenous vein,
Short saphenous vein |
| 6 Superior clunial nerve | |



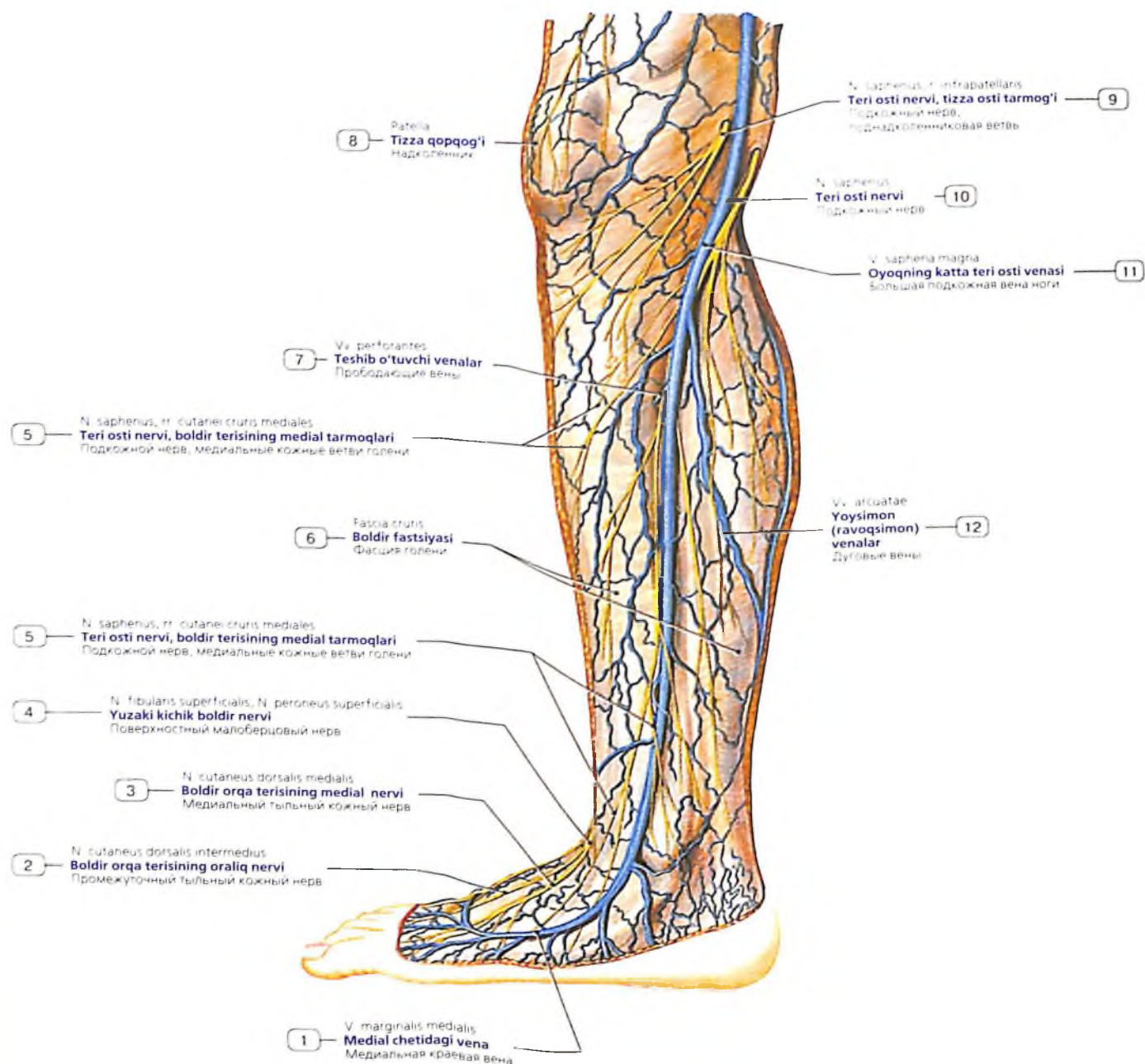
Рисунки № 562. Глубокие вены бедра, вид с медиальной стороны.

- | | | | |
|---|--|------------------------------|---|
| 1 Genicular anastomosis | 9 Lateral circumflex femoral veins | 16 Inguinal ligament | 26 Great saphenous vein, Long saphenous vein |
| 2 Descending genicular artery, articular branches | 10 Lateral circumflex femoral artery, descending branch | 17 Common iliac vein | 27 Femoral artery |
| 3 Veins comitantes | 11 Lateral circumflex femoral artery, ascending branch | 18 Femoral nerve | 28 Femoral vein |
| 4 Profunda femoris vein, Deep vein of thigh | 12 Superficial circumflex iliac vein | 19 External iliac artery | 29 Inferior medial genicular artery, articular branches |
| 5 Perforating artery | 13 Superficial circumflex iliac artery | 20 External iliac vein | 30 Inferior medial genicular artery |
| 6 Perforating vein | 14 Deep circumflex iliac artery and vein | 21 Lateral sacral artery | |
| 7 Deep artery of thigh | 15 Lateral cutaneous nerve of thigh, lateral femoral cutaneous nerve | 22 Right ureter | |
| 8 Medial circumflex femoral artery | | 23 Sacral plexus | |
| | | 24 Deep dorsal vein of penis | |
| | | 25 Anterior scrotal veins | |



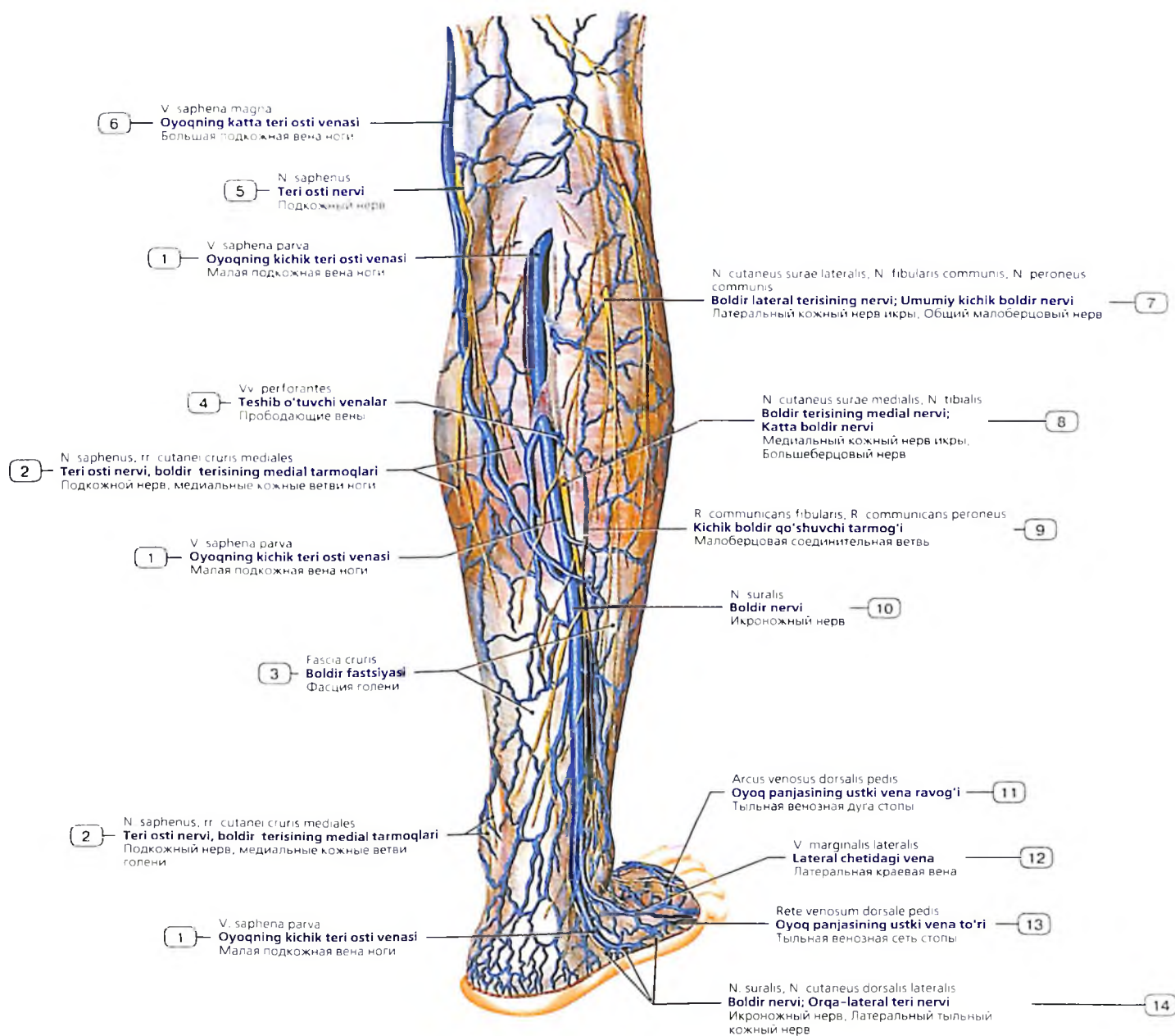
Rasm № 563. Sonning chuqur venalari, orqadan ko'rinishi.
Рисунок № 563. Глубокие вены бедра, вид сзади.

- | | | |
|--|---|--|
| 1 Tibial nerve | 10 Inferior gluteal veins | 20 Medial circumflex femoral artery, deep branch |
| 2 Great saphenous vein | 11 Inferior gluteal artery | 21 Medial circumflex femoral veins |
| 3 Popliteal vein | 12 Gluteus maximus | 22 Perforating artery and veins |
| 4 Popliteal artery | 13 Piriformis | 23 Superior lateral genicular artery |
| 5 Artery et Vein comitans to sciatic nerve | 14 Superior gluteal veins | 24 Middle genicular artery |
| 6 Posterior cutaneous nerve of thigh,
Posterior femoral cutaneous nerve | 15 Superior gluteal artery | 25 Common fibular nerve, Common peroneal nerve |
| 7 Ischial tuberosity | 16 Superior gluteal artery, superior branch | 26 Inferior lateral genicular artery |
| 8 Sacrotuberous ligament | 17 Veins comitans | 27 Sural artery |
| 9 Obturator internus | 18 Superior gluteal artery, inferior branch | 28 Small saphenous vein, Short saphenous vein |
| | 19 Sciatic nerve | |



Rasm № 564. Boldir va oyoq panjasi yuza venalari, medial tomondan ko'rinishi.
Рисунок № 564. Поверхностные вены голени и стопы, вид с медиальной стороны.

- | | |
|---|---|
| 1 Medial marginal vein | 6 Deep fascia of leg |
| 2 Intermediate dorsal cutaneous nerve | 7 Perforating veins |
| 3 Medial dorsal cutaneous nerve | 8 Patella |
| 4 Superficial fibular nerve,
Superficial peroneal nerve | 9 Saphenous nerve, infrapatellar branch |
| 5 Saphenous nerve, medial cutaneous
nerve of leg, medial crural cutaneous
nerve | 10 Saphenous nerve |
| | 11 Great saphenous vein,
Long saphenous vein |
| | 12 Arcuate veins |

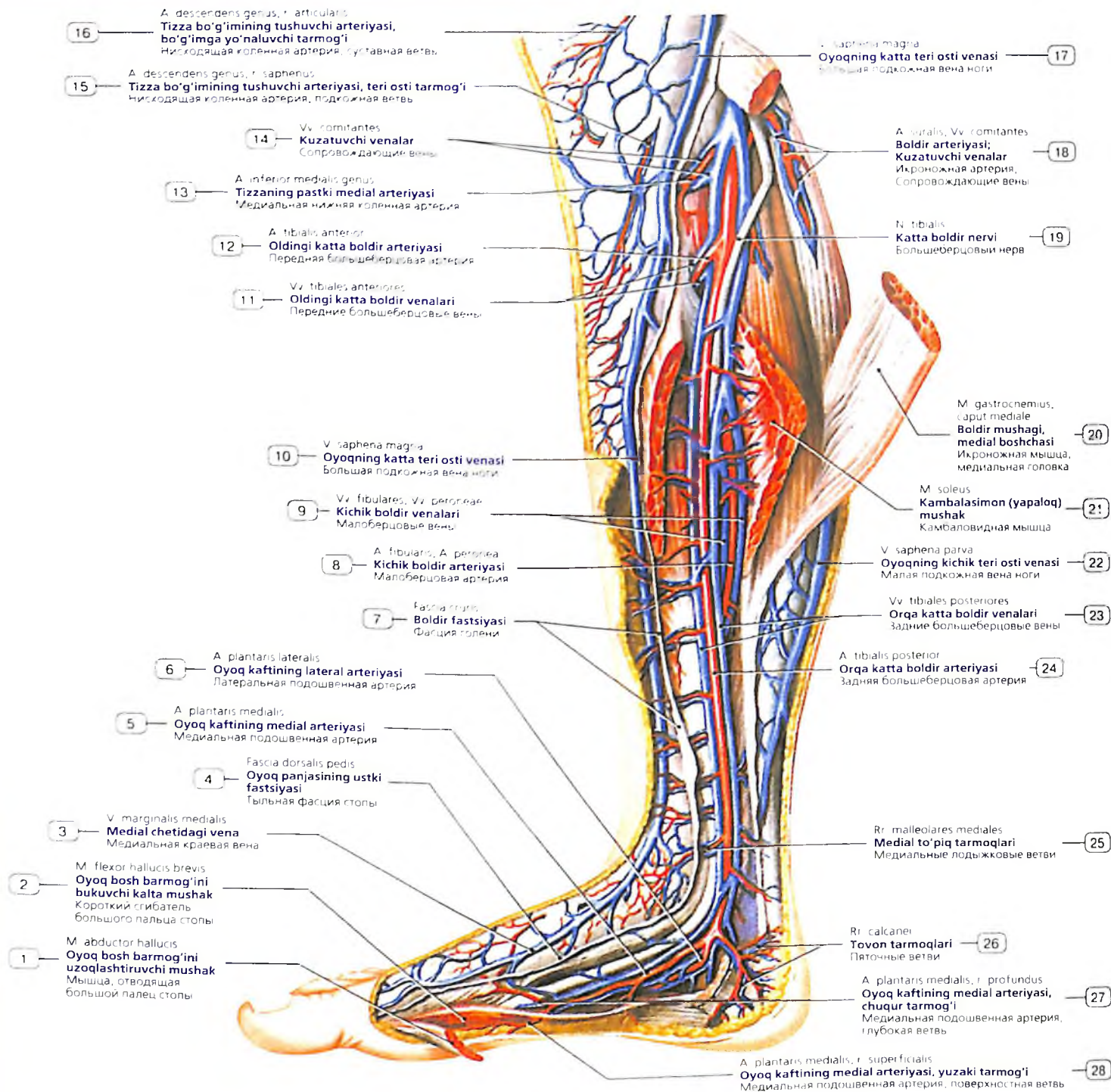


Rasm № 565. Boldir va oyoq panjasi yuza venalari, orqadan ko`rinishi.
Рисунок № 565. Поверхностные вены голени и стопы, вид сзади.

- 1 Small saphenous vein, Short saphenous vein
- 2 Saphenous nerve, medial cutaneous nerve of leg, medial crural cutaneous nerve
- 3 Deep fascia of leg
- 4 Perforating veins
- 5 Saphenous nerve

- 6 Great saphenous vein, Long saphenous vein
- 7 Lateral sural cutaneous nerve, Common fibular nerve, Common peroneal nerve
- 8 Medial sural cutaneous nerve, Tibial nerve
- 9 Sural communicating branch
- 10 Sural nerve

- 11 Dorsal venous arch of foot
- 12 Lateral marginal vein
- 13 Dorsal venous network of foot
- 14 Sural nerve, Lateral dorsal cutaneous nerve

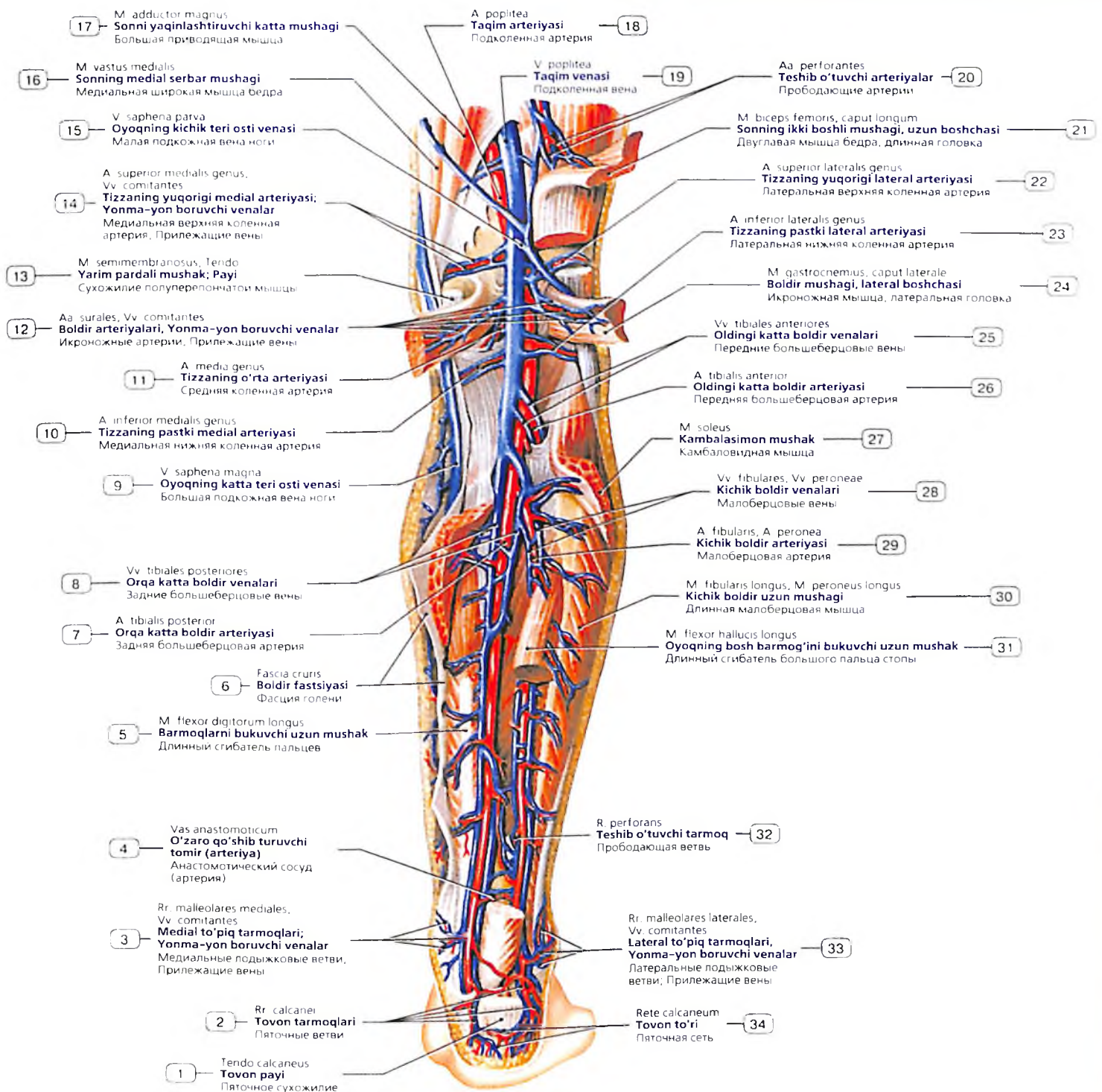


Rasm № 566. Boldirning chuqur venalari, medial tomondan ko'rinishi.
Рисунок № 566. Глубокие вены голени, вид с медиальной стороны.

- 1 Abductor hallucis
- 2 Flexor hallucis brevis
- 3 Medial marginal vein
- 4 Dorsal fascia of foot
- 5 Medial plantar artery
- 6 Lateral plantar artery
- 7 Deep fascia of leg
- 8 Fibular artery, Peroneal artery
- 9 Fibular vein, Peroneal vein
- 10 Great saphenous vein, Long saphenous vein

- 11 Anterior tibial veins
- 12 Anterior tibial artery
- 13 Inferior medial genicular artery
- 14 Veins comitantes
- 15 Descending genicular artery, saphenous branch
- 16 Descending genicular artery, articular branch
- 17 Great saphenous vein, Long saphenous vein
- 18 Sural artery, Veins comitantes
- 19 Tibial nerve
- 20 Gastrocnemius medial head

- 21 Soleus
- 22 Small saphenous vein, Short saphenous vein
- 23 Posterior tibial veins
- 24 Posterior tibial artery
- 25 Medial malleolar branches
- 26 Calcaneal branches
- 27 Medial plantar artery, deep branch
- 28 Medial plantar artery, superficial branch



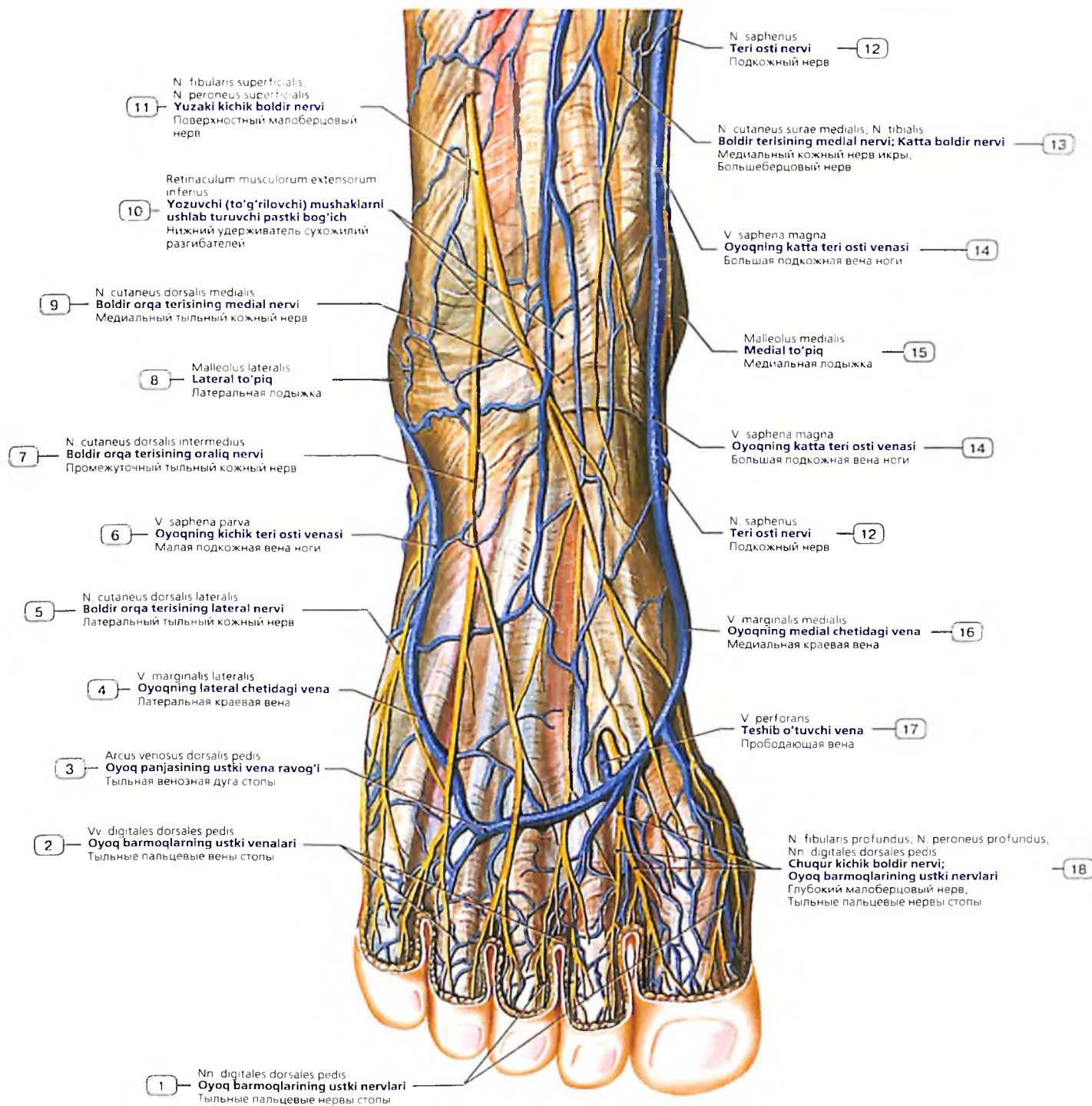
Rasm № 567. Boldirning chuqur venalari, orqadan ko'rinishi.
Рисунок № 567. Глубокие вены голени, вид сзади.

- | | | | | |
|---|--|--|---|--|
| 1 Calcaneal tendon | 9 Great saphenous vein,
Long saphenous vein | 15 Small saphenous vein;
Short saphenous vein | 22 Superior lateral genicular
artery | 30 Fibularis longus,
Peroneus longus |
| 2 Calcaneal branches | 10 Inferior medial genicular artery | 16 Vastus medialis | 23 Inferior lateral genicular artery | 31 Flexor hallucis longus |
| 3 Medial malleolar branches,
Vein comitans | 11 Middle genicular artery | 17 Adductor magnus | 24 Gastrocnemius, lateral head | 32 Perforating branch |
| 4 Anastomotic vessel | 12 Sural arteries, Veins comitans | 18 Popliteal artery | 25 Anterior tibial veins | 33 Lateral malleolar branch,
Veins comitans |
| 5 Flexor digitorum longus | 13 Semimembranosus, Tendon | 19 Popliteal vein | 26 Anterior tibial artery | 34 Calcaneal anastomosis |
| 6 Deep fascia of leg | 14 Superior medial genicular
artery, Veins comitans | 20 Perforating arteries | 27 Soleus | |
| 7 Posterior tibial artery | | 21 Biceps femoris, long head | 28 Fibular veins, Peroneal veins | |
| 8 Posterior tibial veins | | | 29 Fibular artery, Peroneal artery | |



Rasm № 568. Oyoq kafti venalari.
Рисунок № 568. Вены подошвы стопы.

- | | | | |
|---|-----------------------------|---|--|
| 1. Plantar digital arteries proper, Plantar digital veins | 7. Medial plantar artery | 14. Abductor digiti minimi | 21. Plantar metatarsal arteries |
| 2. Common plantar digital arteries | 8. Posterior tibial veins | 15. Lateral plantar artery | 22. Adductor hallucis, transverse head |
| 3. Plantar venous arch | 9. Posterior tibial artery | 16. Quadratus plantae, Flexor accessorius | 23. Flexor digitorum, Tendon |
| 4. Abductor hallucis | 10. Calcaneal branches | 17. Lateral marginal vein | 24. Fibrous sheaths of toes |
| 5. Medial plantar artery, deep branch | 11. Calcaneal anastomosis | 18. Adductor hallucis, oblique head | |
| 6. Medial plantar artery, superficial branch | 12. Plantar aponeurosis | 19. Deep plantar arch | |
| | 13. Flexor digitorum brevis | 20. Plantar metatarsal veins | |



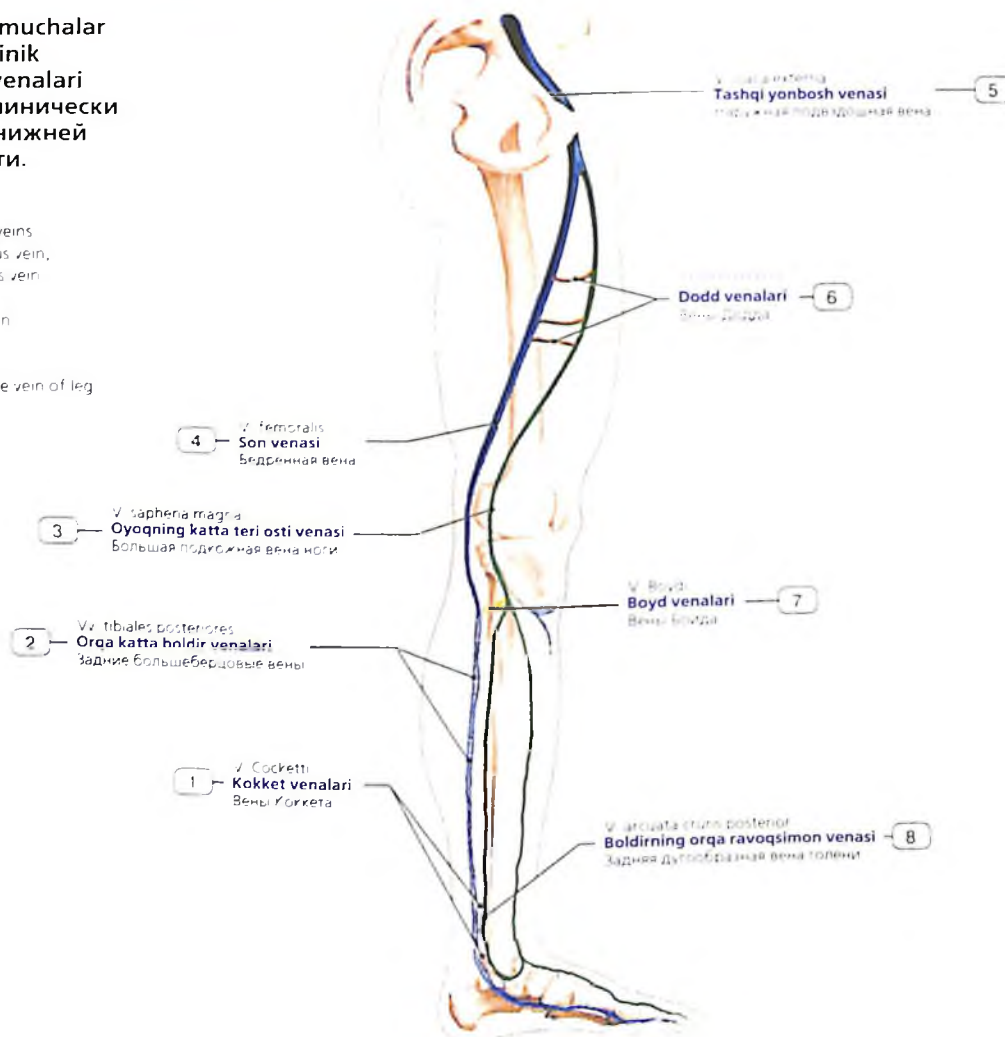
Rasm №569. Oyoq panjasi orqa yuzasi venalari.
Рисунок № 569. Вены тыла стопы.

- 1 Dorsal digital nerves of foot
- 2 Dorsal digital veins of foot
- 3 Dorsal venous arch of foot
- 4 Lateral marginal vein
- 5 Lateral dorsal cutaneous nerve
- 6 Small saphenous vein, Short saphenous vein
- 7 Intermediate dorsal cutaneous nerve
- 8 Lateral malleolus
- 9 Medial dorsal cutaneous nerve
- 10 Inferior extensor retinaculum

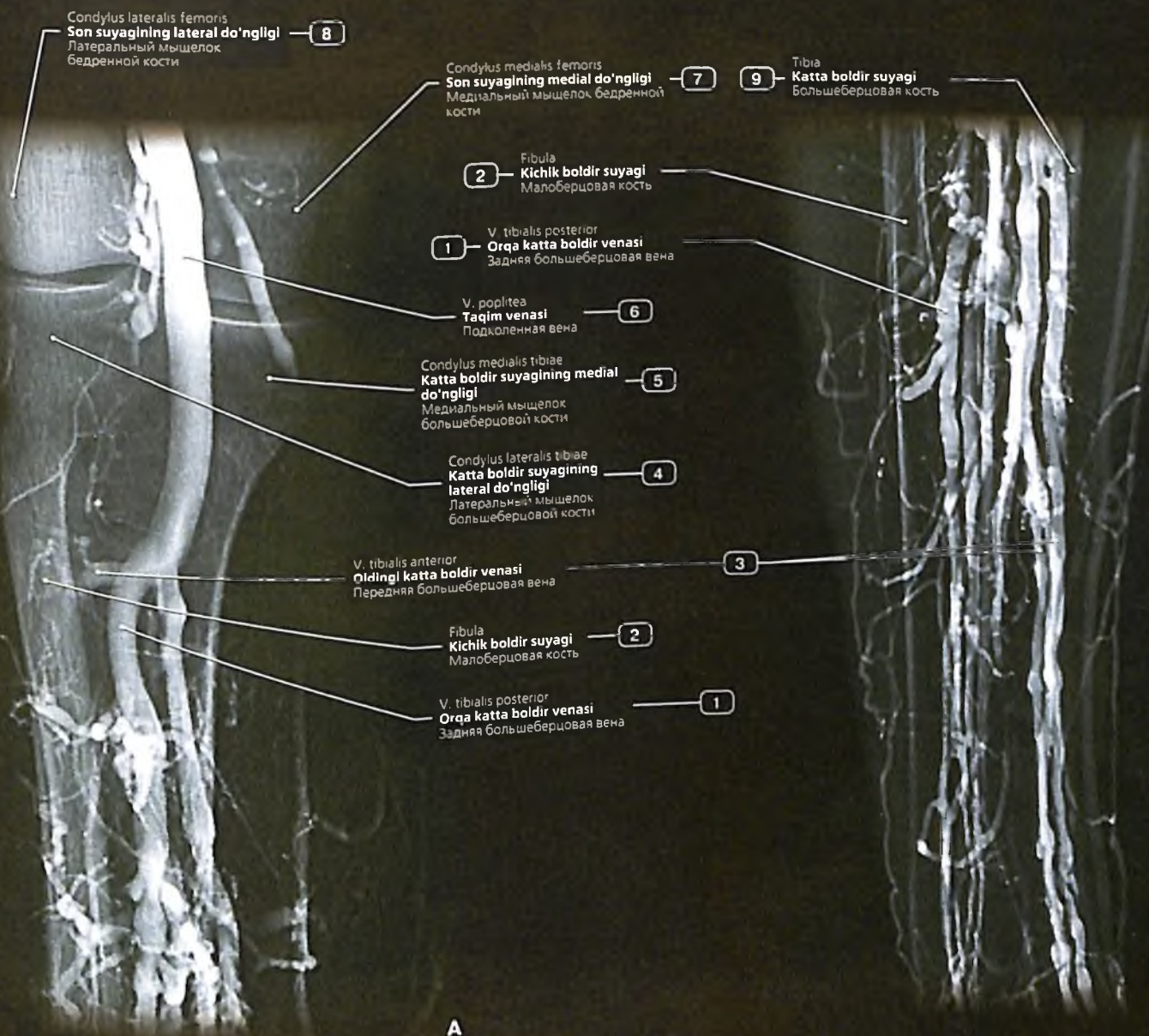
- 11 Superficial fibular nerve, Superficial peroneal nerve
- 12 Saphenous nerve
- 13 Medial sural cutaneous nerve, Tibial nerve
- 14 Great saphenous vein, Long saphenous vein
- 15 Medial malleolus
- 16 Medial marginal vein
- 17 Perforating vein
- 18 Deep fibular nerve, Deep peroneal nerve, Dorsal digital nerves of foot

Rasm №570. Pastki muchalar
(oyoq) ning klinik
ahamiyatga ega venalari
Рисунок №570. Клинически
важные вены нижней
конечности.

- 1 Cockett veins
- 2 Posterior tibial veins
- 3 Great saphenous vein,
Long saphenous vein
- 4 Femoral vein
- 5 External iliac vein
- 6 Dodd veins
- 7 Boyd veins
- 8 Posterior arcuate vein of leg



Rasm №571 Pastki mucha (oyoq) venalarining varikoz kengayishi (chizma).
Рисунок №571. Варикозное расширение вен нижней конечности (схема).

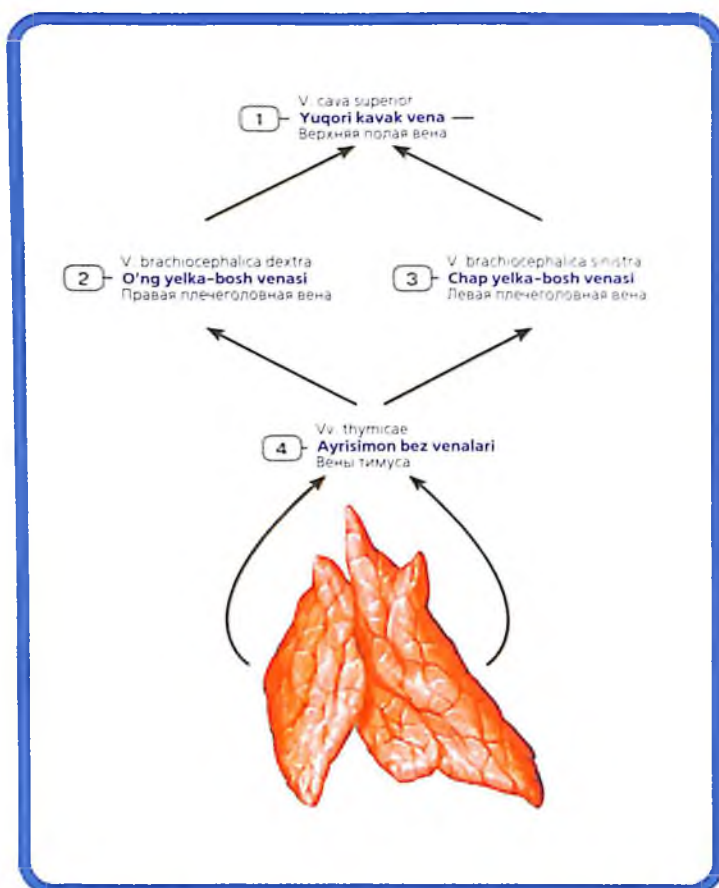


Rasm №572. Pastki muchalar (oyoq) ning yuqoriga ko'tariluvchi flebogrammasi
(A — boldirning proksimal yarmi; B — boldirning distal yarmi).
Рисунок №572. Восходящая флебограмма нижних конечностей
(А — проксимальная половина голени; Б — дистальная половина голени).

- 1 Posterior tibial vein
- 2 Fibula
- 3 Anterior tibial vein

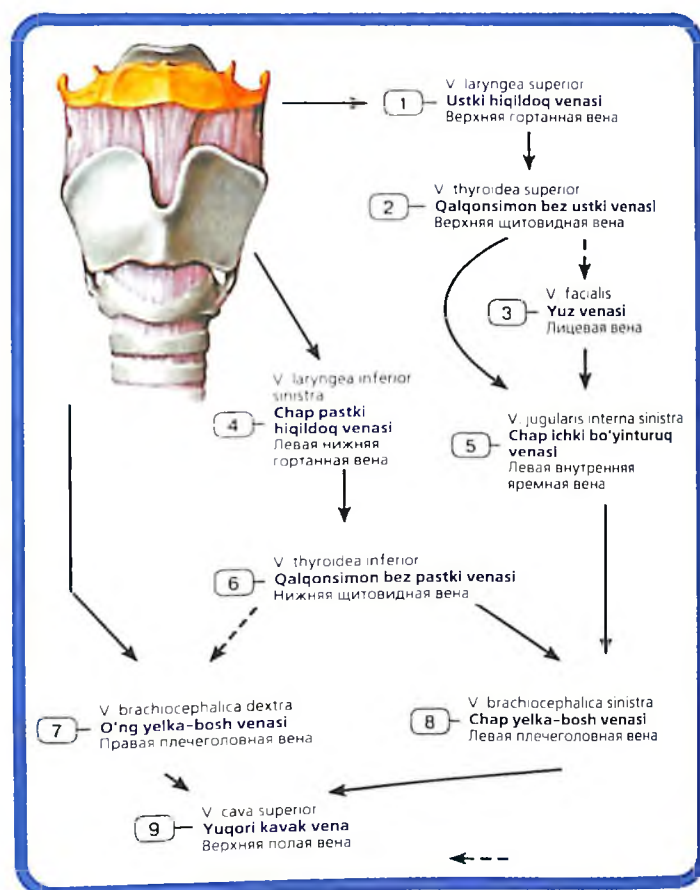
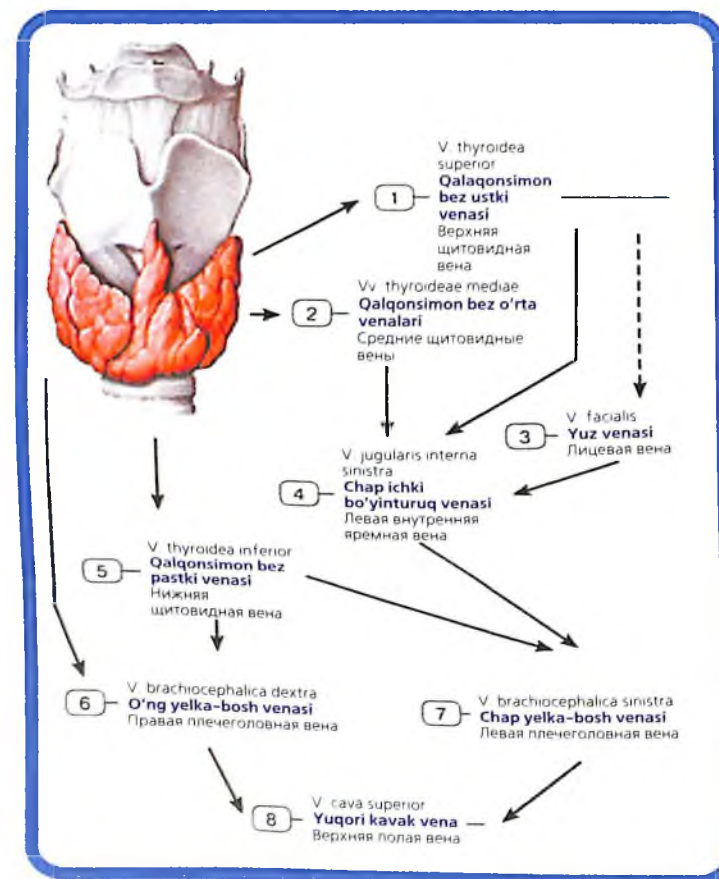
- 4 Lateral condyle of tibia
- 5 Medial condyle of tibia
- 6 Popliteal vein

- 7 Medial condyle of femur
- 8 Lateral condyle of femur
- 9 Tibia



Rasm №573. Ayrisimon bez venalari.
Рисунок №573. Вены тимуса.

