

**Тошкент Тиббиёт Академияси  
Даволаш ва Даволаш ва Санитария-  
гигиена факултетларини  
одам анатомияси ва ОХТА кафедраси**

**Тузувчилар:**

**Доктор медицинских наук, профессор Миршарапов У.М.**

**Кандидат медицинских наук, доцент Тастанова Г.Э**

**Тошкент-2007**

# Лекция №5

Суякларни ўзаро бирлашуви.  
Бўғимлар, уларнинг турлари.

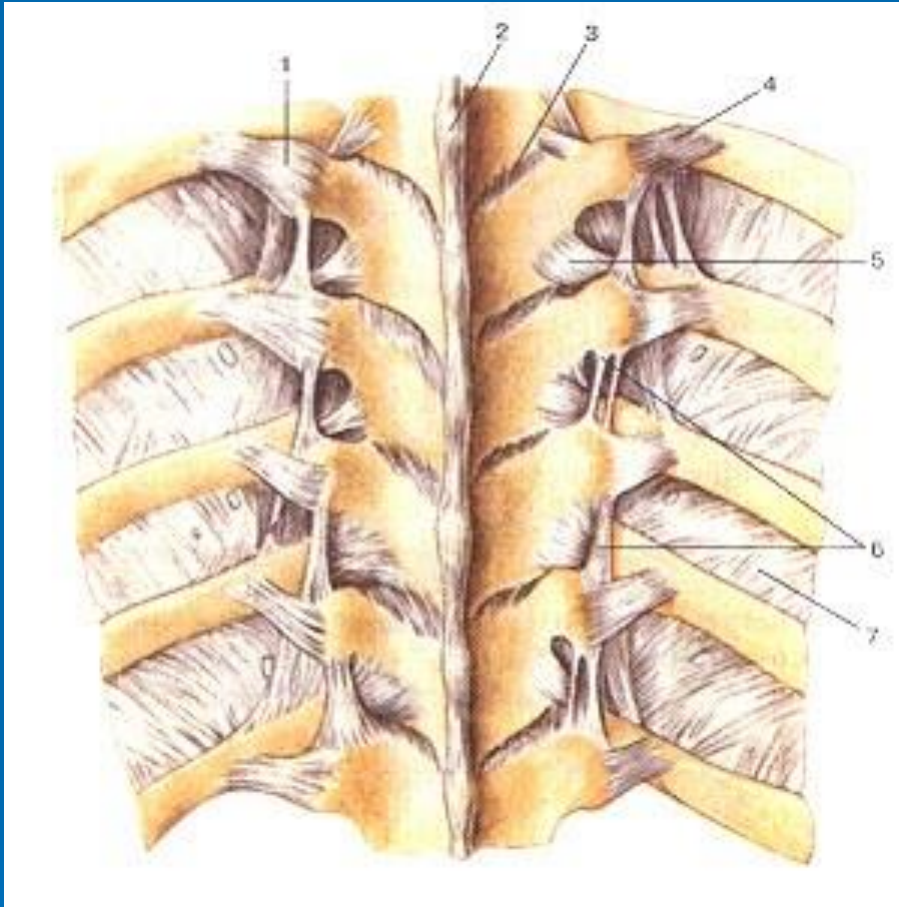


# Маърузанинг мақсади:

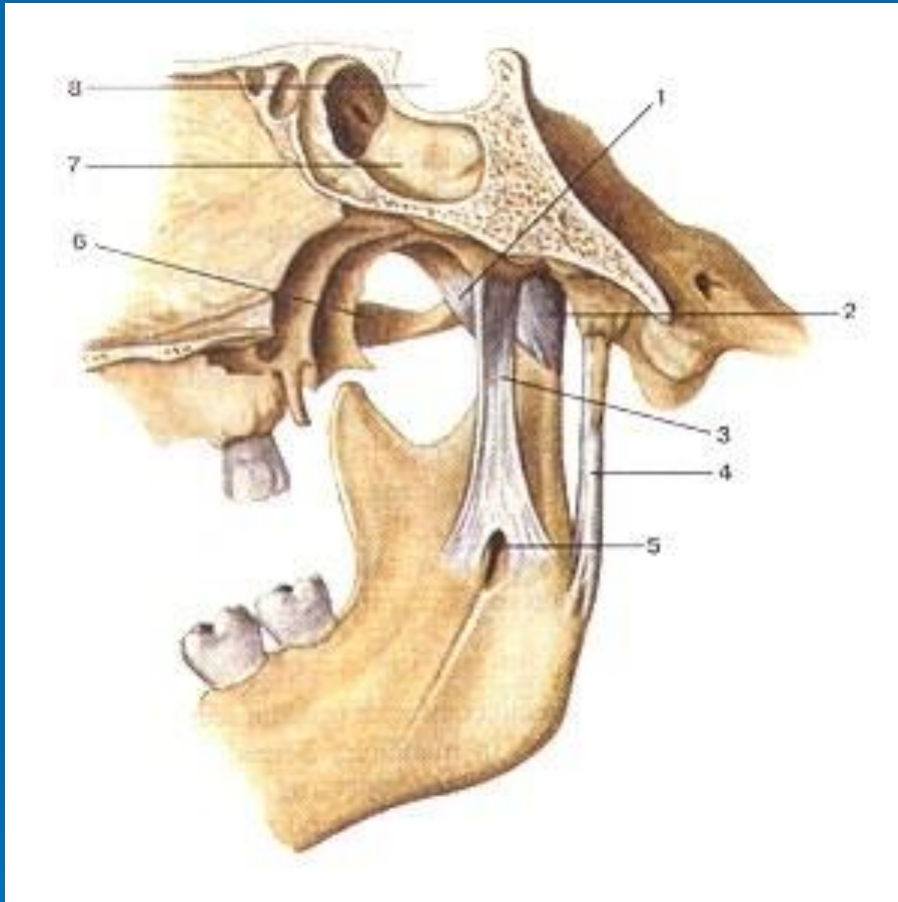
- Талабарни суякларнинг ўзаро бирлашуви. Бўғимлар, уларнинг турлари билан талабаларни таништириш, мақсад ва вазифалари.

# Маърузанинг режаси

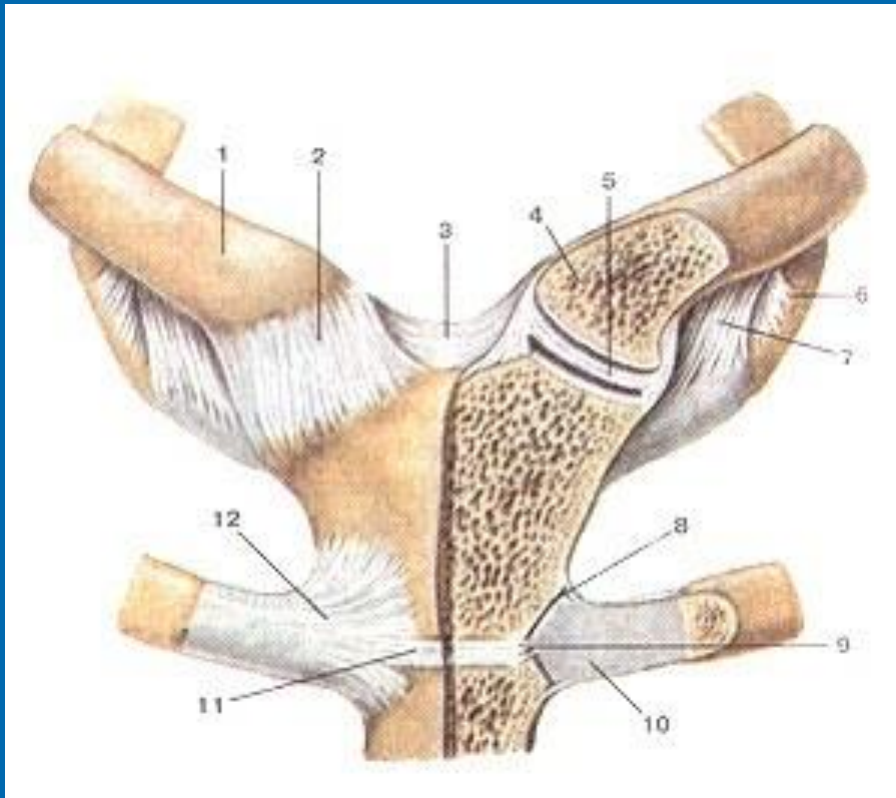
- Узлуксиз бирлашмалар (синдесмоз, синхондроз, синостоз).
- Ҳаракатчан бирлашмалар.
- Бўғимнинг хосил бўлиши, функционал аҳамияти, ёшга нисбатан ўзгариши.
- Бўғим, бўғим юзаларининг шакллари, бўғим ҳалтаси, бўғим бўшлиғи.
- Тоғайдан тузилган (диск, мениск) ва ёрдамчи аппаратларнинг(бойлам, синовиал ҳалтачалар) аҳамияти.
- Бўғимларнинг тараққиёти ва филогенези.
- Бош ва тана суякларининг бирлашуви.
- Қўл ва оёқ суякларининг бирлашуви.
- Хулоса.



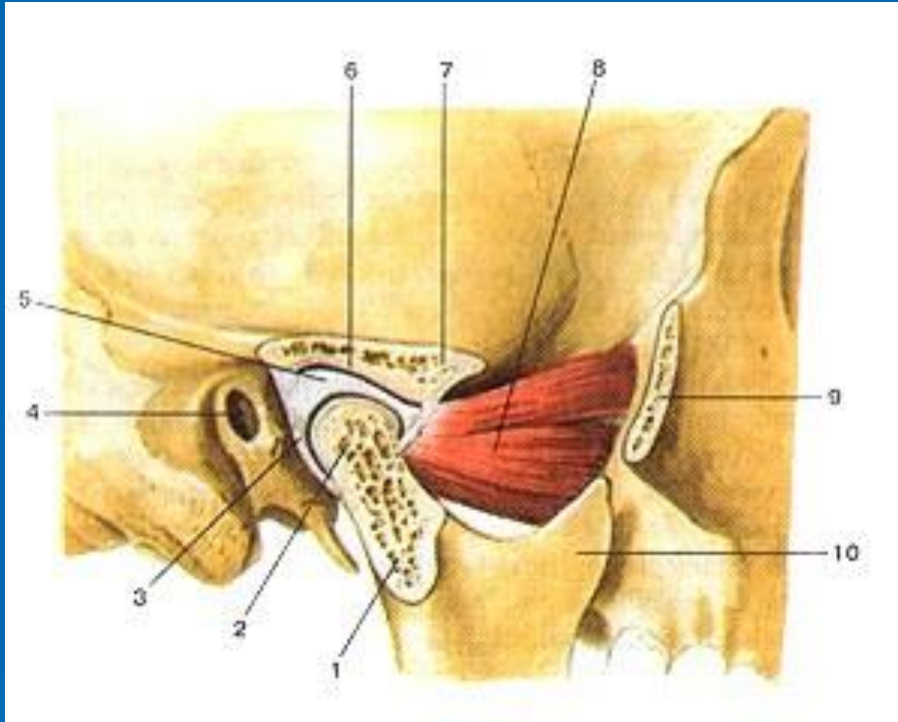
1-ligamentum tuberculi costae; 2-ligamentum supraspinatum; 3-ligamentum flavum; 4-ligamentum costotransversarium; 5-ligamenta costotransversaria lateralia; 6-membrana intercostalis interna.



1-ligamentum laterale (articulatio temporomandibularis); 2-capsula articulationis temporomandibularis; 3-ligamentum sphenomandibulare; 4-ligamentum stylomandibulare; 5-foramen mandibulae; 6-arcus zygomaticus; 7-sinus sphenoidalis; 8-fossa hypophysialis.

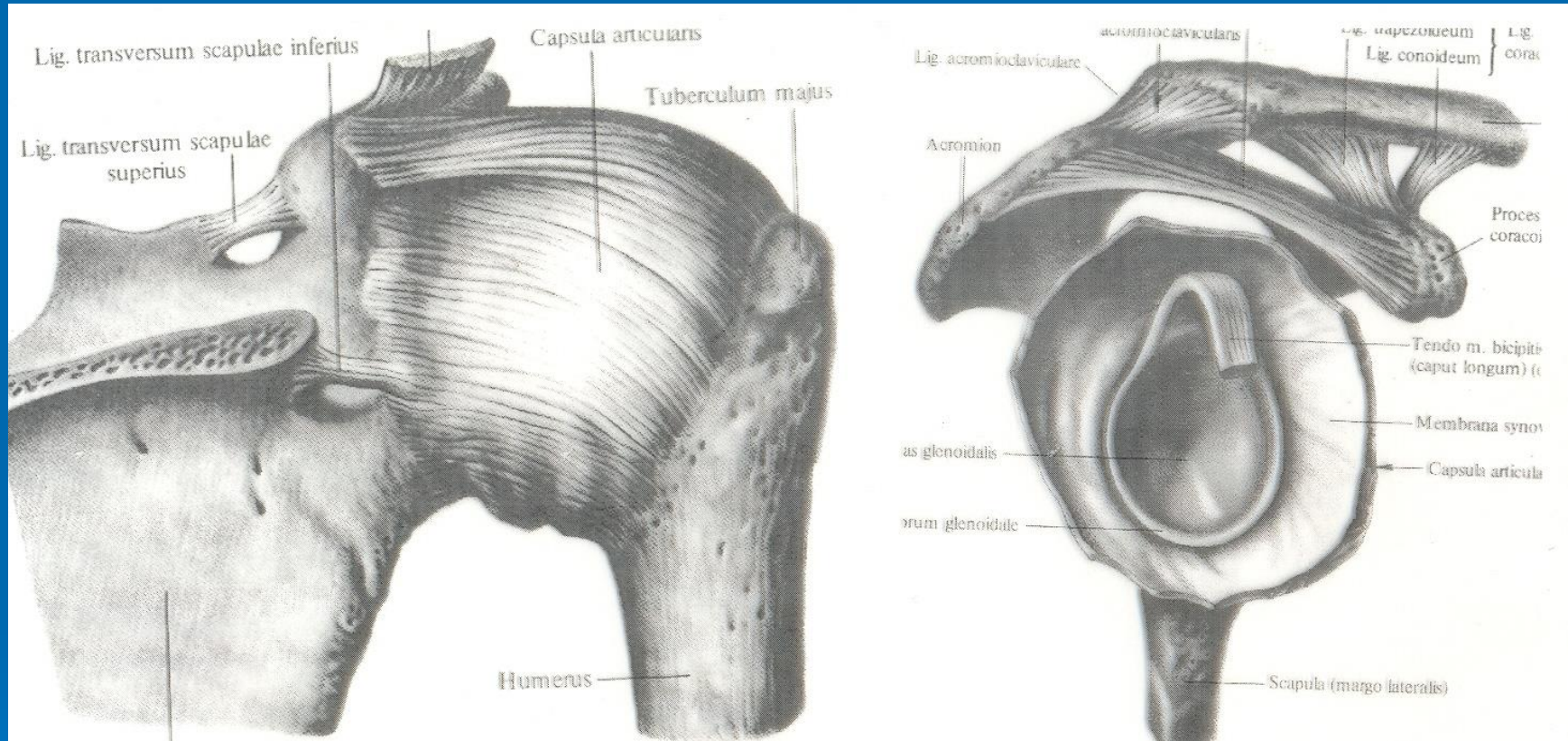


1-clavicula (dextra); 2-ligamentum sternoclaviculare anterius; 3-ligamentum interclaviculare; 4-extremitas sternalis claviculae; 5-discus articularis (articulatio sternoclavicularis); 6-costa (I); 7-ligamentum costoclaviculare; 8-articulatio sternocostalis (II); 9-ligamentum sternocostalis intraarticulare; 10-cartilago costae (II); 11-synchondrosis manubrii sterni; 12-ligamentum sternocostale radiatum.