- 1 Superior vena cava
- 2 Right brachiocephalic vein
- 3 Left brachiocephalic vein
- 4 Thymic veins

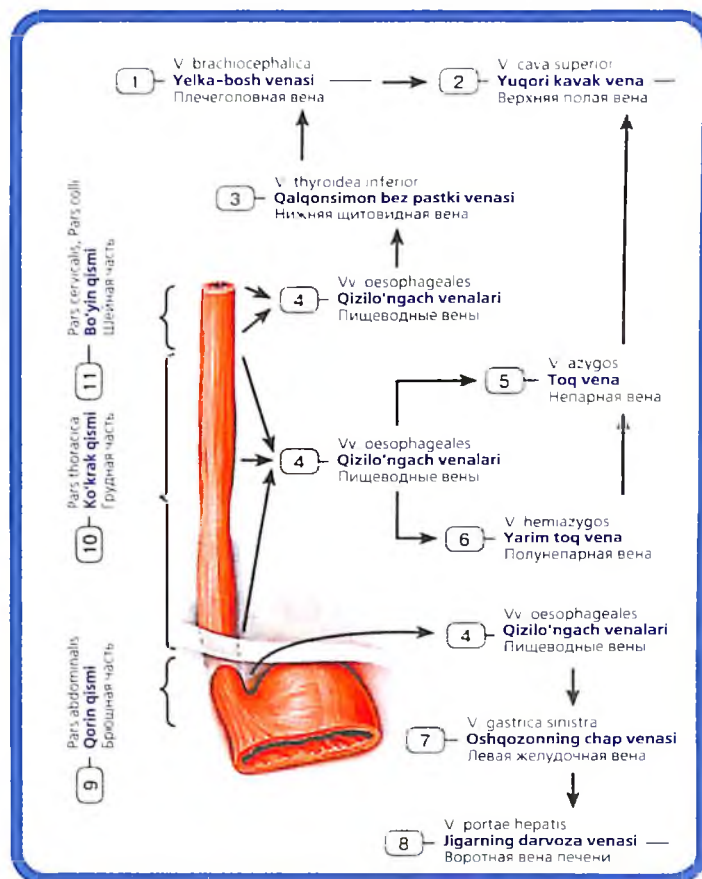
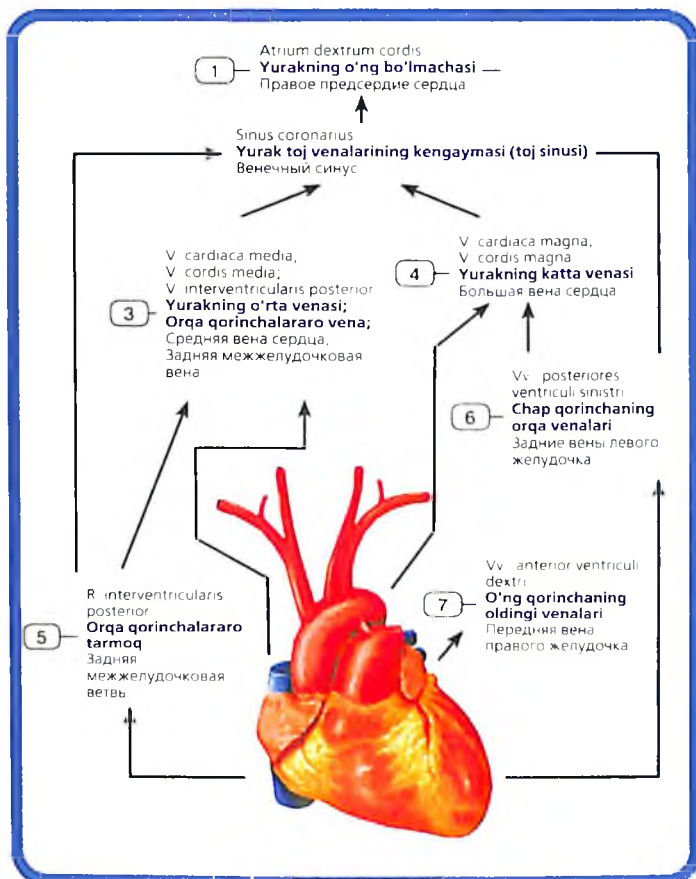
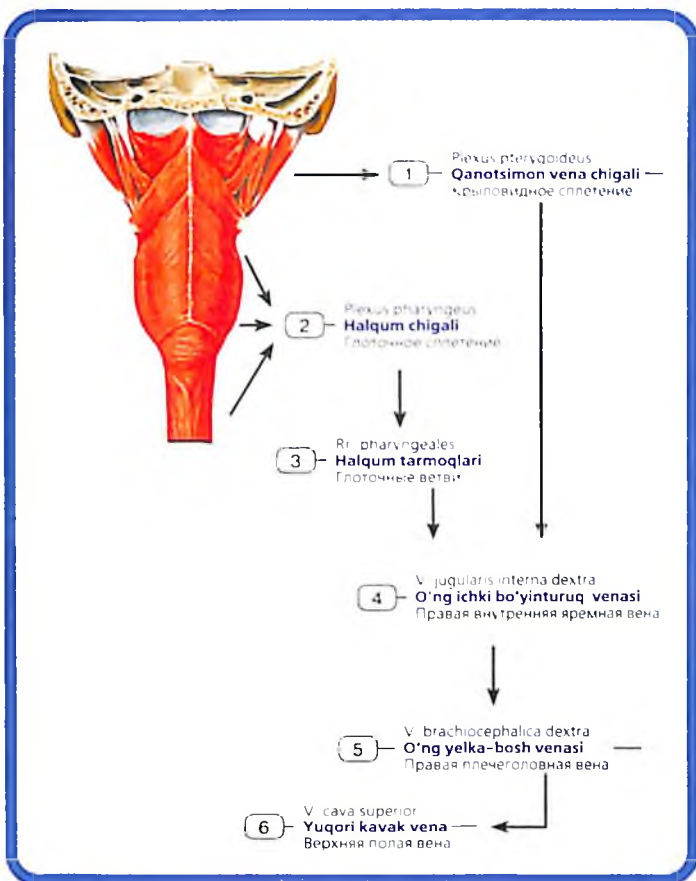


Rasm №574. Hiqildoq venalari
(chiziq bilan qo'shimcha oqim yo'nalishlari ko'rsatilgan).
Рисунок №574. Вены гортани
(пунктиром выделены добавочные пути оттока).

- | | |
|------------------------------|------------------------------|
| 1 Superior laryngeal vein | 6 Inferior thyroid vein |
| 2 Superior thyroid vein | 7 Right brachiocephalic vein |
| 3 Facial vein | 8 Left brachiocephalic vein |
| 4 Left internal jugular vein | 9 Superior vena cava |

Rasm №575. Qalqonsimon bez venalari.
Рисунок №575. Вены щитовидной железы.

- | | |
|------------------------------|------------------------------|
| 1 Superior thyroid vein | 5 Inferior thyroid vein |
| 2 Middle thyroid veins | 6 Right brachiocephalic vein |
| 3 Facial vein | 7 Left brachiocephalic vein |
| 4 Left internal jugular vein | 8 Superior vena cava |



Rasm №577. Qizilo`ngach venalari.
Рисунок №577. Вены пищевода.

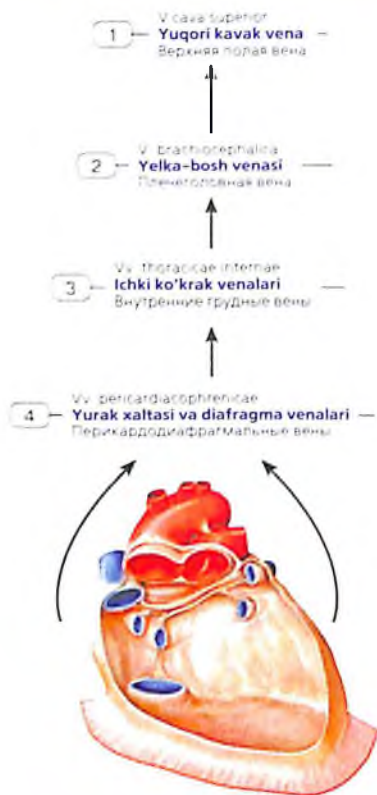
- | | |
|---|-----------------------|
| 1 Brachiocephalic vein | 7 Left gastric vein |
| 2 Superior vena cava | 8 Hepatic portal vein |
| 3 Inferior thyroid vein | 9 Abdominal part |
| 4 Oesophageal veins | 10 Thoracic part |
| 5 Azygos vein | 11 Cervical part |
| 6 Hemiazygos vein, inferior hemiazygos vein | |

Rasm №578. Yurak venalari.
Рисунок №578. Вены сердца.

- | | |
|---------------------------------|-------------------------------------|
| 1 Right atrium | 4 Great cardiac vein |
| 2 Coronary sinus | 5 Posterior interventricular branch |
| 3 Middle cardiac vein | 6 Posterior veins of left ventricle |
| Posterior interventricular vein | 7 Anterior vein of right ventricle |

Rasm №579. Perikard venalari.
Рисунок №579. Вены перикарда.

- 1 Superior vena cava
- 2 Brachiocephalic vein
- 3 Internal thoracic veins
- 4 Pericardiophrenic veins

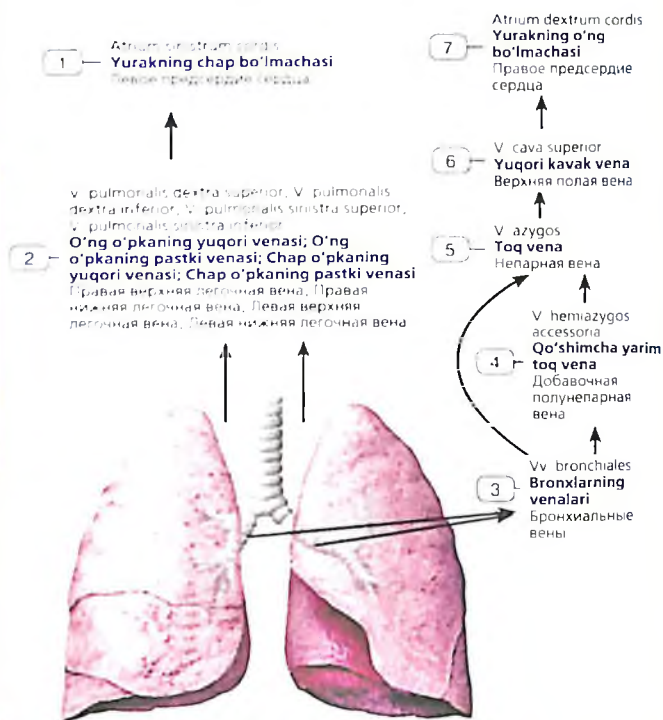


O'pka qon tomirlari

Bronxial qon tomirlari

Kichik qon aylanish doirasi

Katta qon aylanish doirasi

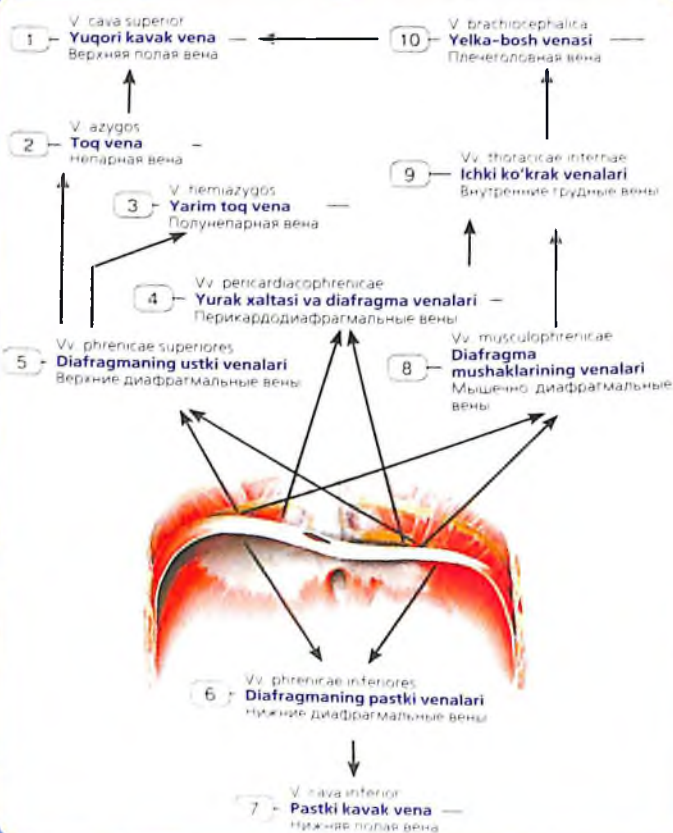


Rasm №580. O'pka va kekirdak venalari.
Рисунок №580. Вены легких и трахеи.

- 1 Left atrium
- 2 Right superior pulmonary vein,
- 3 Right inferior pulmonary vein,
- 4 Accessory hemi-azygos vein,
- 5 Superior hemi-azygos vein
- 6 Superior vena cava
- 7 Right atrium

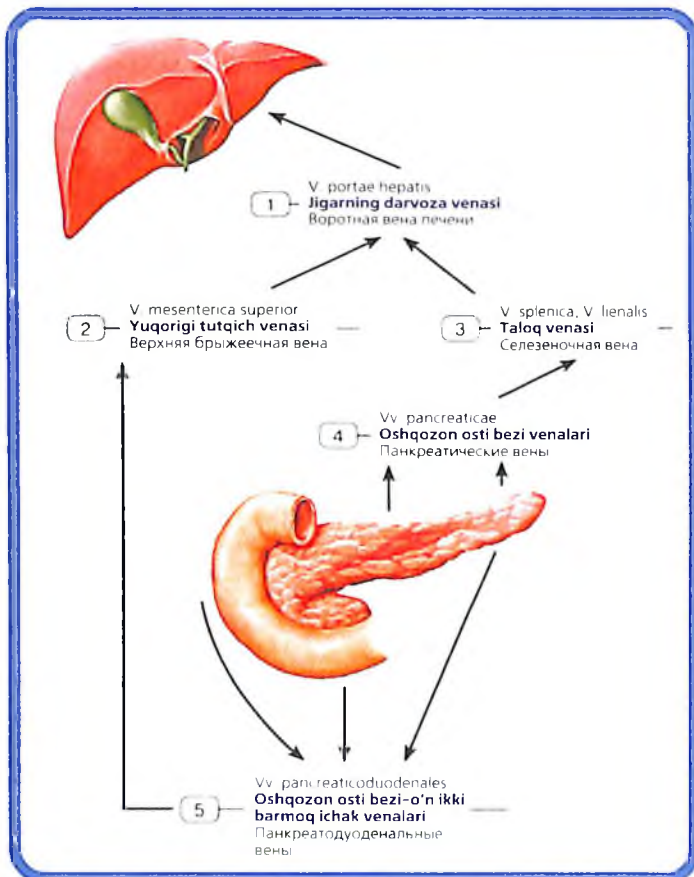
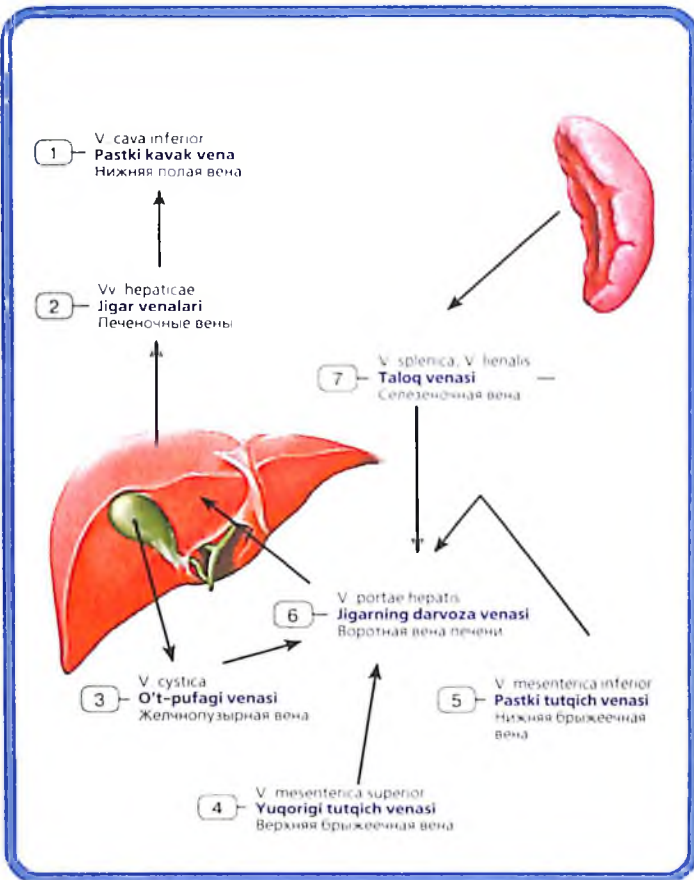
Rasm №581. Diafragma venalari.
Рисунок №581. Вены диафрагмы.

- 1 Superior vena cava
- 2 Azygos vein
- 3 Hemi-azygos vein,
- 4 Inferior hemi-azygos vein
- 5 Pericardiophrenic veins
- 6 Inferior phrenic veins
- 7 Inferior vena cava
- 8 Musculophrenic veins
- 9 Internal thoracic veins
- 10 Brachiocephalic vein



Rasm № 582. Jigar, o't pufagi va taloq venalari
Рисунок №582. Вены печени, желчного пузыря и селезенки.

- 1 Inferior vena cava
- 2 Hepatic veins
- 3 Cystic vein
- 4 Superior mesenteric vein
- 5 Inferior mesenteric vein
- 6 Hepatic portal vein
- 7 Splenic vein

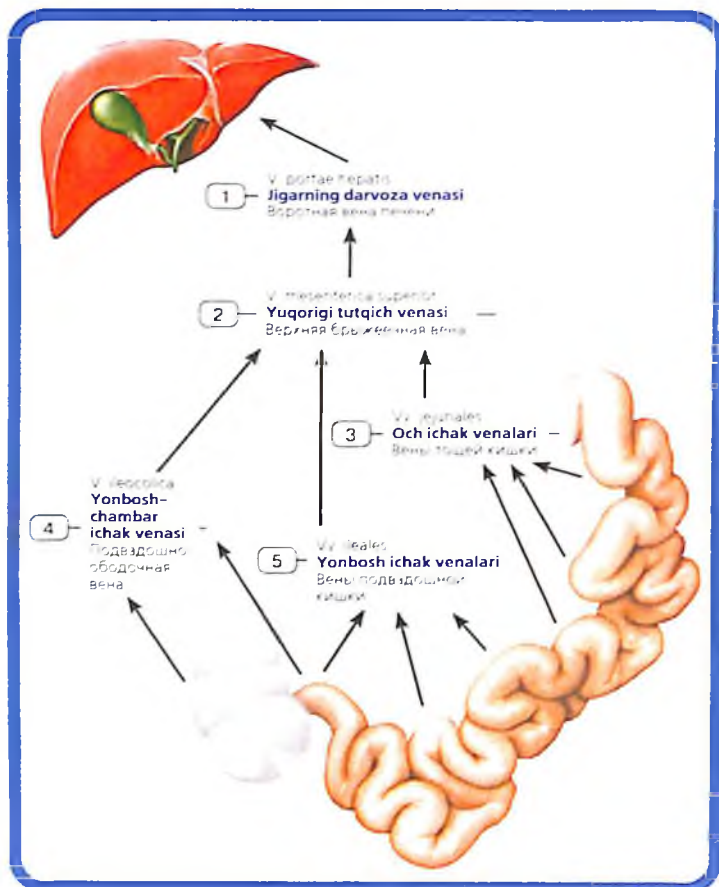


Rasm №583. Oshqozon venalari.
Рисунок №583. Вены желудка.

- 1 Splenic vein
- 2 Short gastric veins
- 3 Hepatic portal vein
- 4 Left gastric vein
- 5 Right gastric vein
- 6 Prepyloric vein
- 7 Right gastro-omental vein, Right gastro-epiploic vein
- 8 Superior mesenteric vein
- 9 Left gastro-omental vein, Left gastro-epiploic vein

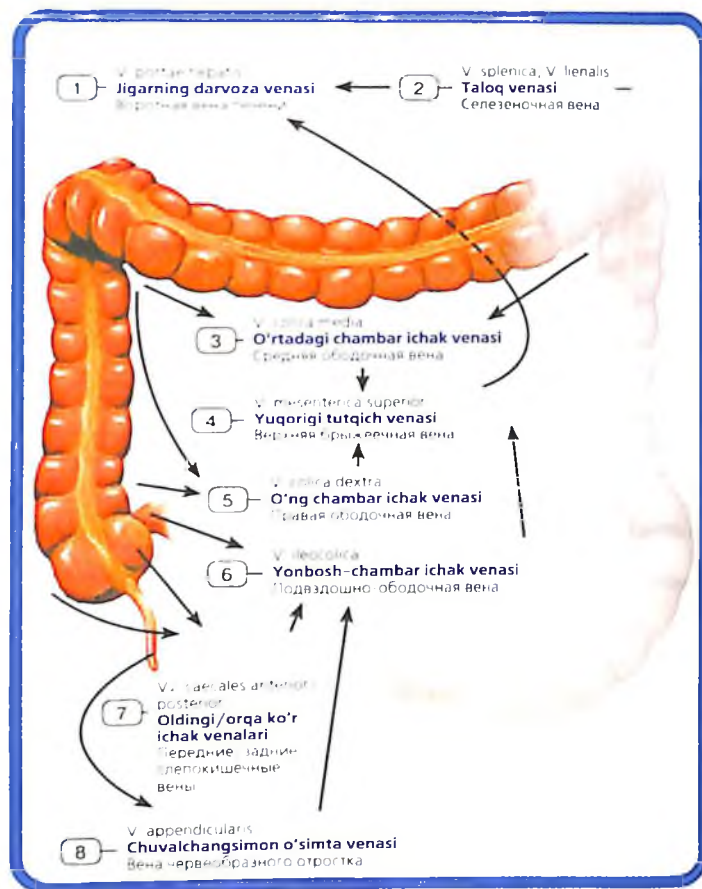
Rasm №584. O'n ikki barmoq ichak va oshqozon osti bezi venalari.
Рисунок №584. Вены двенадцатиперстной кишки и поджелудочной железы.

- 1 Hepatic portal vein
- 2 Superior mesenteric vein
- 3 Splenic vein
- 4 Pancreatic veins
- 5 Pancreaticoduodenal vein



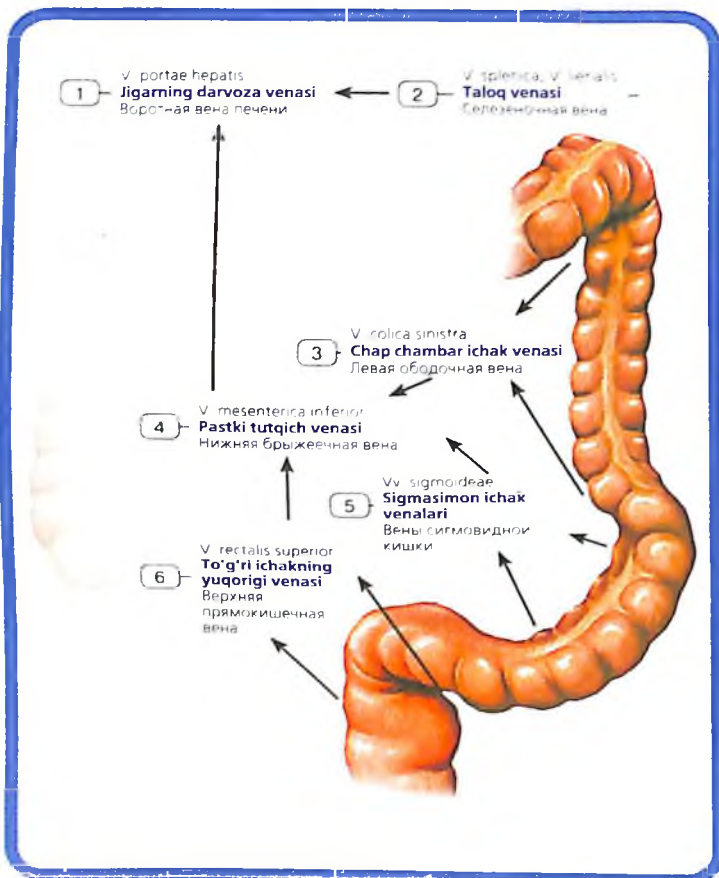
Rasm №585. Och va yonbosh ichak venalari.
Рисунок №585. Вены тощей и подвздошной кишки.

1. Hepatic portal vein
2. Superior mesenteric vein
3. Jejunal vein
4. Ileocolic vein
5. Iliac vein



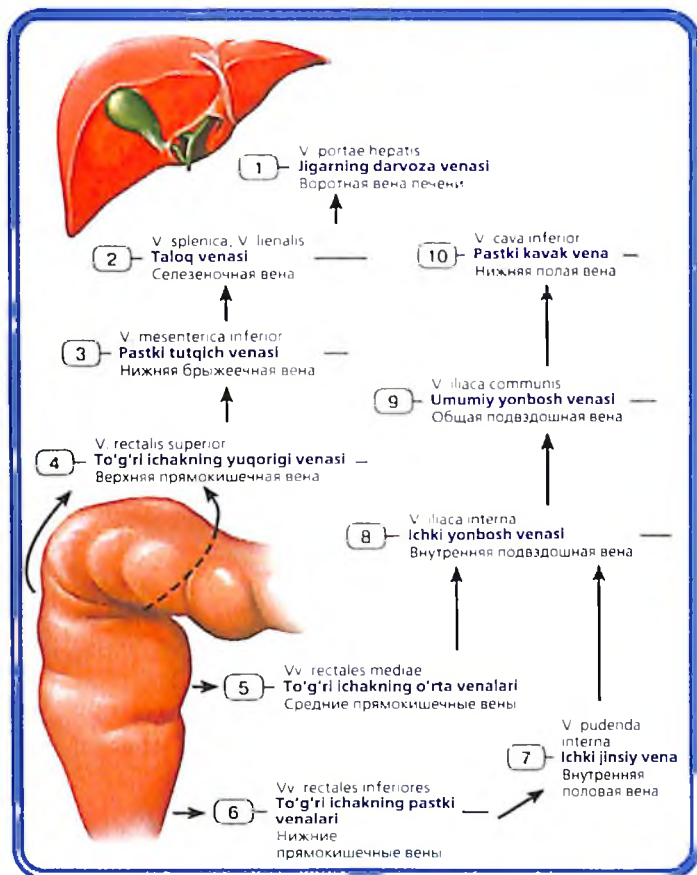
Rasm № 586. Ko'r ichak (chuvalchangsimon o'simta), ko'tariluvchi va ko'ndalang chamber ichak venalari.
Рисунок № 586. Вены слепой кишки (аппендикса), восходящей и поперечной ободочных кишки.

1. Hepatic portal vein
2. Splenic vein
3. Middle colic vein
4. Superior mesenteric vein
5. Right colic vein
6. Ileocolic vein
7. Anterior-posterior caecal veins
8. Appendicular vein



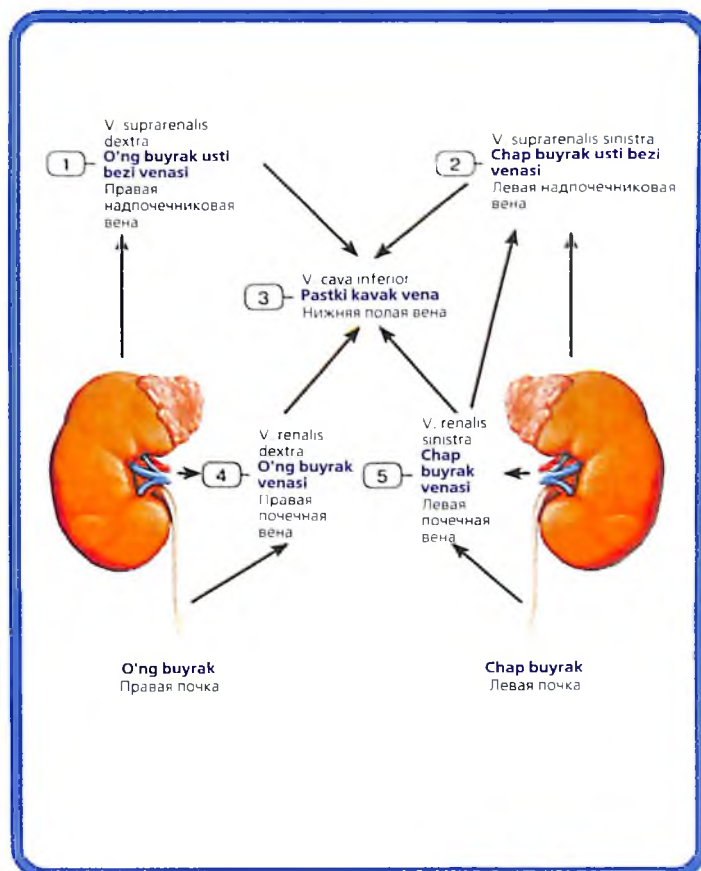
Rasm №587. Tushuvchi va sigmasimon chamber ichak venalari.
Рисунок №587. Вены нисходящей и сигмовидной ободочных кишок.

1. Hepatic portal vein
2. Splenic vein
3. Left colic vein
4. Inferior mesenteric vein
5. Sigmoid veins
6. Superior rectal vein



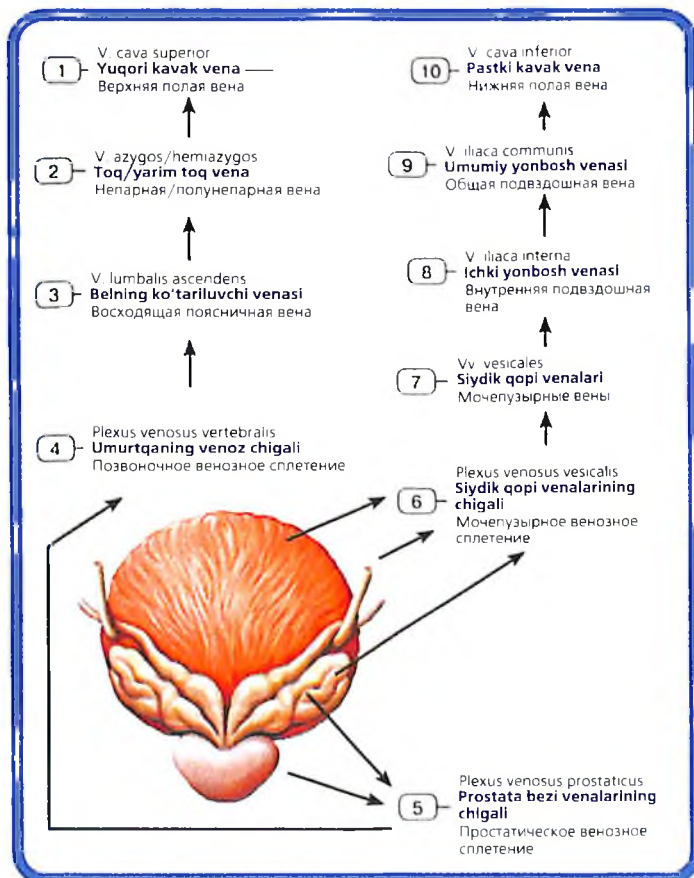
Rasm №588. To'g'ri ichak venalari.
Рисунок №588. Вены прямой кишки.

- 1 Hepatic portal vein
- 2 Splenic vein
- 3 Inferior mesenteric vein
- 4 Superior rectal vein
- 5 Middle rectal veins
- 6 Inferior rectal veins
- 7 Internal pudendal vein
- 8 Internal iliac vein
- 9 Common iliac vein
- 10 Inferior vena cava



Rasm №589. Buyraklar, siydik naylari va buyrak usti bezlarining venalari.
Рисунок №589. Вены почек, мочеточников и надпочечников.

- 1 Right suprarenal vein
- 2 Left suprarenal vein
- 3 Inferior vena cava
- 4 Right renal vein
- 5 Left renal vein



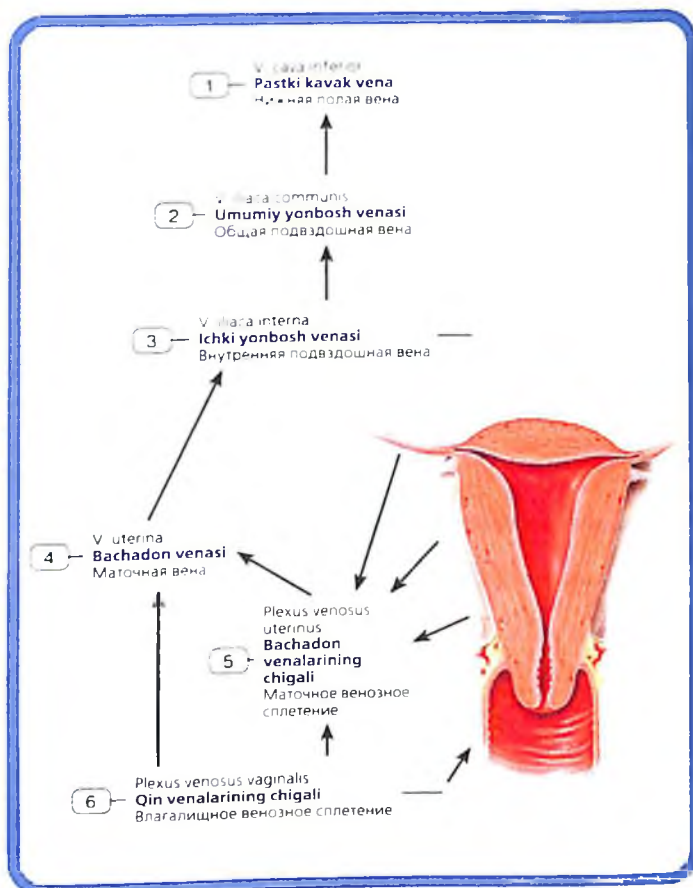
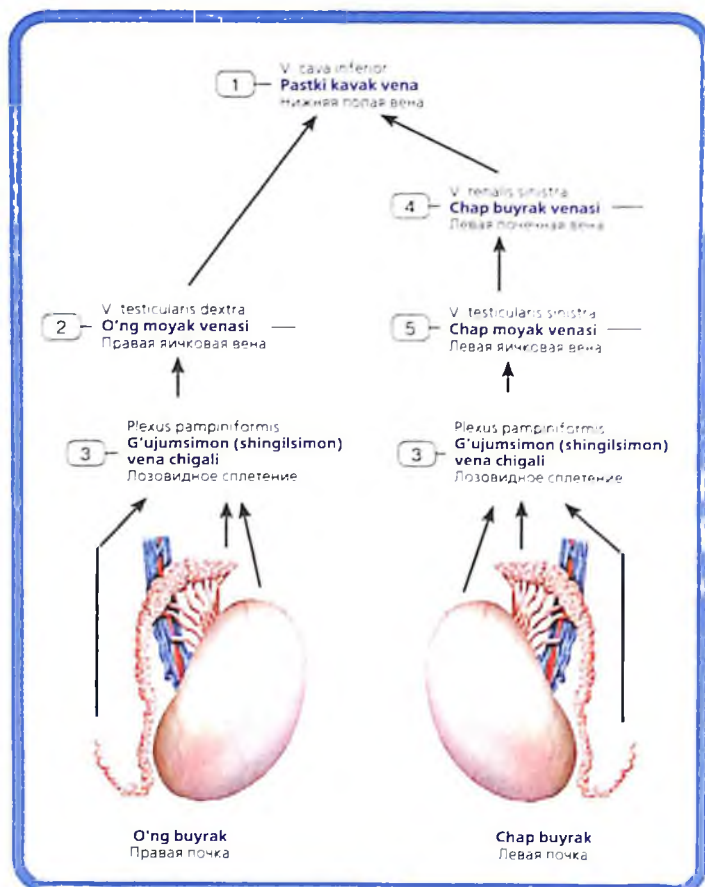
Rasm № 590. Siydik pufagi, prostata bezi va urug' pufakchalarining venalari.
Рисунок №590. Вены мочевого пузыря, простаты и семенных пузырьков.

- 1 Superior vena cava
- 2 Azygos/Hemi-azygos vein
- 3 Ascending lumbar vein
- 4 Vertebral venous plexus
- 5 Prostatic venous plexus
- 6 Vesical venous plexus
- 7 Vesical veins
- 8 Internal iliac vein
- 9 Common iliac vein
- 10 Inferior vena cava

Rasm №591. Moyak, moyak ortig'i va urug' olib ketuvchi nayning venalari.

Рисунок №591. Вены яичек, придатка яичка и семявыносящих протоков.

- 1 Inferior vena cava
- 2 Right testicular vein
- 3 Pampiniform plexus
- 4 Left renal vein
- 5 Left testicular vein

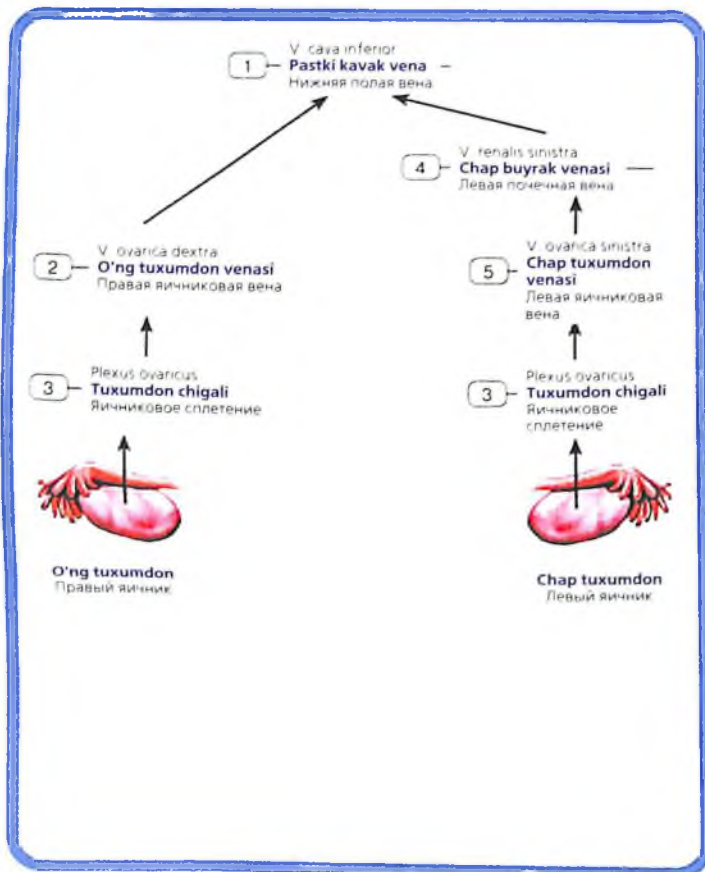


Rasm №592. Bachadon, bachadon nayi va qinning venalari.
Рисунок №592. Вены матки, маточной трубы и влагалища.

- 1 Inferior vena cava
- 2 Common iliac vein
- 3 Internal iliac vein
- 4 Uterine vein
- 5 Uterine venous plexus
- 6 Vaginal venous plexus

Rasm №593. Bachadon nayi va tuxumdonning venalari.
Рисунок №593. Вены маточной трубы и яичника.

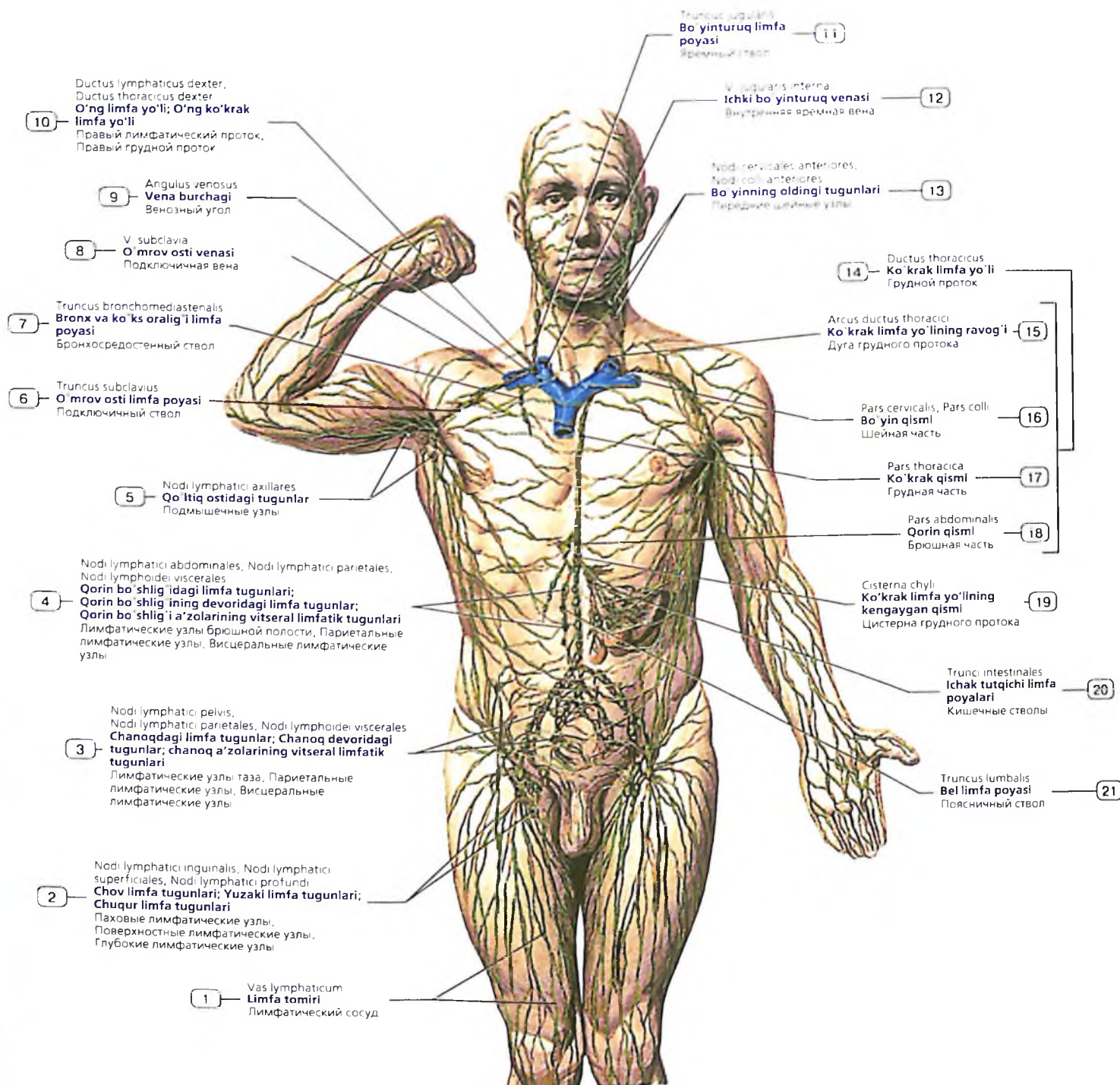
- 1 Inferior vena cava
- 2 Right ovarian vein
- 3 Ovarian plexus
- 4 Left renal vein
- 5 Left ovarian vein



**LIMPHATIC VESSEL,
TRUNKS AND DUCTS**

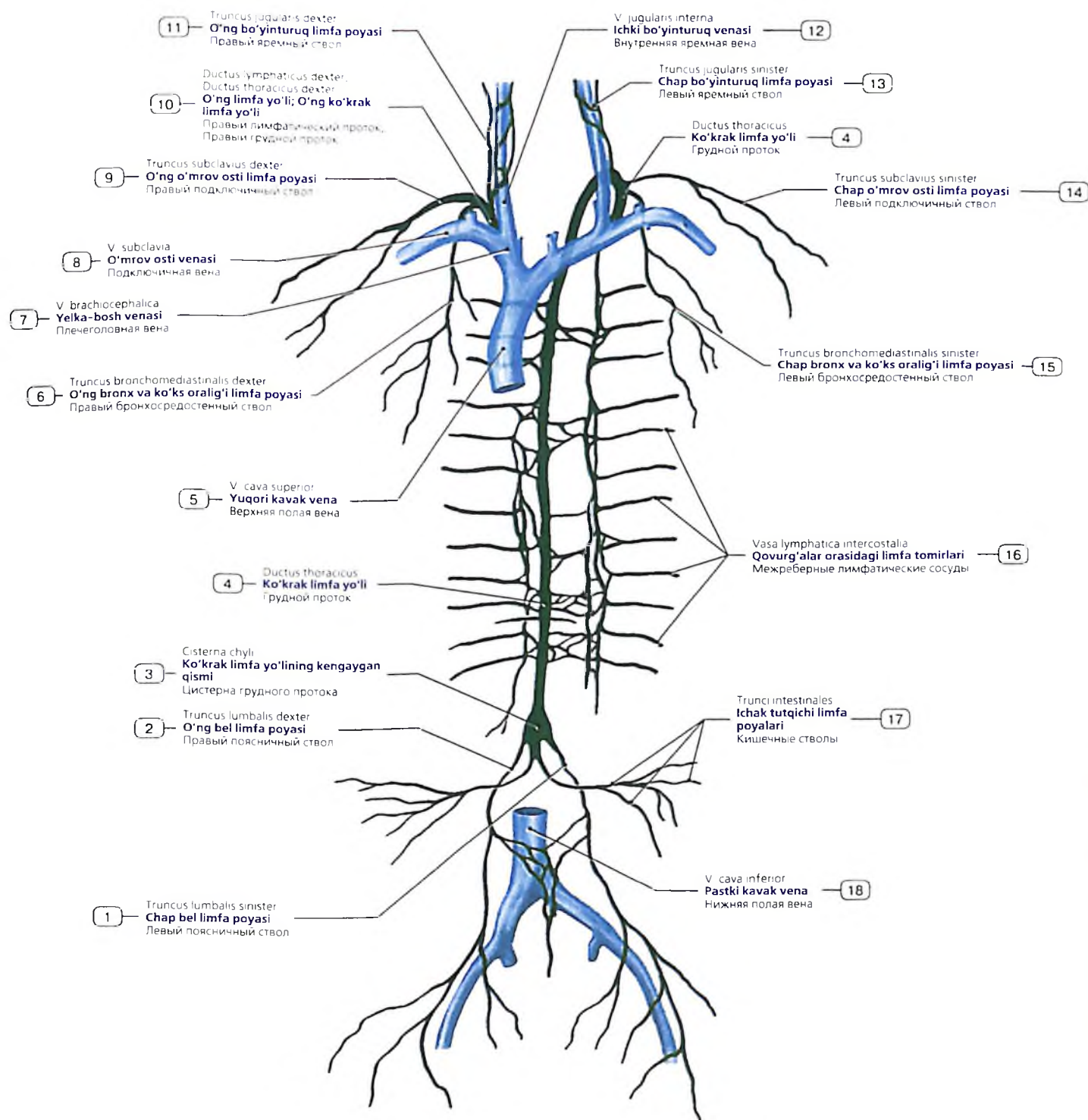
**LIMFA TOMIRLARI,
POYALAR VA YO`LLAR**

**ЛИМФАТИЧЕСКИЕ
СОСУДЫ, СТВОЛЫ
И ПРОТОКИ**



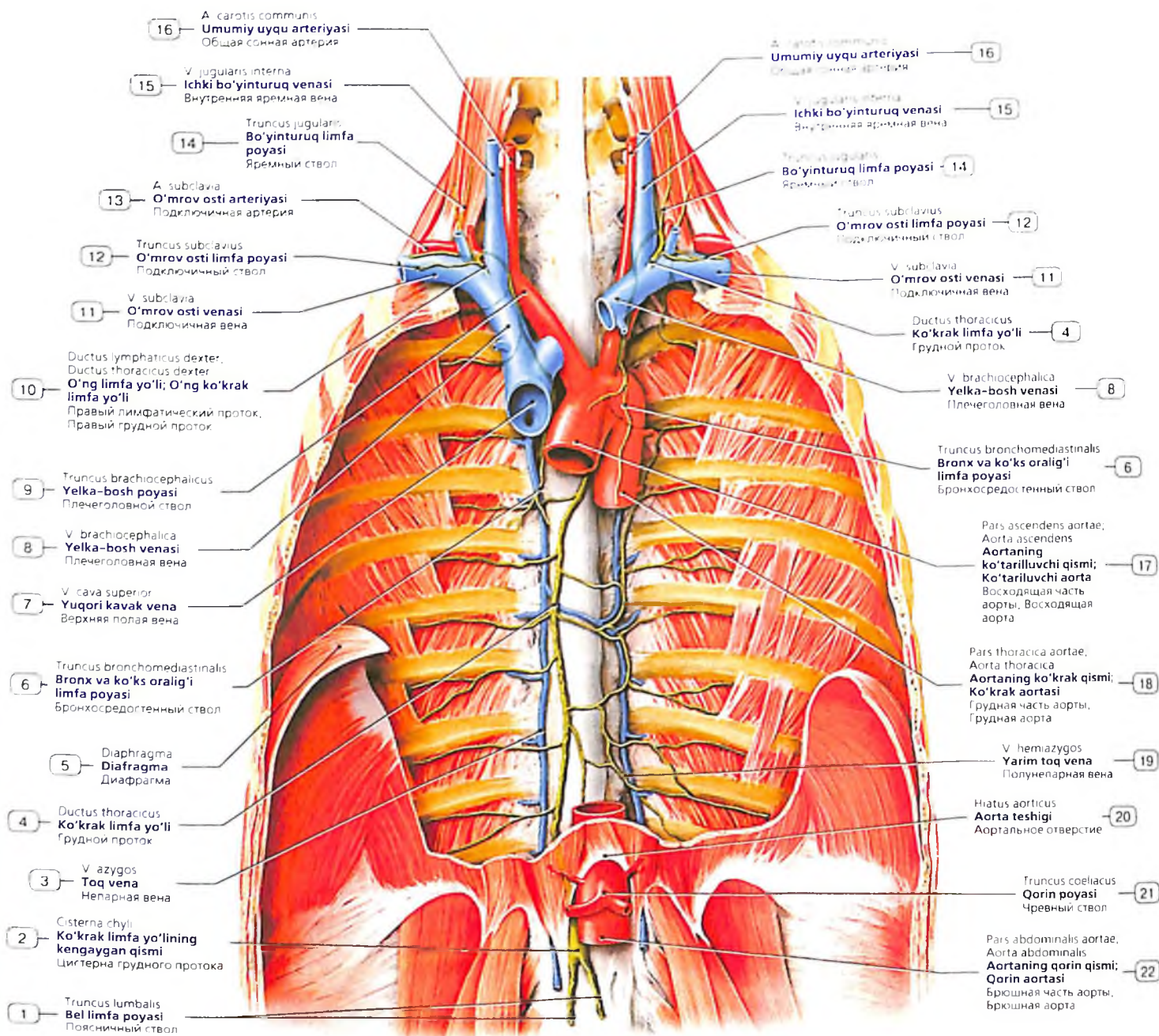
Rasm № 594. Limfa tizimi (chizma).
Рисунок № 594. Лимфатическая система (схема).

- | | | |
|---|--|---------------------------------|
| 1 Lymphatic vessel | 6 Subclavian trunk | 14 Thoracic duct |
| 2 Inguinal lymph nodes, Superficial lymph nodes, Deep lymph nodes | 7 Bronchomediastinal trunk | 15 Arch of thoracic duct |
| 3 Pelvic lymph nodes, Parietal lymph nodes, Visceral lymph nodes | 8 Subclavian vein | 16 Cervical part |
| 4 Abdominal lymph nodes, Parietal lymph nodes, Visceral lymph nodes | 9 Venous angle | 17 Thoracic part |
| 5 Axillary lymph nodes | 10 Right lymphatic duct, Right thoracic duct | 18 Abdominal part |
| | 11 Jugular trunk | 19 Cisterna chyli, Chylicistern |
| | 12 Internal jugular vein | 20 Intestinal trunks |
| | 13 Anterior cervical nodes | 21 Lumbar trunk |



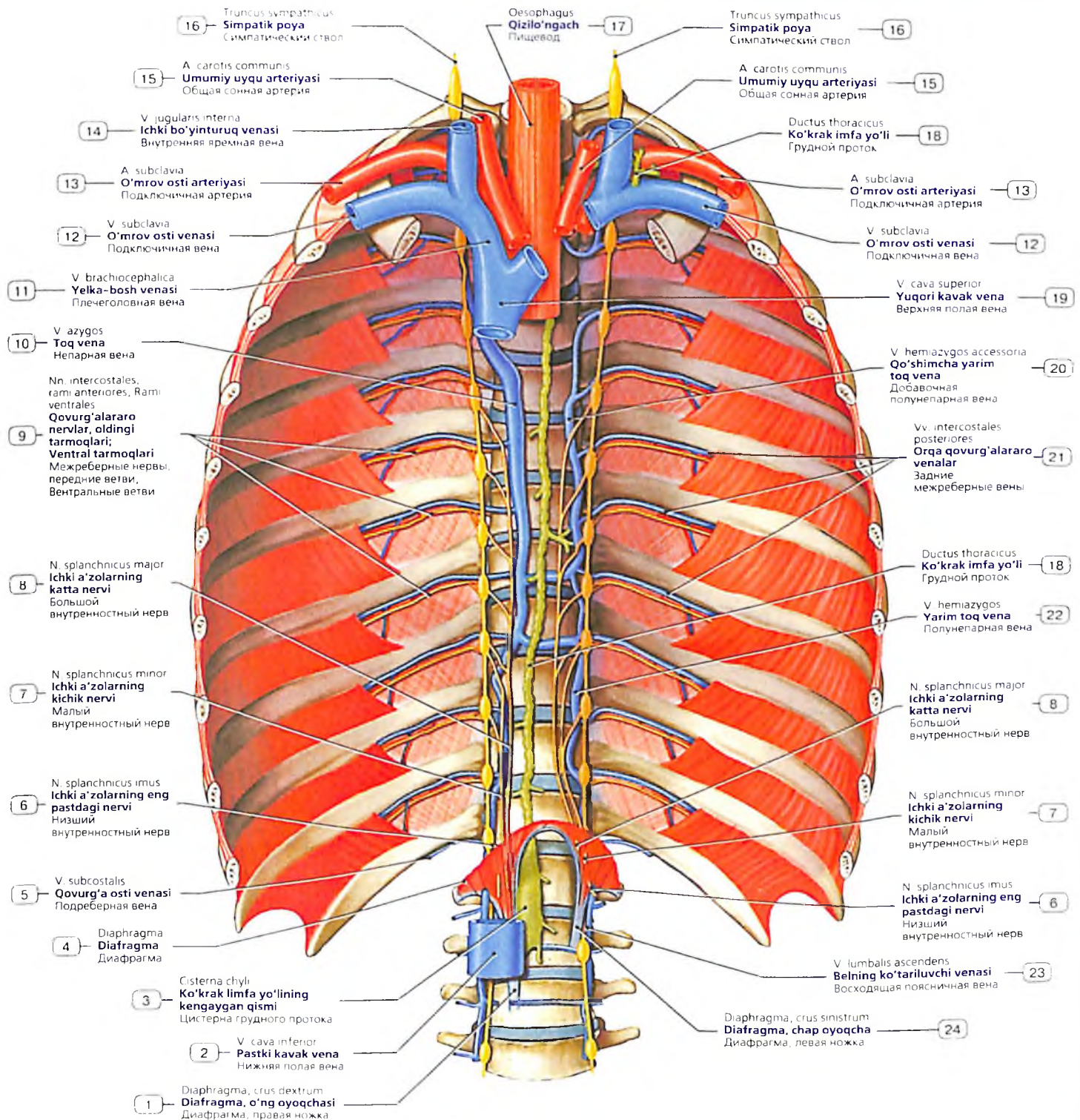
Rasm № 595. Limfa naylari (yo'llari) (chizma).
Рисунок № 595. Лимфатические протоки (схема).

- | | | |
|----------------------------------|--|----------------------------------|
| 1 Left lumbar trunk | 7 Brachiocephalic vein | 13 Left jugular trunk |
| 2 Right lumbar trunk | 8 Subclavian vein | 14 Left subclavian trunk |
| 3 Cisterna chyli, Chylocistern | 9 Right subclavian trunk | 15 Left bronchomediastinal trunk |
| 4 Thoracic duct | 10 Right lymphatic duct, Right thoracic duct | 16 Intercostal lymphatic vessels |
| 5 Superior vena cava | 11 Right jugular trunk | 17 Intestinal trunks |
| 6 Right bronchomediastinal trunk | 12 Internal jugular vein | 18 Inferior vena cava |



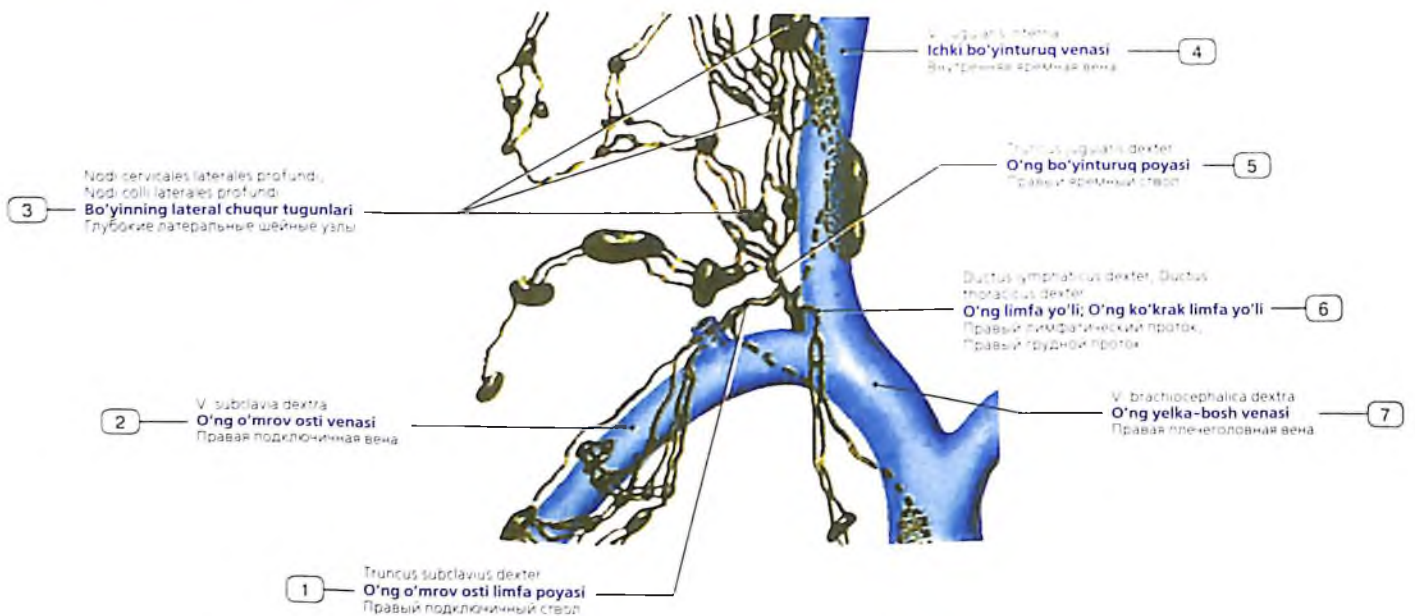
Rasm № 596. Limfatik yo'llar, oldindan ko'rinishi.
Рисунок № 596. Лимфатические протоки, вид спереди.

- | | | |
|--------------------------------|--|--|
| 1 Lumbar trunk | 9 Brachiocephalic trunk | 17 Ascending aorta |
| 2 Cisterna chyli, Chylinistern | 10 Right lymphatic duct, Right thoracic duct | 18 Thoracic aorta |
| 3 Azygos vein | 11 Subclavian vein | 19 Hemi-azygos vein, Inferior hemi-azygos vein |
| 4 Thoracic duct | 12 Subclavian trunk | 20 Aortic hiatus |
| 5 Diaphragm | 13 Subclavian artery | 21 Coeliac trunk |
| 6 Bronchomediastinal trunk | 14 Jugular trunk | 22 Abdominal aorta |
| 7 Superior vena cava | 15 Internal jugular vein | |
| 8 Brachiocephalic vein | 16 Common carotid artery | |



Rasm № 597. Ko'krak limfa yo'li, oldindan ko'rinishi.
Рисунок № 597. Грудной проток, вид спереди.

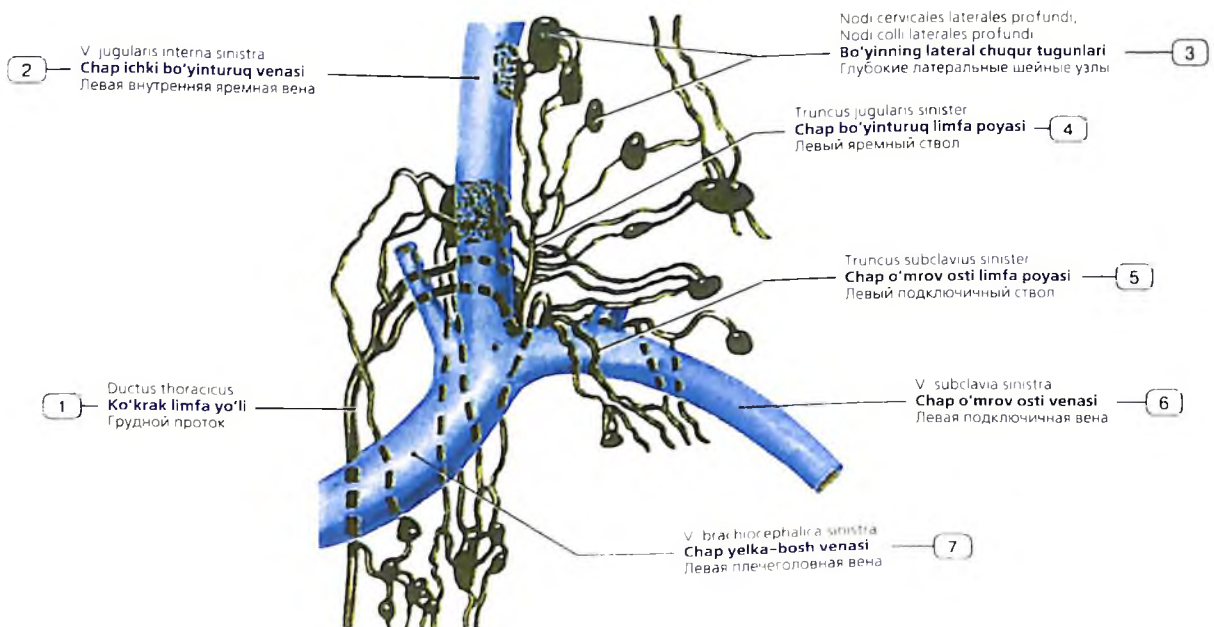
- | | | | |
|---|---|--------------------------|--------------------------------|
| 1 Diaphragm, right crus | 7 Lesser splanchnic nerve | 13 Subclavian artery | 20 Accessory hemi-azygos vein; |
| 2 Inferior vena cava | 8 Greater splanchnic nerve | 14 Internal jugular vein | Superior hemi-azygos vein |
| 3 Cisterna chyli, Chyle cistern | 9 Intercostal nerves, anterior rami, Ventral rami | 15 Common carotid artery | 21 Posterior intercostal veins |
| 4 Diaphragm | 10 Azygos vein | 16 Sympathetic trunk | 22 Hemi-azygos vein; |
| 5 Subcostal vein | 11 Brachiocephalic vein | 17 Oesophagus | Inferior hemi-azygos vein |
| 6 Least splanchnic nerve; Lowest splanchnic nerve | 12 Subclavian vein | 18 Thoracic duct | 23 Ascending lumbar vein |
| | | 19 Superior vena cava | 24 Diaphragm, left crus |



Rasm № 598. O'ng venoz burchak va unga quyiluvchi o'ng bo'yinturuq, o'ng o'mrov osti limfa poyalari va o'ng limfa yo'li (chizma).

Рисунок № 598. Правый венозный угол и впадающие в него правый яремный ствол, правый подключичный ствол и правый лимфатический проток (схема).

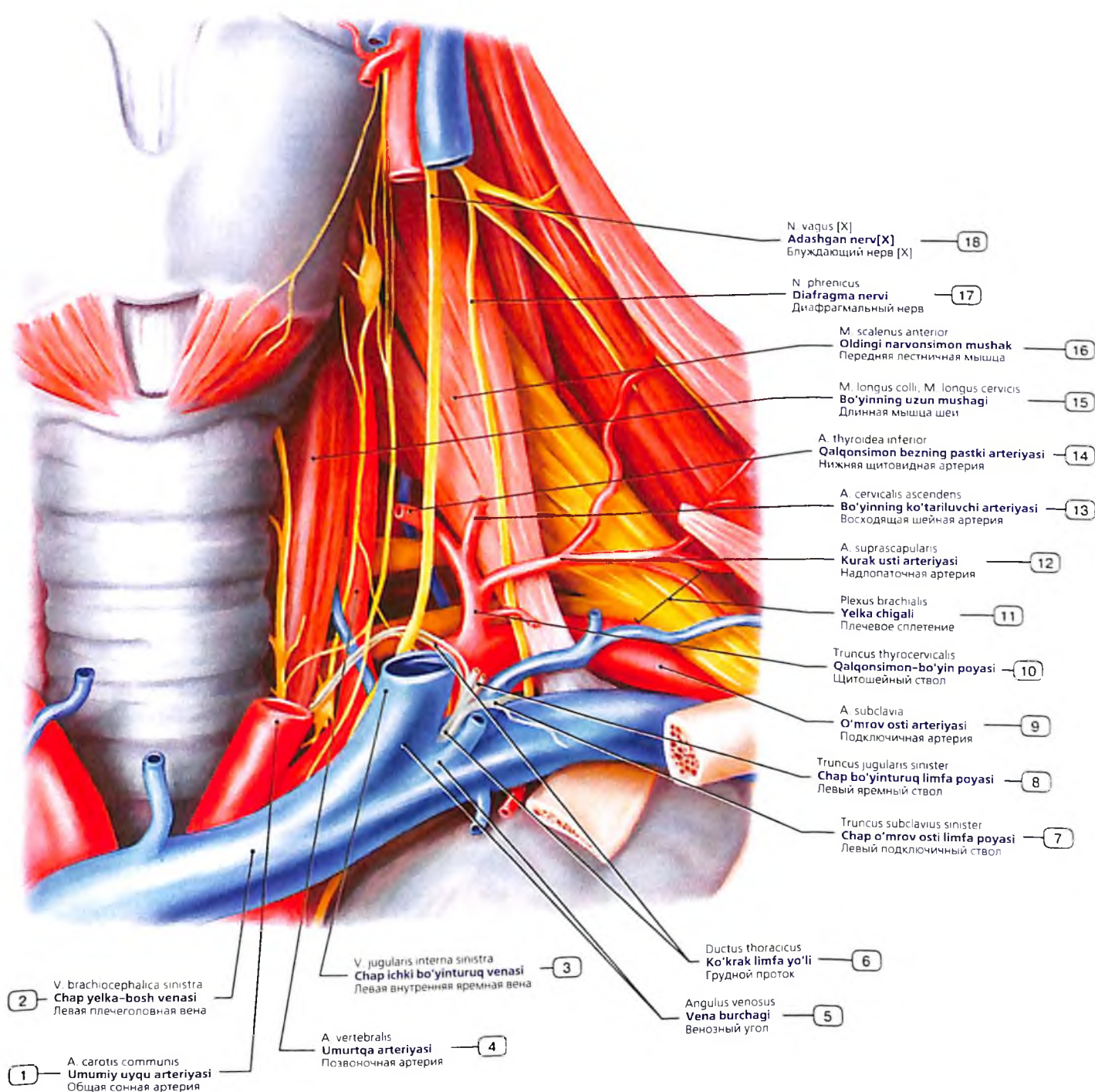
- | | |
|-------------------------------|---|
| 1 Right subclavian trunk | 5 Right jugular trunk |
| 2 Right subclavian vein | 6 Right lymphatic duct, Right thoracic duct |
| 3 Lateral cervical deep nodes | 7 Right brachiocephalic vein |
| 4 Internal jugular vein | |



Rasm № 599. Chap venoz burchak va unga quyiluvchi limfa poyalari va ko'krak limfa yo'li (chizma).

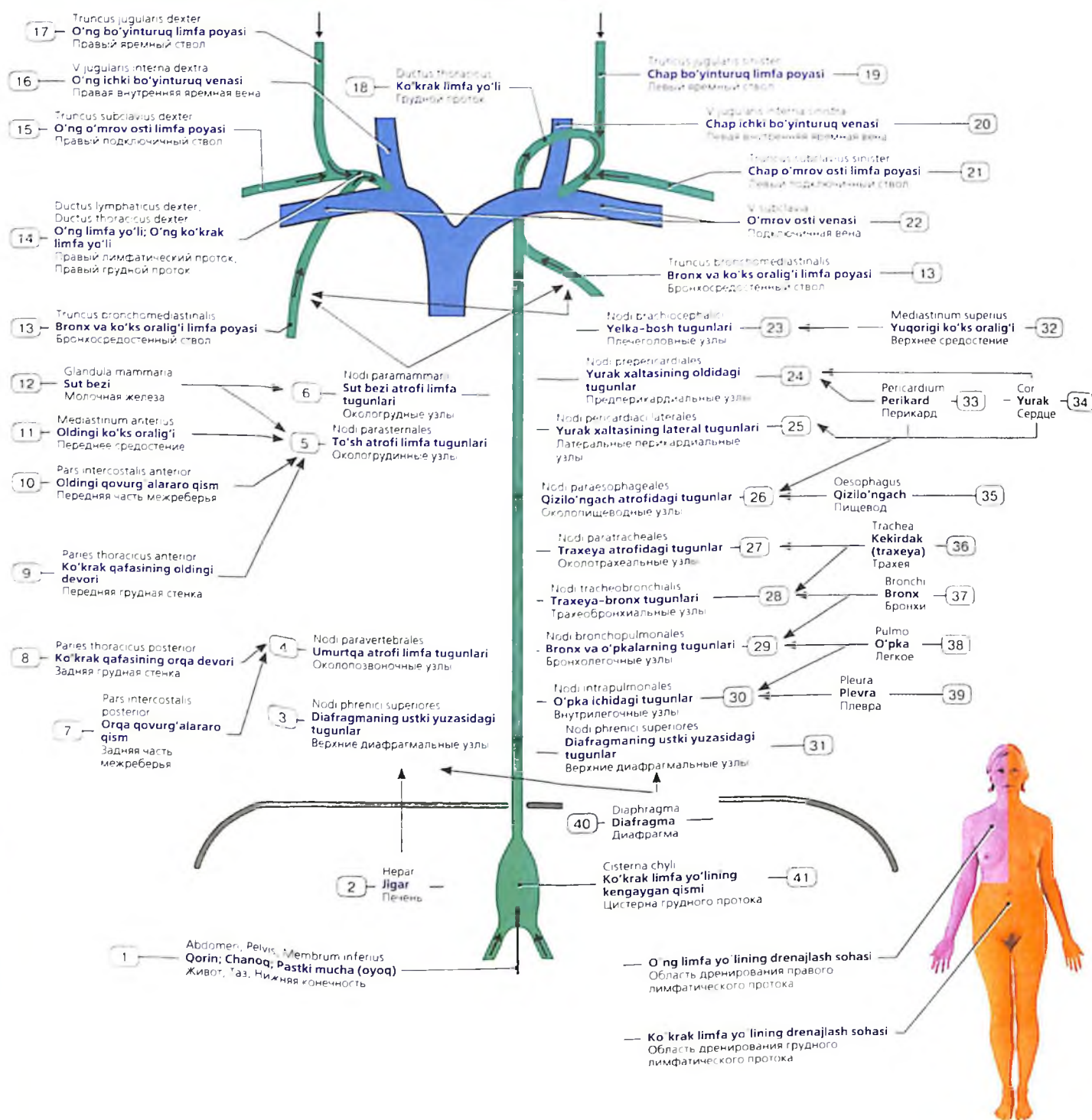
Рисунок № 599. Левый венозный угол и впадающие в него лимфатические стволы и грудной лимфатический проток (схема).

- | | |
|-------------------------------|-----------------------------|
| 1 Thoracic duct | 5 Left subclavian trunk |
| 2 Left internal jugular vein | 6 Left subclavian vein |
| 3 Lateral cervical deep nodes | 7 Left brachiocephalic vein |
| 4 Left jugular trunk | |

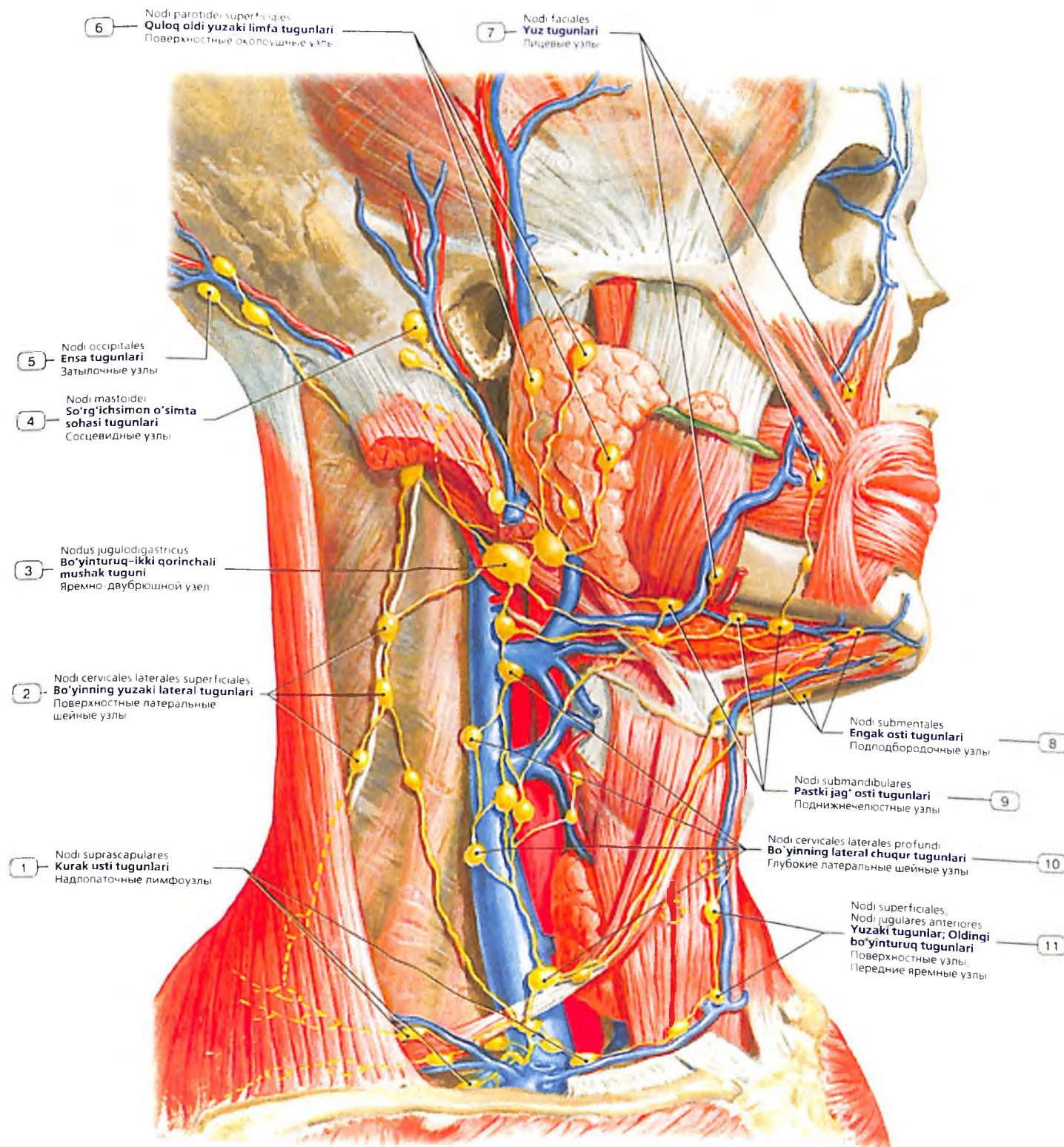


Rasm № 600. Chap venoz burchak topografiyasi.
Рисунок № 600. Топография левого венозного угла.

- | | |
|------------------------------|--|
| 1 Common carotid artery | 10 Thyrocervical trunk |
| 2 Left brachiocephalic vein | 11 Brachial plexus |
| 3 Left internal jugular vein | 12 Suprascapular artery |
| 4 Vertebral artery | 13 Ascending cervical artery |
| 5 Venous angle | 14 Inferior thyroid artery |
| 6 Thoracic duct | 15 Longus colli |
| 7 Left subclavian trunk | 16 Scalenus anterior, Anterior scalene |
| 8 Left jugular trunk | 17 Phrenic nerve |
| 9 Subclavian artery | 18 Vagus nerve [X] |



Rasm № 601. Tananing turli qismlaridan limfaning o'ng limfa yo'li va ko'krak limfa yo'liga yig'ilishi (chizma).
Рисунок № 601. Отток лимфы от различных областей тела вправый лимфатический и грудной протоки (схема).



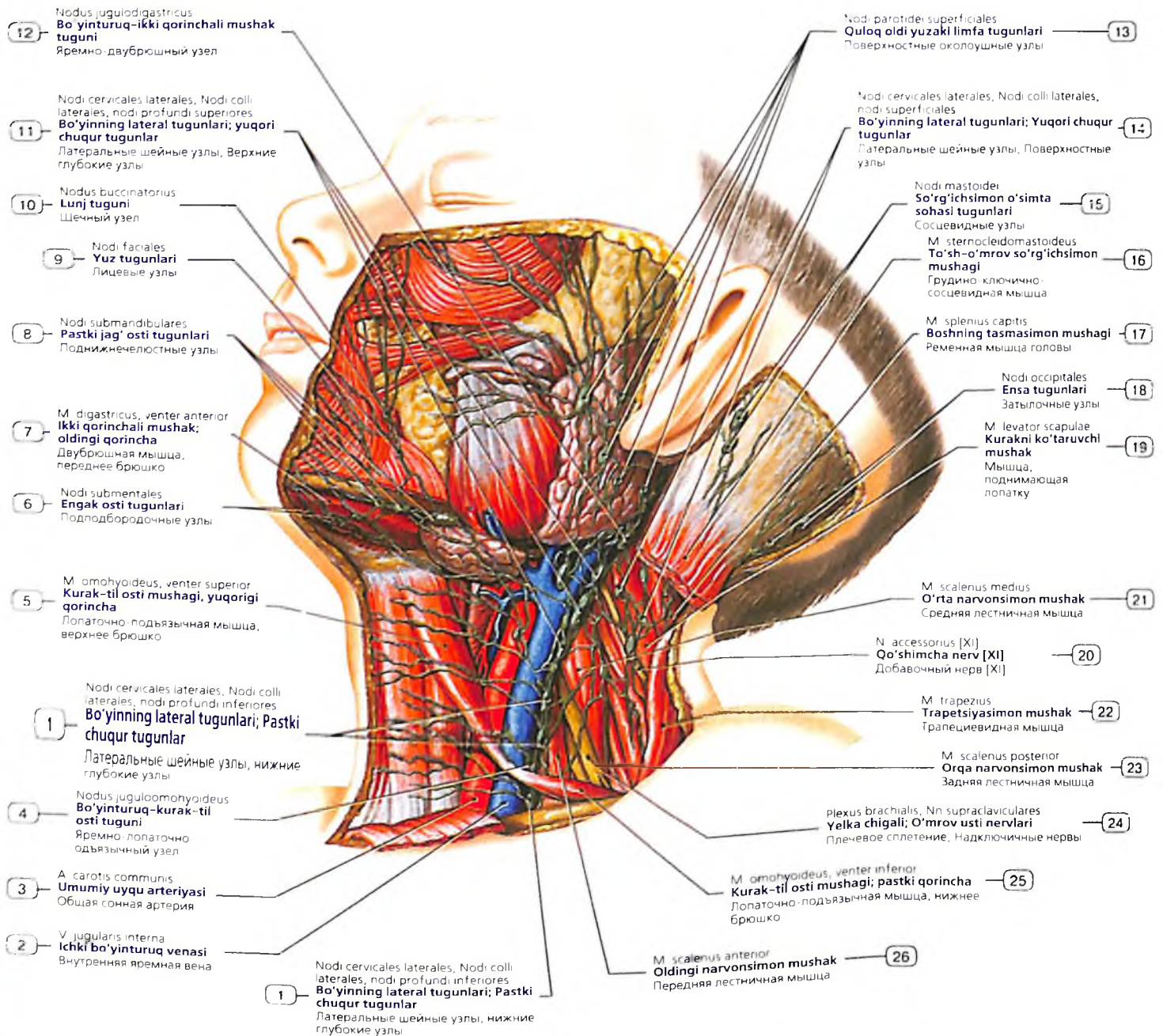
Rasm № 602. Bosh va bo'yin sohasi limfa tugunlari.
Рисунок № 602. Лимфатические узлы головы и шеи.

1 Suprascapular nodes
2 Lateral cervical superficial nodes
3 Jugulo digastric node

4 Mastoid nodes
5 Occipital nodes
6 Superficial parotid nodes

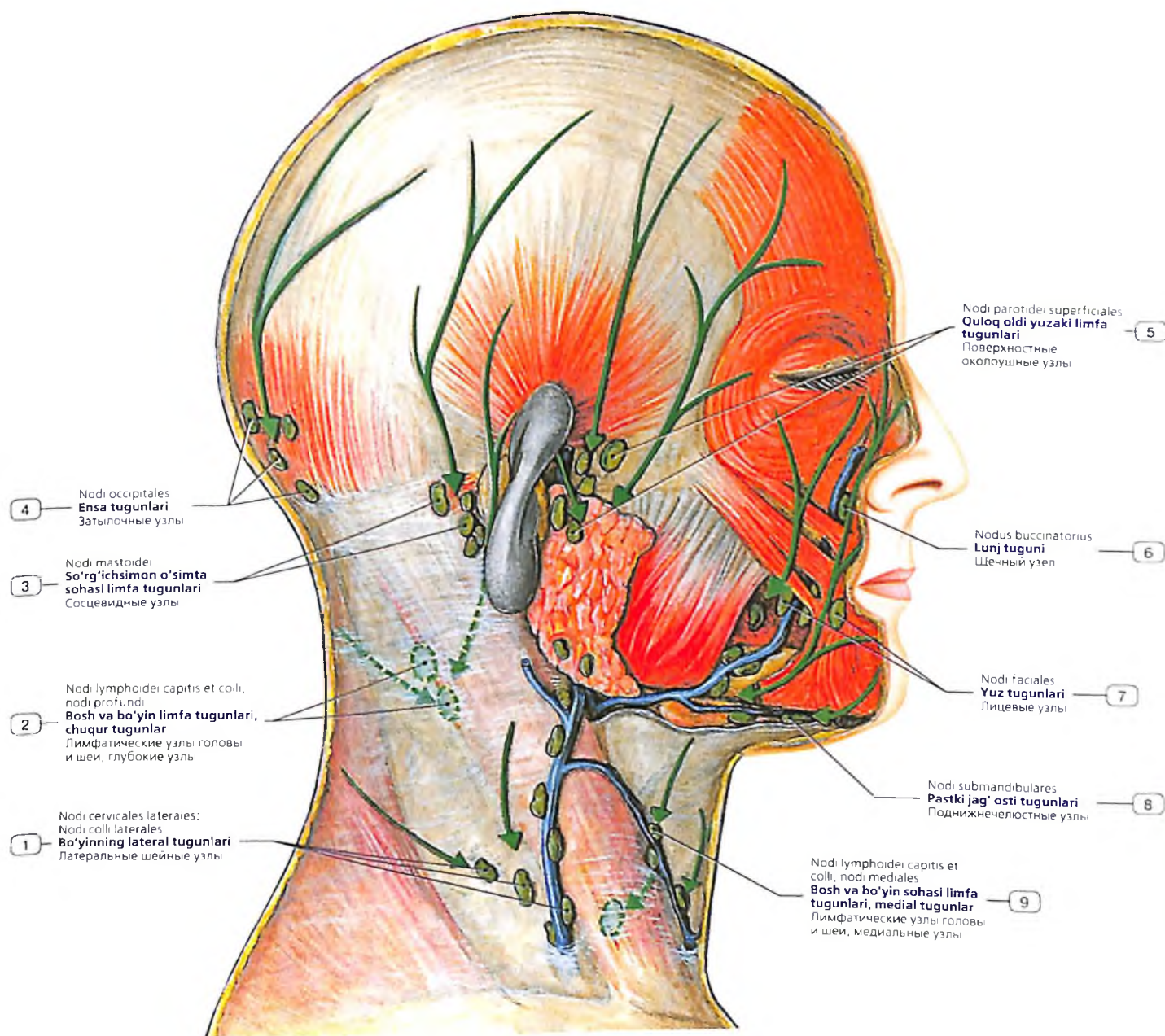
7 Facial nodes
8 Submental nodes
9 Submandibular nodes

10 Deep lateral cervical nodes
11 Superficial nodes, Anterior jugular nodes



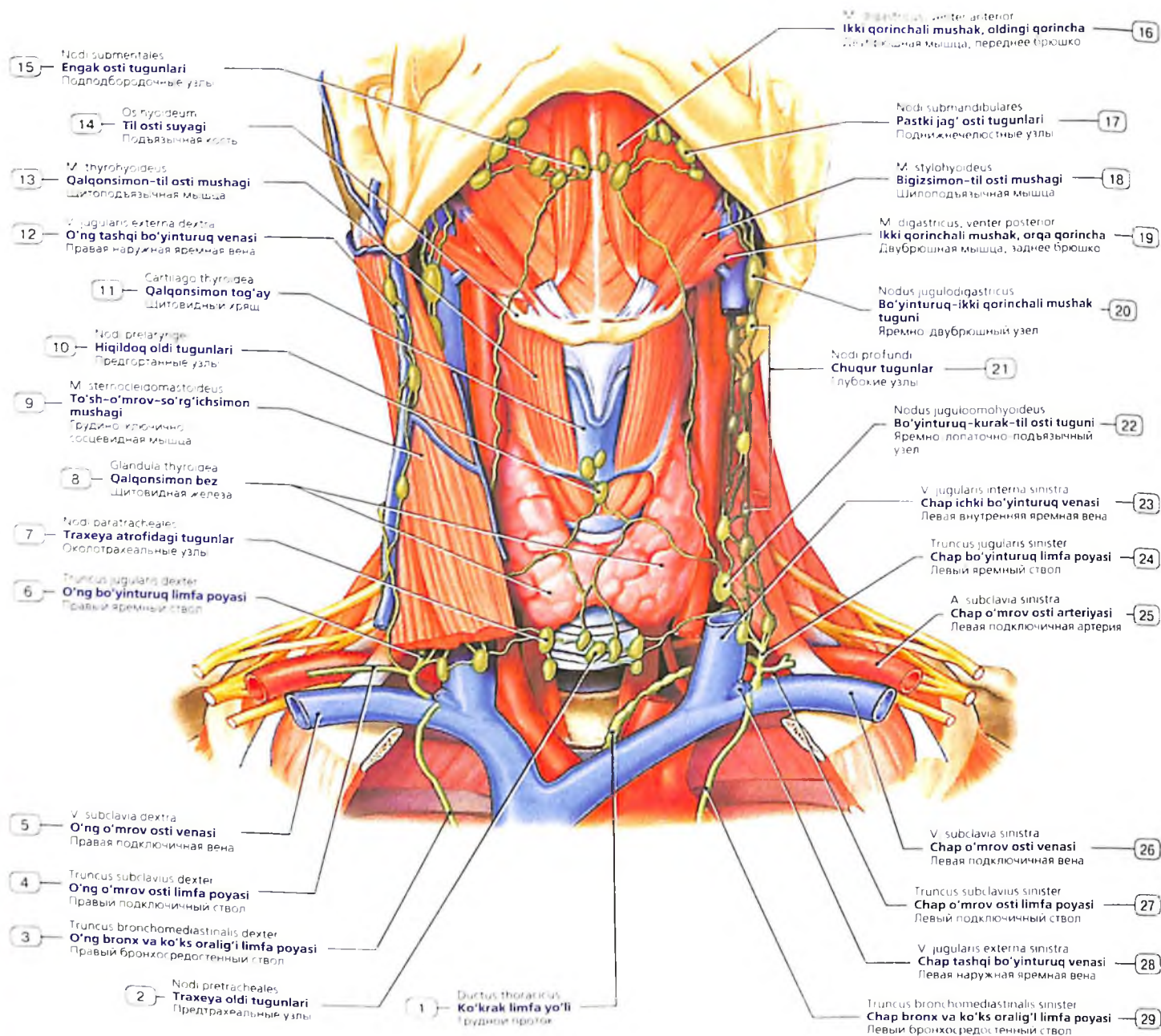
Rasm 603. Bosh va bo'yinning limfa tugunlari va tomirlari.
Рисунок № 603. Лимфатические сосуды и узлы головы и шеи.