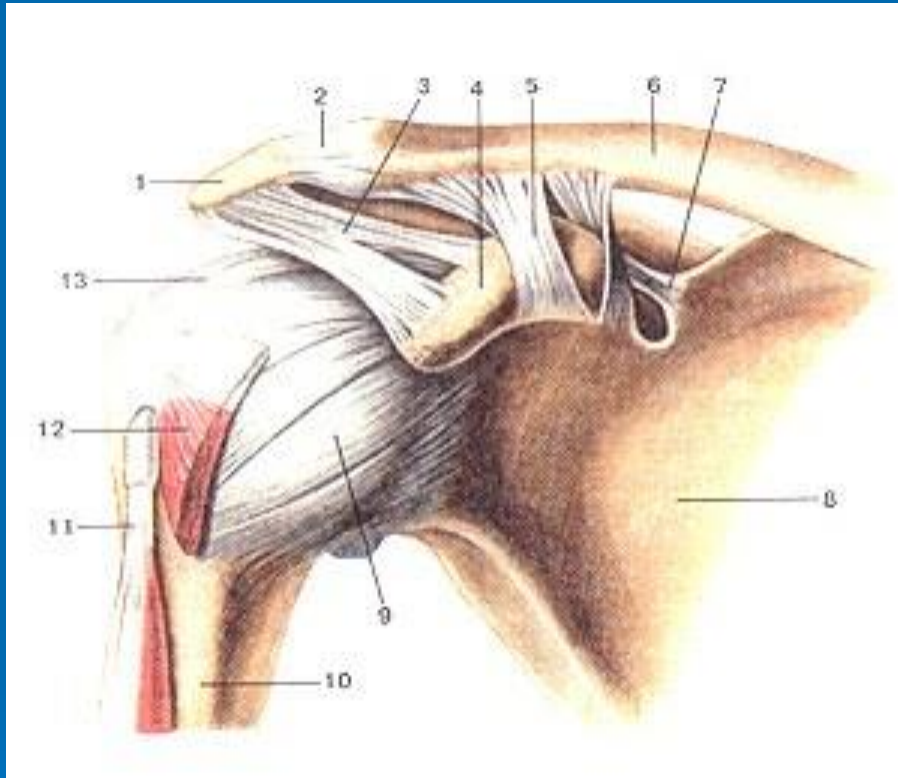


Articulatio temporomandibularis.. 1- processus articularis (condylaris) mandibulae; 2-caput mandibulae; 3- capsula anicularis; 4-porus acusticus extemus; 5-discus articularis; 6-fossa mandibularis; 7- tuberculum articulare; 8- m.pterygoideus later-alis; 9- processus temporalis ossis zygomatici; 10-processus coronoideus.

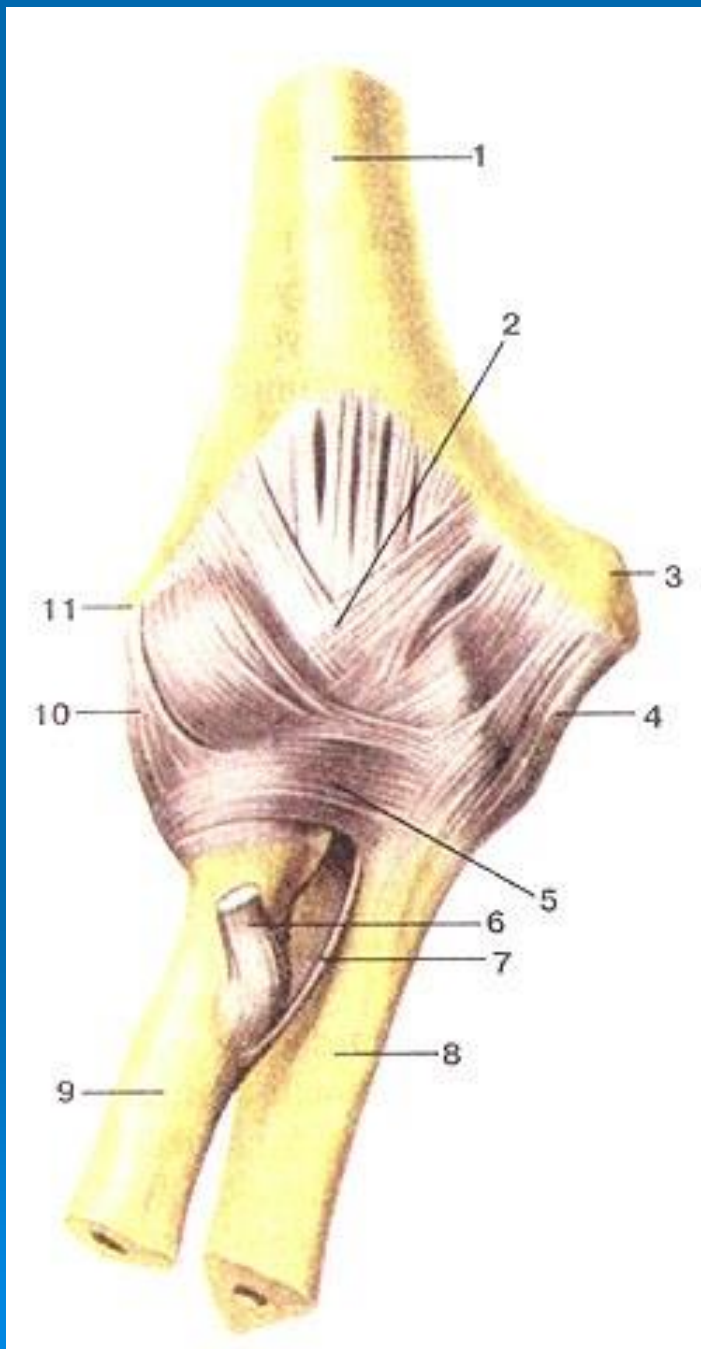




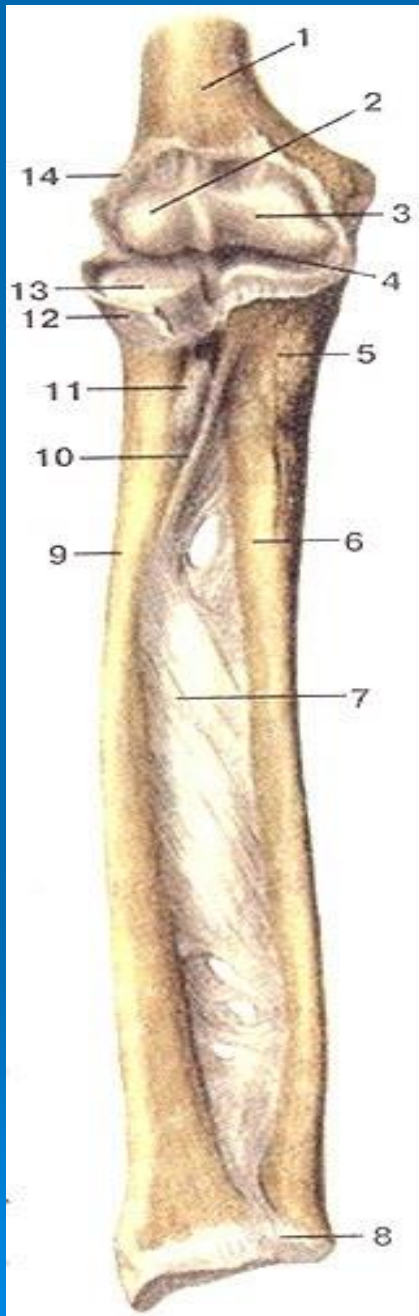
# Елка бугими



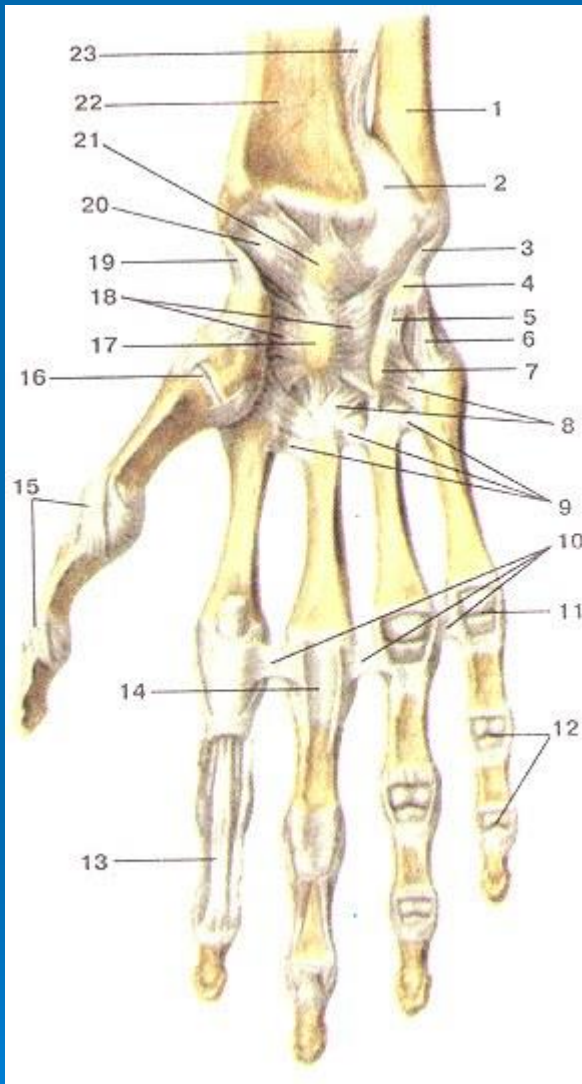
Articulatio humeri. 1-acromion; 2-articulatioacromioclavicularis; 3-caput humeri; 4-cavilasarticularisarticulatioiis humeri; 5-cavitasglenoidale (scapulae); 6-clavicula; 7-scapula; 8-labrum glenoidale; 9-recessus subaxillaris cavi-tae articularis; 10-tcndo m.bicipitis brachii (caput longum); 11-vagina synovialis tendinis m.bicipitis brachii (caput longum); 12-m.del-toideus; 13-bursa subdelloidea.