- | | | |
|---|--|--|
| 1 Lateral cervical nodes, inferior deep nodes | 10 Buccinators node | 19 Levator scapulae |
| 2 Internal jugular vein | 11 Lateral cervical nodes, superior deep nodes | 20 Scalenus medius, Middle scalene |
| 3 Common carotid artery | 12 Jugulo digastric node | 21 Accessory nerve [XI] |
| 4 Jugulo omohyoid node | 13 Superficial parotid nodes | 22 Trapezius |
| 5 Omohyoid, superior belly | 14 Lateral cervical nodes, Superficial nodes | 23 Scalenus posterior, posterior scalene |
| 6 Submental nodes | 15 Mastoid nodes | 24 Brachial plexus, Supraclavicular nerves |
| 7 Digastric, anterior belly | 16 Sternocleidomastoid | 25 Omohyoid, inferior belly |
| 8 Submandibular nodes | 17 Splenius capitis | 26 Scalenus anterior, Anterior scalene |
| 9 Facial nodes | 18 Occipital nodes | |



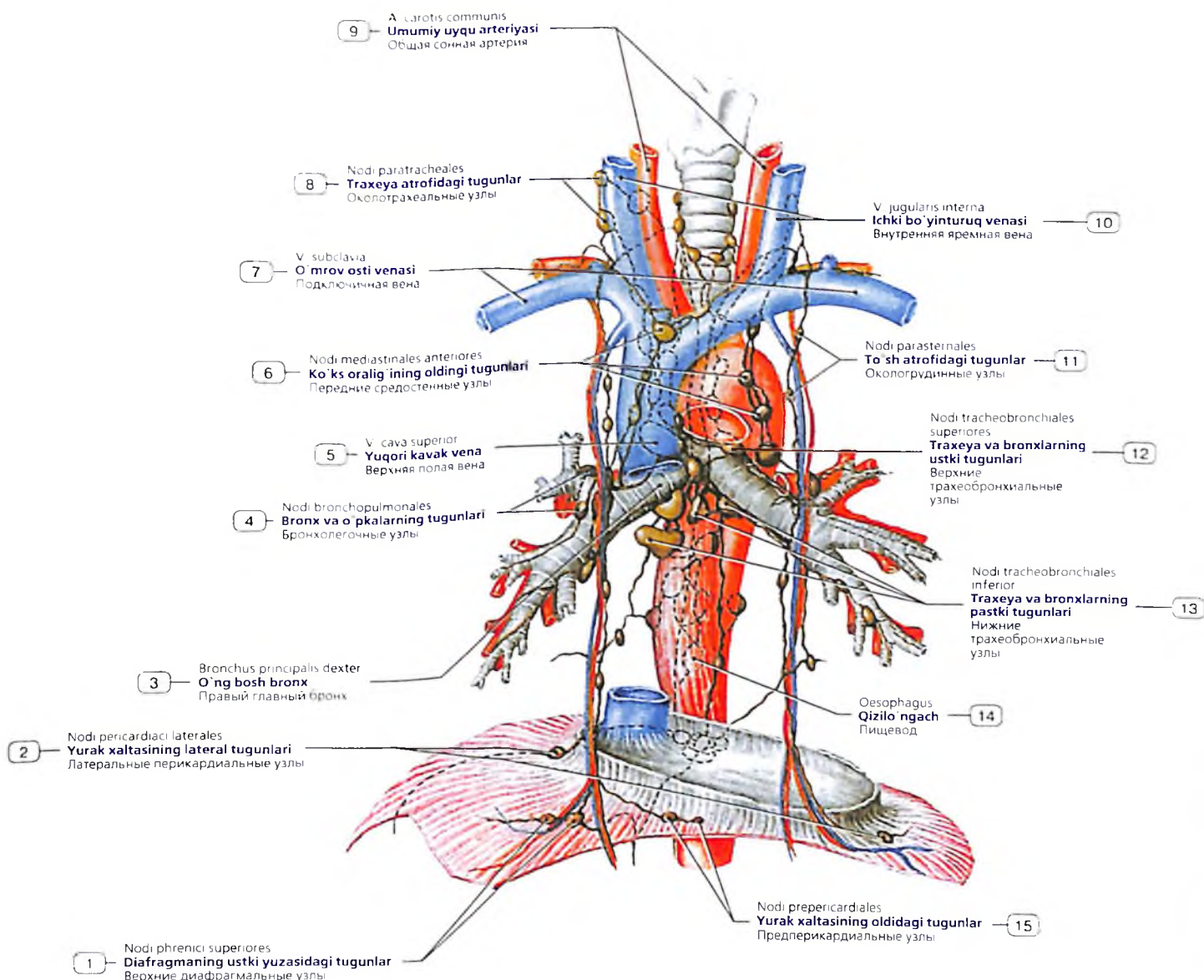
Rasm № 604. Boshning yuza limfa tugunlari, limfa oqimi yo'nalishi chiziqlar bilan ko'rsatilgan.
Рисунок № 604. Поверхностные лимфатические узлы головы, стрелками указано направление тока лимфы.

- 1 Lateral cervical nodes
- 2 Lymph nodes of head and neck, deep nodes
- 3 Mastoid nodes
- 4 Occipital nodes
- 5 Superficial parotid nodes
- 6 Buccinator node
- 7 Facial nodes
- 8 Submandibular nodes
- 9 Lymph nodes of head and neck, medial nodes



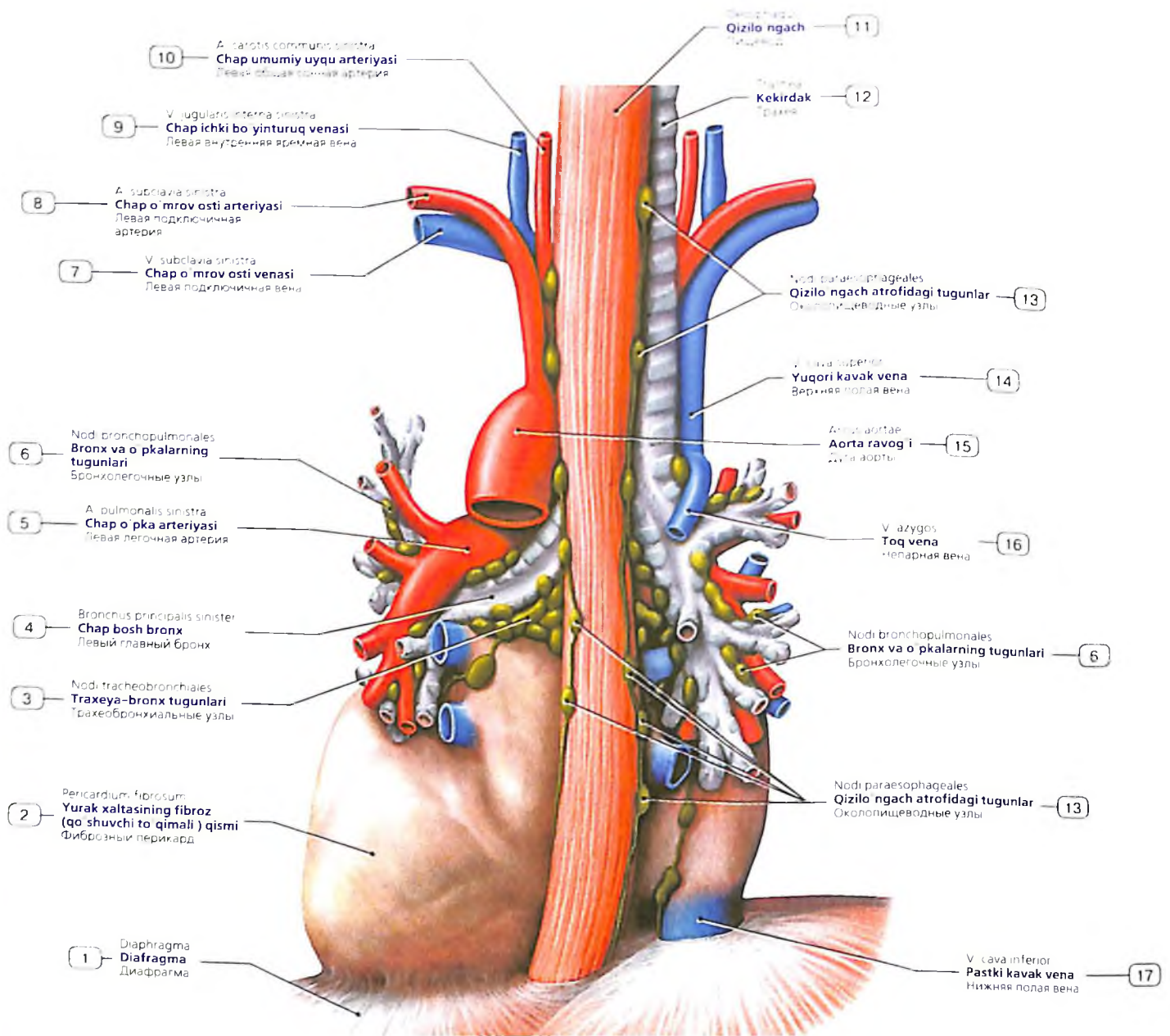
Rasm № 605. Bo'yinning yuza limfa tugunlari, oldindan ko'rinishi.
Рисунок № 605. Поверхностные лимфатические узлы шеи, вид спереди.

- | | | | |
|----------------------------------|--------------------------------|-------------------------------|----------------------------------|
| 1 Thoracic duct | 9 Sternocleidomastoid | 17 Submandibular nodes | 25 Left subclavian artery |
| 2 Pretracheal nodes | 10 Prelaryngeal nodes | 18 Stylohyoid | 26 Left subclavian vein |
| 3 Right bronchomediastinal trunk | 11 Thyroid cartilage | 19 Digastric, posterior belly | 27 Left jugular trunk |
| 4 Right subclavian trunk | 12 Right external jugular vein | 20 Jugulo-digastric node | 28 Left external jugular vein |
| 5 Right subclavian vein | 13 Thyrohyoid | 21 Deep nodes | 29 Left bronchomediastinal trunk |
| 6 Right jugular trunk | 14 Hyoid bone | 22 Jugulo-omohyoid node | |
| 7 Paratracheal nodes | 15 Submental nodes | 23 Left internal jugular vein | |
| 8 Thyroid gland | 16 Digastric, anterior belly | 24 Left jugular trunk | |



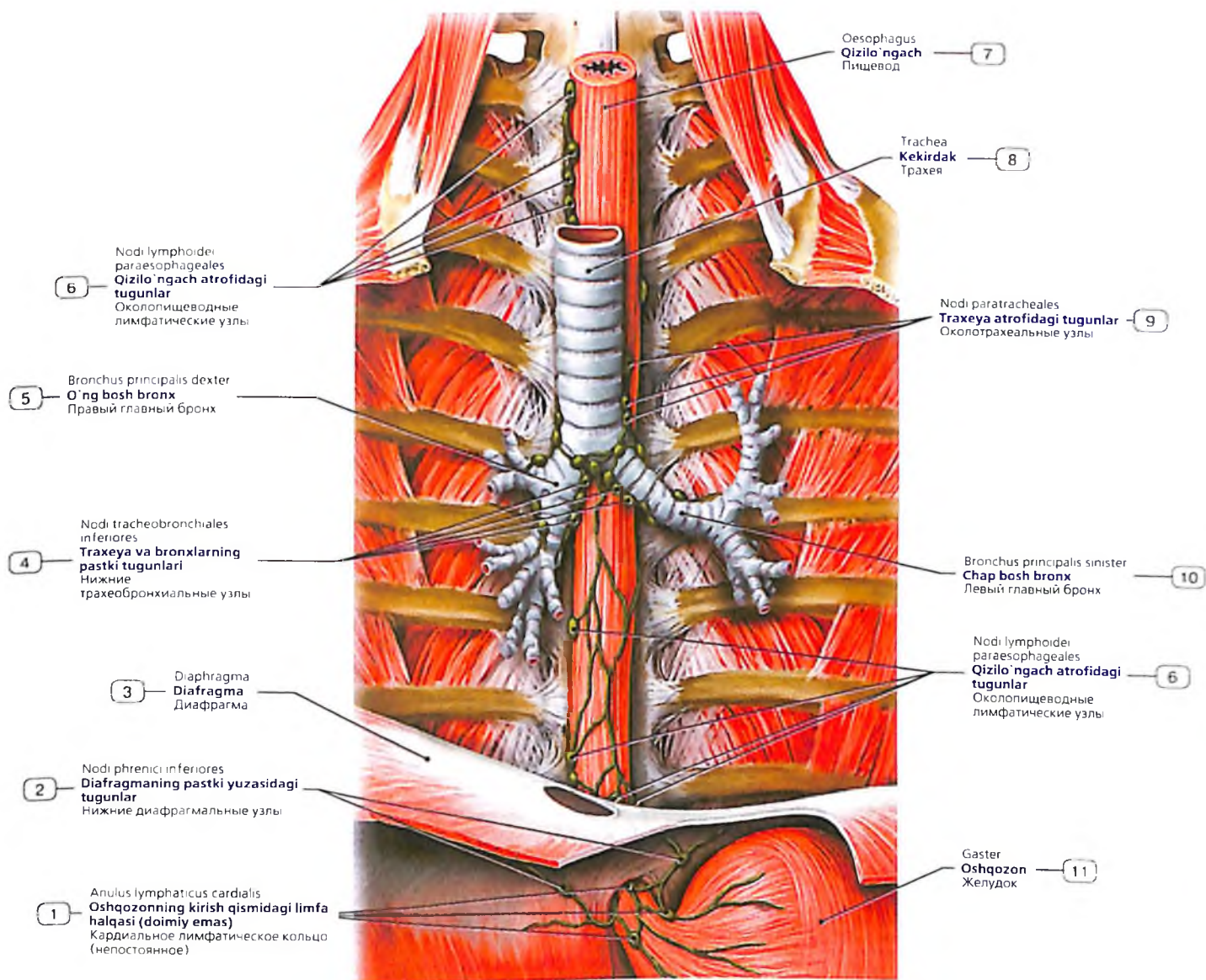
Rasm № 606. Ko'krak qafasining limfa tugunlari, old tomondan ko'rinishi.
Рисунок № 606. Лимфатические узлы грудной полости, вид спереди.

- | | |
|--------------------------------|------------------------------------|
| 1 Superior diaphragmatic nodes | 9 Common carotid artery |
| 2 Lateral pericardial nodes | 10 Internal jugular vein |
| 3 Right main bronchus | 11 Parasternal nodes |
| 4 Bronchopulmonary nodes | 12 Superior tracheobronchial nodes |
| 5 Superior vena cava | 13 Inferior tracheobronchial nodes |
| 6 Anterior mediastinal nodes | 14 Oesophagus |
| 7 Subclavian vein | 15 Prepericardial nodes |
| 8 Paratracheal nodes | |



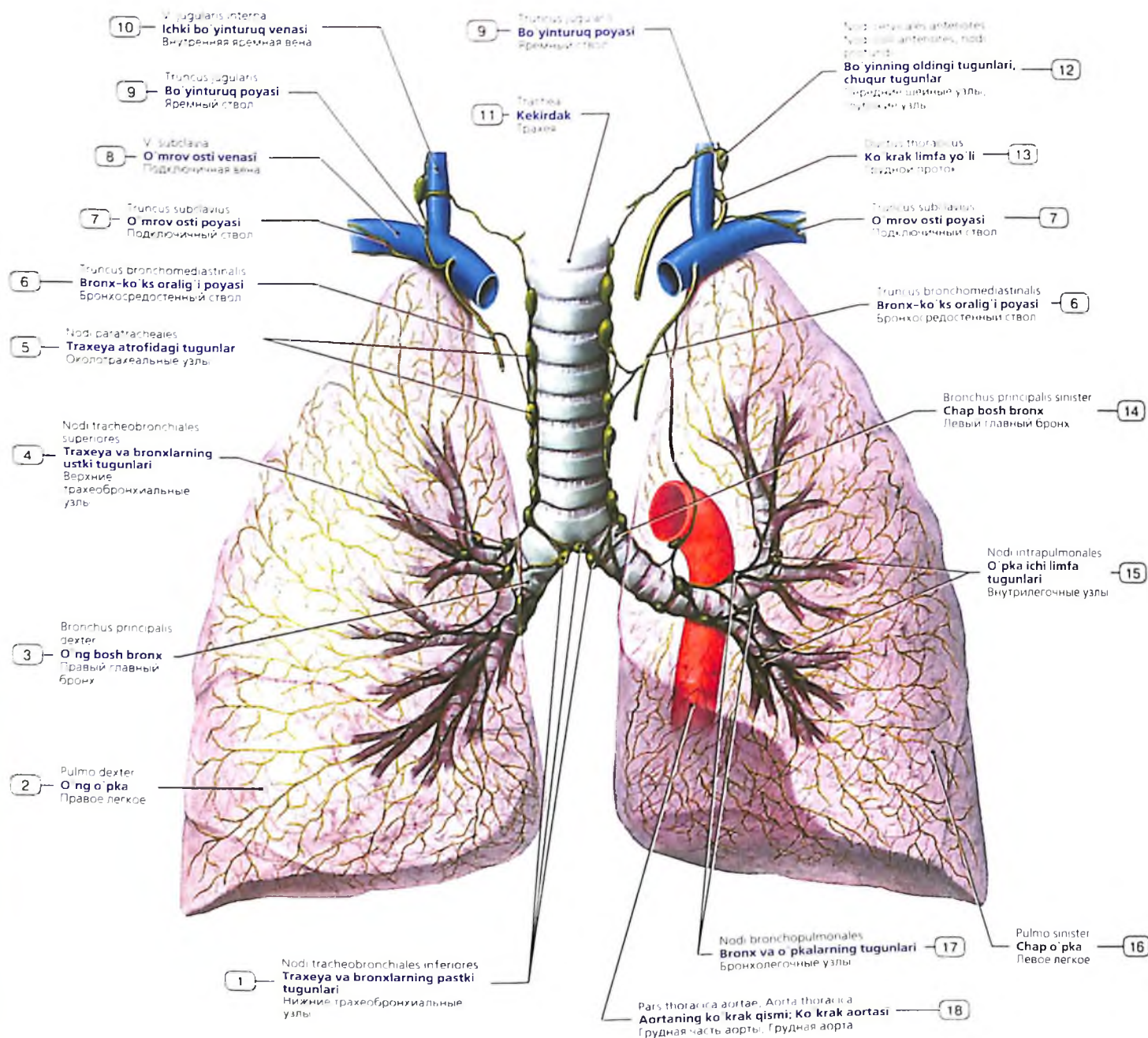
Rasm № 607. Ko'ks oralig'idagi limfa тугунлар, orqa tomondan ko'rinishi.
Рисунок № 607. Лимфатические узлы средостения грудной полости, вид сзади.

- | | |
|------------------------------|-------------------------------|
| 1 Diaphragm | 10 Left common carotid artery |
| 2 Fibrous pericardium | 11 Oesophagus |
| 3 Tracheobronchial nodes | 12 Trachea |
| 4 Left main bronchus | 13 Paraesophageal nodes |
| 5 Left pulmonary artery | 14 Superior vena cava |
| 6 Bronchopulmonary nodes | 15 Arch of aorta, Aortic arch |
| 7 Left subclavian vein | 16 Azygos vein |
| 8 Left subclavian artery | 17 Inferior vena cava |
| 9 Left internal jugular vein | |



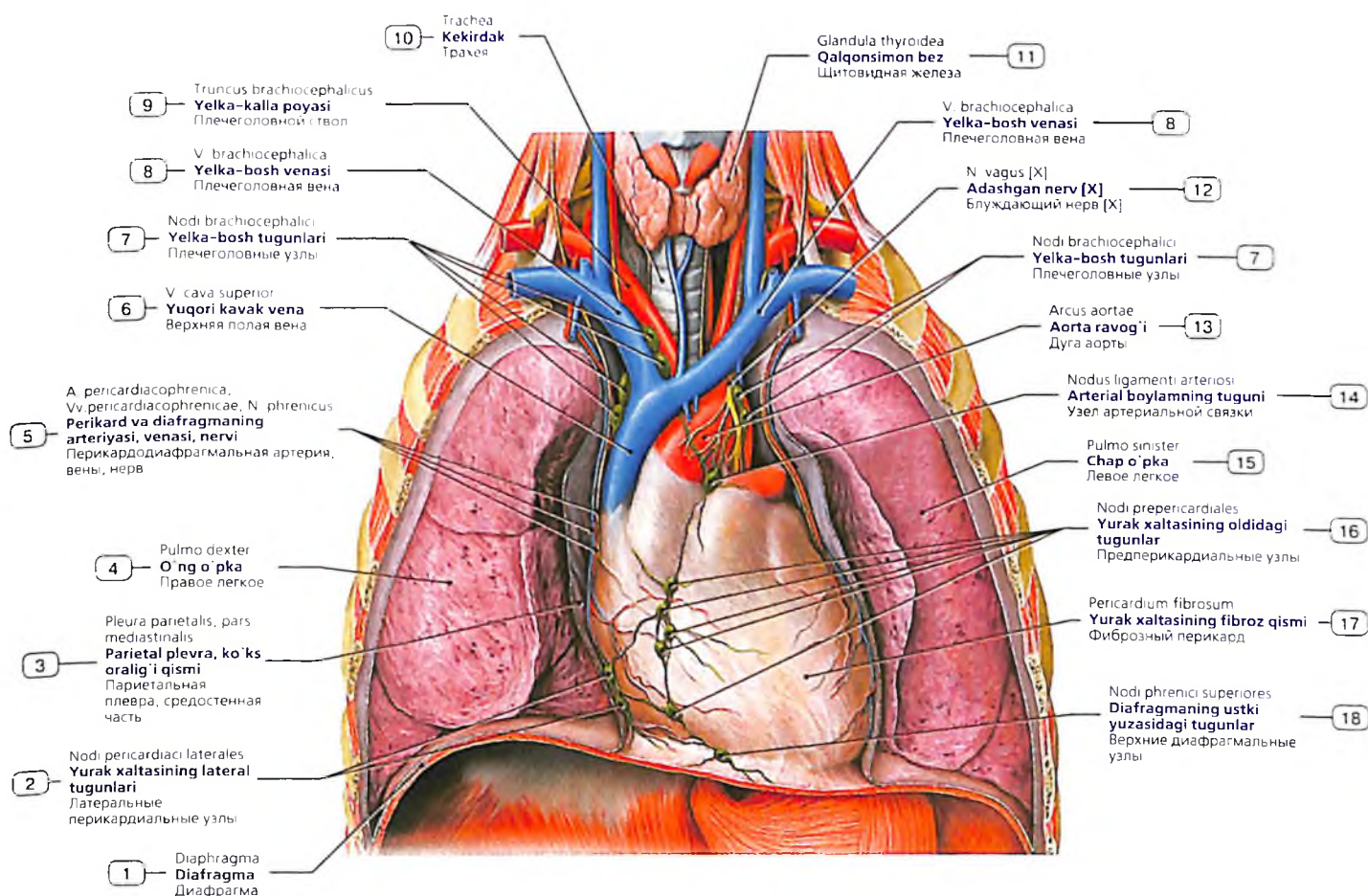
Rasm № 608. Kekirdak va qizilo'ngachning limfa tugunlari, old tomondan ko'rinishi.
Рисунок № 608. Лимфатические узлы трахеи и пищевода, вид спереди.

- | | |
|---------------------------------------|-----------------------|
| 1 Cardial lymphatic ring (inconstant) | 7 Oesophagus |
| 2 Inferior diaphragmatic nodes | 8 Trachea |
| 3 Diaphragm | 9 Paratracheal nodes |
| 4 Inferior tracheobronchial nodes | 10 Left main bronchus |
| 5 Right main bronchus | 11 Stomach |
| 6 Paraesophageal lymph nodes | |



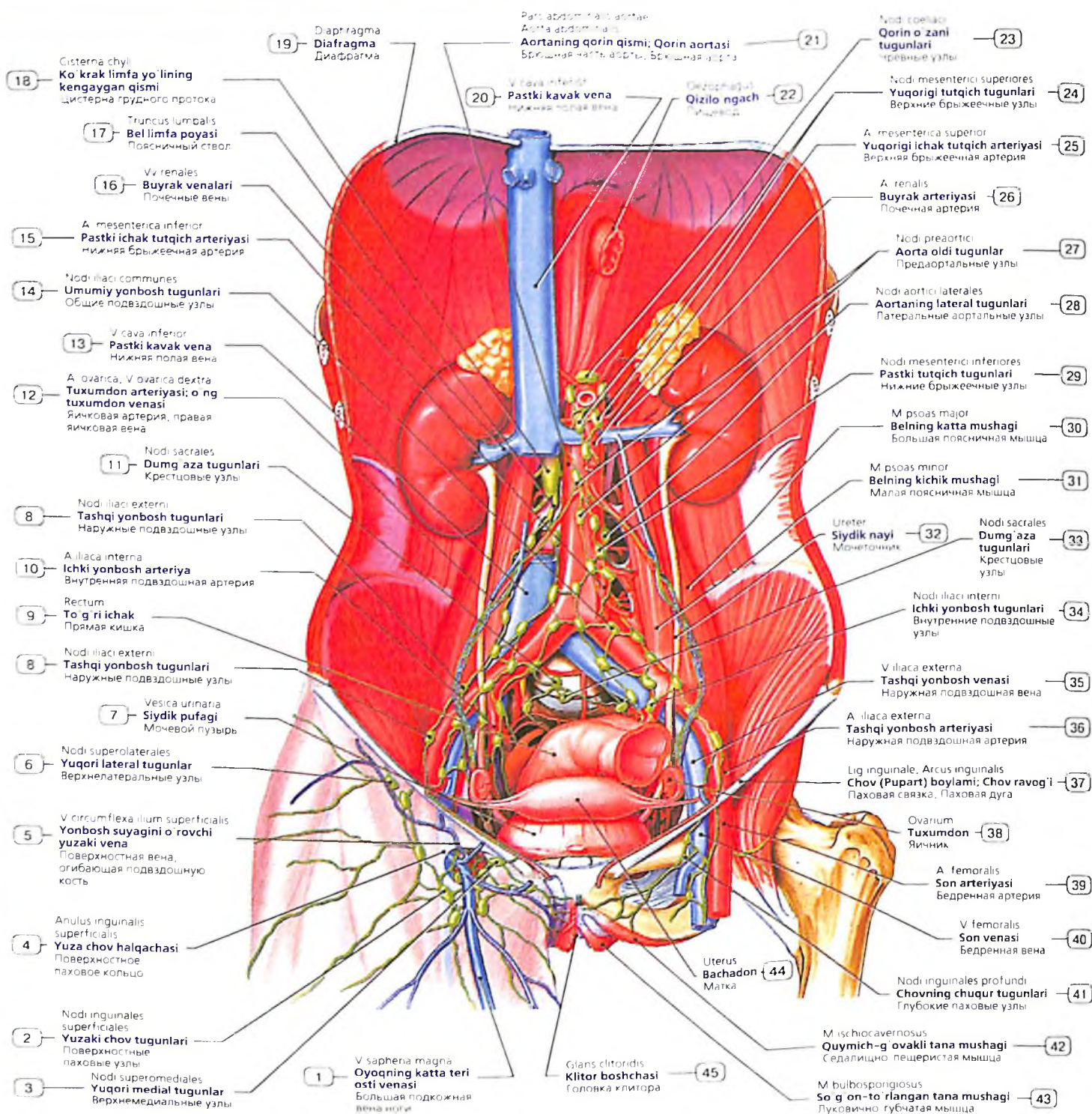
Rasm № 609. Kekirdak va bronxlarning limfa tugunlari.
Рисунок № 609. Лимфатические узлы трахеи и бронхов.

- | | | | |
|---|---------------------------------|----|-------------------------------------|
| 1 | Inferior tracheobronchial nodes | 10 | Internal jugular vein |
| 2 | Right lung | 11 | Trachea |
| 3 | Right main bronchus | 12 | Anterior cervical nodes, deep nodes |
| 4 | Superior tracheobronchial nodes | 13 | Thoracic duct |
| 5 | Paratracheal nodes | 14 | Left main bronchus |
| 6 | Bronchomediastinal trunk | 15 | Intrapulmonary nodes |
| 7 | Subclavian trunk | 16 | Left lung |
| 8 | Subclavian vein | 17 | Bronchopulmonary nodes |
| 9 | Jugular trunk | 18 | Thoracic aorta |



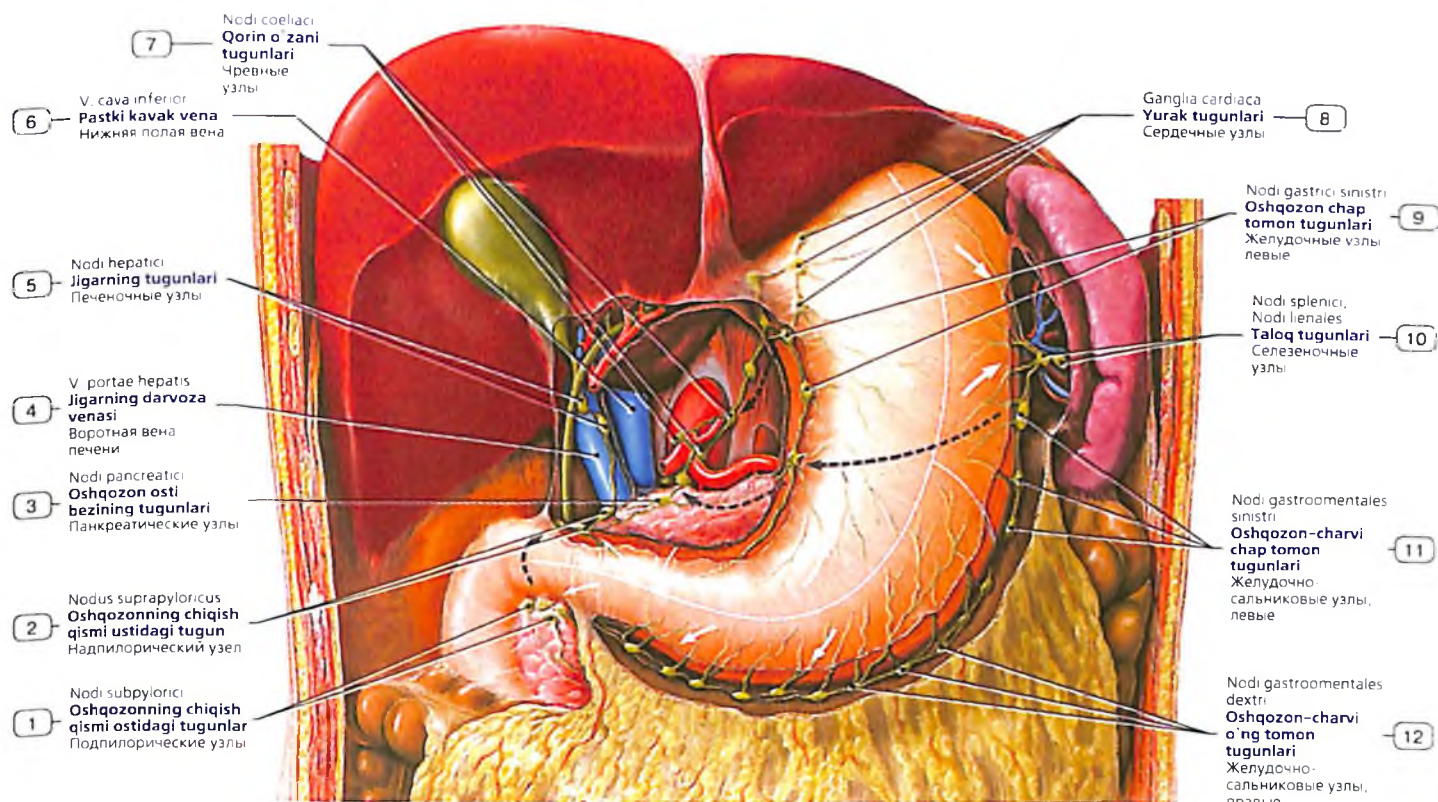
Rasm № 610. Yurak xaltasi limfa tugunlari.
Рисунок № 610. Перикардиальные лимфатические узлы.

- | | |
|--|----------------------------------|
| 1 Diaphragm | 9 Brachiocephalic trunk |
| 2 Lateral pericardial nodes | 10 Trachea |
| 3 Parietal pleura, mediastinal part | 11 Thyroid gland |
| 4 Right lung | 12 Vagus nerve [X] |
| 5 Pericardiophrenic artery, Pericardiophrenic veins, Phrenic nerve | 13 Arch of aorta, Aortic arch |
| 6 Superior vena cava | 14 Node of ligamentum arteriosum |
| 7 Brachiocephalic nodes | 15 Left lung |
| 8 Brachiocephalic vein | 16 Prepericardial nodes |
| | 17 Fibrous pericardium |
| | 18 Superior diaphragmatic nodes |



Rasm №611. Ayollar chanog'i va qorin bo'shligining limfa tugunlari.
Рисунок № 611. Лимфатические узлы таза и брюшной полости женщины.

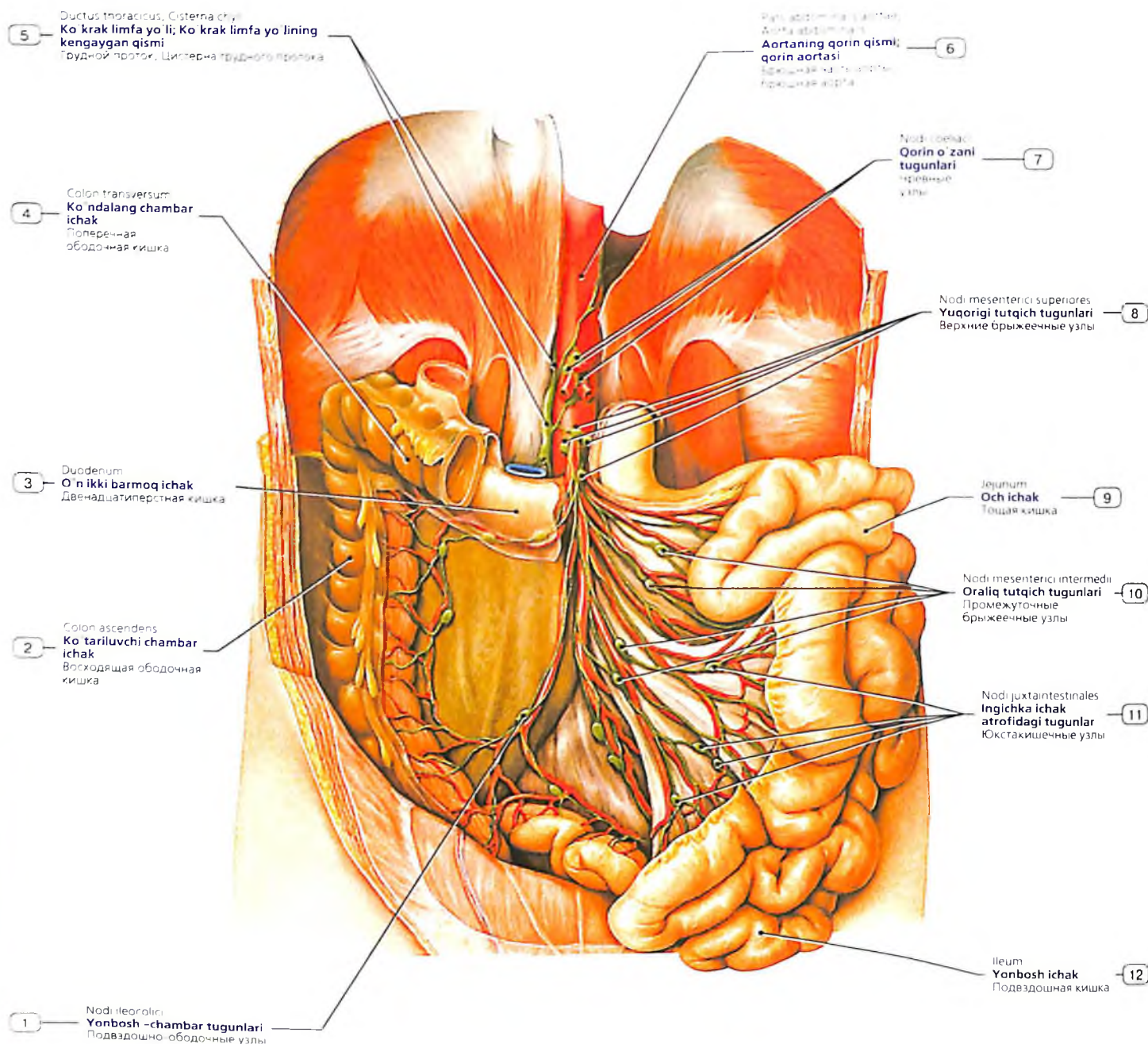
- | | | | |
|-------------------------------------|-------------------------------|-------------------------------|------------------------------|
| 1 Great saphenous vein, | 10 Internal iliac artery | 19 Diaphragm | 29 Inferior mesenteric nodes |
| 2 Superficial inguinal nodes | 11 Sacral nodes | 20 Inferior vena cava | 30 Psoas major |
| 3 Superomedial nodes | 12 Ovarian artery, | 21 Abdominal aorta | 31 Psoas minor |
| 4 Superficial inguinal ring | 13 Right ovarian vein | 22 Oesophagus | 32 Ureter |
| 5 Superficial circumflex iliac vein | 14 Inferior vena cava | 23 Celiac nodes | 33 Sacral nodes |
| 6 Superolateral nodes | 15 Common iliac nodes | 24 Superior mesenteric nodes | 34 Internal iliac nodes |
| 7 Urinary bladder | 16 Inferior mesenteric artery | 25 Superior mesenteric artery | 35 External iliac vein |
| 8 External iliac nodes | 17 Renal veins | 26 Renal artery | 36 External iliac artery |
| 9 Rectum | 18 Lumbar trunk | 27 Preaortic nodes | 37 Inguinal ligament |
| | | 28 Lateral aortic nodes | 38 Ovary |



Rasm № 612. Oshqozon, oshqozon-charvi, jigar va taloqning limfa tugunlari.

Рисунок № 612. Лимфатические узлы желудка, желудочно-сальниковые, печеночные и селезеночные узлы.

- | | | |
|-----------------------|----------------------|-------------------------------|
| 1 Subpyloric nodes | 5 Hepatic nodes | 9 Left gastric nodes |
| 2 Suprapyloric node | 6 Inferior vena cava | 10 Splenic nodes |
| 3 Pancreatic nodes | 7 Coeliac nodes | 11 Left gastro-omental nodes |
| 4 Hepatic portal vein | 8 Cardiac ganglia | 12 Right gastro-omental nodes |

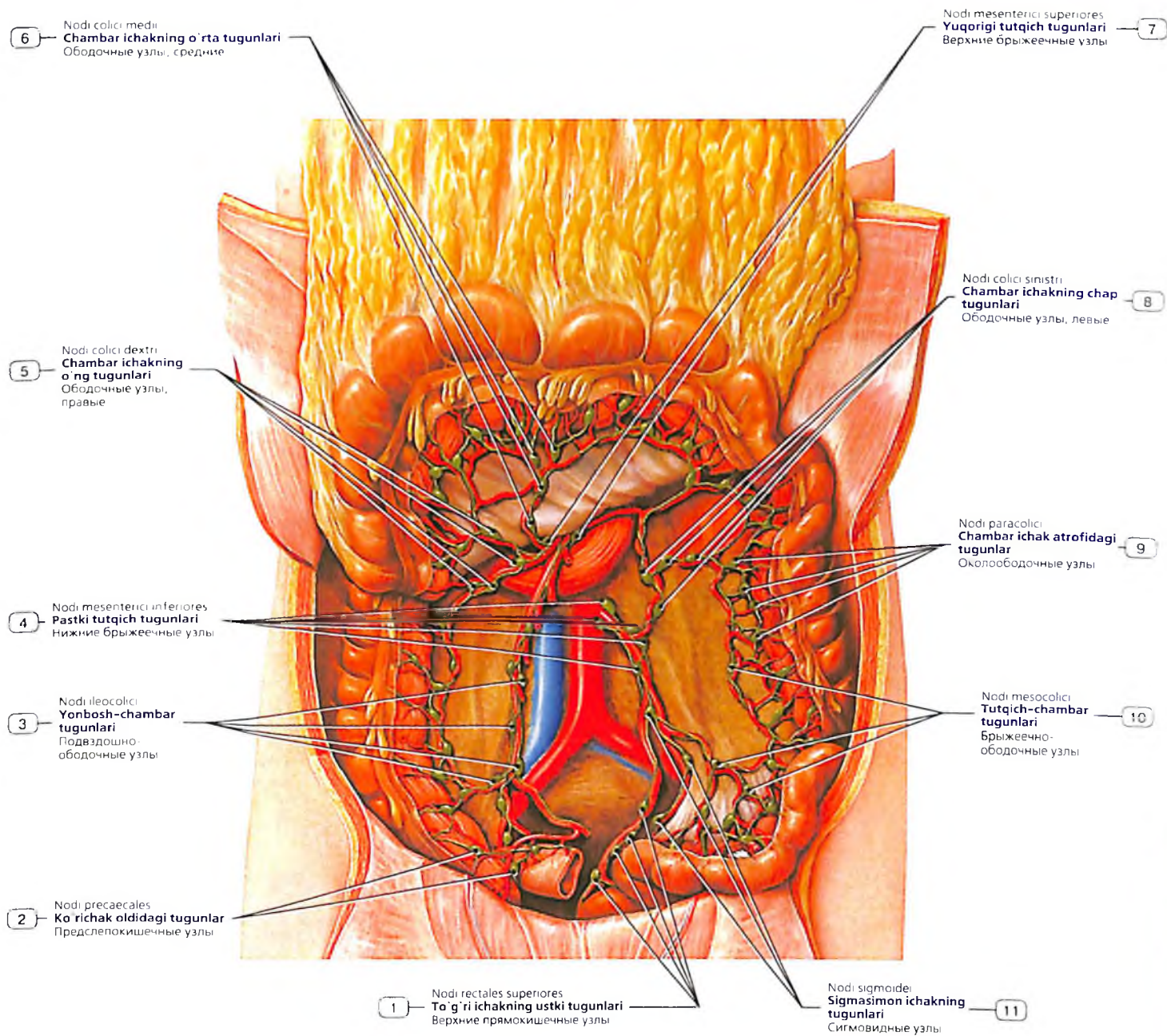


Rasm № 613. Ichak tutqichining limfa tugunlari.
Рисунок № 613. Брыжеечные лимфатические узлы.

1. Ileocolic nodes
2. Ascending colon
3. Duodenum
4. Transverse colon

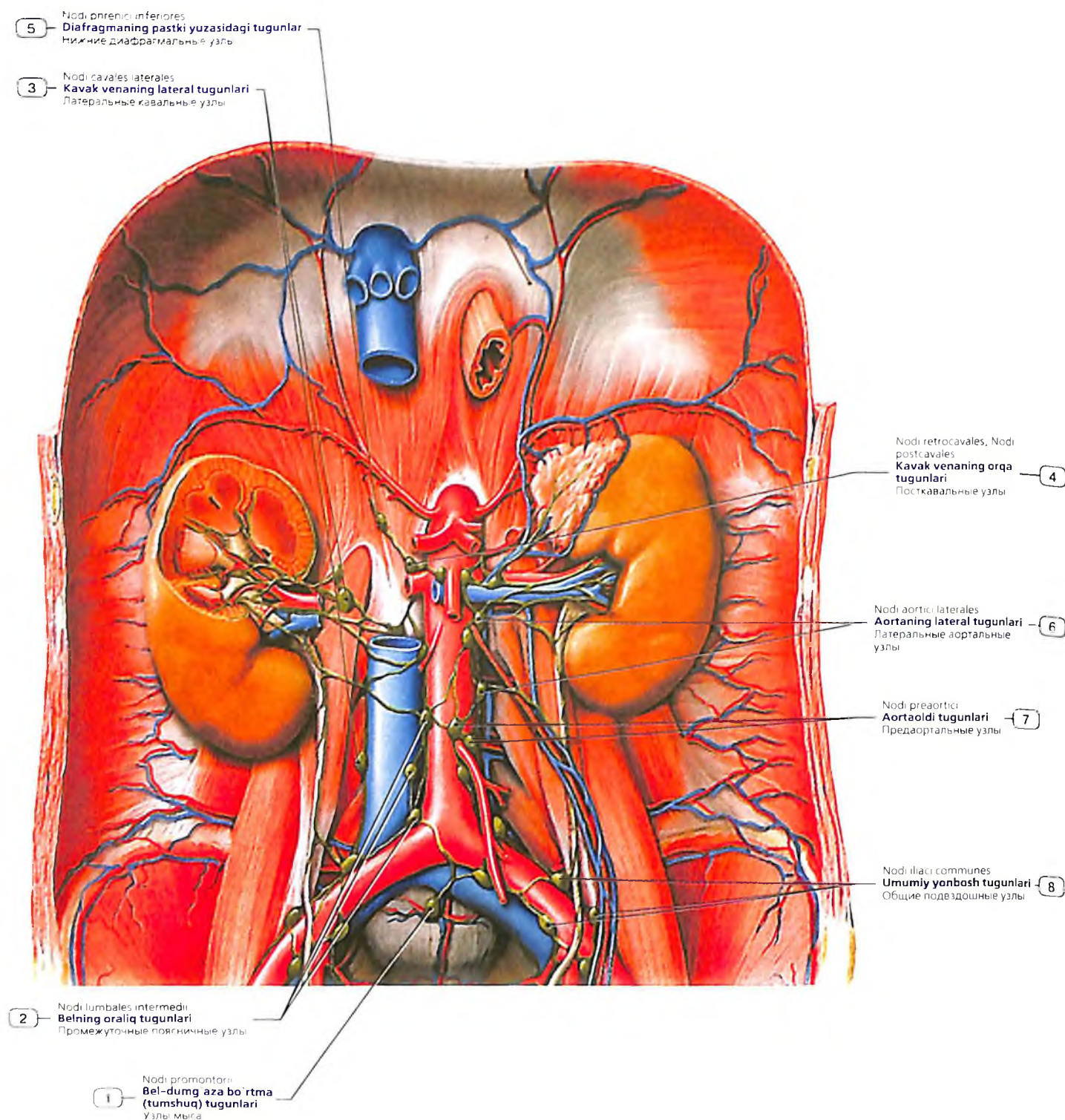
5. Thoracic duct, Cisterna chyli, Chyle cisterni
6. Abdominal aorta
7. Coeliac nodes
8. Superior mesenteric nodes

9. Jejunum
10. Intermediate mesenteric nodes
11. Juxta-intestinal mesenteric nodes
12. Ileum



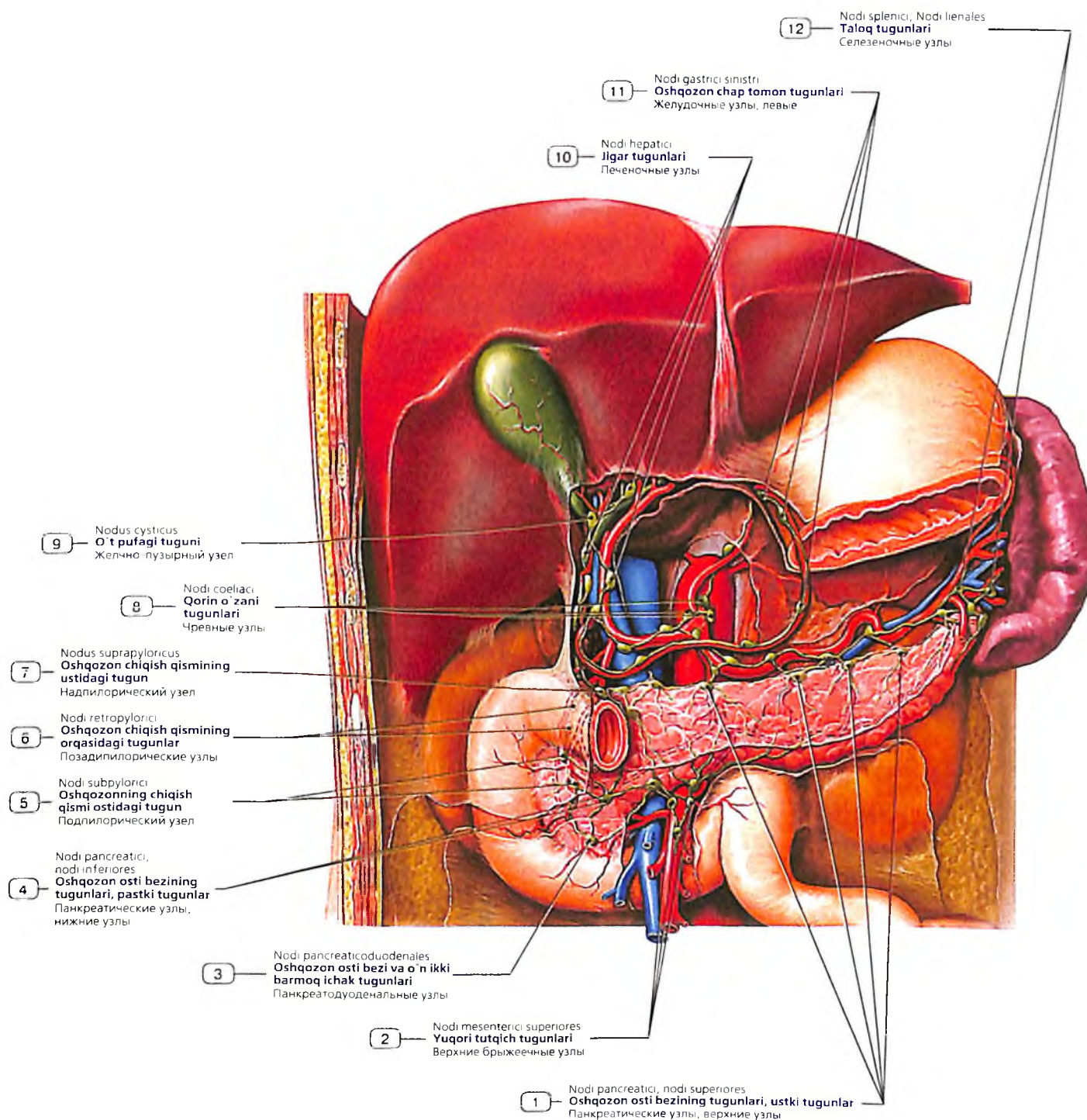
Rasm № 614. Chambar-ichak limfa tugunlari.
Рисунок № 614. Ободочно-кишечные лимфатические узлы.

- | | | |
|-----------------------------|-----------------------------|--------------------|
| 1 Superior rectal nodes | 5 Right colic nodes | 9 Paracolic nodes |
| 2 Precaecal nodes | 6 Middle colic nodes | 10 Mesocolic nodes |
| 3 Ileocolic nodes | 7 Superior mesenteric nodes | 11 Sigmoid nodes |
| 4 Inferior mesenteric nodes | 8 Left colic nodes | |



Rasm № 615. Buyrak, buyrak usti va siydik nayining limfa tugunlari.
Рисунок № 615. Почечные, надпочечниковые и мочеточниковые лимфатические узлы

- | | |
|-----------------------------|--------------------------------|
| 1 Promontorial nodes | 5 Inferior diaphragmatic nodes |
| 2 Intermediate lumbar nodes | 6 Lateral aortic nodes |
| 3 Lateral caval nodes | 7 Pre-aortic nodes |
| 4 Postcaval nodes | 8 Common iliac nodes |



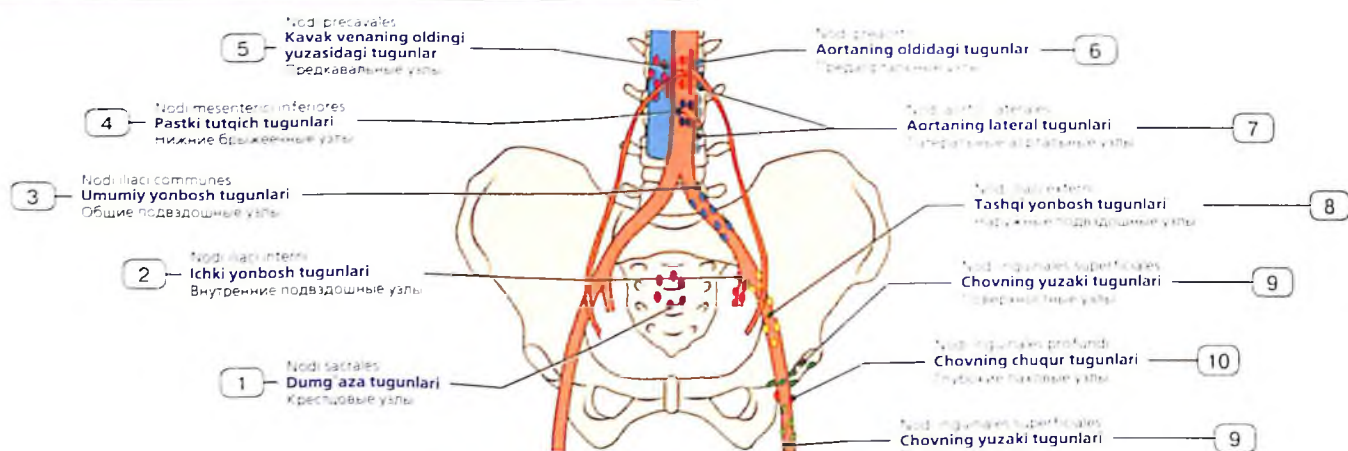
Rasm № 616. Oshqozon osti, taloq va o'n ikki barmoq ichakning limfa tugunlari.
Рисунок № 616. Поджелудочные, селезеночные и двенадцатиперстные лимфатические узлы.

1 Pancreatic nodes, superior nodes
2 Superior mesenteric nodes
3 Pancreaticoduodenal nodes

4 Pancreatic nodes, inferior nodes
5 Subpyloric nodes
6 Retropyloric nodes

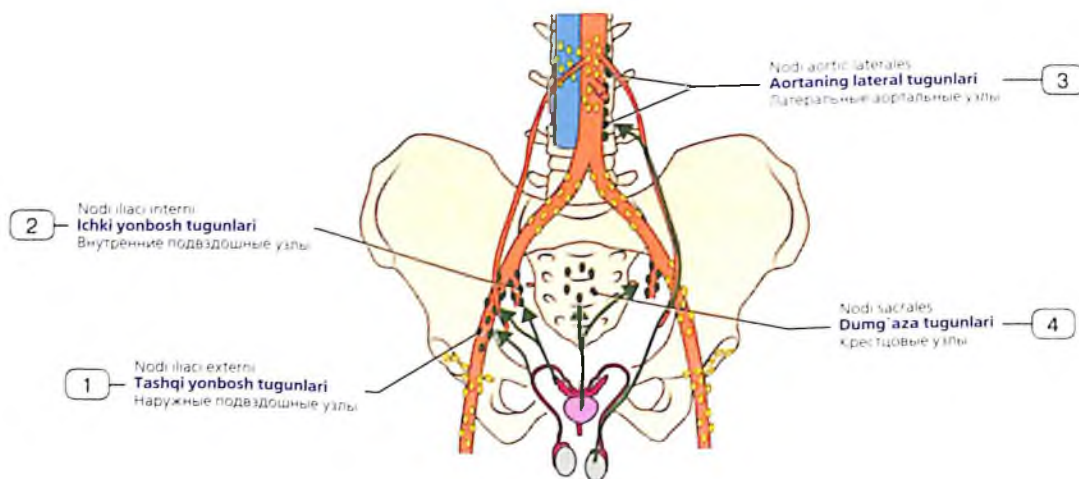
7 Suprapyloric node
8 Coeliac nodes
9 Cystic node

10 Hepatic nodes
11 Left gastric nodes
12 Splenic nodes



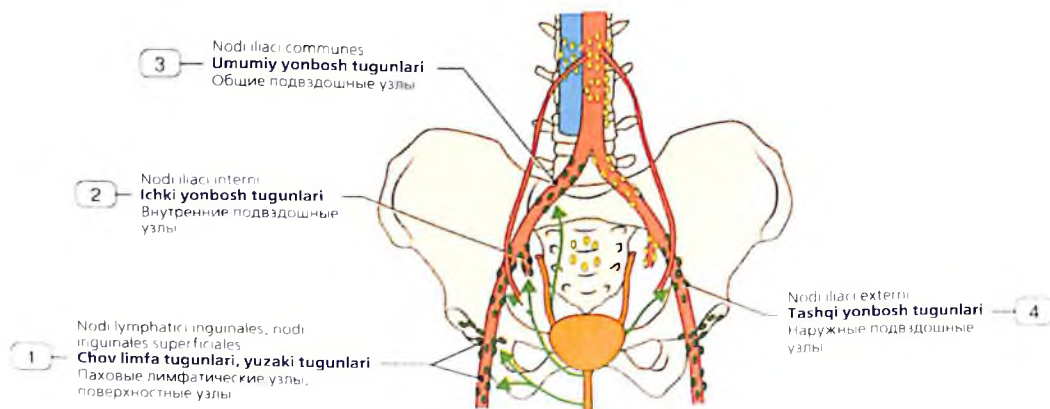
Rasm № 617. Chanoq limfa tugunlarning joylashuvi.
Рисунок № 617. Расположение тазовых лимфатических узлов.

- | | | | | |
|------------------------|-----------------------------|-------------------|------------------------|------------------------------|
| 1 Sacral nodes | 3 Common iliac nodes | 5 Precaval nodes | 7 Lateral aortic nodes | 9 Superficial inguinal nodes |
| 2 Internal iliac nodes | 4 Inferior mesenteric nodes | 6 Preaortic nodes | 8 External iliac nodes | 10 Deep inguinal nodes |



Rasm № 618. Erkaklar jinsiy aʼzolaridan limfa oqimi yoʻnalishi
Рисунок № 618. Отток лимфы от мужских половых органов.

- | | | | |
|------------------------|------------------------|------------------------|----------------|
| 1 External iliac nodes | 2 Internal iliac nodes | 3 Lateral aortic nodes | 4 Sacral nodes |
|------------------------|------------------------|------------------------|----------------|

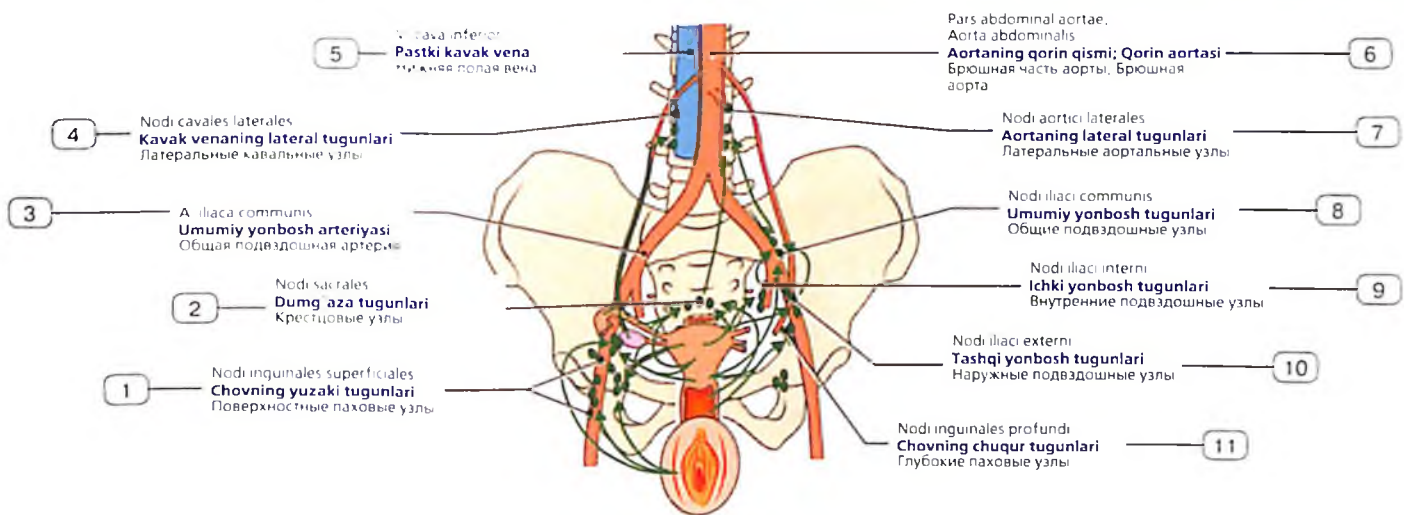


Rasm № 619. Siydik qopi va siydik chiqarish yoʻli limfa quyilishi.
Рисунок № 619. Отток лимфы от мочевого пузыря и мочеиспускательного канала.

- | | | |
|--|------------------------|------------------------|
| 1 Inguinal lymph nodes, superficial inguinal nodes | 2 Internal iliac nodes | 4 External iliac nodes |
| | 3 Common iliac nodes | |

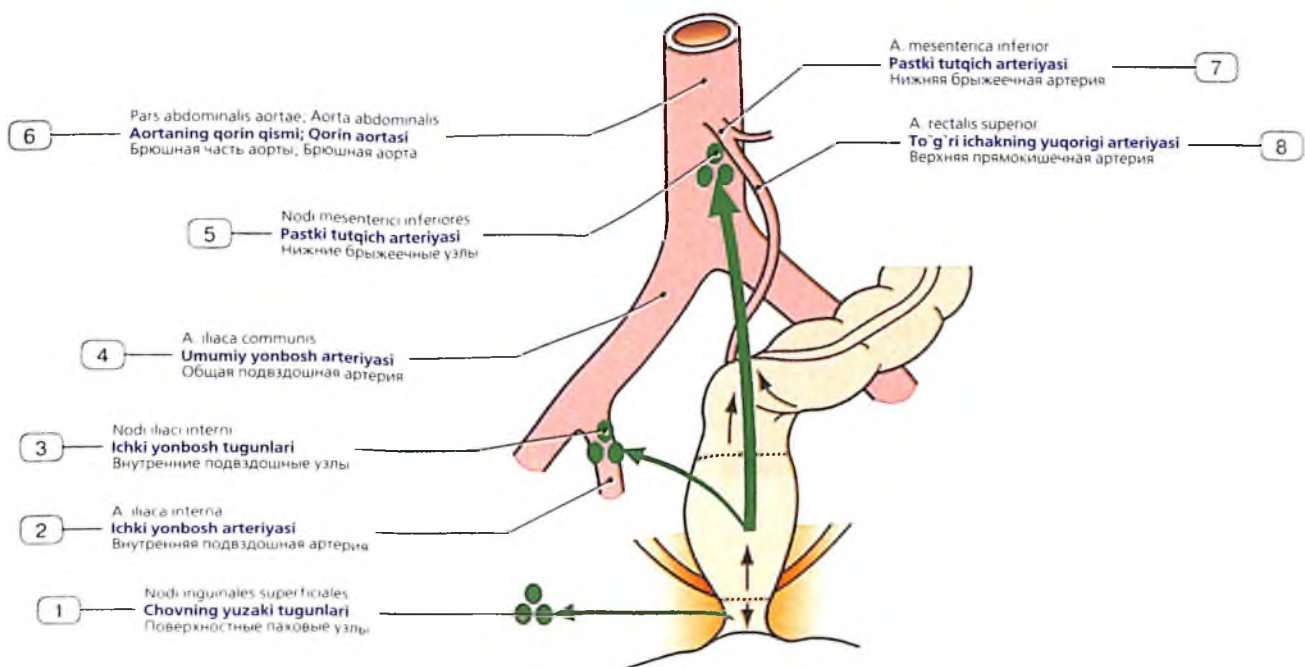
LIMFA TOMIRLARI, POYALAR VA YO'LLAR

YURAK QON-TOMIR TIZIMI



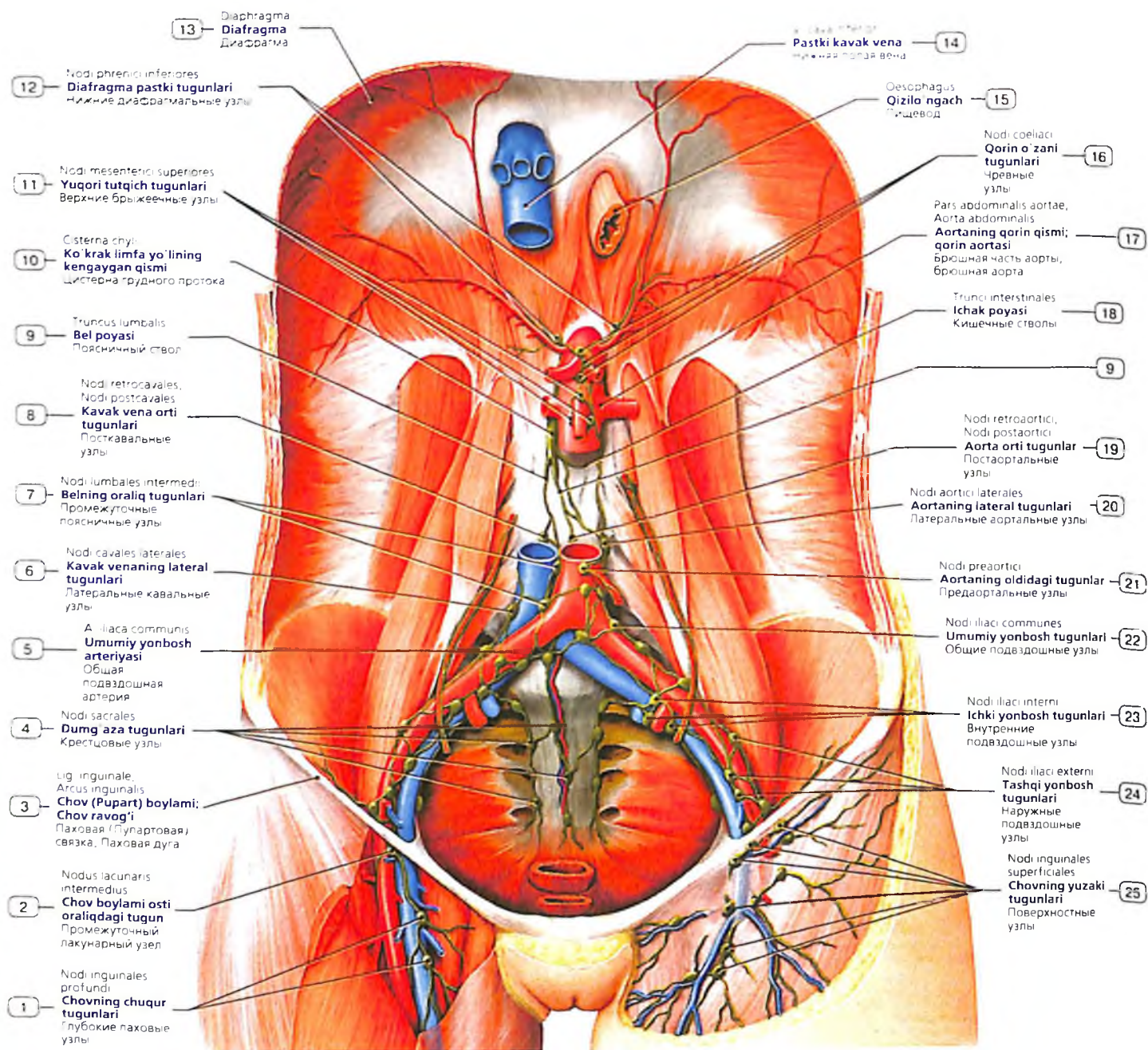
Rasm № 620. Ayollar jinsiy aʼzolaridan limfa oqimi yoʻnalishi.
Рисунок № 620. Отток лимфы от женских половых органов.

- | | | |
|------------------------------|------------------------|-------------------------|
| 1 Superficial inguinal nodes | 5 Inferior vena cava | 9 Internal iliac nodes |
| 2 Sacral nodes | 6 Abdominal aorta | 10 External iliac nodes |
| 3 Common iliac artery | 7 Lateral aortic nodes | 11 Deep inguinal nodes |
| 4 Lateral caval nodes | 8 Common iliac nodes | |



Rasm № 621. Toʻgʻri ichakdagi limfa oqimi yoʻnalishi.
Рисунок № 621. Отток лимфы от прямой кишки.

- | | | | |
|------------------------------|------------------------|-----------------------------|------------------------------|
| 1 Superficial inguinal nodes | 3 Internal iliac nodes | 5 Inferior mesenteric nodes | 7 Inferior mesenteric artery |
| 2 Internal iliac artery | 4 Common iliac artery | 6 Abdominal aorta | 8 Superior rectal artery |

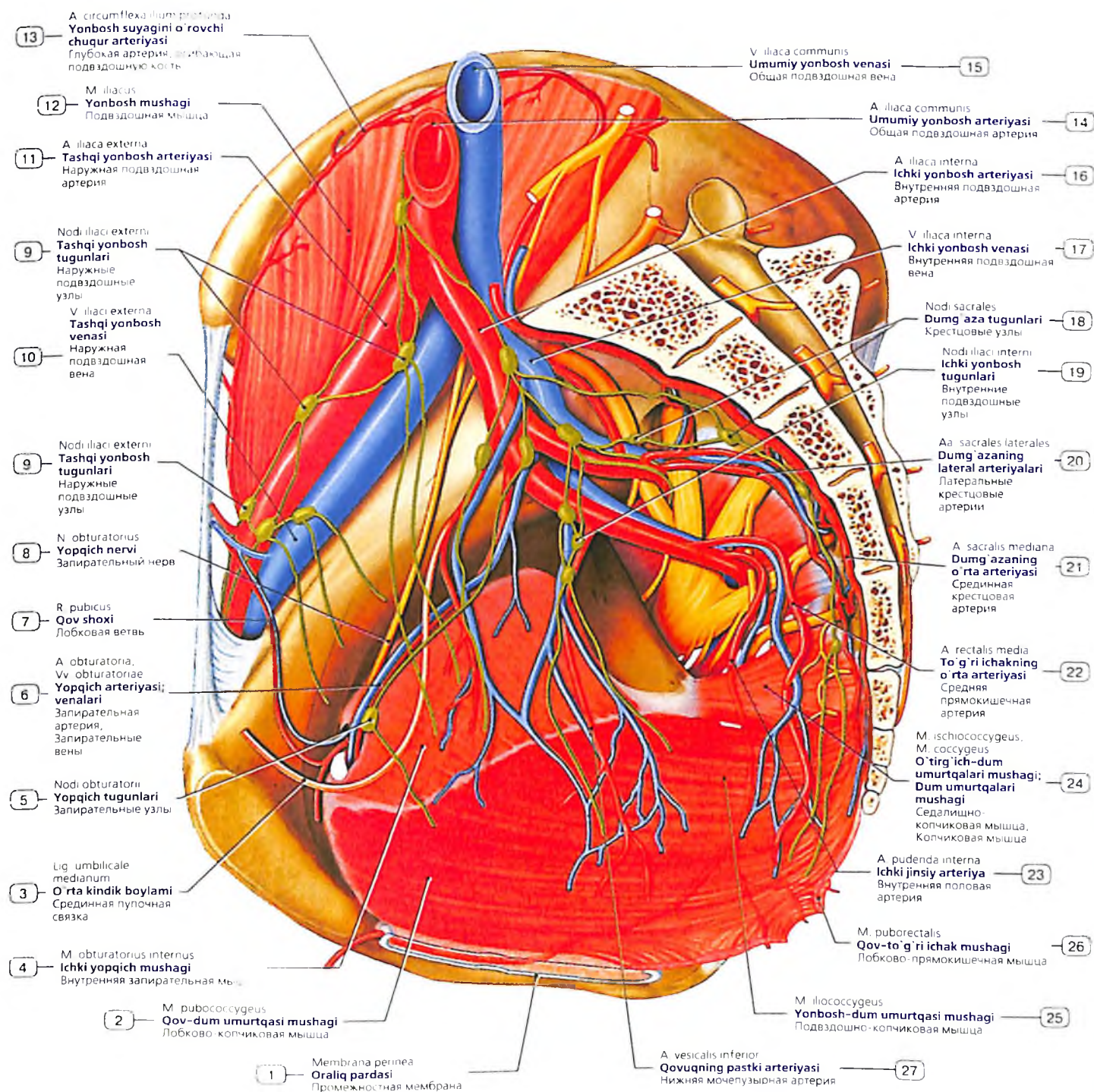


Рисунки № 622. Паховые, подвздошные и поясничные лимфатические узлы.
Rasm № 622. Chov, yonbosh va bel limfa tugunlari.

- | | | |
|-----------------------------|----------------------------------|-------------------------------|
| 1 Deep inguinal nodes | 10 Cisterna chyli, Chyle cistern | 19 Post-aortic nodes |
| 2 Intermediate iliac node | 11 Superior mesenteric nodes | 20 Lateral aortic nodes |
| 3 Inguinal ligament | 12 Inferior diaphragmatic nodes | 21 Pre-aortic nodes |
| 4 Sacral nodes | 13 Diaphragm | 22 Common iliac nodes |
| 5 Common iliac artery | 14 Inferior vena cava | 23 Internal iliac nodes |
| 6 Lateral caval nodes | 15 Oesophagus | 24 External iliac nodes |
| 7 Intermediate lumbar nodes | 16 Coeliac nodes | 25 Superficial inguinal nodes |
| 8 Post-caval nodes | 17 Abdominal aorta | |
| 9 Lumbar trunk | 18 Intestinal trunk | |

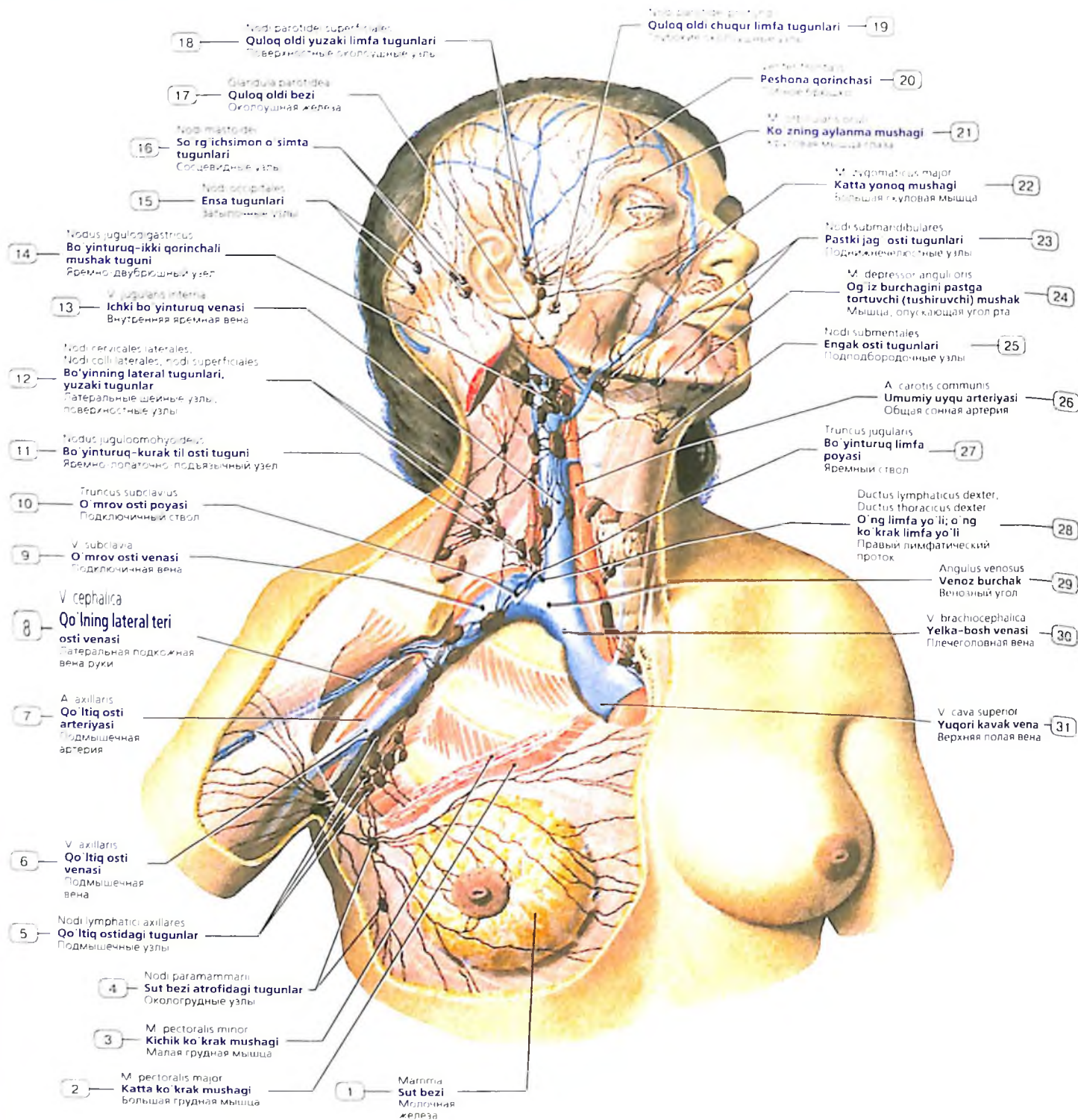
LIMFA TOMIRLARI, POYALAR VA YO'LLAR

YURAK QON-TOMIR TIZIMI



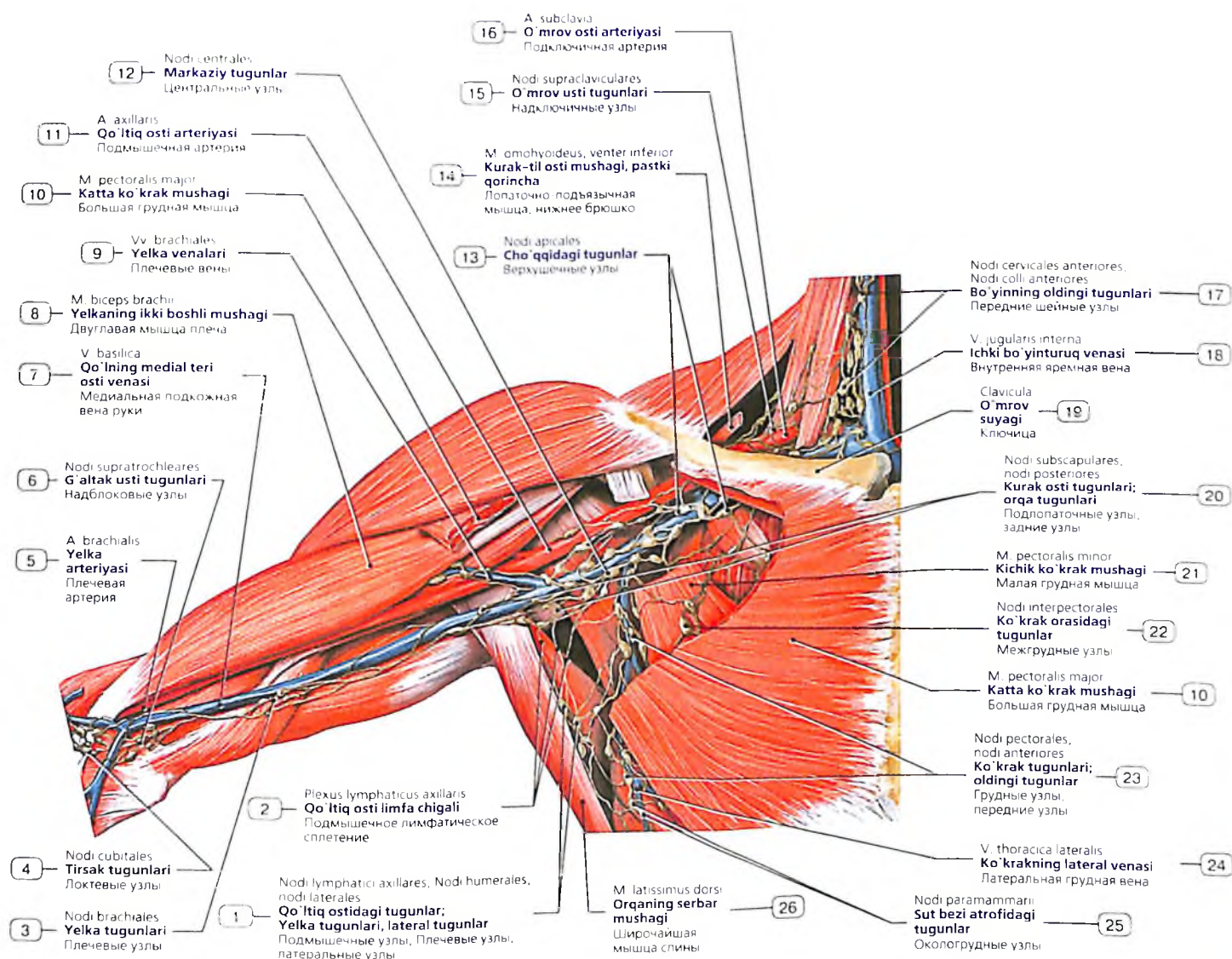
Rasm № 623. Chanoq limfa tomirlari va tugunlari, sagittal kesimda, ichki chap tomondan ko'rinishi.
Рисунок № 623. Лимфатические сосуды и узлы таза, сагиттальный разрез, вид изнутри, слева.

- | | | | |
|-------------------------------------|---------------------------------|----------------------------|-------------------------------|
| 1 Perineal membrane | 8 Obturator nerve | 15 Common iliac vein | 22 Middle rectal artery |
| 2 Pubococcygeus | 9 External iliac nodes | 16 Internal iliac artery | 23 Internal pudendal artery |
| 3 Median umbilical ligament | 10 External iliac vein | 17 Internal iliac vein | 24 Ischiococcygeus, Coccygeus |
| 4 Obturator internus | 11 External iliac artery | 18 Sacral nodes | 25 Iliococcygeus |
| 5 Obturator nodes | 12 Iliacus | 19 Internal iliac nodes | 26 Puborectalis |
| 6 Obturator artery, Obturator veins | 13 Deep circumflex iliac artery | 20 Lateral sacral arteries | 27 Inferior vesical artery |
| 7 Pubic branch | 14 Common iliac artery | | |



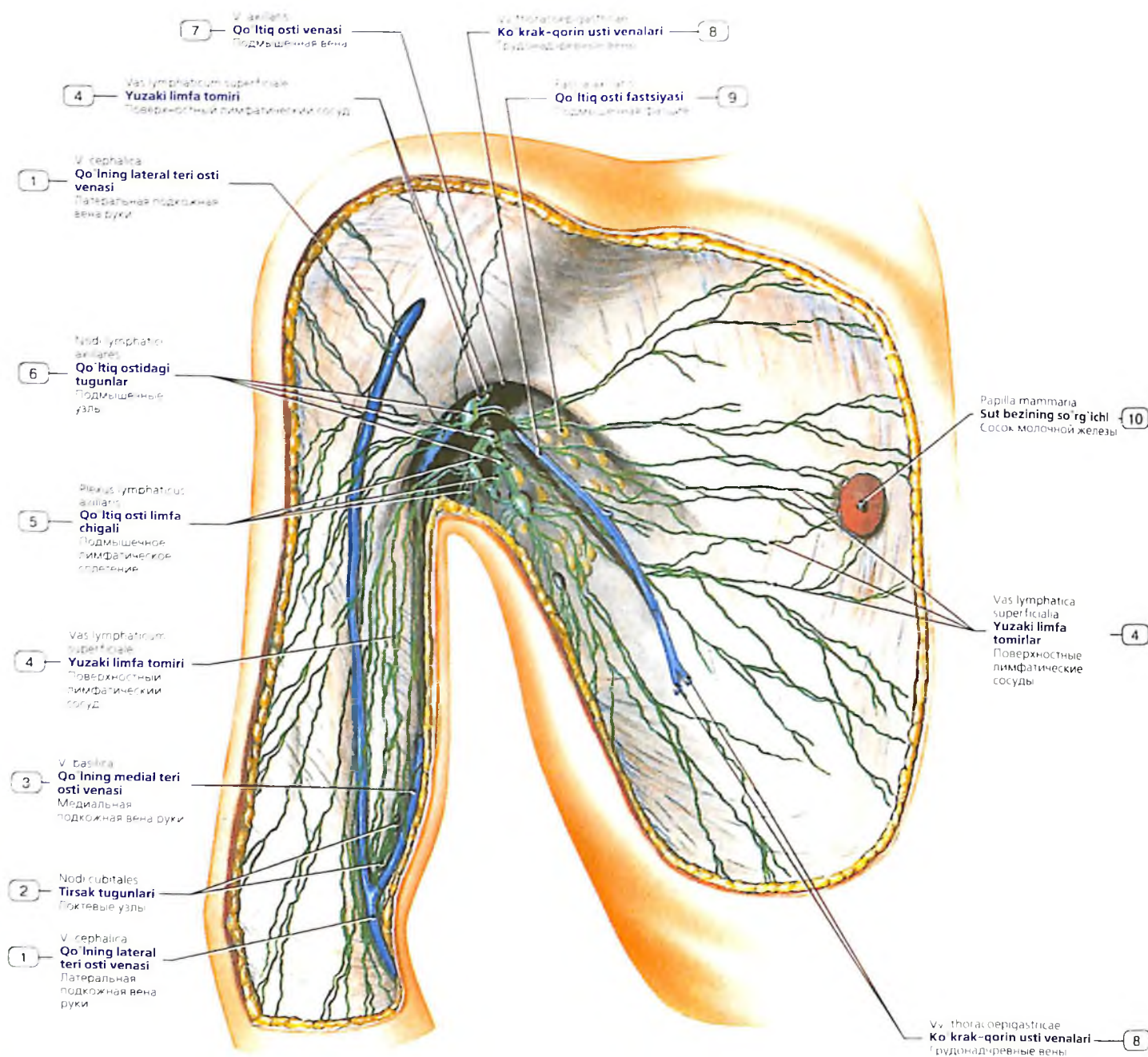
Rasm № 624. Ayollar sut bezi, bosh va bo'yin sohalari limfa tugunlari.
Рисунок № 624. Лимфатические узлы молочной железы, шеи и головы женщины.

- | | | | |
|------------------------|--|------------------------------|--------------------------|
| 1 Breast | 9 Subclavian vein | 17 Parotid gland | 25 Submental nodes |
| 2 Pectoralis major | 10 Subclavian trunk | 18 Superficial parotid nodes | 26 Common carotid artery |
| 3 Pectoralis minor | 11 Jugulo-omohyoid node | 19 Deep parotid nodes | 27 Jugular trunk |
| 4 Paramammary nodes | 12 Lateral cervical nodes, superficial nodes | 20 Frontal belly | 28 Right lymphatic duct |
| 5 Axillary lymph nodes | 13 Internal jugular vein | 21 Orbicularis oculi | 29 Right thoracic duct |
| 6 Axillary vein | 14 Jugulo-digastric node | 22 Zygomaticus major | 30 venous angle |
| 7 Axillary artery | 15 Occipital nodes | 23 Submandibular nodes | 31 Brachiocephalic vein |
| 8 Cephalic vein | 16 Mastoid nodes | 24 Depressor anguli oris | 31 Superior vena cava |



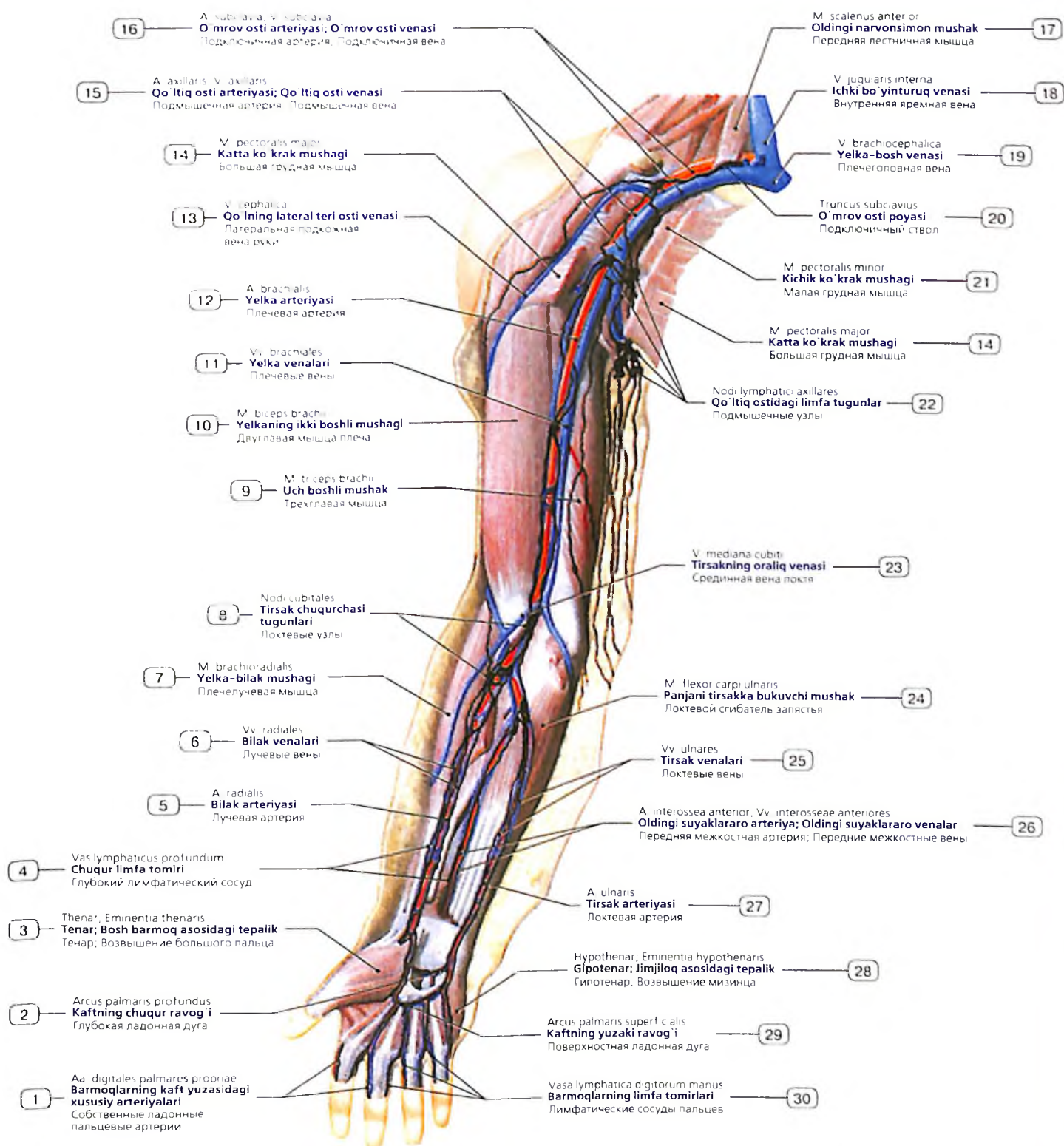
Rasm № 625. Bo'yin va qo'ltiq ostidagi chuqur limfa tugunlari, o'ng tomon.
Рисунок № 625. Глубокие лимфатические узлы шеи и подмышечной ямки, правой.