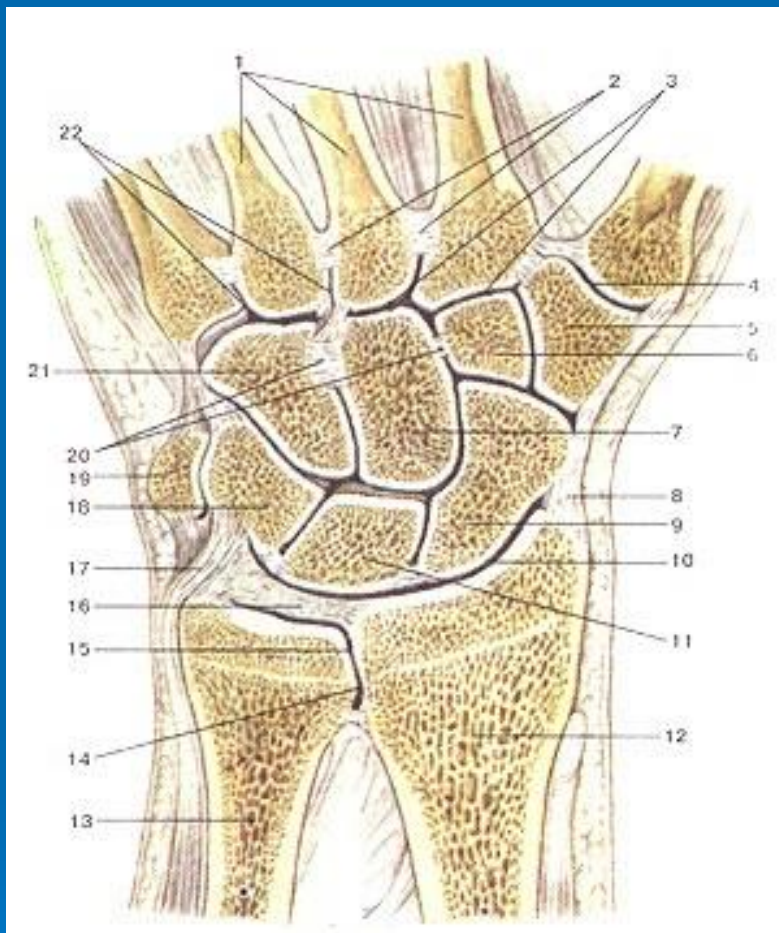
**Articulatio cubiti.**  
1-humerus; 2-capsula articularis; 3-epicondylus medialis humeri; 4-ligamentum collaterale ulnaris; 5-ligamentum anulare radii; 6-tendo m. bicipitis brachii; 7-chorda obliqua; 8-ulna; 9-radius; 10-ligamentum collaterale radiale; 11-epicondylus lateralis.



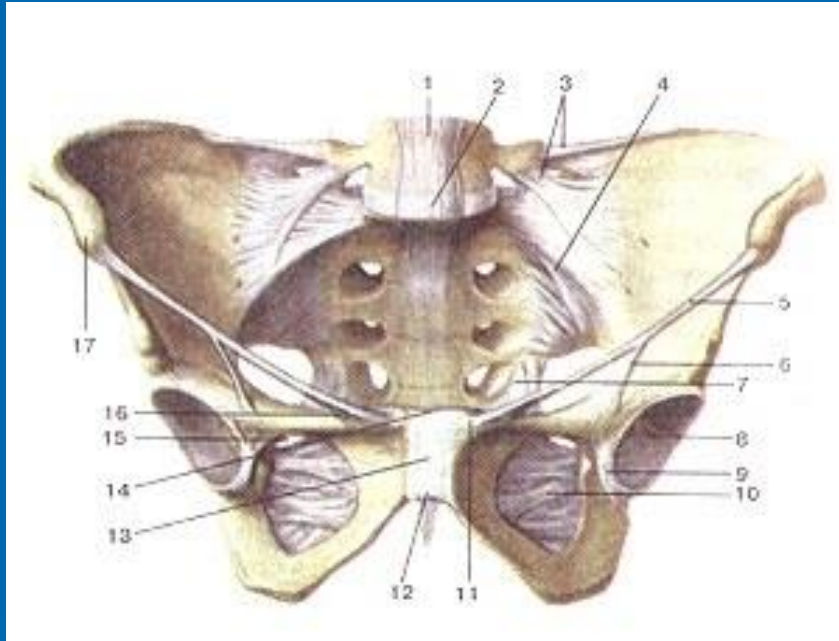
1-humerus; 2-capitulum humeri;  
3-trochanter humeri; 4-cavitas  
articularis; 5-tuberositas ulnae; 6-  
corpus ulnae; 7-membrana  
interossea ante-brachii; 8-  
articulatio radioulnaris distalis; 9-  
corpus radii; 10-chorda obliqua;  
11-tendo in.bicipitis brachii 12-  
ligamentum anulare radii; 13-  
caput radii; 14-capsula  
articularis.



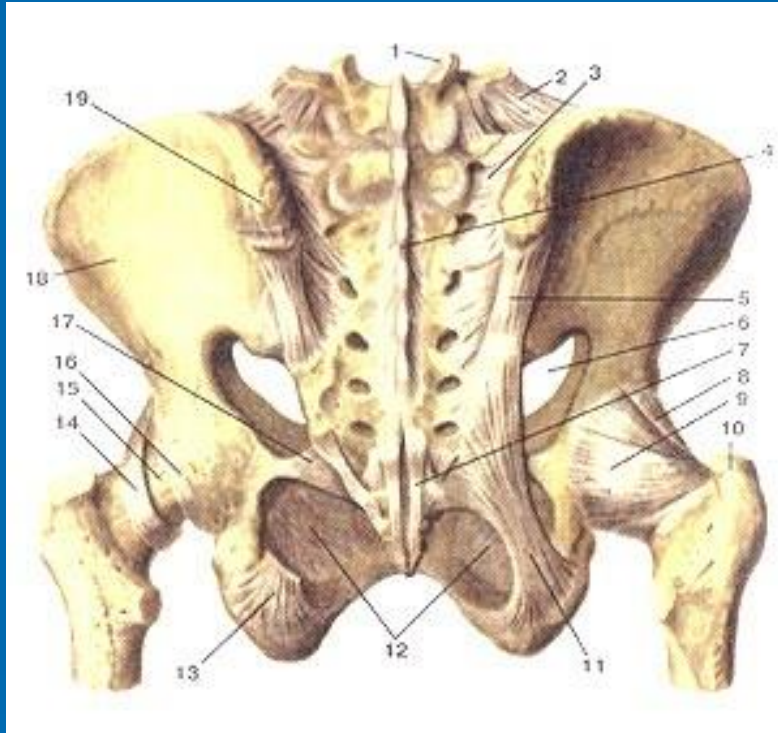
Articulatio radiocarpea, 1-ulna; 2-articulatio radioulnaris distalis; 3-ligamentum collaterale ulnare; 4-os pisiforme; 5-ligamentum pisohamatum; 6-ligamentum hamuli ossis hamati; 7-hamulus ossis hamati; 8-ligamenta carpometacarpea palmaria; 9-ligamenta metacarpea palmaria; 10-ligamenta transversa profunda; 11-articulatio carphalangea; 12-articulationes manus; 13-tendo m.flex-oris digitorum profundi; 14-vagina tendinis musculi flexorum digitorum (III); 15-ligamenta collateralia; 16-articulatio; 17-oscipitatum; 19-ligamentum collaterale carpi radiale; 20-ligamentum carpotarcarpea palmare; 21-os lunatum; 22-radius; 23-membrana interossea anterbrachii.