- | | | | |
|--|---------------------|---------------------------------------|-----------------------------------|
| 1 Axillary lymph nodes, Humeral nodes, lateral nodes | 7 Basilic vein | 14 Omohyoid, inferior belly | 21 Pectoralis minor |
| 2 Axillary lymphatic plexus | 8 Biceps brachii | 15 Supraclavicular nodes | 22 Interpectoral nodes |
| 3 Brachial nodes | 9 Brachial veins | 16 Subclavian artery | 23 Pectoral nodes, anterior nodes |
| 4 Cubital nodes | 10 Pectoralis major | 17 Anterior cervical nodes | 24 Lateral thoracic vein |
| 5 Brachial artery | 11 Axillary artery | 18 Internal jugular vein | 25 Paramammary nodes |
| 6 Supratrochlear nodes | 12 Central nodes | 19 Clavicle | 26 Latissimus dorsi |
| | 13 Apical nodes | | |
| | | 20 Subscapular nodes, posterior nodes | |



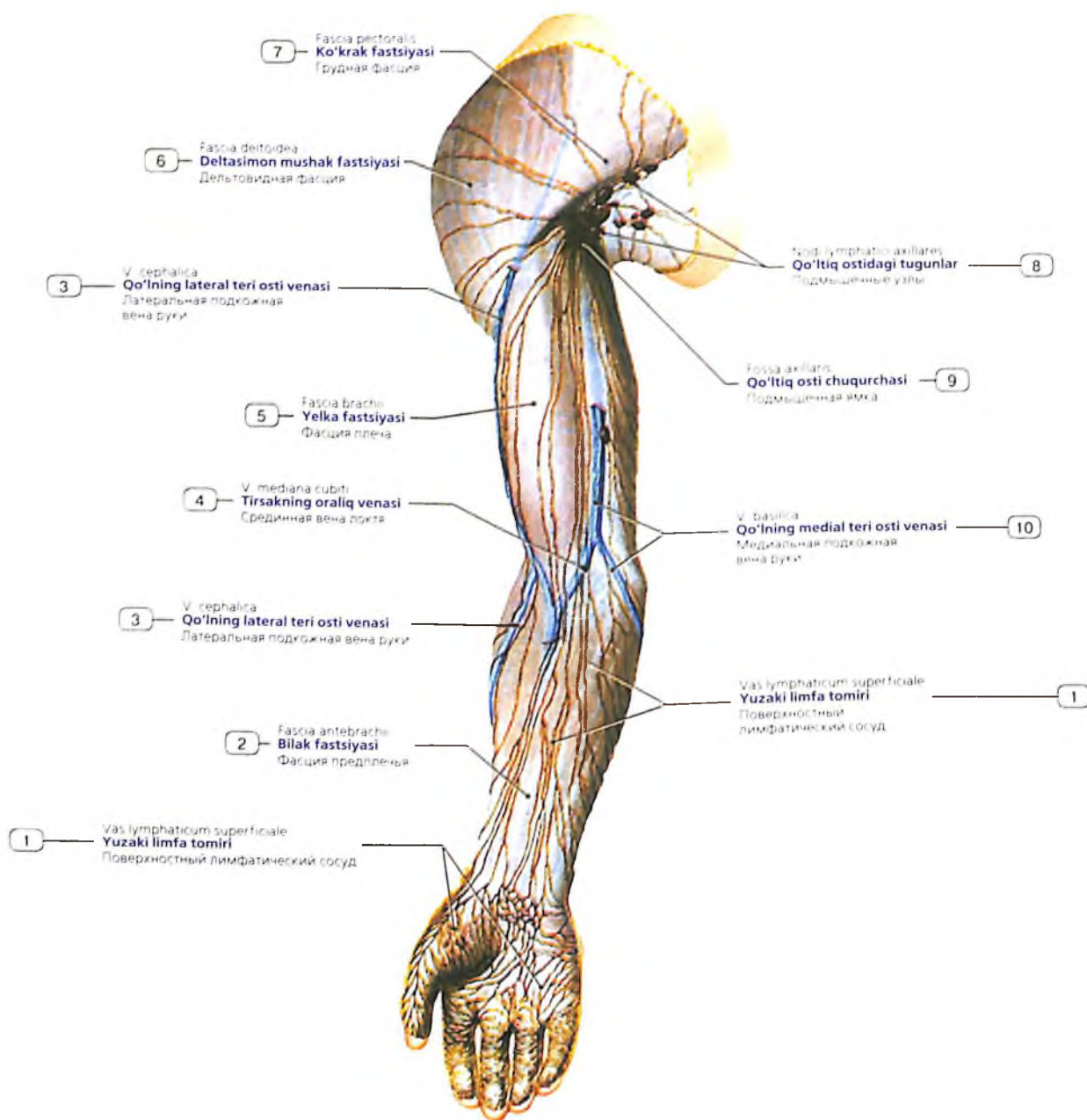
Rasm № 626. Ko'krak, yelka va qo'ltiq osti chuqurchasining yuza limfa tugunlari va tomirlari, old tomondan ko'rinishi.
Рисунок № 626. Поверхностные лимфатические узлы и сосуды груди, плеча и подмышечной ямки, вид спереди.

- | | |
|-----------------------------|----------------------------|
| 1 Cephalic vein | 6 Axillary lymph nodes |
| 2 Cubital nodes | 7 Axillary vein |
| 3 Basilic vein | 8 Thoraco-epigastric veins |
| 4 Superficial lymph vessels | 9 Axillary fascia |
| 5 Axillary lymphatic plexus | 10 Nipple |



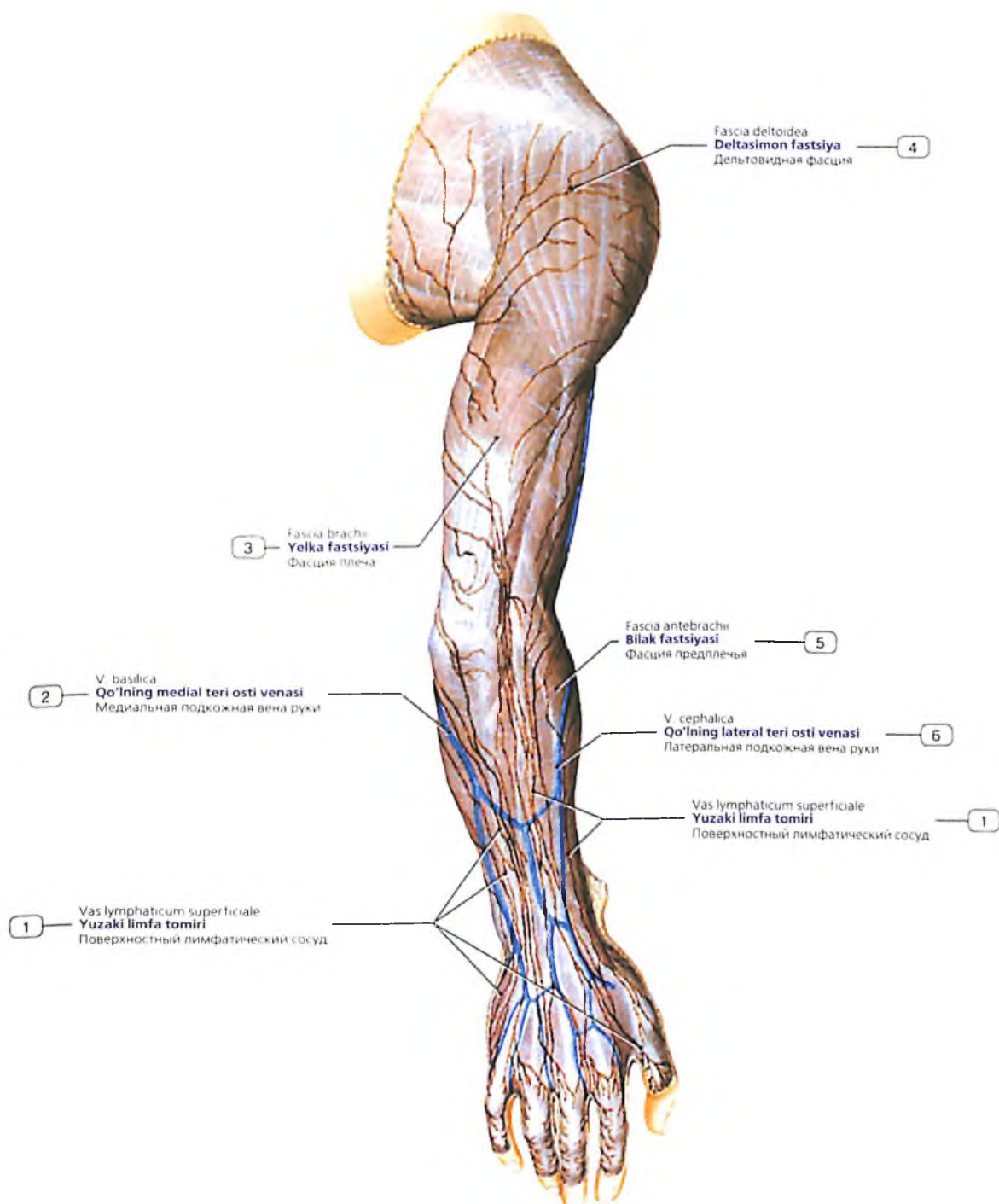
Rasm № 627. Qo'lning chuqur limfa tomirlari, old tomondan ko'rinishi.
Рисунок № 627. Глубокие лимфатические сосуды верхней конечности, вид спереди.

- | | | | | |
|----------------------------------|---------------------|--------------------------|-------------------------|----------------------------------|
| 1 Proper palmar digital arteries | 8 Cubital nodes | 15 Axillary artery, | 19 Brachiocephalic vein | 26 Anterior interosseous artery, |
| 2 Deep palmar arch | 9 Triceps brachii | Axillary vein | 20 Subclavian trunk | Anterior interosseous veins |
| 3 Thenar eminence | 10 Biceps brachii | Subclavian artery, | 21 Pectoralis minor | 27 Ulnar artery |
| 4 Deep lymph vessel | 11 Brachial veins | Subclavian vein | 22 Axillary lymph nodes | 28 Hypothenar eminence |
| 5 Radial artery | 12 Brachial artery | 17 Scalenus anterior, | 23 Median cubital vein | 29 Superficial palmar arch |
| 6 Radial veins | 13 Cephalic vein | Anterior scalene | 24 Flexor carpi ulnaris | 30 Capillary of digits of hand |
| 7 Brachioradialis | 14 Pectoralis major | 18 Internal jugular vein | 25 Ulnar veins | |



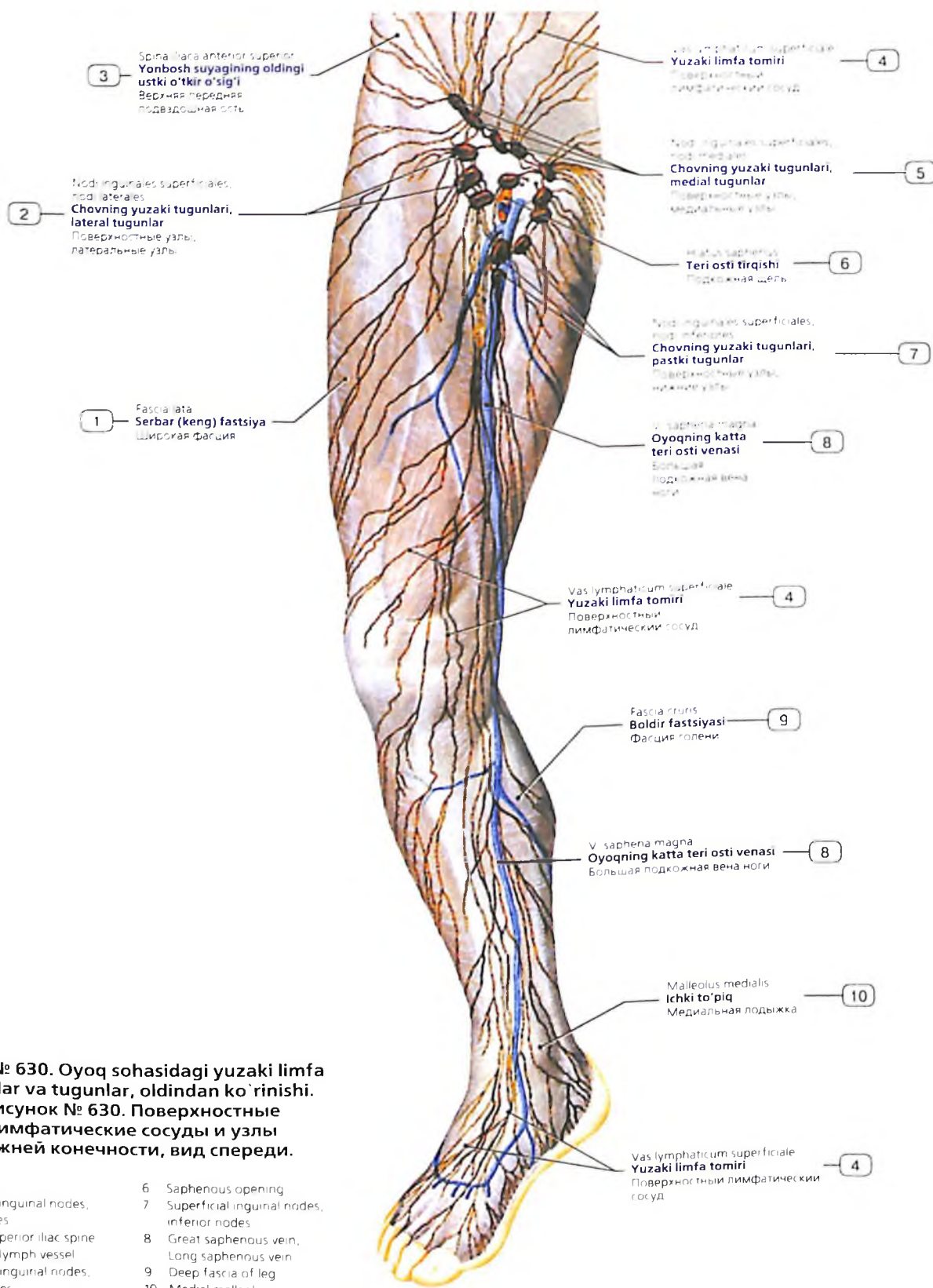
Rasm № 628. Qo'ning yuzaki limfa tomirlari, oldindan ko'rinishi.
Рисунок № 628. Поверхностные лимфатические сосуды верхней конечности, вид спереди.

- | | |
|----------------------------|------------------------|
| 1 Superficial lymph vessel | 6 Deltoid fascia |
| 2 Antebrachial fascia | 7 Pectoral fascia |
| 3 Cephalic vein | 8 Axillary lymph nodes |
| 4 Median cubital vein | 9 Axillary fossa |
| 5 Brachial fascia | 10 Basilic vein |



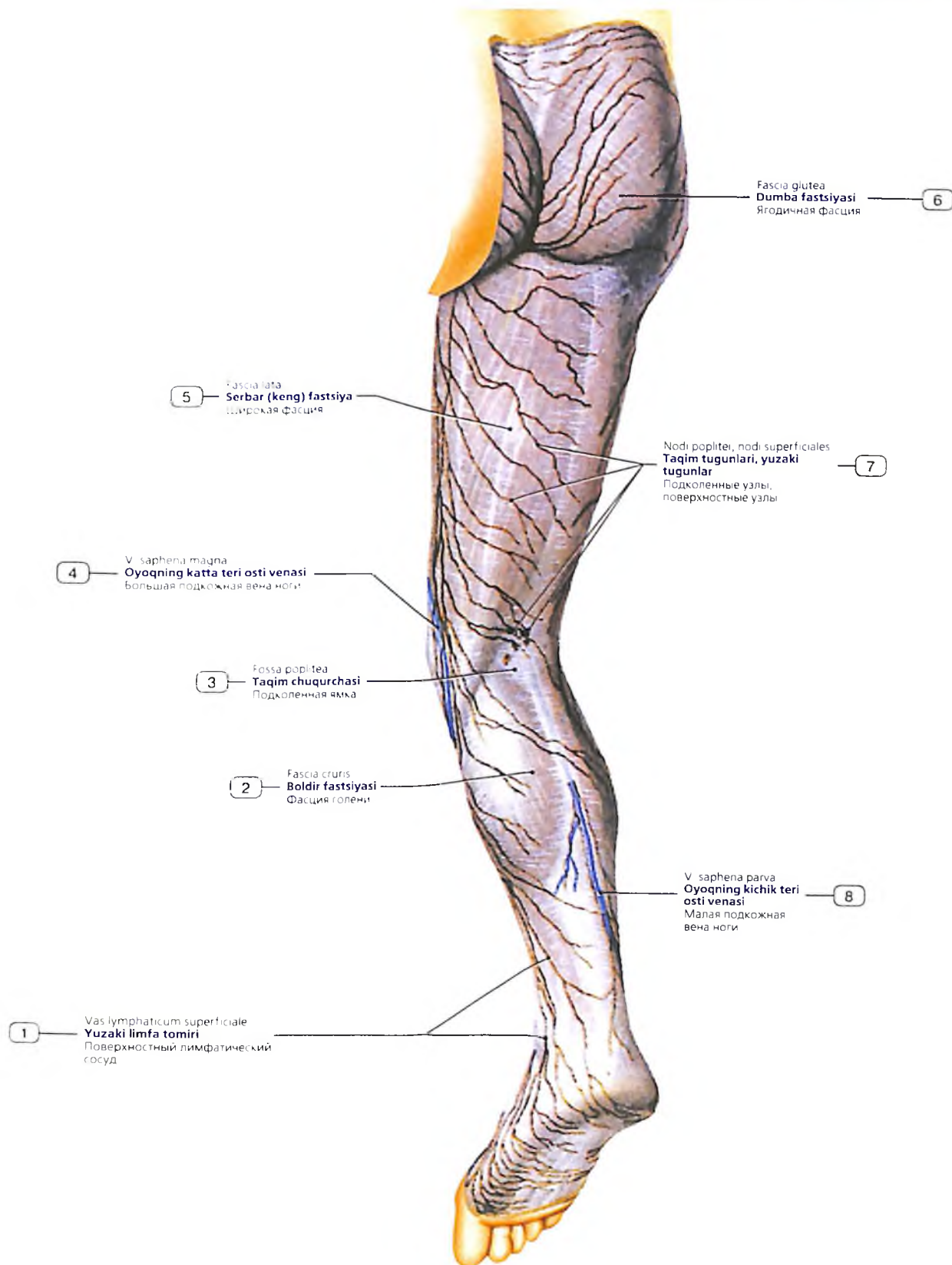
Rasm № 629. Qo'ning yuzaki limfa tomirlari, orqadan ko'rinishi.
Рисунок № 629. Поверхностные лимфатические сосуды верхней конечности, вид сзади.

- | | |
|----------------------------|-----------------------|
| 1 Superficial lymph vessel | 4 Deltoid fascia |
| 2 Basilic vein | 5 Antebrachial fascia |
| 3 Brachial fascia | 6 Cephalic vein |



Rasm № 630. Oyoq sohasidagi yuzaki limfa
tomirlar va tugunlar, oldindan ko'rinishi.
Рисунок № 630. Поверхностные
лимфатические сосуды и узлы
нижней конечности, вид спереди.

- | | |
|--|---|
| 1 Fascia lata | 6 Saphenous opening |
| 2 Superficial inguinal nodes,
lateral nodes | 7 Superficial inguinal nodes,
inferior nodes |
| 3 Anterior superior iliac spine | 8 Great saphenous vein,
Long saphenous vein |
| 4 Superficial lymph vessel | 9 Deep fascia of leg |
| 5 Superficial inguinal nodes,
medial nodes | 10 Medial malleolus |



Rasm № 631. Oyoqning yuzaki limfa tomirlari va tugunlari, orqadan ko`rinishi.
Рисунок № 631. Поверхностные лимфатические сосуды и узлы нижней конечности, вид сзади.

- 1 Superficial lymph vessel
- 2 Deep fascia of leg
- 3 Popliteal fossa

- 4 Great saphenous vein, Long saphenous vein
- 5 Fascia lata
- 6 Fascia glutea

- 7 Popliteal nodes, Superficial nodes
- 8 Small saphenous vein, Short saphenous vein

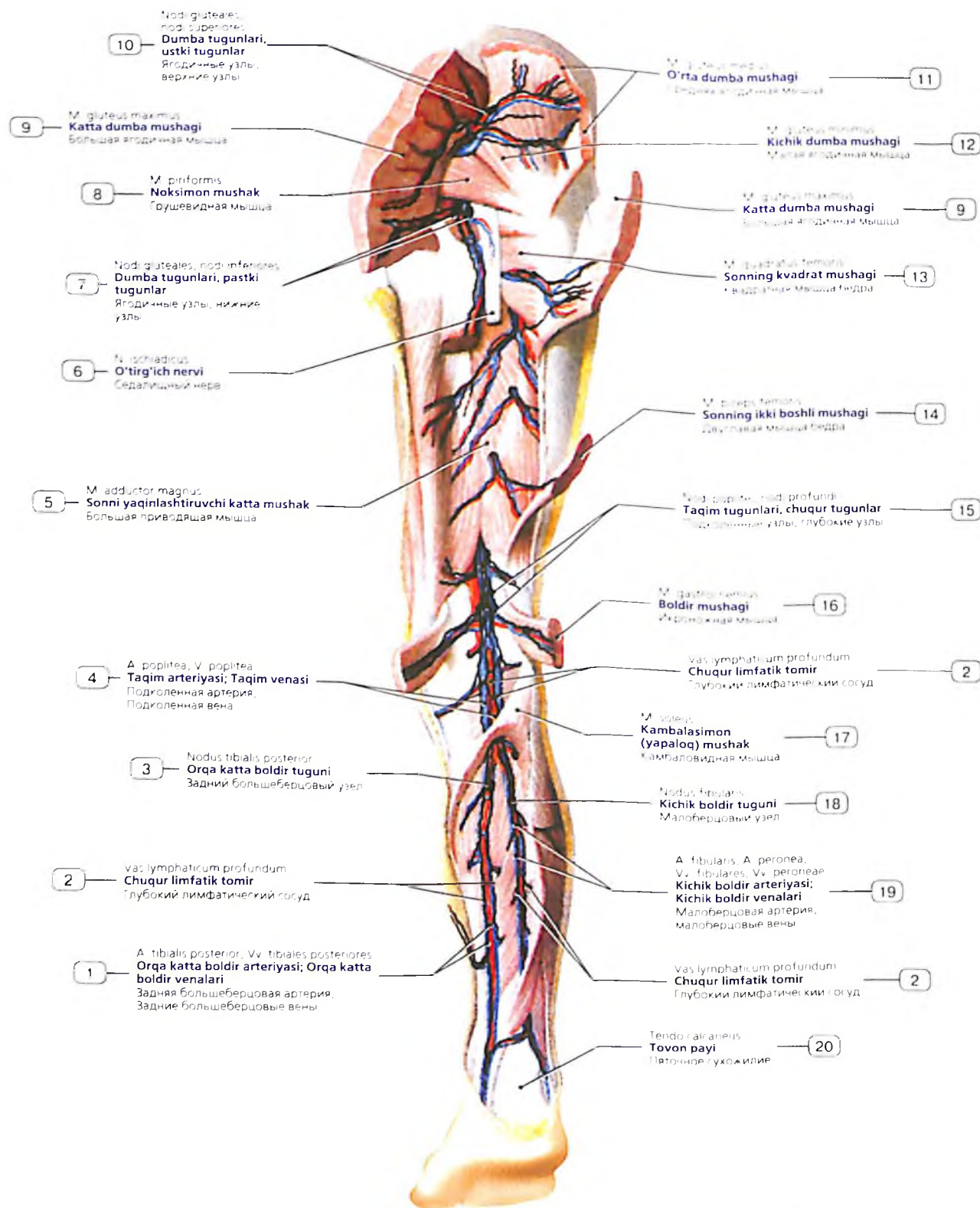
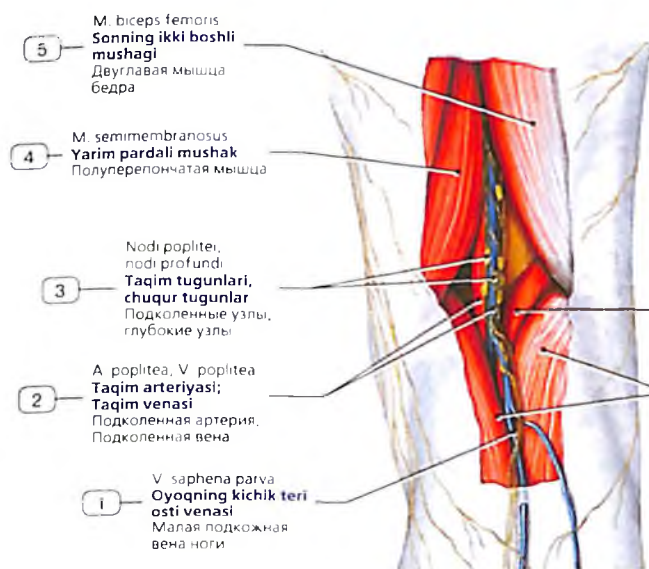


Рис. № 632. Оточнение чукур лимфатических сосудов и узлов нижней конечности, вид сзади.
Рисунок № 632. Глубокие лимфатические сосуды и узлы нижней конечности, вид сзади.

- | | | | |
|---|----------------------------------|--------------------------------|---|
| 1 Posterior tibial artery, Posterior tibial veins | 6 Sciatic nerve | 12 Gluteus minimus | 18 Fibular node, peroneal node |
| 2 Deep lymph. vessel | 7 Gluteal nodes, inferior nodes | 13 Quadratus femoris | 19 Fibular artery, Peroneal artery, Fibular veins, Peroneal veins |
| 3 Posterior tibial node | 8 Piriformis | 14 Biceps femoris | 20 Calcaneal tendon |
| 4 Popliteal artery, Popliteal vein | 9 Gluteus maximus | 15 Popliteal nodes, deep nodes | |
| 5 Adductor magnus | 10 Gluteal nodes, superior nodes | 16 Gastrocnemius | |
| | 11 Gluteus medius | 17 Soleus | |

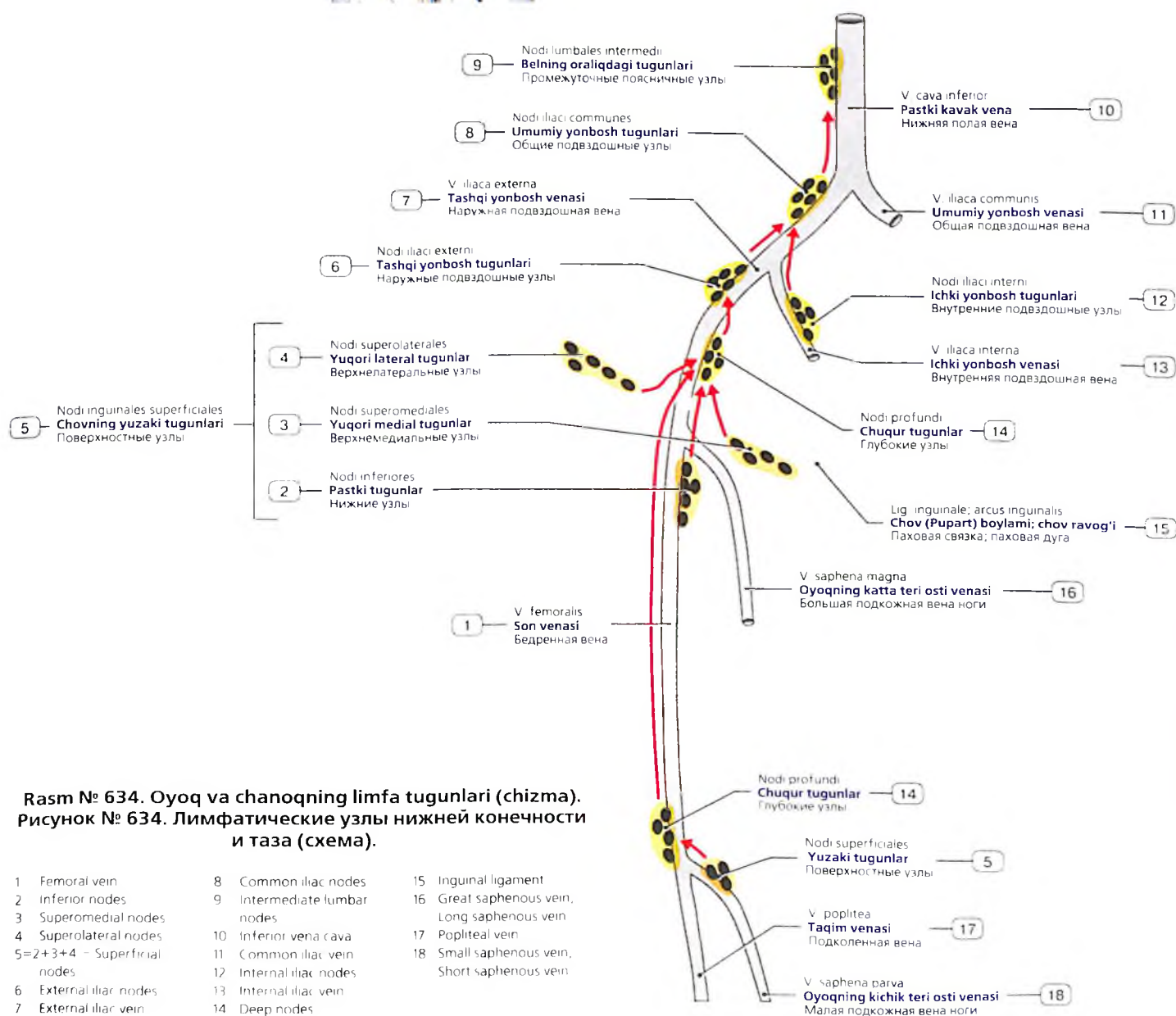
LIMFA TOMIRLARI, POYALAR VA YO'LLAR

YURAK QON-TOMIR TIZIMI



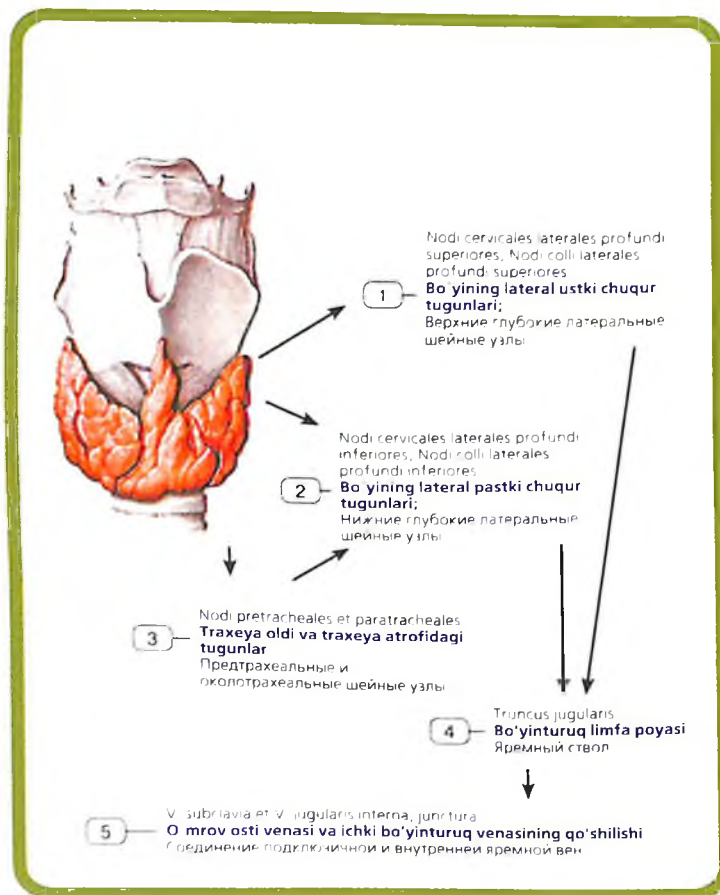
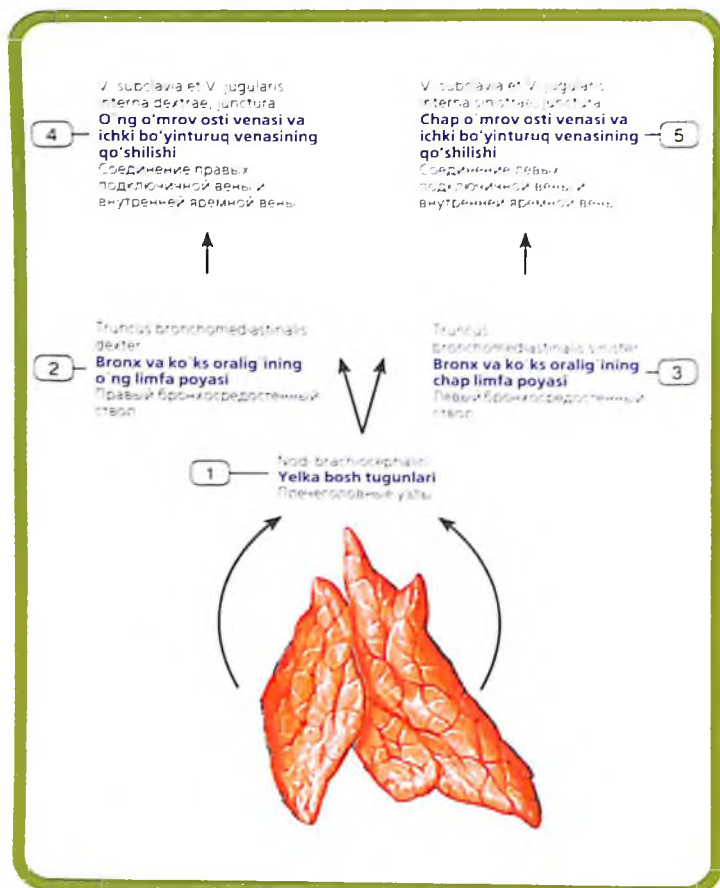
Rasm № 633. Taqim sohasining chuqur limfa tugunlari.
Рисунок № 633. Глубокие лимфатические узлы
подколенной области.

- | | |
|---|-------------------|
| 1 Small saphenous vein,
Short saphenous vein | 4 Semimembranosus |
| 2 Popliteal artery, Popliteal vein | 5 Biceps femoris |
| 3 Popliteal nodes, deep nodes | 6 Plantaris |
| | 7 Gastrocnemius |

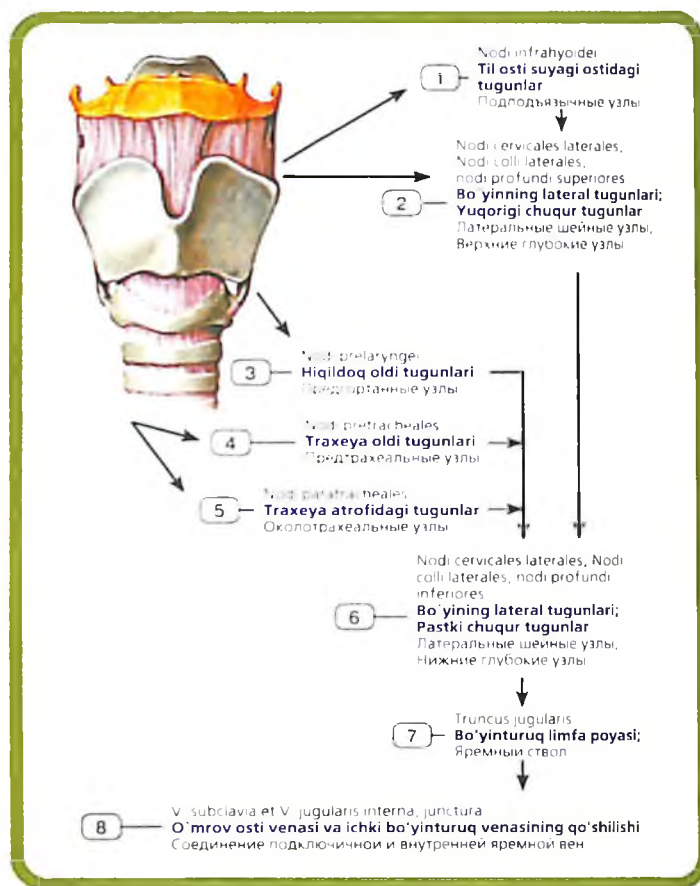


Rasm № 634. Oyoq va chanoqning limfa tugunlari (chizma).
Рисунок № 634. Лимфатические узлы нижней конечности
и таза (схема).

- | | | |
|--------------------------------|--------------------------------|--|
| 1 Femoral vein | 8 Common iliac nodes | 15 Inguinal ligament |
| 2 Inferior nodes | 9 Intermediate lumbar
nodes | 16 Great saphenous vein,
Long saphenous vein |
| 3 Superomedial nodes | 10 Inferior vena cava | 17 Popliteal vein |
| 4 Superolateral nodes | 11 Common iliac vein | 18 Small saphenous vein,
Short saphenous vein |
| 5=2+3+4 - Superficial
nodes | 12 Internal iliac nodes | |
| 6 External iliac nodes | 13 Internal iliac vein | |
| 7 External iliac vein | 14 Deep nodes | |



Rasm № 635. Ayrisimon bezning limfa tugunlari.
Рисунок № 635. Лимфатические узлы тимуса.



Rasm № 636. Hiqildoqning limfa tugunlari.
Рисунок № 636. Лимфатические узлы гортани.

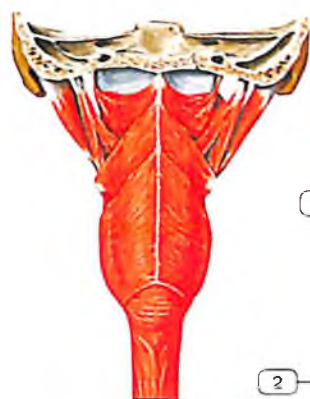
- | | |
|--|---|
| 1. Infrahyoid nodes | 6. Lateral cervical nodes, inferior deep nodes |
| 2. Lateral cervical nodes, superior deep nodes | 7. Jugular trunk |
| 3. Prelaryngeal nodes | 8. Subclavian and internal jugular veins, joint |
| 4. Pretracheal nodes | |
| 5. Paratracheal nodes | |

Rasm № 637. Qalqonsimon bezning limfa tugunlari.
Рисунок № 637. Лимфатические узлы щитовидной железы.

- | |
|---|
| 1. Lateral cervical superior deep nodes |
| 2. Lateral cervical inferior deep nodes |
| 3. Pretracheal et paratracheal nodes |
| 4. Jugular trunk |
| 5. Subclavian and internal jugular veins, joint |

LIMFA TOMIRLARI, POYALAR VA YO'LLAR

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1 Nodi retropharyngeales
Halqum orti tugunlari
Затлочные узлы

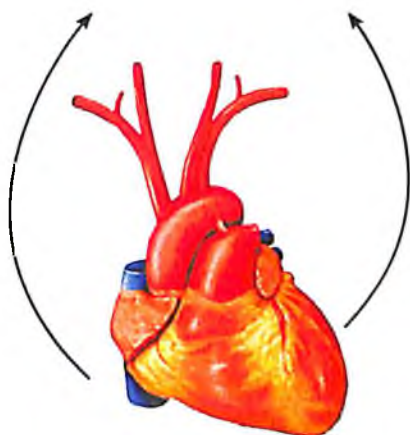
2 Nodi cervicales laterales profundi
superiores, inferiores,
Nodi colli laterales profundi
superiores, inferiores
Bo'yining lateral ustki / pastki
chuqur tugunlari
Верхние / нижние глубокие
латеральные шейные узлы

3 Truncus jugularis
Bo'yinturuq limfa poyasi
Яремный ствол

4 V. subclavia et V. jugularis interna, junctura
O'mrov osti venasi va ichki bo'yinturuq venasining qo'shilishi
Соединение подключичной и внутренней яремной вен

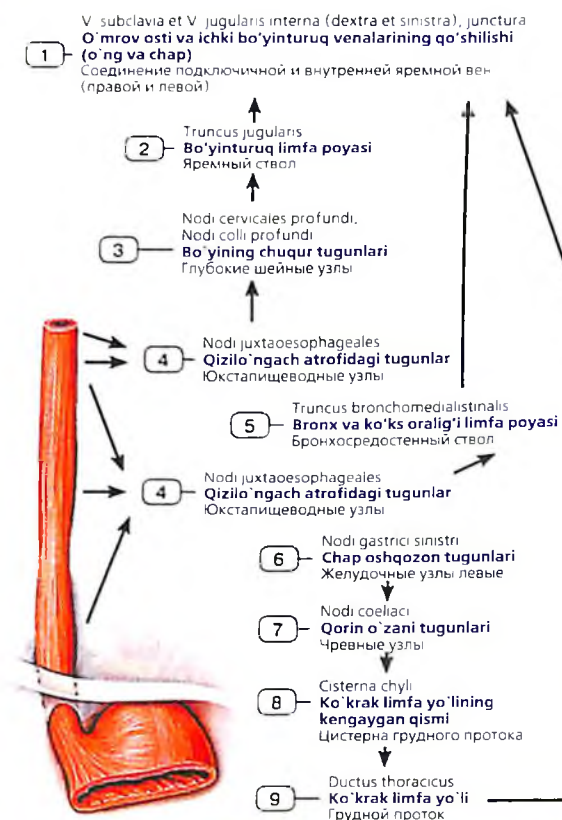
1 Truncus bronchomediastinalis
Bronx va ko'ks oralig'i limfa poyasi
Бронхосредостенный ствол

2 Nodi brachiocephalici et tracheobronchiales
Yelka-bosh va Traxeysa-bronx tugunlari;
Плечеголовые и трахеобронхиальные узлы



Rasm № 638. Halqumning limfa tugunlari.
Рисунок № 638. Лимфатические узлы глотки.

- 1 Retropharyngeal nodes
- 2 Lateral cervical superior / inferior deep nodes
- 3 Jugular trunk
- 4 Subclavian and Internal jugular veins, joint



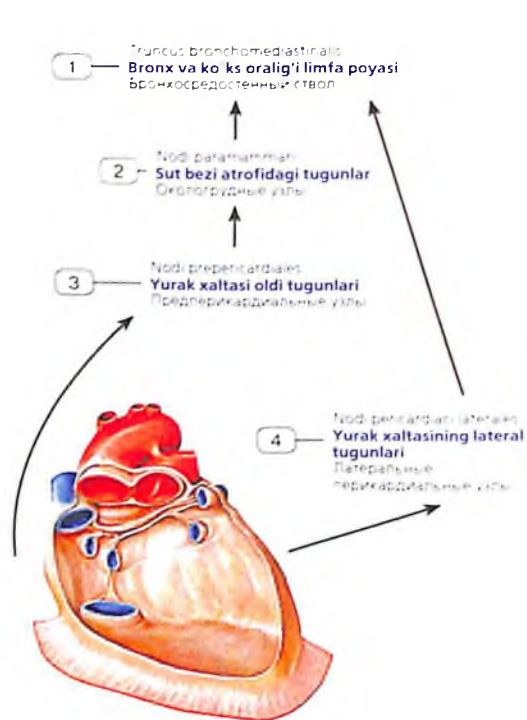
Rasm № 639. Qizilo'ngachning limfa tugunlari.
Рисунок № 639. Лимфатические узлы пищевода.

- 1 Subclavian and internal jugular veins (right and left), joint
- 2 Jugular trunk
- 3 Cervical deep nodes
- 4 Juxta-oesophageal nodes
- 5 Bronchomediastinal trunk
- 6 Left gastric nodes
- 7 Coeliac nodes
- 8 Cisterna chyli; Chyle cistern
- 9 Thoracic duct

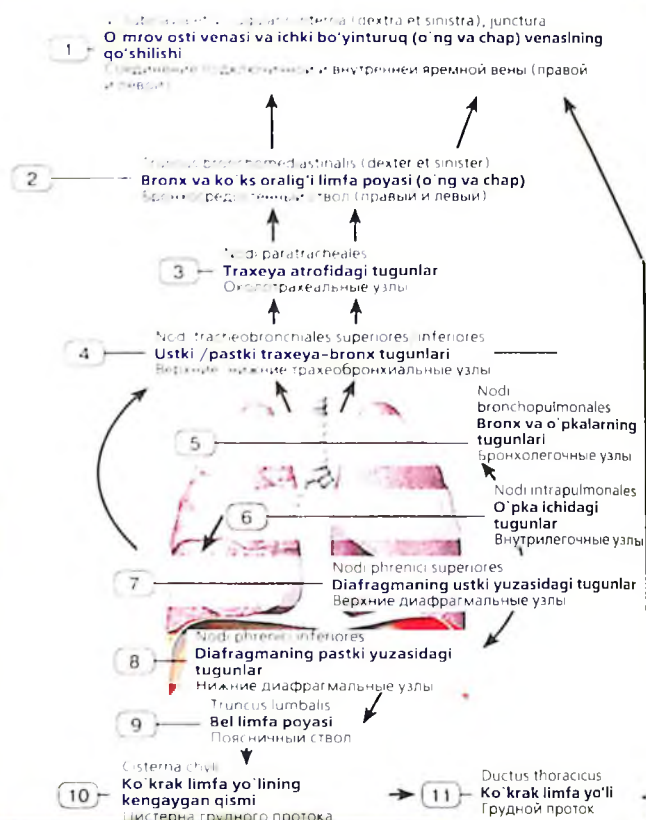
Rasm № 640. Yurakning limfa tugunlari.
Рисунок № 640. Лимфатические узлы сердца.