Articulatio radiocarpea;  
 1-ossa metacarpea; 2-ligamenta interossea  
 intermetacarpea; 3-articulationes  
 сафопшасафеае; 4-articulatio  
 carpometacarpea pollicis; 5-os irape/ium;  
 6-os trapezium; 7-os capitatum; 8-  
 ligamentum collaterale саф1 radiale; 9-os  
 scaphoideum; 10-articulatio radiocaфеunl;  
 11-os lunatum; 12-radius; 13-ulna; 14-  
 recessussacciformis; 15-articu-latio  
 гадюсафеит distalis; 16-discus articularis;  
 17-Ugamentum col-laterale carpi ulnare;  
 18-os triquelrum; 19-os pisiformc;  
 20-ligamenta interossea; 21-os hamatum; 22-  
 ligamenta

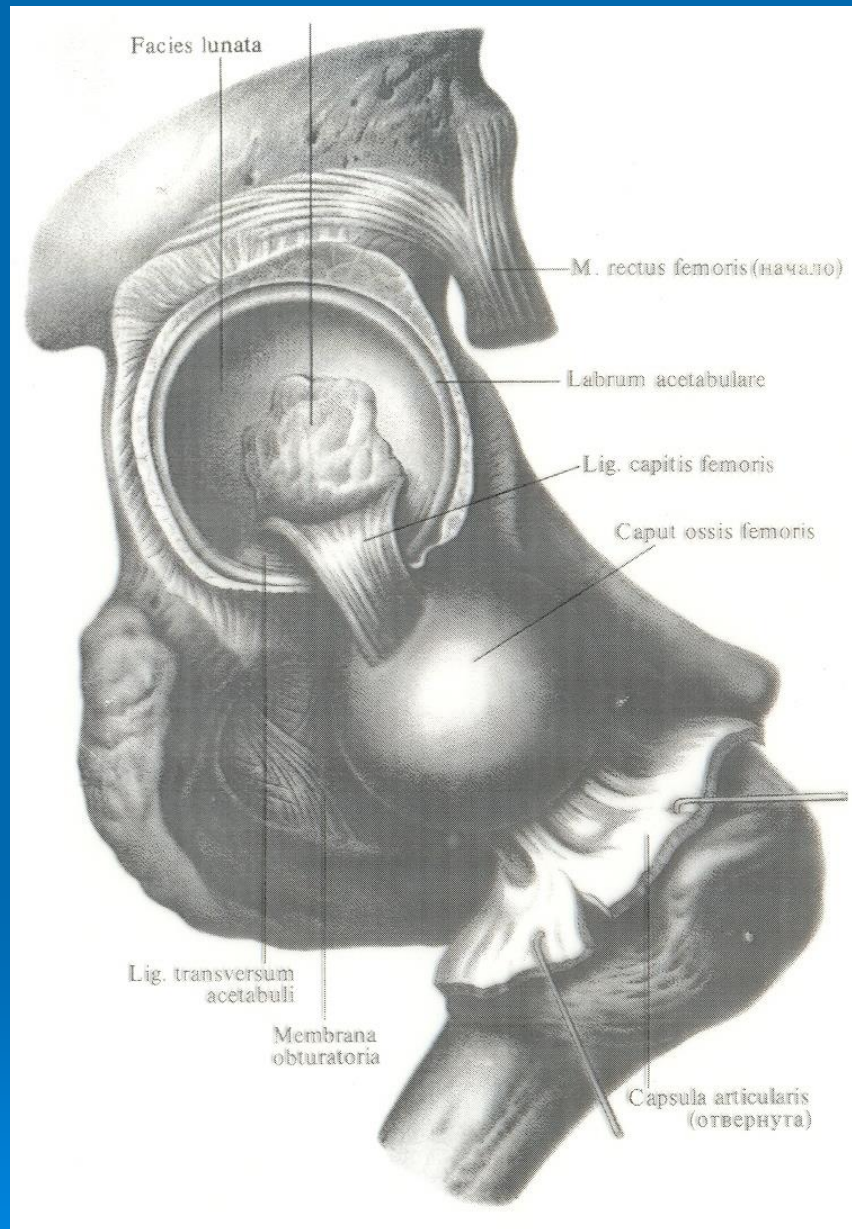


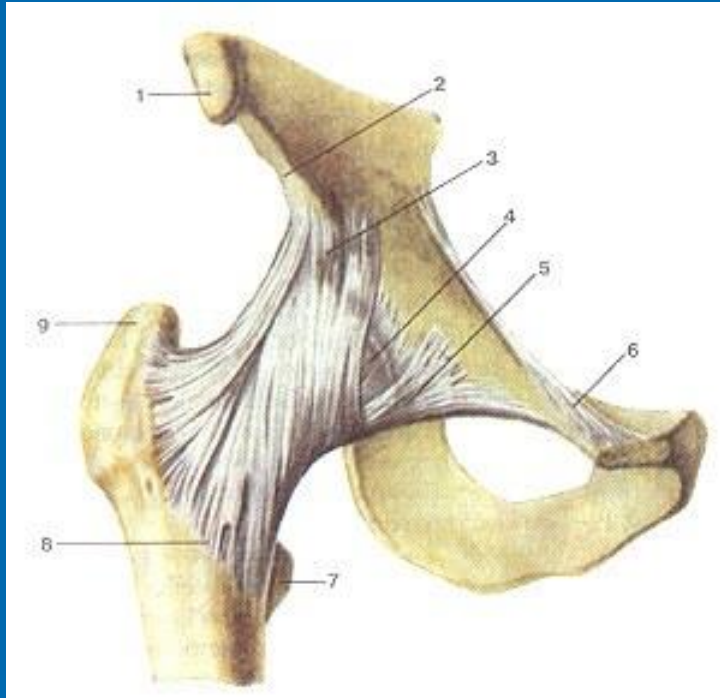
1-ligamentum longitudinale anterius; 2-promontorium; 3-ligamentum iliolumbale; 4-ligamenta sacroiliaca anteriora; 5-ligamentum inguinale; 6-arcus iliopectineus; 7-ligamentum sacrospinale; 8-acetabulum; 9-ligamentum transversum acetabuli; 10-membrana obturatoria; 11-tuberculum pubicum; 12-ligamentum arcuatum pubis; 13-symphysis pubica; 14-ligamentum pubicum superius; 15-canal is obturatorius; 16-ligamentum lacunare; 17-spina iliaca anterior superior.



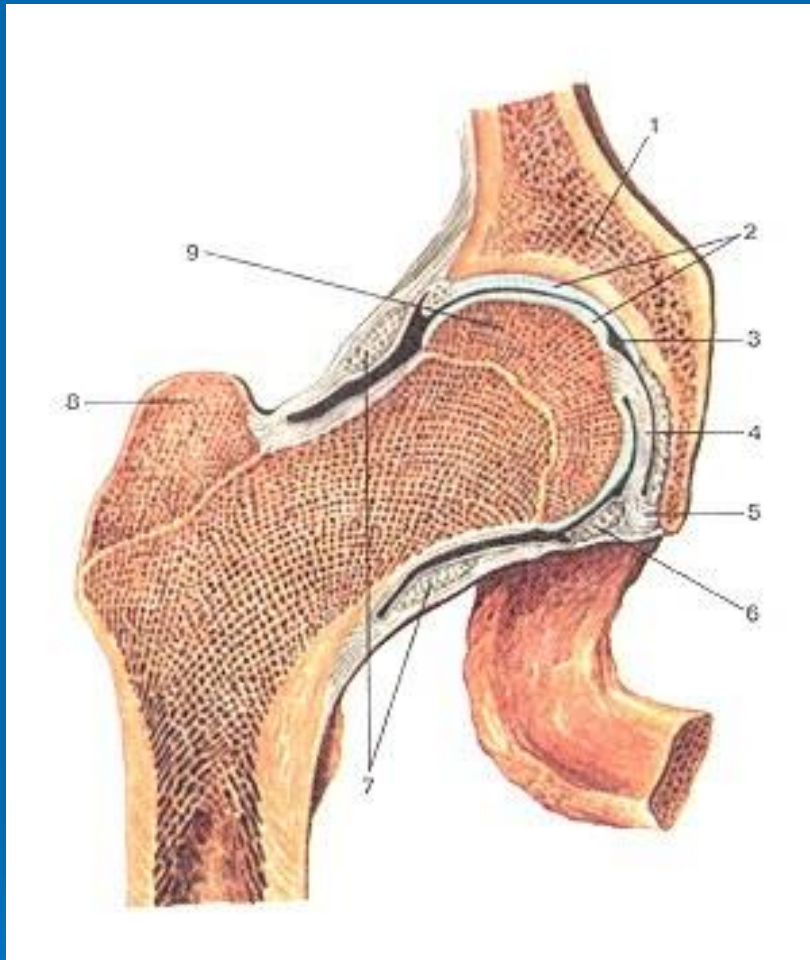
1-processus articularis superior ossis sacri; 2-ligamentum iliolumbale; 3-ligamenta sacroiliaca posteriora (dorsalia); 4-ligamentum supraspinale; 5-ligamentum sacroiliacum; 6-foramen ischiadicum major; 7-ligamentum sacrococcygeum (dorsale) superficiale; 8-ligamentum iliofemorale; 9-ligamentum ischiofemorale; 10-trochanter major; 11-ligamentum sacrotuberale; 12-membrana obturatoria; 13-ligamentum sacrotuberale; 14-tuberculum orbicularis; 15-collum ossis femoris; 16-labrum acetabulare; 17-ligamentum sacrospinale; 18-ala ossis ilii; 19-spina iliaca posterior superior.