- 1 Bronchomediastinal trunk
- 2 Brachiocephalic and Tracheobronchial nodes

Rasm № 641. Perikardning limfa tugunlari.
Рисунок № 641. Лимфатические узлы перикарда.



1. Bronchomediastinal trunk
2. Paratracheal nodes
3. Prepericardial nodes
4. Lateral pericardial nodes

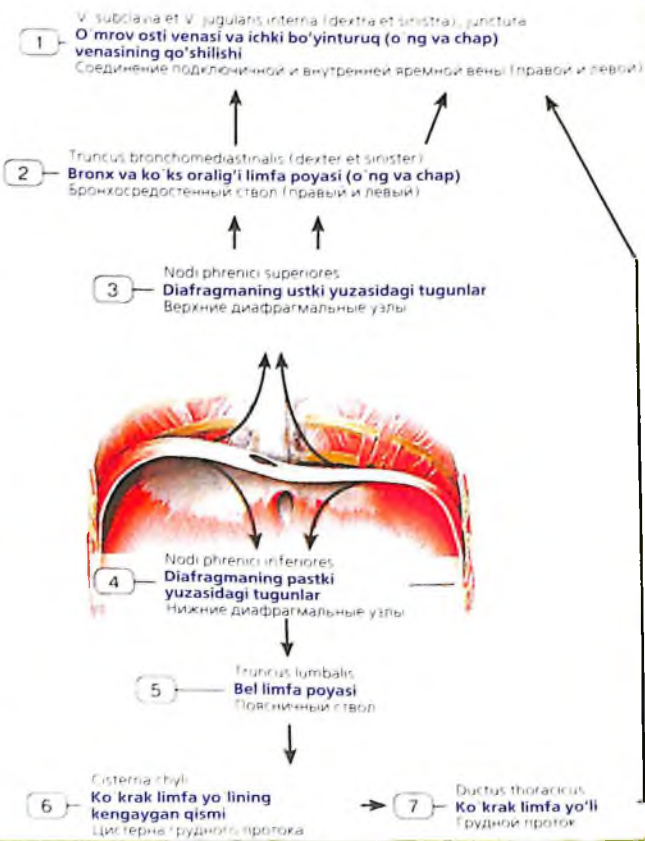


Rasm № 642. Traxeaya va o'pkalarning limfa tugunlari.
Рисунок № 642. Лимфатические узлы трахеи и легких.

1. Subclavian and internal jugular veins (right and left), joint
2. Bronchomediastinal trunk (right and left)
3. Paratracheal nodes
4. Superior/inferior tracheobronchial nodes
5. Bronchopulmonary nodes
6. Intrapulmonary nodes
7. Superior diaphragmatic nodes
8. Inferior diaphragmatic nodes
9. Lumbar trunk
10. Cisterna chyli, chyle cistern
11. Thoracic duct

Rasm № 643. Diafragmaning limfa tugunlari.
Рисунок № 643. Лимфатические узлы диафрагмы.

1. Subclavian and internal jugular veins (right and left), joint
2. Bronchomediastinal trunk (right and left)
3. Superior diaphragmatic nodes
4. Inferior diaphragmatic nodes
5. Lumbar trunk
6. Cisterna chyli, chyle cistern
7. Thoracic duct



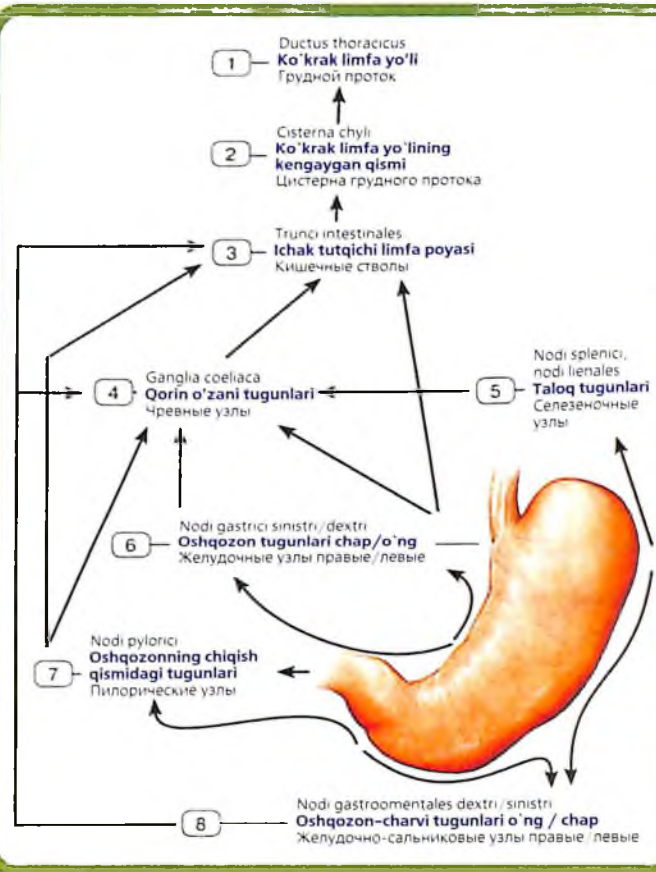
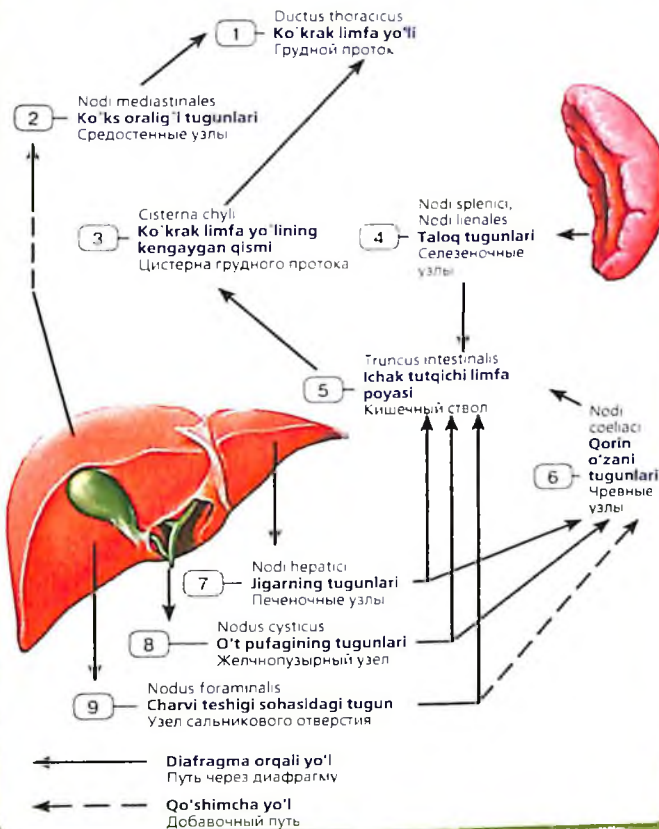
LIMFA TOMIRLARI, POYALAR VA YO'LLAR

YURAK QON-TOMIR TIZIMI

Rasm № 644. Jigar, o't pufagi va taloqning limfa tugunlari.

Рисунок № 644. Лимфатические узлы печени, желчного пузыря и селезенки.

- | | |
|---------------------------------|--|
| 1 Thoracic duct | 6 Coeliac nodes |
| 2 Mediastinal nodes | 7 Hepatic nodes |
| 3 Cisterna chyli; chyle cistern | 8 Cystic node |
| 4 Splenic nodes | 9 Node of anterior border of omental foramen |
| 5 Intestinal trunk | |



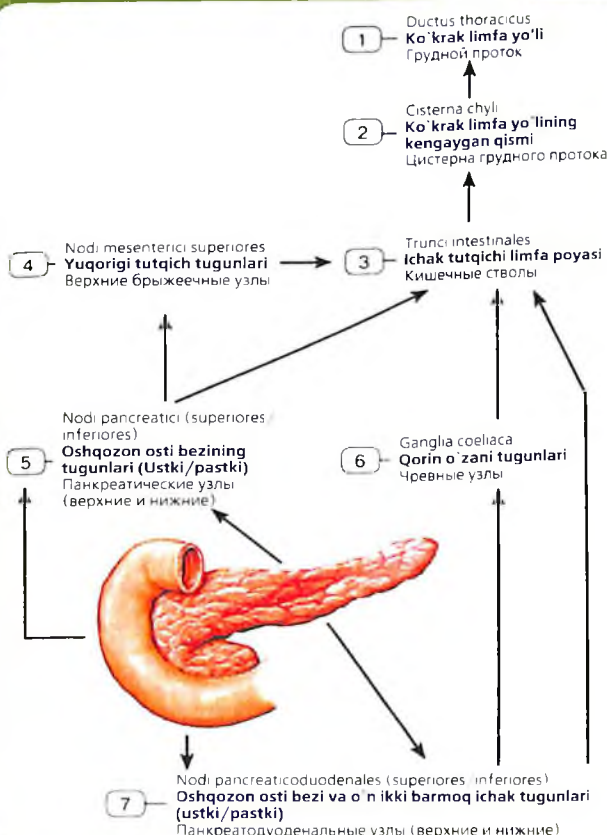
Rasm № 645. Oshqozonning limfa tugunlari.
Рисунок № 645. Лимфатические узлы желудка.

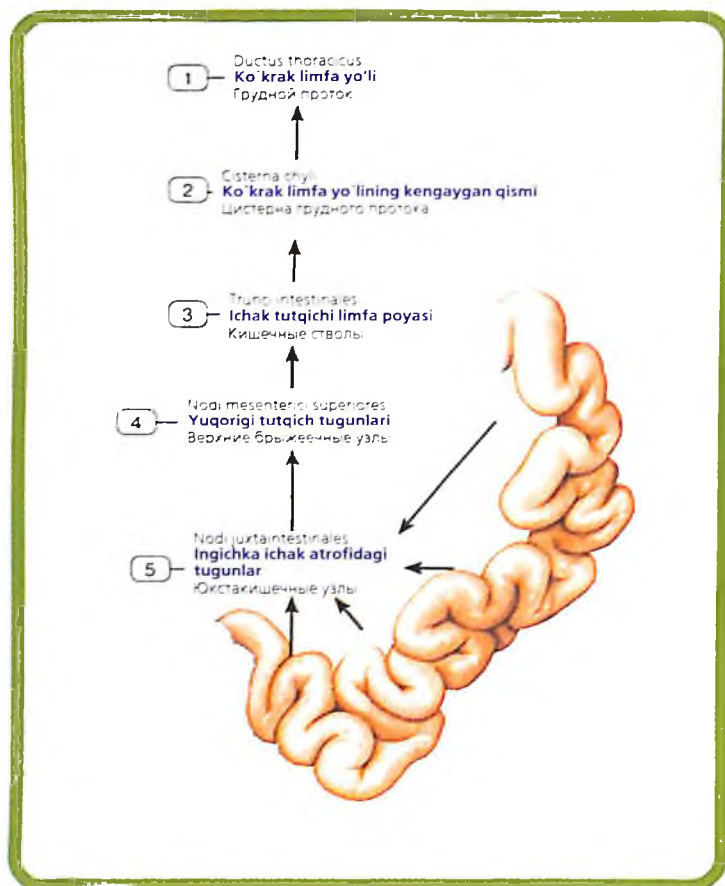
- | | |
|---------------------------------|------------------------------------|
| 1 Thoracic duct | 5 Splenic nodes |
| 2 Cisterna chyli; chyle cistern | 6 Right, left gastric nodes |
| 3 Intestinal trunks | 7 Pyloric nodes |
| 4 Coeliac nodes | 8 Right, left gastro-omental nodes |

Rasm № 646. Oshqozon osti bezi va o'n ikki barmoq ichak limfa tugunlari.

Рисунок № 646. Лимфатические узлы двенадцатиперстной кишки и поджелудочной железы.

- | | |
|-----------------------------|---|
| 1 Thoracic duct | 5 Pancreatic nodes (superior/inferior) |
| 2 Cisterna chyli | 6 Coeliac nodes |
| 3 Intestinal trunks | 7 Pancreatoduodenal nodes (superior/inferior) |
| 4 Superior mesenteric nodes | |

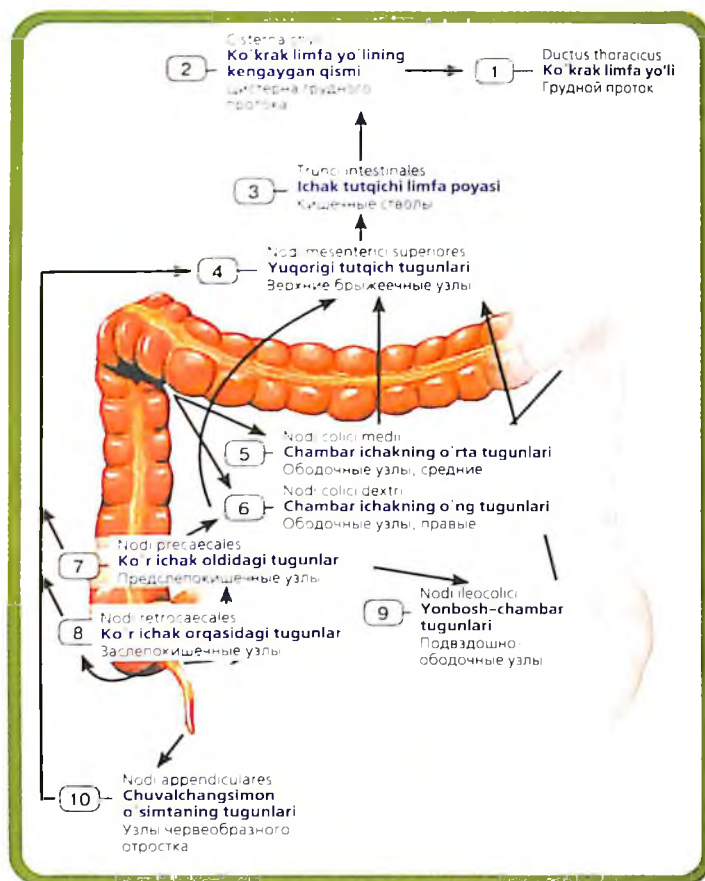
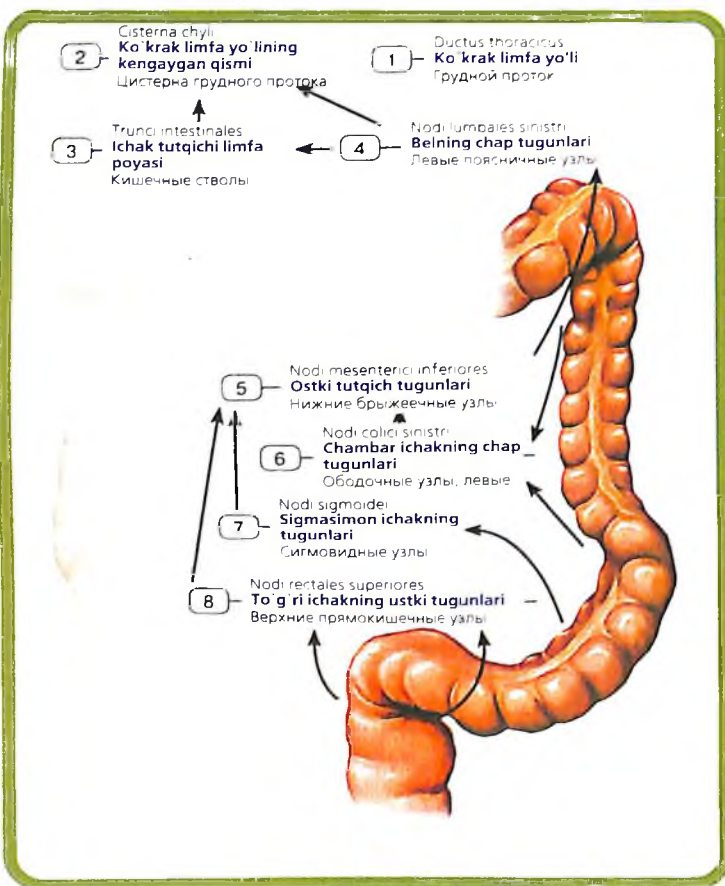




Rasm № 647. Yonbosh va och ichaklarning limfa tugunlari.

Рисунок № 647. Лимфатические узлы тощей и подвздошной кишки.

- 1 Thoracic duct
- 2 Cisterna chyli, chyle cistern
- 3 Intestinal trunks
- 4 Superior mesenteric nodes
- 5 Juxta-intestinal mesenteric nodes



Rasm № 648. Ko'r ichak, chuvalchangsimon o'simta, ko'tariluvchi va ko'ndalang chamber ichaklarning limfa tugunlari.

Рисунок № 648. Лимфатические узлы слепой кишки, аппендикса, восходящей и поперечной ободочной кишок.

- 1 Thoracic duct
- 2 Cisterna chyli, chyle cistern
- 3 Intestinal trunks
- 4 Superior mesenteric nodes
- 5 Middle colic nodes
- 6 Right colic nodes
- 7 Precaecal nodes
- 8 Retrocaecal nodes
- 9 Ileocolic nodes
- 10 Appendicular nodes

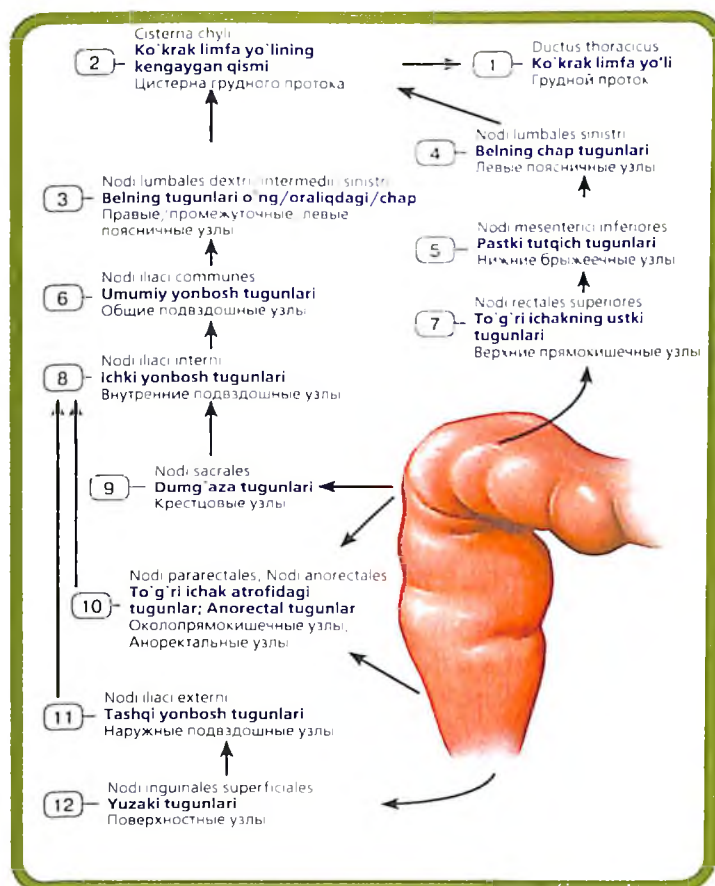
Rasm № 649. Tushuvchi va sigmasimon chamber ichaklarning limfa tugunlari.

Рисунок № 649. Лимфатические узлы нисходящей и сигмовидной ободочных кишок.

- 1 Thoracic duct
- 2 Cisterna chyli, chyle cistern
- 3 Intestinal trunks
- 4 Left lumbar nodes
- 5 Inferior mesenteric nodes
- 6 Left colic nodes
- 7 Sigmoid nodes
- 8 Superior rectal nodes

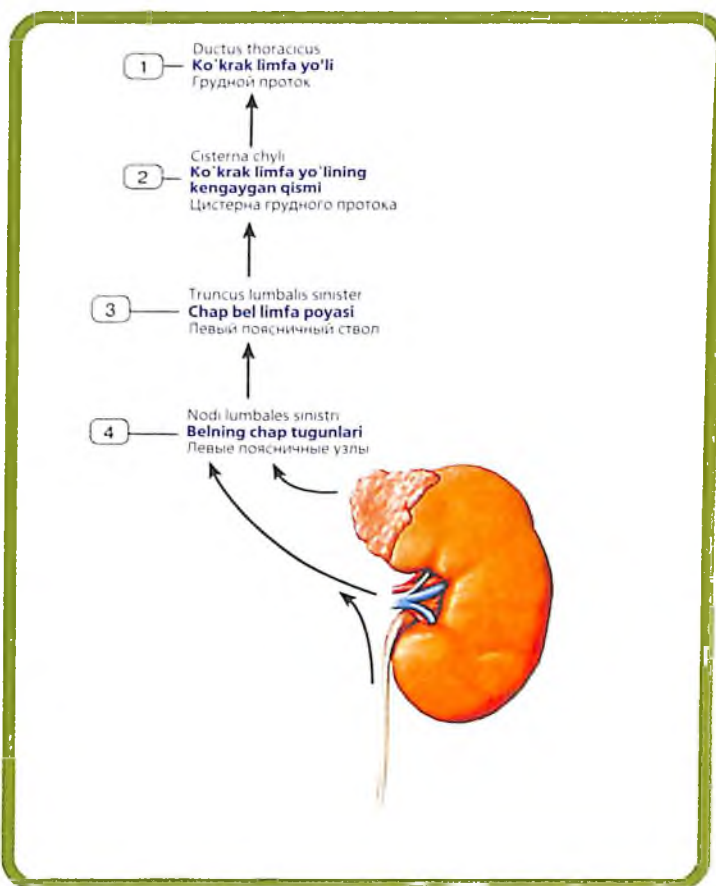
LIMFA TOMIRLARI, POYALAR VA YO'LLAR

YURAK QON-TOMIR TIZIMI



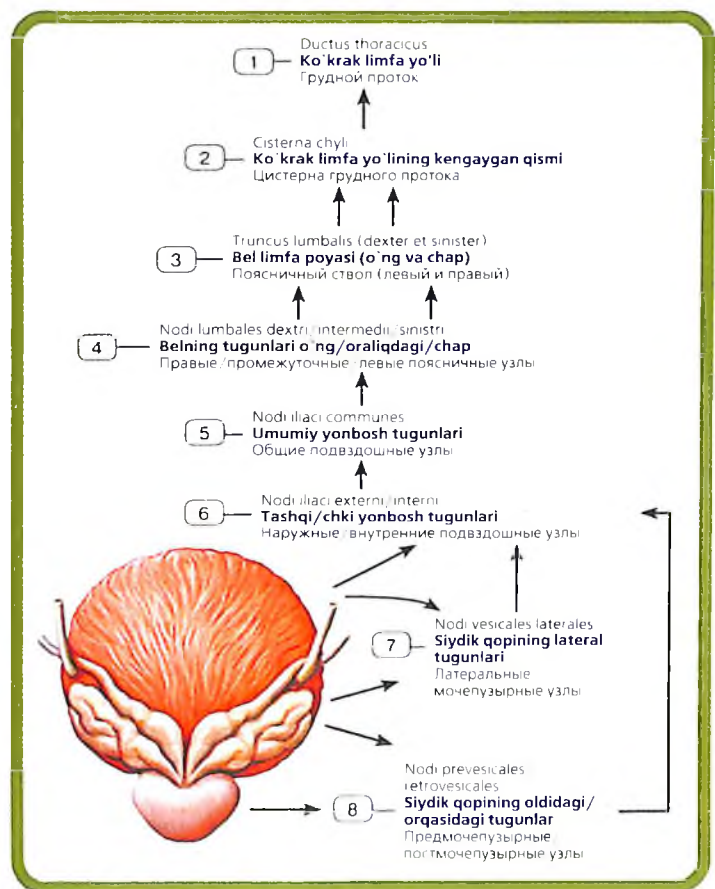
Rasm № 650. To'g'ri ichakning limfa tugunlari.
Рисунок № 650. Лимфатические узлы
прямой кишки.

- | | |
|--|-------------------------------|
| 1 Thoracic duct | 7 Superior rectal nodes |
| 2 Cisterna chyli; chyle cistern | 8 Internal iliac nodes |
| 3 Right /intermediate/ left lumbar nodes | 9 Sacral nodes |
| 4 Left lumbar nodes | 10 Pararectal nodes |
| 5 Inferior mesenteric nodes | 11 External iliac nodes |
| 6 Common iliac nodes | 12 Superficial inguinal nodes |



Rasm № 651. Chap buyrak, siydik nayi va buyrak usti
bezining limfa tugunlari.
Рисунок № 651. Лимфатические узлы левой почки,
мочеточника и надпочечника.

- | | |
|---------------------------------|---------------------|
| 1 Thoracic duct | 3 Left lumbar trunk |
| 2 Cisterna chyli, chyle cistern | 4 Left lumbar nodes |



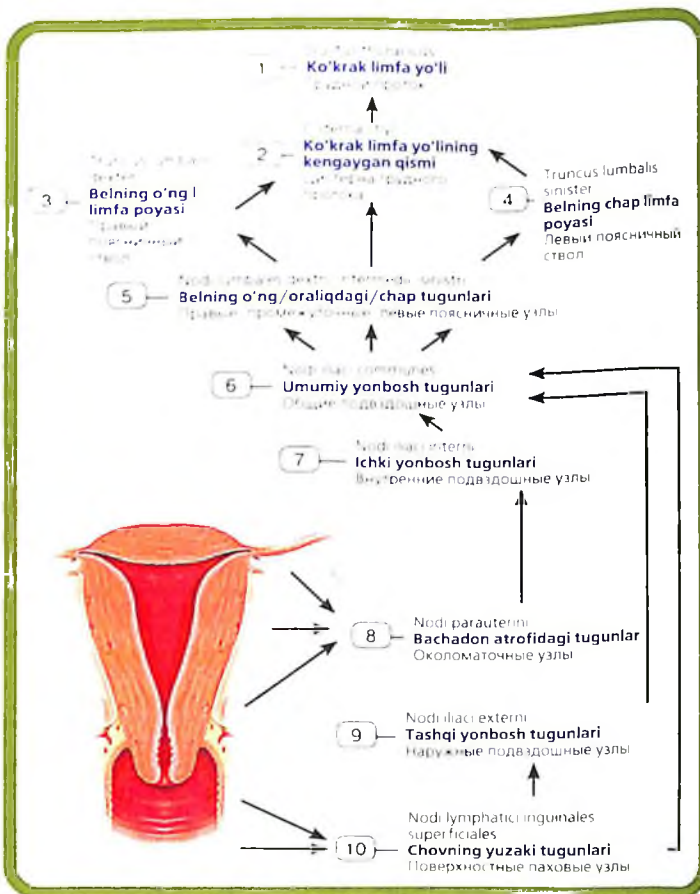
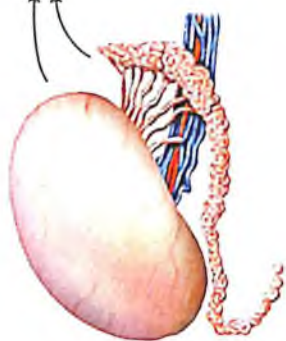
Rasm № 652. Qovuq, prostata bezi va urug` pufakchalarin-
ing limfa tugunlari.
Рисунок № 652. Лимфатические узлы мочевого пузыря,
простаты и семенных пузырьков.

- | | |
|--|----------------------------------|
| 1 Thoracic duct | 5 Common iliac nodes |
| 2 Cisterna chyli, chyle cistern | 6 External, internal iliac nodes |
| 3 Lumbar trunk (right and left) | 7 Lateral vesical nodes |
| 4 Right /intermediate/ left lumbar nodes | 8 Prevesical, postvesical nodes |

Rasm № 653. Moyak, moyak ortig'i va urug' olib
ketuvchi nay limfa tugunlari.
Рисунок № 653. Лимфатические узлы яичка,
придатка яичка и семявыносящего протока.

1. Thoracic duct
2. Cisterna chyli, Chyle cistern
3. Left lumbar trunk
4. Left lumbar nodes

1. Ductus thoracicus
Ko'krak limfa yo'li
Грудной проток
2. Cisterna chyli
Ko'krak limfa yo'lining
kengaygan qismi
Цистерна грудного протока
3. Truncus lumbalis sinister
Belning chap limfa poyasi
Левый поясничный ствол
4. Nodi lumbales sinistri
Belning chap tugunlari
Левые поясничные узлы



Rasm № 654. Bachadon, bachadon naylari va qin
limfa tugunlari.

Рисунок № 654. Лимфатические узлы матки,
маточной трубы и влагалища.

- | | |
|---|--------------------------------|
| 1. Thoracic duct | 6. Common iliac nodes |
| 2. Cisterna chyli, Chyle cistern | 7. Internal iliac nodes |
| 3. Right lumbar trunk | 8. Para- uterine nodes |
| 4. Left lumbar trunk | 9. External iliac nodes |
| 5. Right intermediate-left lumbar nodes | 10. Superficial inguinal nodes |

Rasm № 655. Bachadon naylari va tuxumdon limfa tugunlari.
Рисунок № 655. Лимфатические узлы маточной трубы
и яичника.

1. Thoracic duct
2. Cisterna chyli, Chyle cistern
3. Left lumbar trunk
4. Lumbar nodes

1. Ductus thoracicus
Ko'krak limfa yo'li
Грудной проток
2. Cisterna chyli
Ko'krak limfa yo'lining kengaygan qismi
Цистерна грудного протока
3. Truncus lumbalis sinister
Belning chap limfa poyasi
Левый поясничный ствол
4. Nodi lumbales
Belning tugunlari
Поясничные узлы





LYMPHOID SISTEM

LIMFOID TIZIM

LYMPHOID SYSTEM

Jadval-38. Limfa tizimi
LIMFA TIZIMI

BIRLAMCHI LIMFOID A'ZOLAR

Qizil suyak ko'migi
Ayrison bez
Bo'lak
Bo'lakchalar
Po'stloq moddasi
Mag'iz moddasi

LIMFA TIZIMI

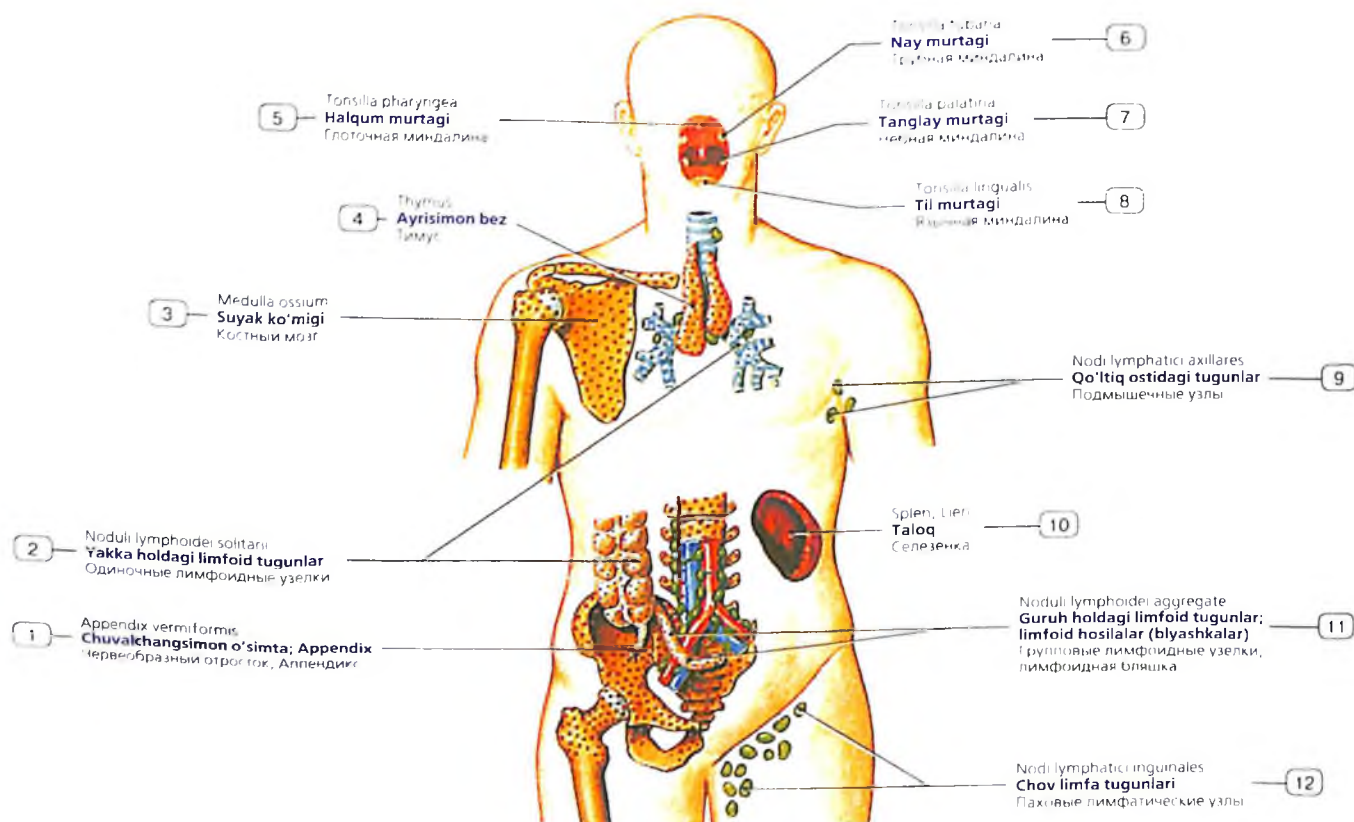
Limfa kapilyarlari
Limfokapilyar to'r
Limfa poyalari
Bo'yinturuq limfa poyasi
O'mrov osti limfa poyasi
Bronx va ko'ks oralig'i limfa poyasi
Bel limfa poyasi
Ichak tutqich limfa poyalari
Limfa naylari (yo'llari)
Ko'krak limfa yo'li
O'ng limfa yo'li

IKKILAMCHI LIMFOID A'ZOLAR

Taloq
Xalqumning limfoid xalqasi
Til murtagi
Tanglay murtagi
Xalqum murtagi
Nay murtagi
Yakka xoldagi limfoid tugunlar
Gurux xoldagi limfoid tugunlar
Limfoid shoda
Chualchangsimon osimta limfa tugunlari

LIMFA TUGUNLARI

Bosh va bo'yin limfa tugunlari
Qo'l limfa tugunlari
Ko'krak limfa tugunlari
Qorin boshligi limfa tugunlari
Chanoq limfa tugunlari
Oyoq limfa tugunlari



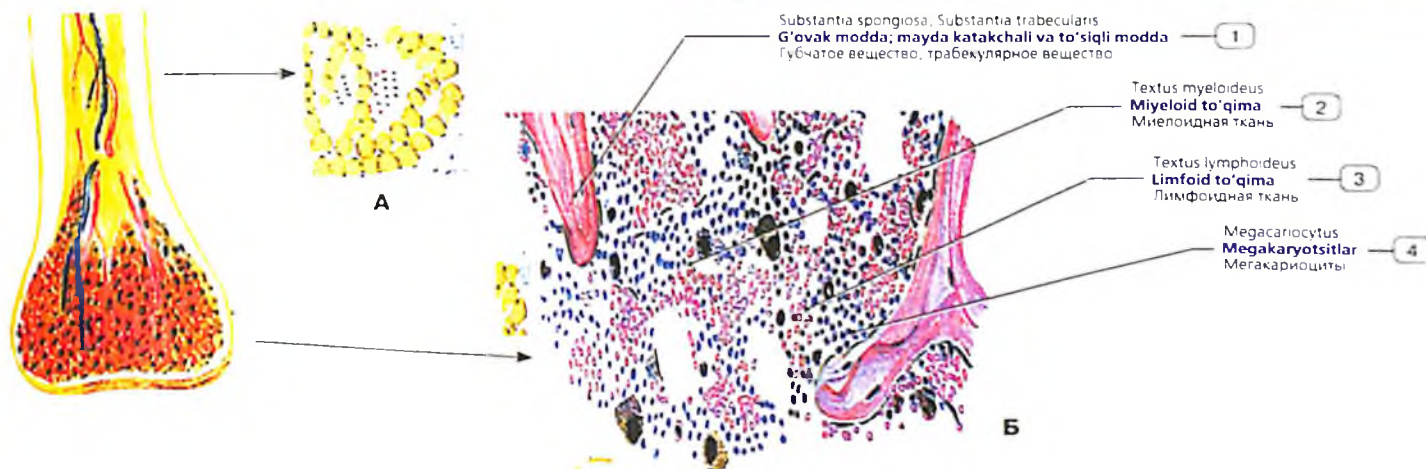
Rasm № 656. Immun tizimi organlarining joylashuvi (chizma).
Рисунок № 656. Расположение органов иммунной системы (схема).

1 Appendix vermiformis
2 Solitary lymphoid nodule
3 Bone marrow

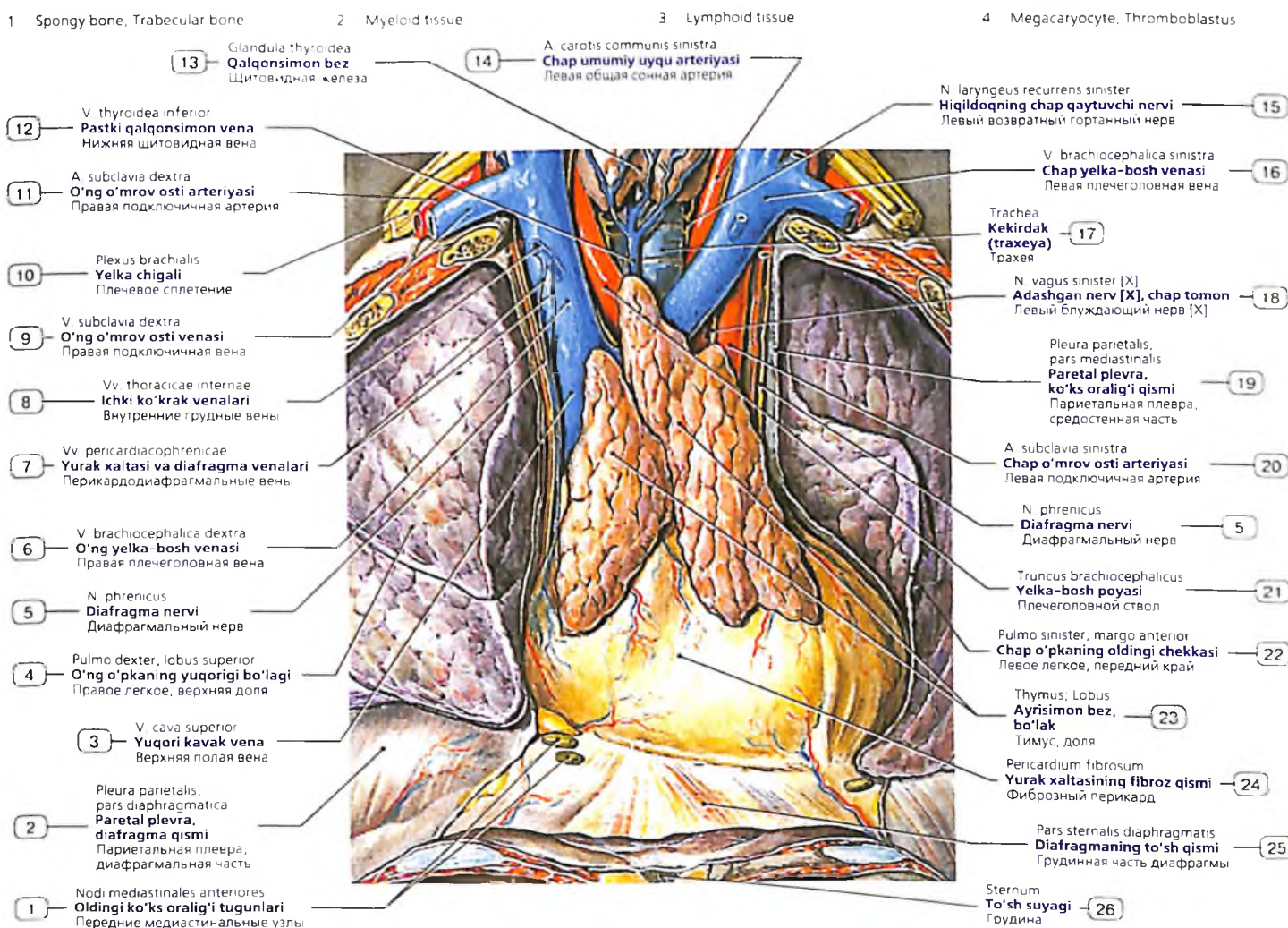
4 Thymus
5 Pharyngeal tonsil
6 Tubal tonsil

7 Palatine tonsil
8 Lingual tonsil
9 Axillary lymph nodes

10 Spleen
11 Aggregated lymphoid nodules
12 Inguinal lymph nodes

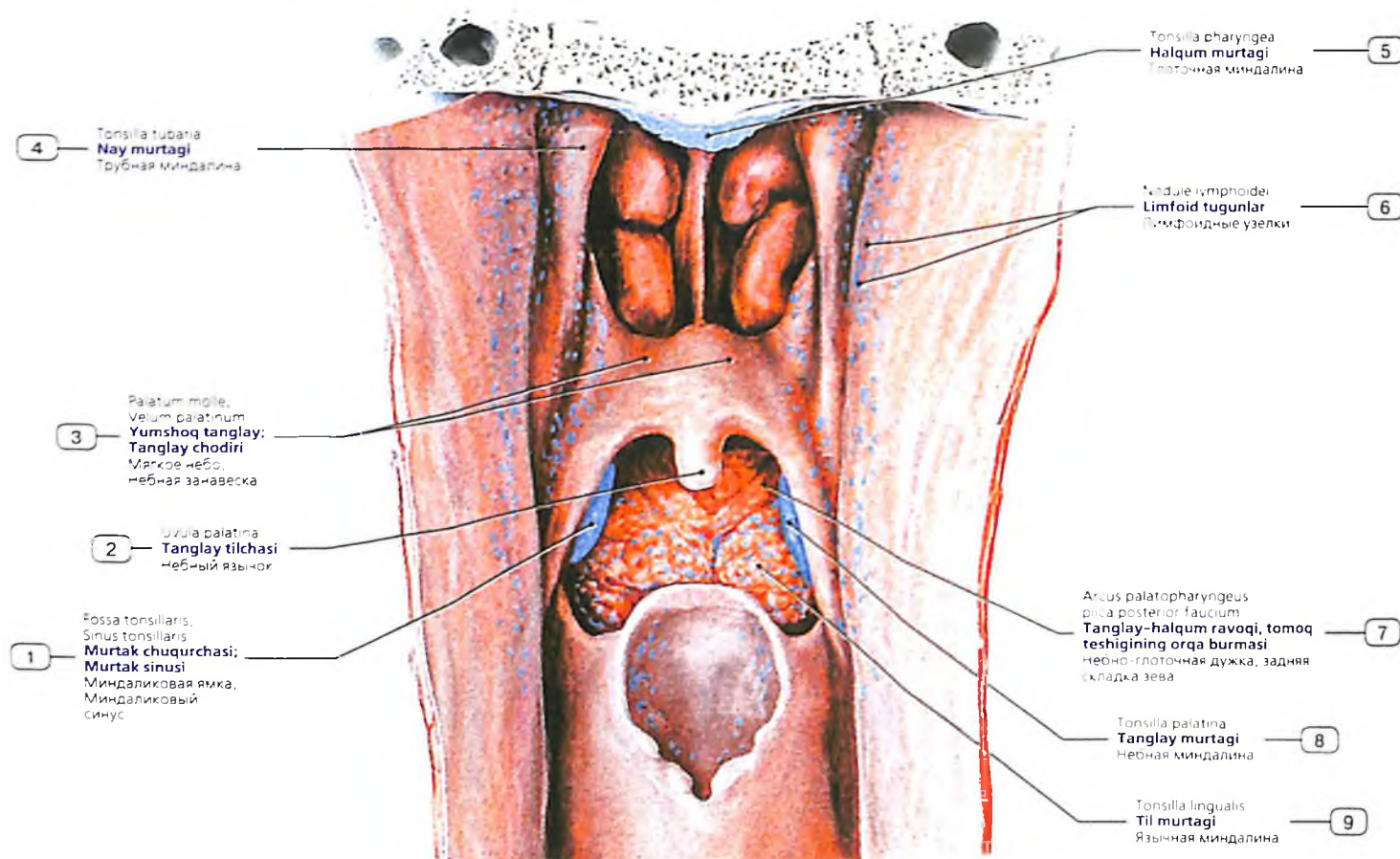


Rasm № 657. Suyak ko'migi (A — sariq; B — qizil).
Рисунок № 657. Костный мозг (А — желтый; Б — красный).