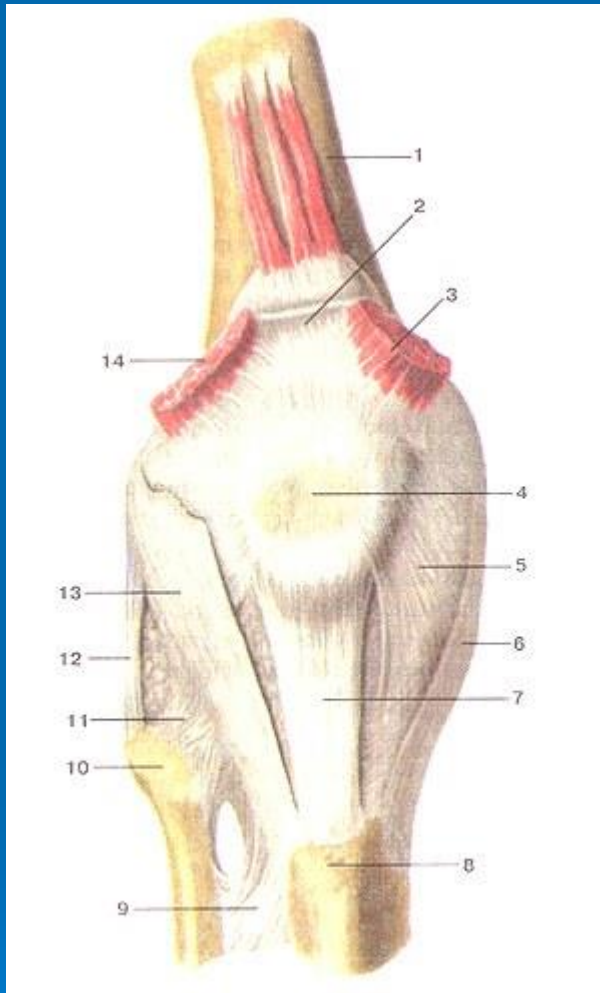




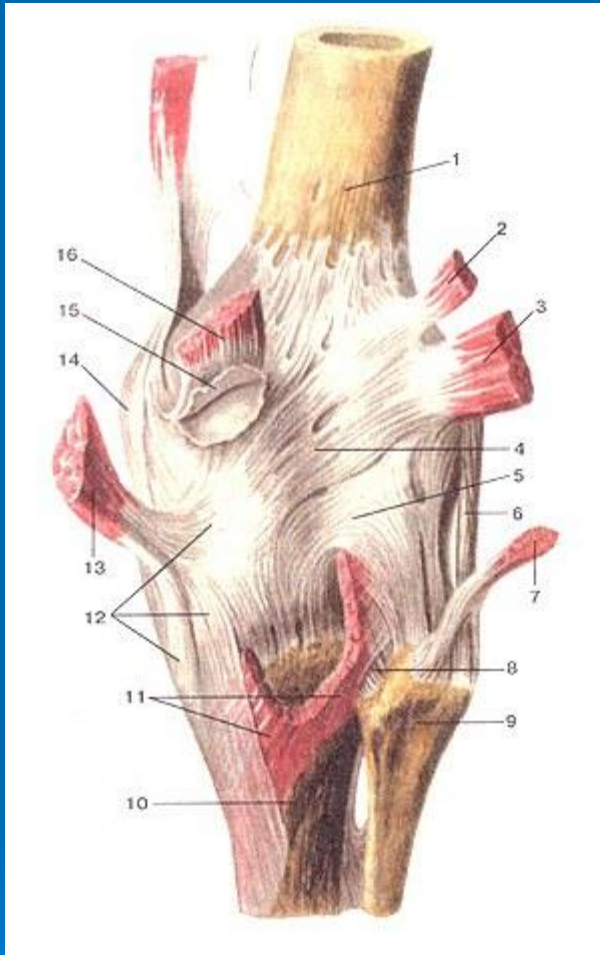
1-spina iliaca anterior superior; 2-spina iliaca anterior inferior; 3-ligamentum iliofemorale; 4-capsula articulationis coxae; 5-ligamentum pubofemorale; 6-ligamentum lacunare; 7-trochanter minor; 8-linea intertrochanterica; 9-trochanter major.



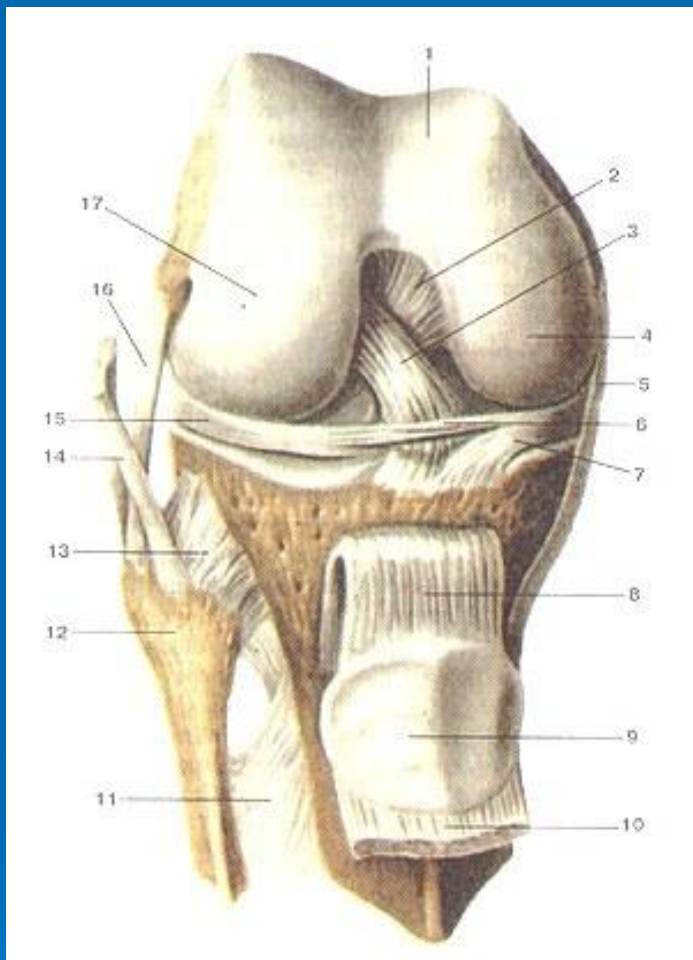
Articulatio coxae, 1-os coxae;  
2-cartilago articularis; 3-  
cavitas articularis; 4-  
ligamentum capitis femoris; 5-  
labrum acetabuli; 6-  
ligamentum transversum  
acetabuli; 7-zona orbicularis;  
8-trochanter major; 9-caput  
ossis femoris.



Articulatio genus, 1-os femoris; 2-tendo m.quadriceps femoris; 3-m.vastus medialis ; 4-patella; 5-retinaculum patellae mediale; 6-ligamentum collaterale tibiale; 7-ligamentum patellae; 8-tuberositas tibiae; 9-membrana interossea cruris; 10-caput fibulae; 11-ligamentum capitis fibulae anterior; 12-ligamentum collaterale fibulare; 13-retinaculum patellae laterale; 14-m.vastus lateralis



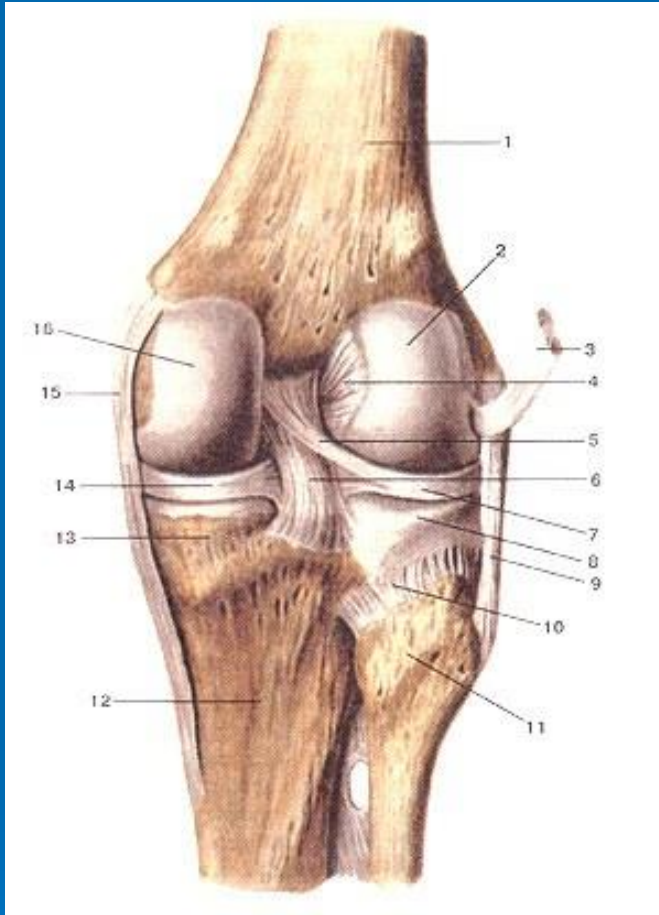
Articulatio genus, 1-os femoris 2-m.plantarisis;  
 3-caput laterale muscui gastrocnemii; 4-  
 ligamentum popli-teum obliquum; 5-  
 ligamentum popliteum arcuatum; 6-  
 ligamentum collaterale fibulare; 7-m.biceps  
 femoris; 8-lig-amentum capitis fibulae  
 posterius; 9-caput fibulae; 10-tibia; 11-  
 m.popliteus; 12-tendo m.semimembranosi;  
 13-m.semimembranosus; 14-ligamentum  
 collaterale tibiale; 15-bursa subtendinea  
 muscui gastrocnemii medialis; 16-caput m.  
 gastrocnemii mediate.



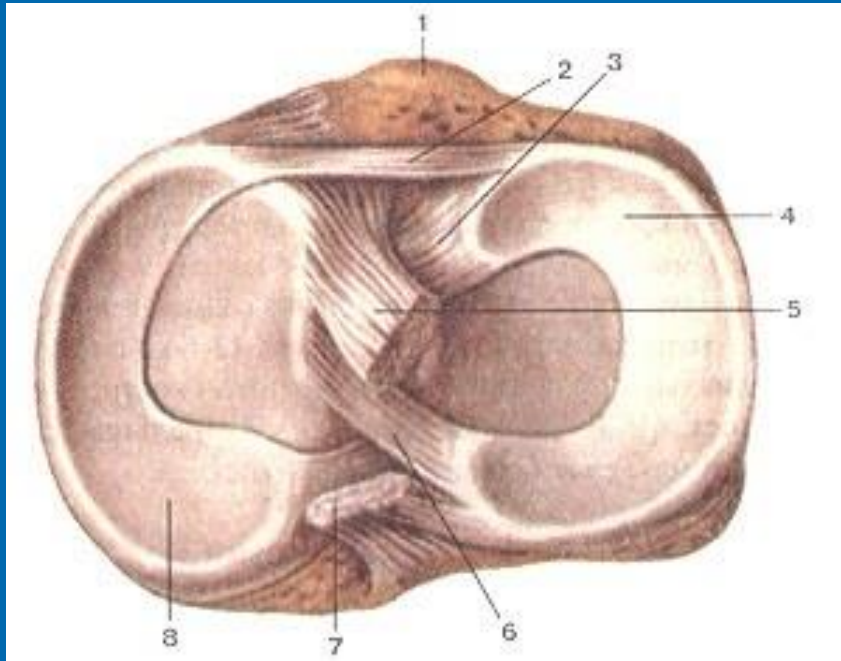
## Articulatio

genus

1-facies posterior ossis femoris; 2-ligamentum cruciatum posterius; 3-ligamentum cruciatum anterius; 4-condylus medialis ossis femoris; 5-ligamentum collateral tibiale; 6-ligamentum transversum genus; 7-meniscus medialis; 8-ligamentum patellae; 9-patella; 10-tendo m. quadriceps femoris (отрезано и опущено вниз); 11-membrana interossea cruris; 12-caput fibulae; 13-ligamentum capitis fibulae anterius; 14-tendo m. bicipitis femoris; 15-meniscus lateralis; 16-ligamentum collaterale tibulare; 17-condylus lateralis.

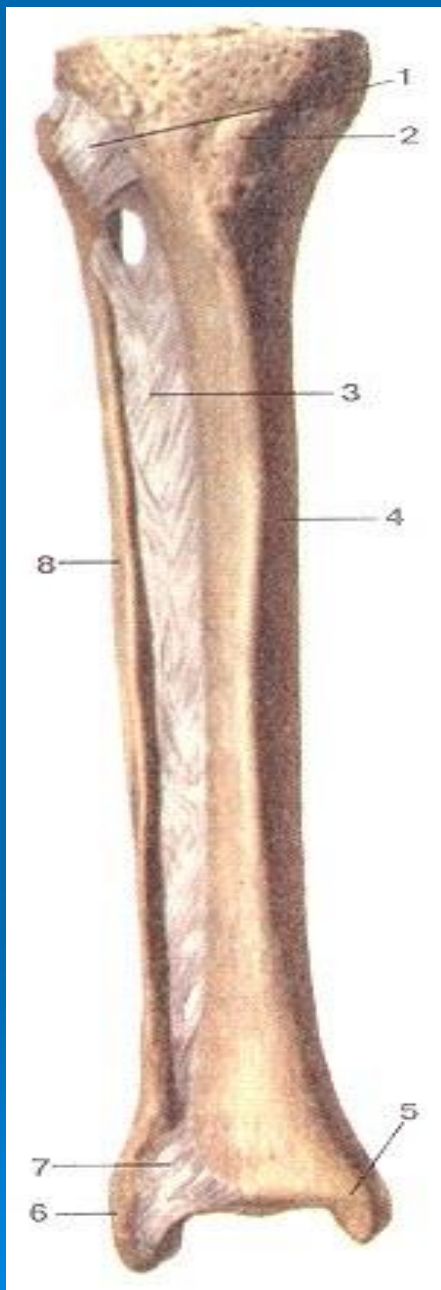


Articulatio genus, 1-os femoris; 2-  
 condylus lateralis ossis femoris; 3-tendo  
 m.poplitei; 4-ligamentum cruciatum  
 anterius; 5-ligamentum  
 meniscofemorale posterius; 6-  
 ligamentum cruciatum posterius; 7-  
 meniscus lateralis; 8-condylus lateralis  
 tibiae; 9-ligamentum collaterale fibulare;  
 10-ligamentum capitis fibulae posterius;  
 11-caput fibulae; 12-tibia; 13-condylus  
 medialis tibiae; 14-meniscus medialis;  
 15-ligamentum collaterale tibiale; 16-  
 condylus medialis tibiae,

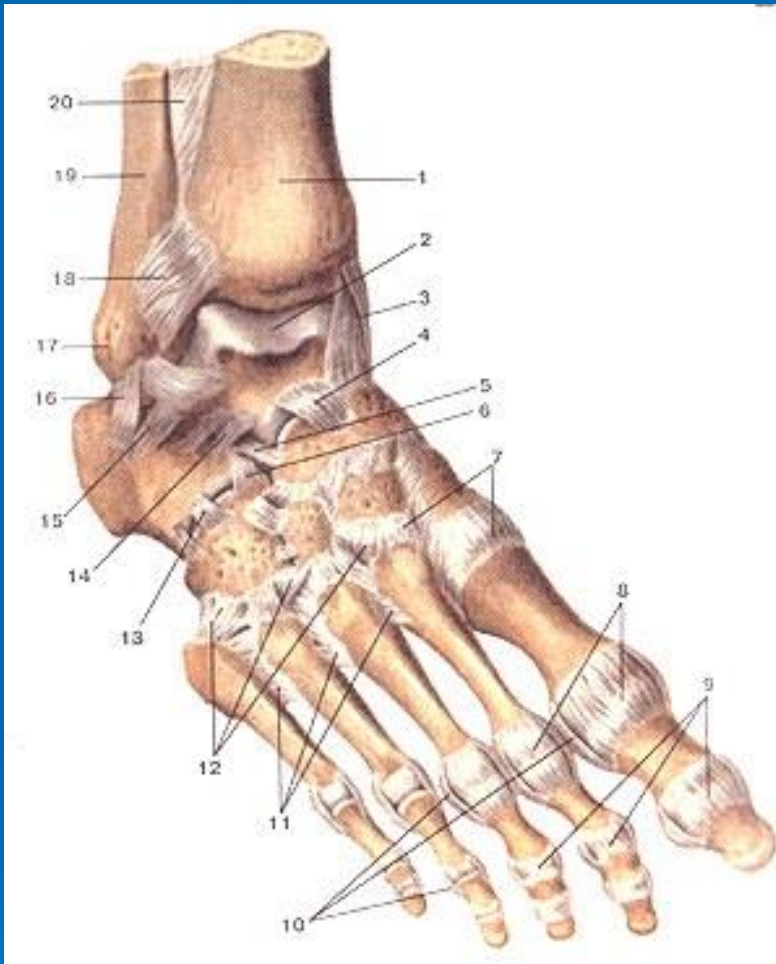


Articulatio genus, правый. Дистальная часть сустава. Вид сверху.  
1-tuberositas tibiae; 2-ligamentum transversum genus; 3-ligamentum meniscofemorale anterius; 4-meniscus lateralis; 5-ligamentum cruciatum anterius; 6-ligamentum meniscofemorale posterius; 7-ligamentum cruciatum posterius; 8-meniscus medialis.