Rasm № 658. Ayrisimon bez topografiyasi.
Рисунок № 658. Топография тимуса.

- | | | | |
|---|-------------------------------|--------------------------------------|-------------------------------|
| 1 Anterior mediastinal nodes | 8 Internal thoracic veins | 15 Left recurrent laryngeal nerve | 22 Left lung, anterior border |
| 2 Parietal pleura, diaphragmatic part | 9 Right subclavian vein | 16 Left brachiocephalic vein | 23 Thymus, lobe |
| 3 Superior vena cava | 10 Brachial plexus | 17 Trachea | 24 Fibrous pericardium |
| 4 Right lung, superior lobe, upper lobe | 11 Right subclavian artery | 18 Left vagus nerve [X] | 25 Sternal part |
| 5 Phrenic nerve | 12 Inferior thyroid vein | 19 Parietal pleura, mediastinal part | 26 Sternum |
| 6 Right brachiocephalic vein | 13 Thyroid gland | 20 Left subclavian artery | |
| 7 Pericardiophrenic veins | 14 Left common carotid artery | 21 Brachiocephalic trunk | |

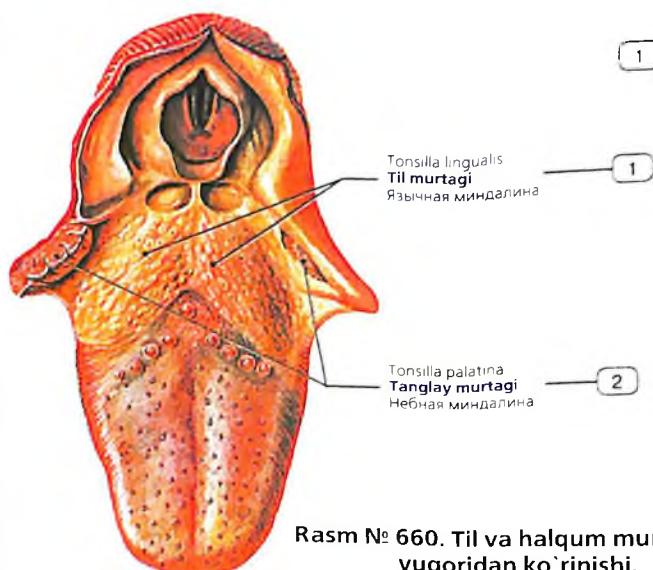


Rasm № 659. Halqumning limfoid tuzilmalari, halqumning frontal kesimi, ichkaridan ko'rinishi.
Рисунок № 659. Лимфоидные органы глотки, фронтальный разрез глотки, вид изнутри.

- 1 Tonsillar sinus, Tonsillar fossa, Tonsillar bed
- 2 Uvula
- 3 Soft palate

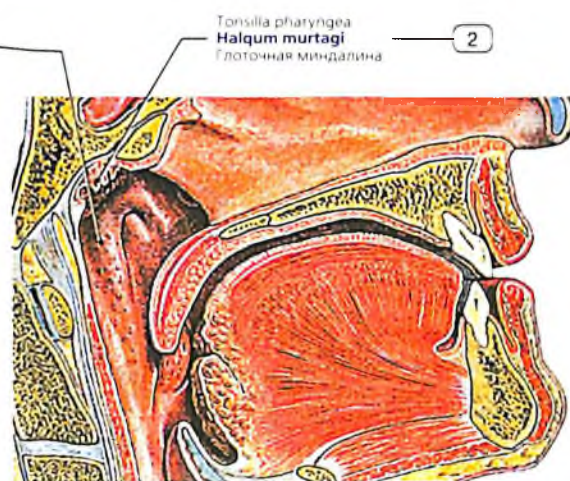
- 4 Tubal tonsil
- 5 Pharyngeal tonsil
- 6 Lymphoid nodules

- 7 Palatopharyngeal arch, posterior pillar of fauces
- 8 Palatine tonsil
- 9 Lingual tonsil



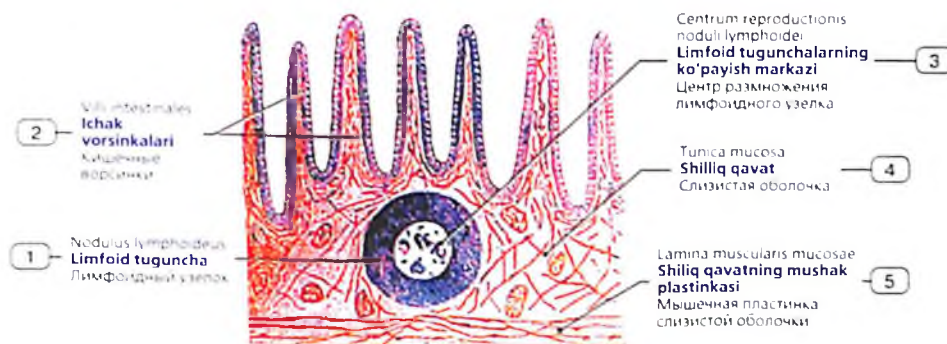
Rasm № 660. Til va halqum murtaklari, yuqoridan ko'rinishi.
Рисунок № 660. Язычная и глоточная миндалины, вид сверху.

- 1 Lingual tonsil
- 2 Palatine tonsil



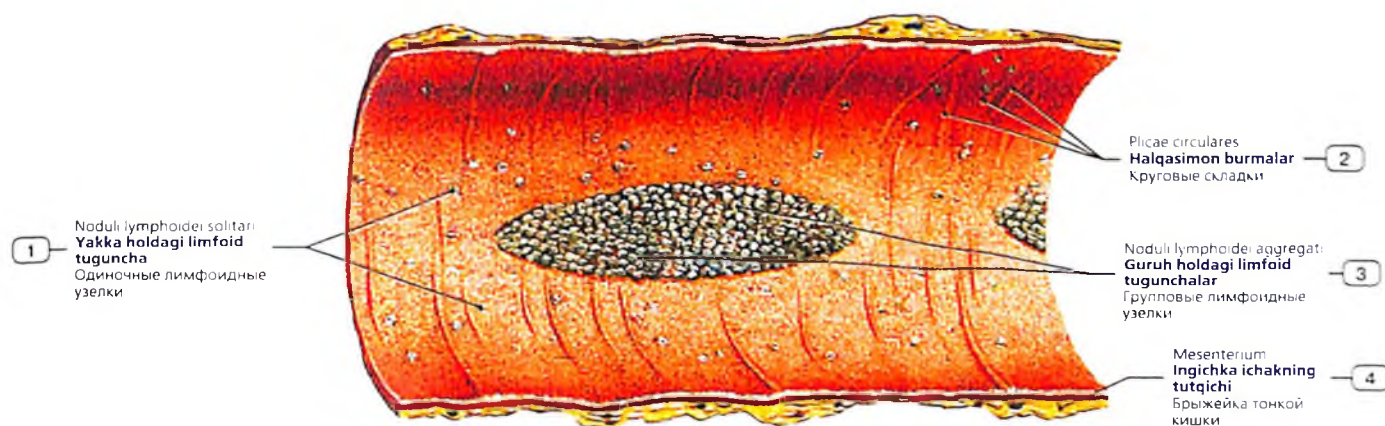
Rasm № 661. Nay va halqum murtaklari, yon tomondan ko'rinishi.
Рисунок № 661. Трубная и глоточная миндалины, вид сбоку.

- 1 Tubal tonsil
- 2 Pharyngeal tonsil



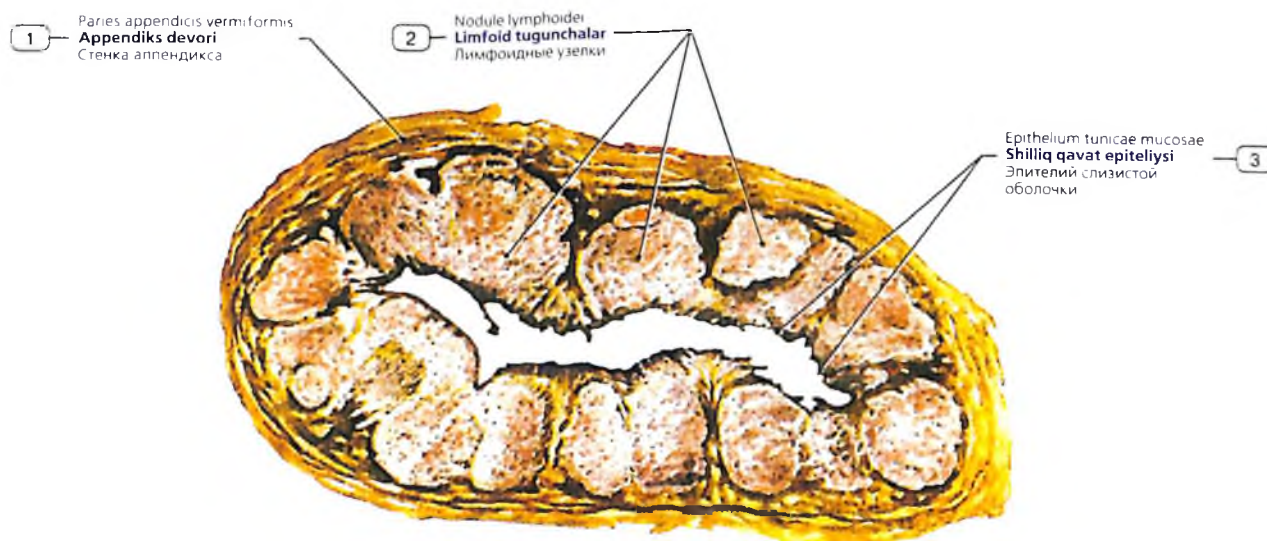
Rasm № 662. Limfoid tugunchalarning ichak devorida joylashuvi (chizma).
Рисунок № 662. Расположение лимфоидного узелка в кишечной стенке (схема).

- | | | |
|----------------------|--|---------------------------|
| 1 Lymphoid nodule | 3 Center for reproduction of lymphoid nodule | 4 Mucosa, Mucous membrane |
| 2 Villi intestinales | | 5 Muscularis mucosae |



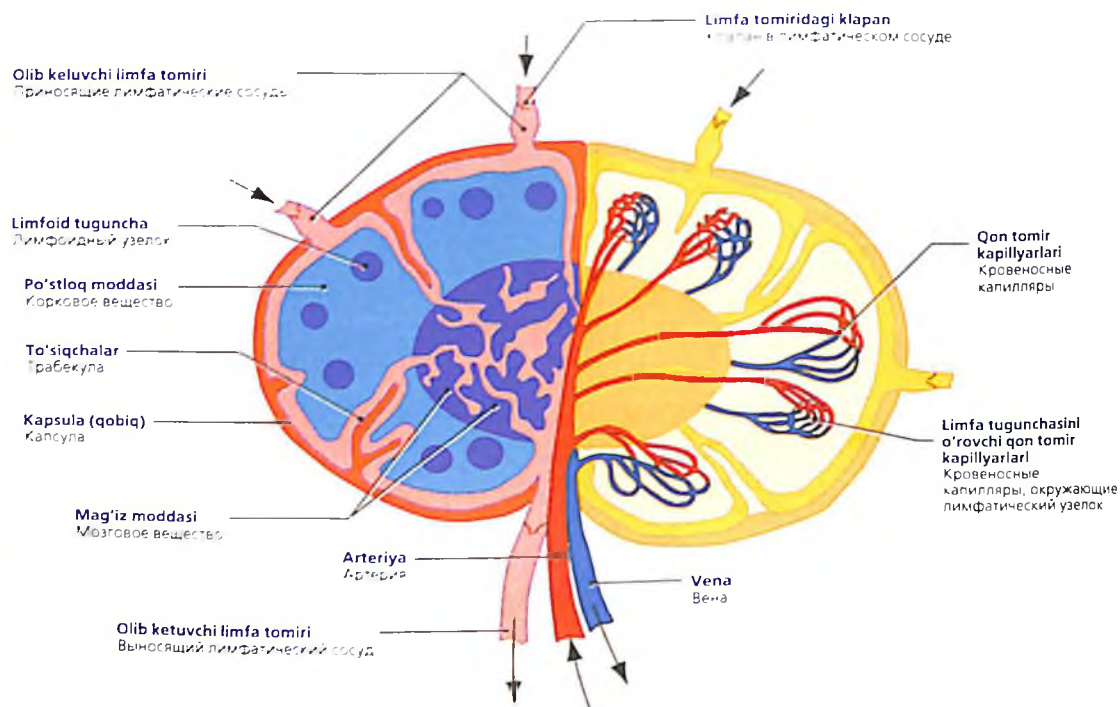
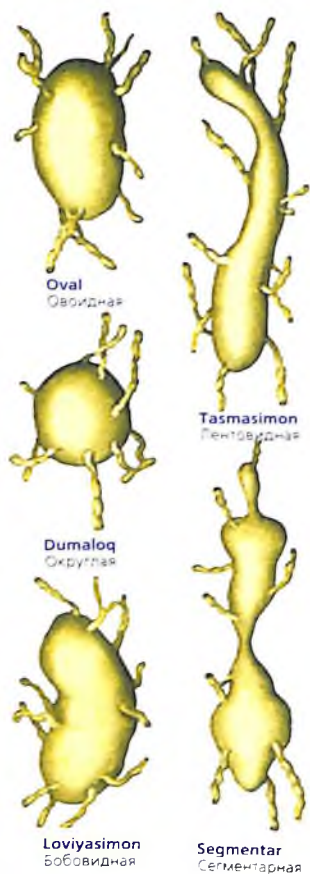
Rasm № 663. Limfoid (pilakcha) hosila.
Рисунок № 663. Лимфоидная бляшка.

- | | |
|-----------------------------|-------------------------------|
| 1 Solitary lymphoid nodules | 3 Aggregated lymphoid nodules |
| 2 Circular folds | 4 Mesentery |



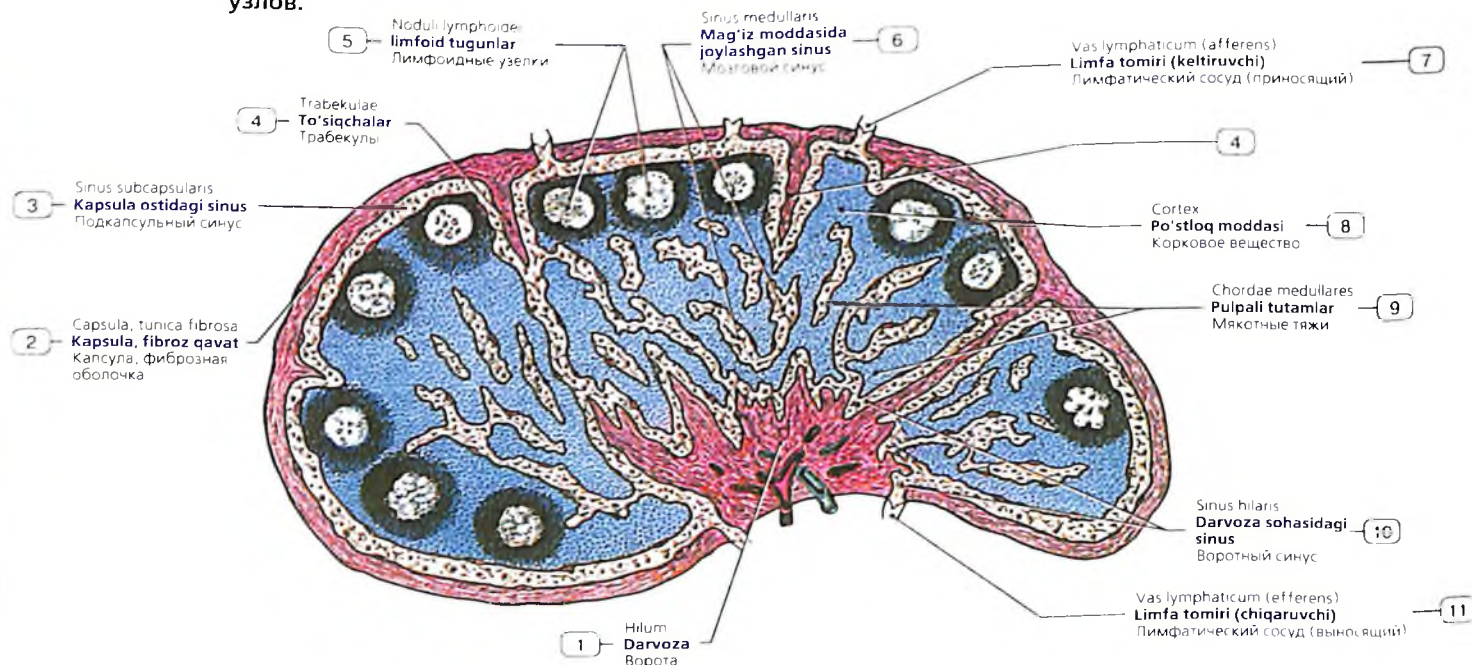
Rasm № 664. Chuvalchangsimon o'simta limfoid tugunchalari, chuvalchangsimon o'simtaning ko'ndalang kesimi.
Рисунок № 664. Лимфоидные узелки аппендикса, поперечный разрез аппендикса.

- | | | |
|--------------------|--------------------|-----------------------------|
| 1 Wall of appendix | 2 Lymphoid nodules | 3 Epithelium mucosal tunica |
|--------------------|--------------------|-----------------------------|



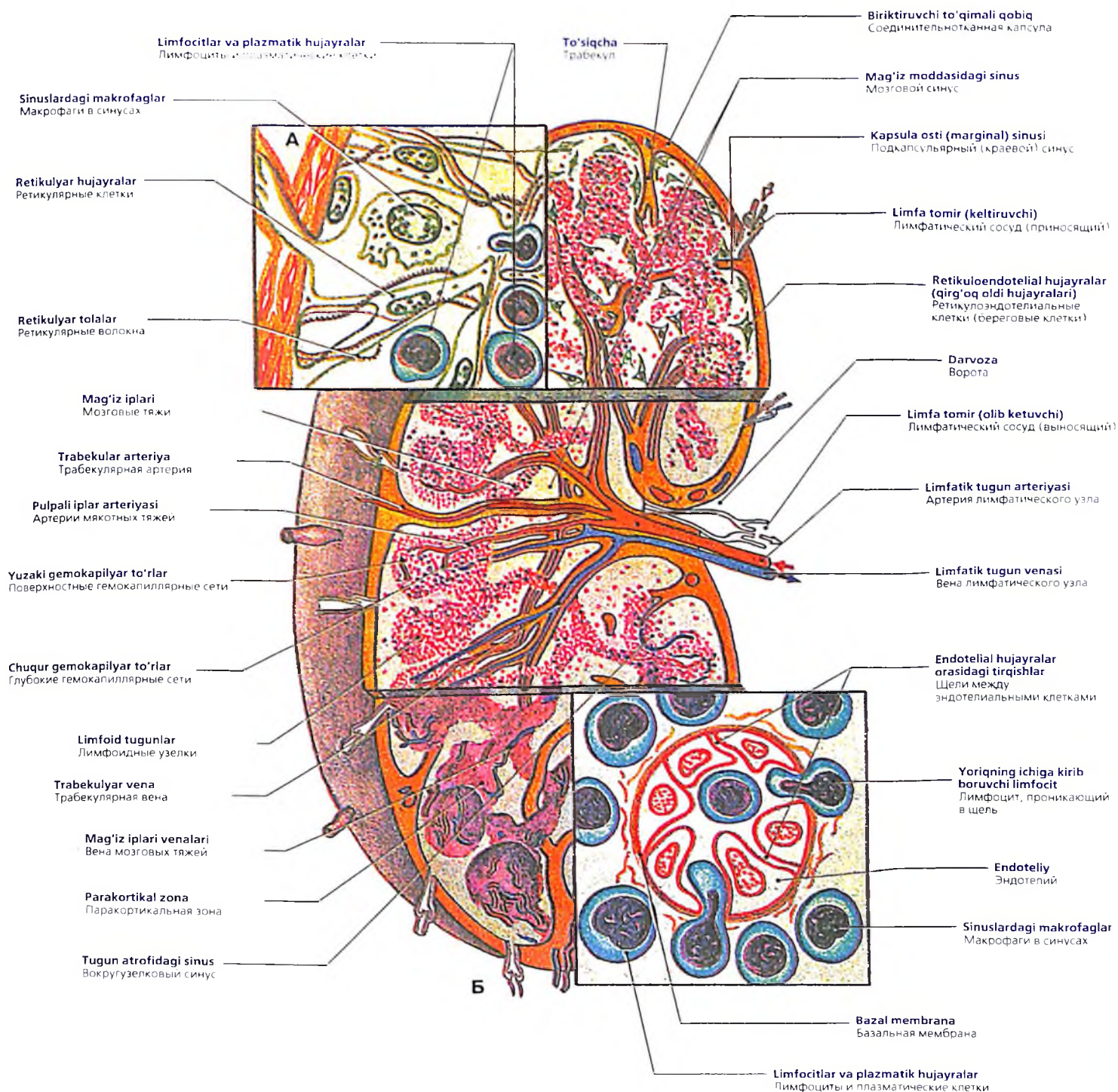
Rasm № 666. Limfa tuguninig tuzilishi (chapda — limfa oqimi, o'ngda — qon oqimi) joylashuvi (chizma).
Рисунок № 666. Строение лимфатического узла (слева — ток лимфы, справа — ток крови) (схема).

Rasm № 665. Limfa tugunlari shakllari. Joylashuvi (chizma).
Рисунок № 665. Формы лимфатических узлов.

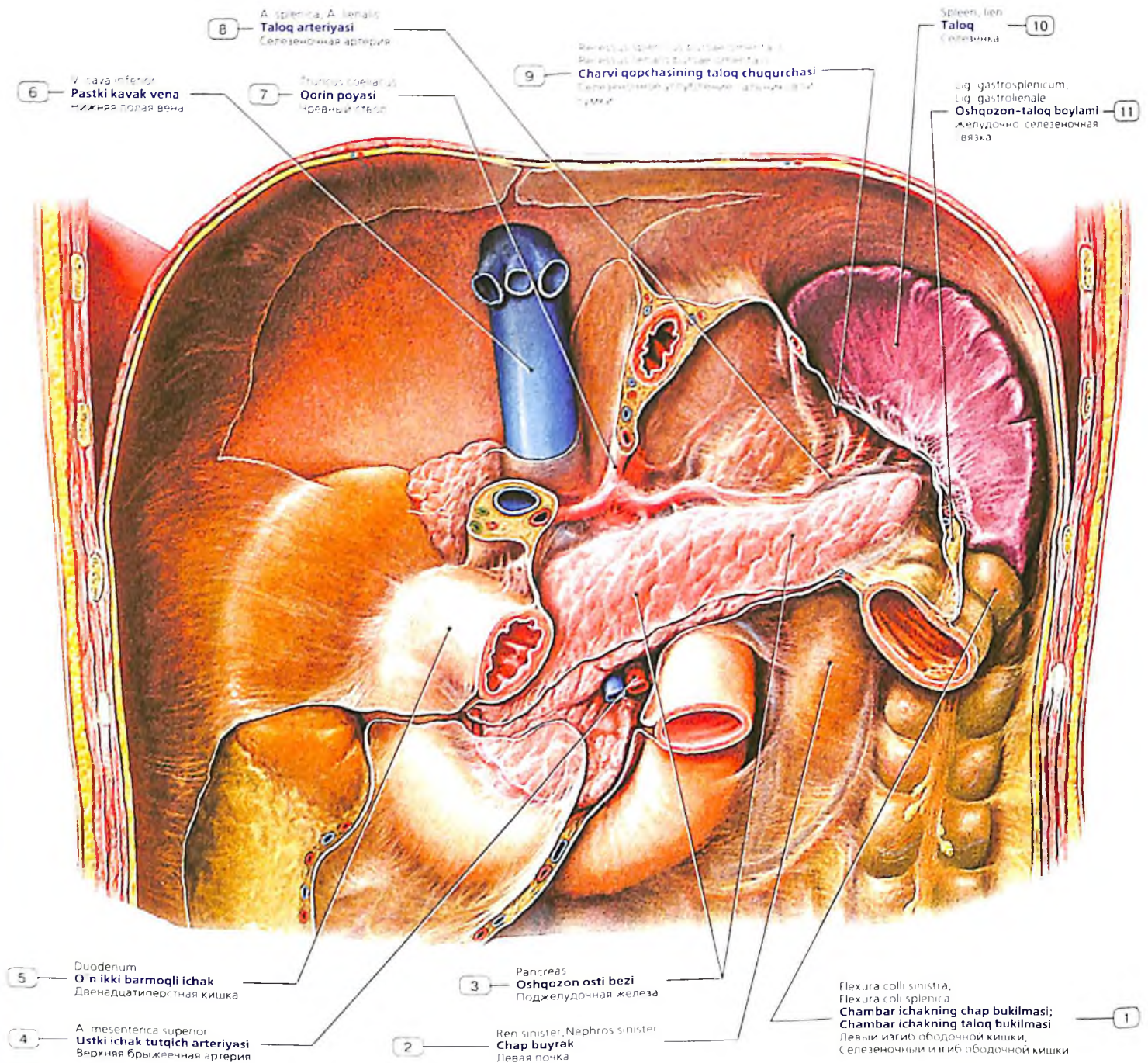


Rasm № 667. Limfa tugunining tuzilishi, bo'ylama kesim.
Рисунок № 667. Строение лимфатического узла, продольный разрез.

- | | | | |
|---------------------|--------------------|-------------------------------|--------------------------------|
| 1 Hilum | 4 Trabekulae | 7 Lymphatic vessel (afferent) | 10 Sinus hilaris |
| 2 Fibrous capsule | 5 Lymphoid nodules | 8 Cortex | 11 Lymphatic vessel (efferent) |
| 3 Subcapsular sinus | 6 Medullary sinus | 9 Medullary for chorda | |

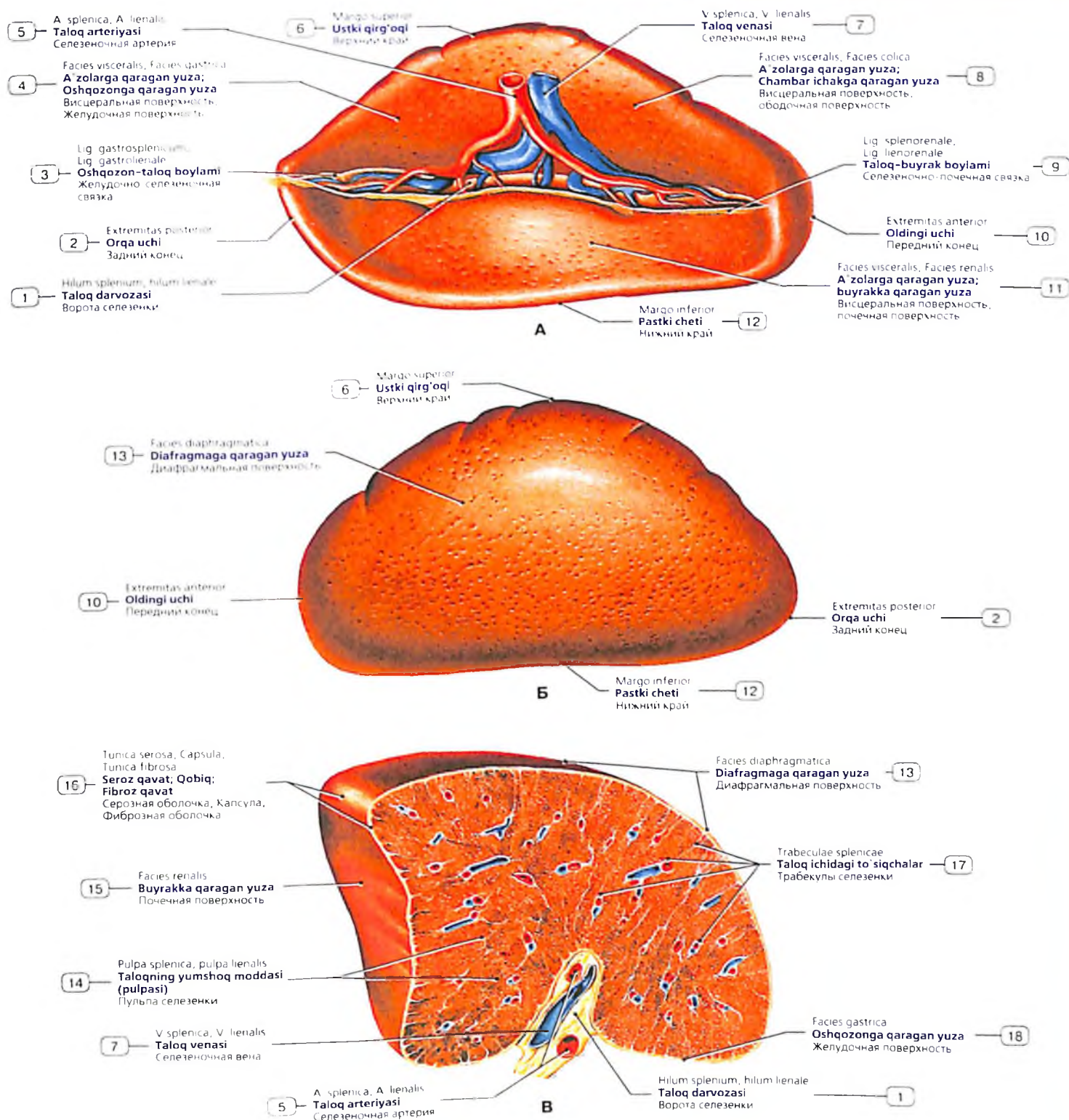


Rasm № 668. Limfa tugunining tuzilishi (A — marginal sinus; B — postkapilyar venula) (chizma).
Рисунок № 668. Строение лимфатического узла (A — краевой синус; B — посткапиллярная венула) (схема).



Rasm № 669. Taloq topografiyasi.
Рисунок № 669. Топография селезенки.

- | | | |
|-------------------------------|-----------------------|--|
| 1. Left colic flexure | 5. Duodenum | 9. Splenic recess of omentalis b. |
| 2. Left kidney | 6. Inferior vena cava | Splenic recess of lesser sac |
| 3. Pancreas | 7. Coeliac trunk | 10. Spleen |
| 4. Superior mesenteric artery | 8. Splenic artery | 11. Gastro-splenic ligament, Splenic flexure |



Rasm № 670. Taloq (A — oldindan ko`rinishi; B — yuqori lateral tomondan ko`rinishi; B — yuqori medial tomondan ko`rinishi, darvoza sohasidan ko`ndalang kesma o`tkazilgan).

Рисунок № 670. Селезенка (А — вид с вентральной стороны; Б — с верхнелатеральной стороны; В — с верхнемедиальной стороны, поперечный разрез через ворота).

- Splenic hilum
- Posterior extremity
- Gastro-splenic ligament
- Visceral surface, Gastric surface
- Splenic artery
- Superior border

- Splenic vein
- Visceral surface, Colic surface
- Splenorenal ligament, Lienorenal ligament
- Anterior extremity
- Visceral surface, Renal surface
- Inferior border

- Diaphragmatic surface
- Splenic pulp
- Renal surface
- Serosa, Serous coat, Fibrous capsule
- Splenic trabeculae
- Gastric surface

39 — jadval. Baʼzi ichki aʼzolar limfa suyuqligi oqib keladigan limfa tugunlar guruhi

Aʼzo	Aʼzoning qismi (yuzasi)	Limfa tugunlar guruhi
Til		Engak osti tugunlari, boʻyinning lateral chudur tugunlari (ichki boʻyinturugʻi)
Halqum		Boʻyinning lateral chudur tugunlari (ichki boʻyinturugʻi tugunlari), halqum ostidagi tugunlar, traxeya atrofidagi tugunlar (halqumning hqiildoq qismidan)
Qiziloʻngach	Boʻyin qismi	Traxeya atrofidagi tugunlar, yuqori va pastki traxeya-bronx tugunlari, umurtasidagi orqa oldi tugunlari
	Koʻkrak qismi	Pastki traxeya-bronx tugunlari, koʻks oraliq, orqa tugunlari, qiziloʻngach atrofi limfa tugunlari, bel kardial lateral tugunlar, toʻgʻridan toʻgʻri koʻkrak yoʻliga ochiladi
	Qorin qismi	Kardial limfa tugunlari
Oshqozon	Oshqozonning kardial qismi, oldingi, orqa devori, oshqozon tubining oʻng qismi	Kardial limfa tugunlari
	Oshqozonning kichik egriligi	Oshqozon chap limfa tugunlari
	Oshqozonning pilorik qismi (yuqori yarim aylanasi)	Oshqozon oʻng tomoni va jigar limfa tugunlari
	Oshqozonning pilorik qismi (pastki yarim aylanasi)	Oshqozon pilorik qismi limfa tugunlari
	Oshqozon katta egriligining oʻng qismi	Oshqozon - charvi oʻng limfa tugunlari
	Oshqozon katta egriligining chap qismi	Oshqozon - charvi chap limfa tugunlari
	Oshqozon tubining chap qismi	Taloq limfa tugunlari
Jigar	Diafragmal yuzasi	Diafragmaning ustki yuzasidagi tugunlar (yurak xaitasi), toʻsh atrofi limfa tugunlari
	Jigar oʻng boʻlagining vistseral yuzasi	Jigar, oshqozon osti bezi, 12-barmoqli ichak, pastki diafragmal, qorin poyasi va oʻng bel limfa tugunlari
	Jigar chap boʻlagining vistseral yuzasi	Jigar, oʻng va chap oshqozon, oshqozonning pilorik qismi orti, bel, kardial soha limfa tugunlari
Oʻt pufagi		Jigar va oʻt pufagining tugunlari
Ingichka ichak		Yuqori tutqich tugunlar, yonbosh chambar tugunlari, (yonbosh ichakning terminal qismi)
Koʻnichak		Yonbosh chambar tugunlari
Chambar ichak		Chambar ichak atrofidagi tugunlar (oʻng, oʻrta, chap)
Toʻgʻrichak	Pastki qismi (orqa chiqaruv kanali)	Toʻgʻrichak atrofidagi limfa tugunlar (anorektal), chovning yuza tugunlari
	Ampula qismi	Toʻgʻrichak atrofidagi limfa tugunlar (anorektal), ichki yonbosh va dumgʻaza tugunlari
	Yuqori qismi	Toʻgʻrichak ustki tugunlari, pastki tutqich tugunlari, bel tugunlari
Hqiildoq		Boʻyinning lateral chudur tugunlari (ichki boʻyinturugʻi tugunlari), hqiildoq oldi, traxeya oldi va traxeya atrofi limfa tugunlari
Oʻng bronx	Yuqori boʻlak	Bronx va oʻpka tugunlari, traxeya va bronxlarning ustki, pastki tugunlari
	Oʻrta boʻlak	
	Pastki boʻlak	Oʻng bronx va oʻpka tugunlari, traxeya va bronxlarning pastki tugunlari, koʻks oraliqining orqa, qiziloʻngach atrofi limfa tugunlari
Chap bronx	Yuqori boʻlak	Chap bronx va oʻpka tugunlari, traxeya va bronxlarning yuqori tugunlari, koʻks oraliqining oldingi tugunlari
	Pastki boʻlak	Chap bronx va oʻpka tugunlari, traxeya va bronxlarning yuqori tugunlari, koʻks oraliqining oldingi tugunlari, orqa tugunlari
Oʻng traxeya		Bel limfa tugunlari, kavalak venaning lateral, oldingi, orqa yuzasidagi limfa tugunlari
Chap traxeya		Bel limfa tugunlari, kavalak venaning lateral, oldingi, orqasidagi limfa tugunlari, belning yatalimfa tugunlari
Yonbosh ichak		Ichki yonbosh tugunlari

39 — jadval yakuni

A*zo	A*zoning qismi (yuzasi)	Limfa tugunlar guruhi
Siydik pufagi		Ichki yonbosh limfa tugunlari
Prostata		Ichki yonbosh limfa tugunlari
Moyak		Bel sohasi limfa tugunlari
Bachadon		Ichki va tashqi yonbosh tugunlari, to'g'ri ichak atrofidagi tugunlar (anorektal sohasi), bel limfa tugunlari (bachadon tubidan)
Bachadon nayi		Bel limfa tugunlari
Tuxumdon		Aortaning lateral, oldingi (chapdan), belning oralig'dagi tugunlari, kavak venaning lateral, oldingi yuzasidagi tugunlari, ichki va umumiy yonbosh tugunlari
Sut bezi	Yuqori lateral kvadrant	Qo'ltiq ostidagi limfa tugunlar (pastki, medial, cho'qqi limfa tugunlari), bo'yinning lateral chuqur tugunlari (o'mrov usti tugunlari), to'sh atrofidagi tugunlar
	Pastki lateral kvadrant	Qo'ltiq osti (pastki, medial), to'sh atrofi limfa tugunlari
	Yuqori medial kvadrant	To'sh atrofi, oldingi ko'ks, qo'ltiq osti limfa tugunlari
	Pastki medial kvadrant	To'sh atrofi, qo'ltiq osti limfa tugunlari

40 — jadval. Limfa poyalari va naylari (yo'llari) tasnifi

Nomlanishi	Limfa oqib ketaqadigan soha	Boshlanish joyi	Limfa tomirlar yo'nalishi va quyilish joyi
Ko'krak limfa yo'li (uzunligi 30-41sm)	Ko'krak bo'shlig'ining chap yarmi	Belning o'ng, chap va toq bo'lgan ichak limfa poyalarining qo'shilishidan hosil bo'ladi (ThXII-LI sathida)	Ko'krak limfa yo'lining boshlang'ich qismi diafragmaning o'ng oyoqchasiga yopishgan. Diafragmaning aorta teshigi orqali orqa ko'ks oralig'iga o'tib, umurtqa pog'onasining oldingi qismidan, qizilo'ngachning orqasidan, aortaning ko'krak qismi va toq vena orasidan yuqoriga ko'tariladi. II-III ko'krak umurtqalari sathida, qizilo'ngachning chap qirrasidan o'tib, chap o'mrov osti, umumiy uyqu arteriyalari va adashgan nerv ortidan yuqoriga ko'tariladi. Yuqori ko'ks oralig'ida ko'krak limfa yo'li ko'ks oralig'ini qoplab turuvchi plevra (chapdan), qizilo'ngach (o'ngdan), umurtqa pog'onasi (orqadan) orasidan o'tadi. V-VII bo'yin umurtqalari sathida ko'krak limfa yo'lining bo'yin qismi yuqoridan plevra cho'qqisini aylanib o'tib, ravoq hosil qiladi va chap Pirogov venoz burchagiga quyiladi.
Bo'yinturuq limfa poyasi (o'ng va chap)	Bosh va bo'yinning o'ng yarmidan o'ng poyaga, bosh va bo'yinning chap yarmidan chap poyaga	Bo'yinning tegishli tomonidagi lateral chuqur limfa tugunlaridan olib chiquvchi limfa tomirlaridan	O'ng bo'yinturuq limfa poyasi o'ng venoz burchakka, o'ng ichki bo'yinturuq venasiga quyiladi yoki o'ng limfa yo'li hosil bo'lishida qatnashadi, chap bo'yinturuq limfa poyasi venoz burchakka, ichki bo'yinturuq venasiga yoki ko'p hollarda ko'krak limfa yo'lining bo'yin qismiga quyiladi.
O'mrov osti limfa poyasi (o'ng va chap)	O'ng qo'ldan limfa o'ng o'mrov osti limfa poyasiga, chap qo'ldan esa chap o'mrov osti limfa poyasiga	Qo'ltiq osti limfa tugunlaridan olib chiquvchi limfa tomirlaridan	O'ng o'mrov osti limfa poyasi o'ng venoz burchakka yoki o'ng o'mrov osti venasiga, chap o'mrov osti limfa poyasi esa chap venoz burchakka yoki chap o'mrov osti venasiga, ba'zan ko'krak limfa yo'lining oxirgi qismiga quyilishi mumkin.
O'ng limfa yo'li (doimiy bo'lmagan, 18-19% hollarda uchraydi, uzunligi 10-12 mm)	O'ng o'mrov osti, o'ng bo'yinturuq va o'ng bronx ko'ks oralig' limfa poyalaridan limfani yig'adi	O'ng bo'yinturuq va o'ng o'mrov osti limfa poyalarining qo'shilishidan hosil bo'ladi	Ichki bo'yinturuq venasi va o'mrov osti venasi hosil qilgan venoz burchakka quyiladi, ba'zan ichki bo'yinturuq venasining oxirgi qismiga, kam holatlarda esa o'mrov osti venasiga quyilishi mumkin.
O'ng bronx ko'ks oralig' limfa poyasi	Ko'krak bo'shlig'ining o'ng yarmida joylashgan a'zolardan limfani yig'adi		O'ng limfa yo'lga yoki to'g'ridan to'g'ri o'ng venoz burchakka quyiladi.
Chap bronx ko'ks oralig' limfa poyasi	Ko'krak bo'shlig'ining chap yarmida joylashgan a'zolardan limfani yig'adi		

O'zbek tilidagi terminlar (atamalar) mundarijasi

A

A zolarga qaragan yuza, Buyrakka qaragan yuza 565
 A zolarga qaragan yuza, Chambar ichakga qaragan yuza 565
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O`quv darsligi

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Rossiya Fanlar Akademiyasi akademigi

L.L.Kolesnikov tahriri ostida

ODAM ANATOMIYASI

ATLAS – DARSLIK UCHTA TOMDA

2 TOM

Splanxnologiya va yurak qon-tomir tizimi

Kitob «BiTuBi Grupp» OAJ nashriyoti tomonidan chop etishga tayyorlangan.



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Odam Anatomiyasi

ATLAS

Odam anatomiyasi – fundamental tibbiy – biologik fan boʻlib, inson tanasidagi aʼzolar tizimini yaxlit va har bir aʼzoni alohida oʻrganadi, ularni vazifasiga bogʻliq ravishda rivojlanish qonuniyatlarini tadqiq qiladi.

Ushbu atlas – darslik esa anatomiya fanini oʻqitishdagi barcha yangiliklarni qamrab olib, oʻqitishni yangi bosqichga olib chiqadi.

Yaratilgan ushbu atlas A.I.Yevdokimov nomidagi Moskva davlat tibbiyot – stomatologiya universiteti va Abu Ali ibn Sino nomidagi Buxoro davlat tibbiyot instituti professor – oʻqituvchilarining hamkorlikdagi birinchi ishlari hisoblanadi.

Atlas – darslik nafaqat tibbiyot oliy taʼlim muassasalari talabalari, magistrlar va klinik ordinatorlar uchun, balki tibbiy faoliyat bilan shugʻullanayotgan barcha xodimlar uchun ham foydadan xoli emas.

Atlas tibbiyot oliy taʼlim muassasalari bakalavriat yoʻnalishlari va magistratura mutaxassisliklarida anatomiya fani dasturlari va oʻquv rejalariga mos holda tuzilgan.

Atlas – darslik 3 tomdan iborat boʻlib, anatomik atamalarning nomlari 4 ta tilda (lotin, oʻzbek, rus, ingliz) berilgan. Darslikda 1500 dan ortiq yuqori sifatga ega rasmlar, jadvallar va rentgenogrammalar keltirilgan boʻlib, oʻquvchi uchun yangi imkoniyatlar eshigini ochib beradi. Rasmlarni tavsiflovchi yozuvlar, atamalar rangli shriftda berilgan, rasmlar ostida esa atamalarning ingliz tilidagi tarjimai keltirilgan. Rus, ingliz va lotin tilidagi anatomik terminlar 2003 yildagi «Xalqaro Anatomik terminlar tasnifi» ga asoslanib tayyorlandi, oʻzbek tilidagi anatomik terminlar esa 2007 yildagi professor F.N. Baxadirov tahriri ostida chiqarilgan «Xalqaro Anatomik terminologiya» ga asoslangan.

Bunday 4 tildagi atlas – darslik nafaqat oʻzbek tilida tahsil olayotgan talabalar uchun, balkim rus va ingliz tillarida odam anatomiyasini oʻrganmoqchi boʻlganlar uchun ham asosiy qoʻllanma sifatida foydalanish mumkin.

Atlasning birinchi tomda tayanch harakat tizimi (osteologiya, artrosindesmologiya, miologiya) toʻgʻrisida batafsil maʼlumot keltirilgan.



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