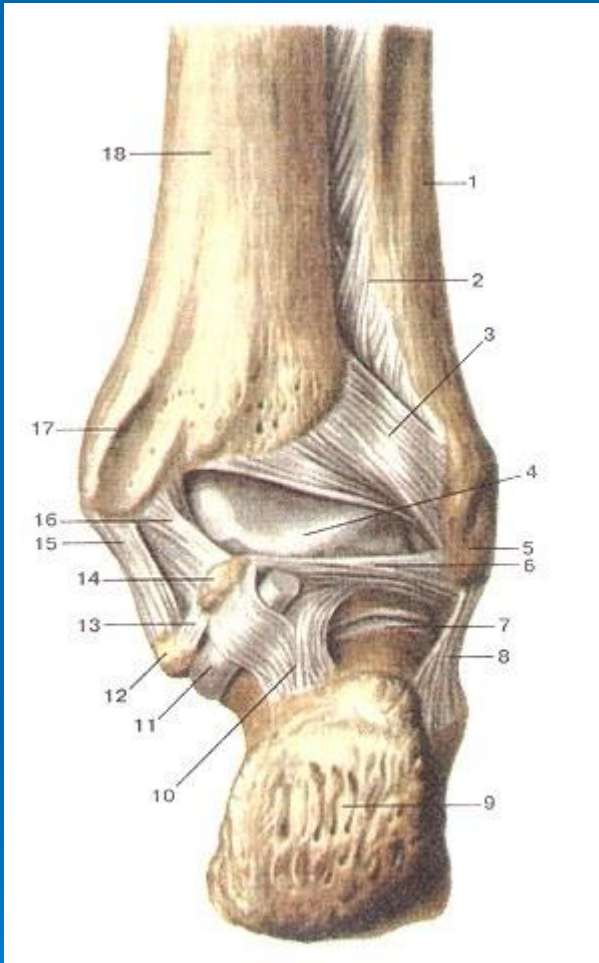




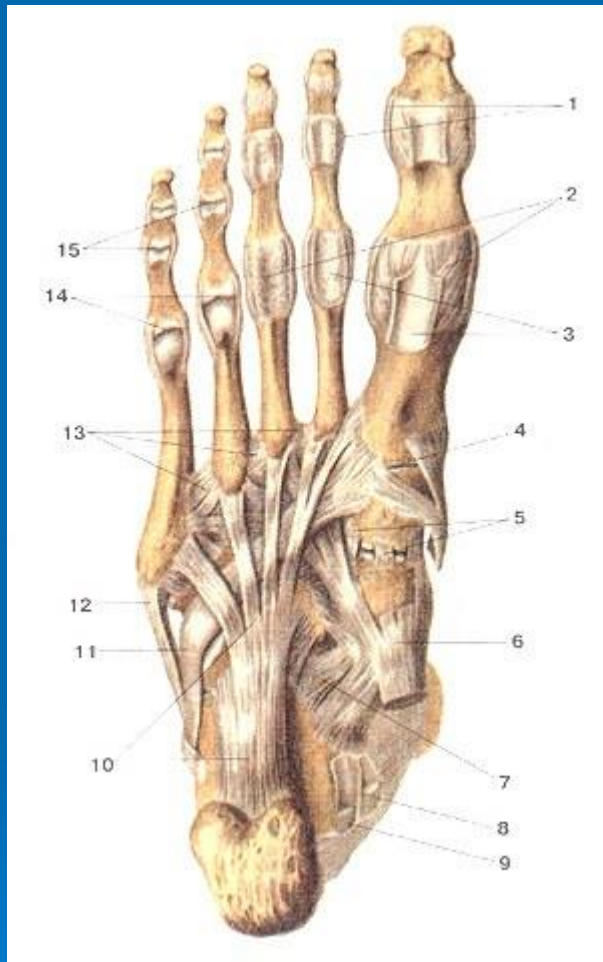
1 -ligamentum capitis fibulae  
anterior (articulatio  
tibiofibularis); 2-tuberositas  
tibiae; 3-membrana interossea  
cruris; 4-corpus tibiae; 5-  
malleolus medialis; 6-  
malleolus lateralis; 7-  
ligamentum tibiofibulare  
anterior (syndesmosis  
tibiofibularis, articulatio); 8-  
corpus fibulae.



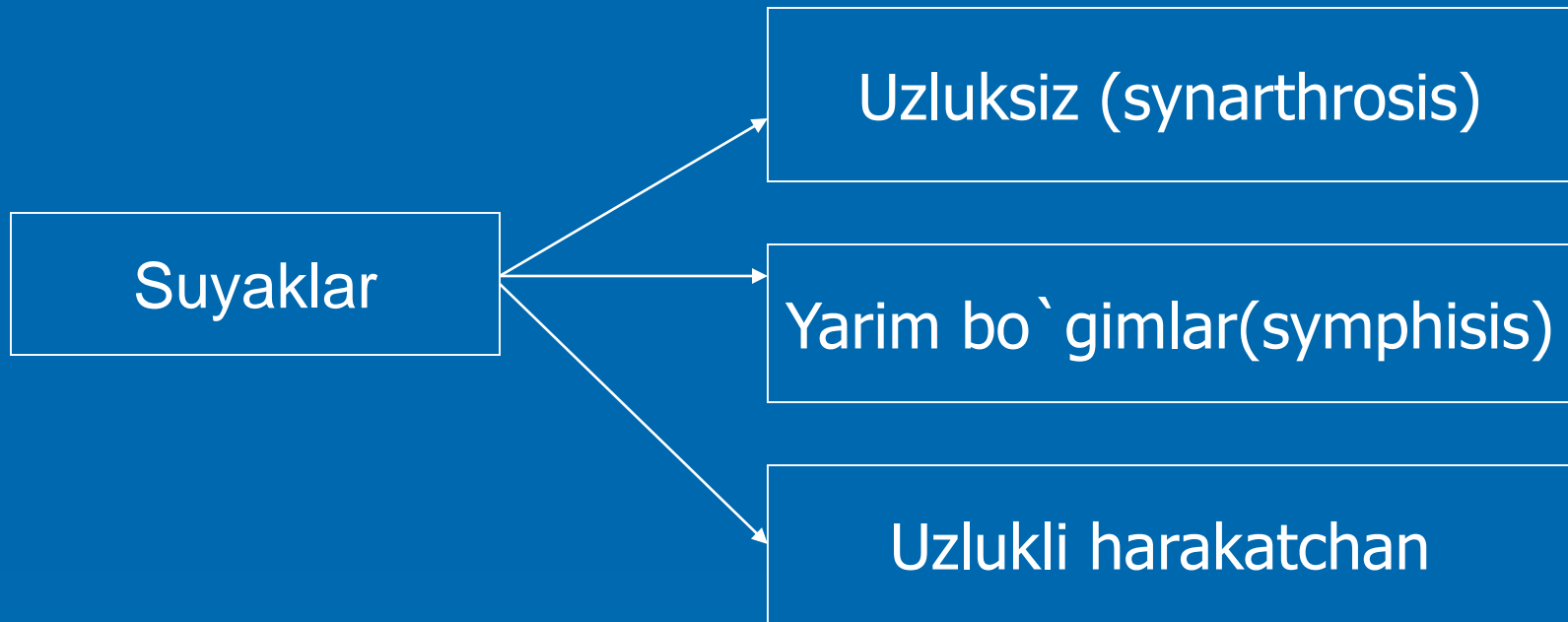
1-tibia; 2-trochlea tali; 3-ligamentum  
 collaterale mediale (del-toideum); 4-  
 ligamentum talonaviculare; 5-  
 ligamentum calcaneonaviculare; 6-  
 ligamentum calcaneocuboidcum (5 и 6-  
 lig. bifurcatum); 7-articulationes  
 tarsometatarsae; 8-articulationes  
 metatarsophalangeae; 9-articulationes  
 interphalangeae; 10-ligamenta  
 collateralia; 11-ligamenta metatarsalia  
 interossea; 12-ligamenta  
 tarsometatarsalia dorsalia; 13-  
 ligamentum calcaneocuboidcum  
 dorsale; 14-ligamentum talocalcaneum  
 laterale; 15-ligamentum  
 calcaneofibulare.

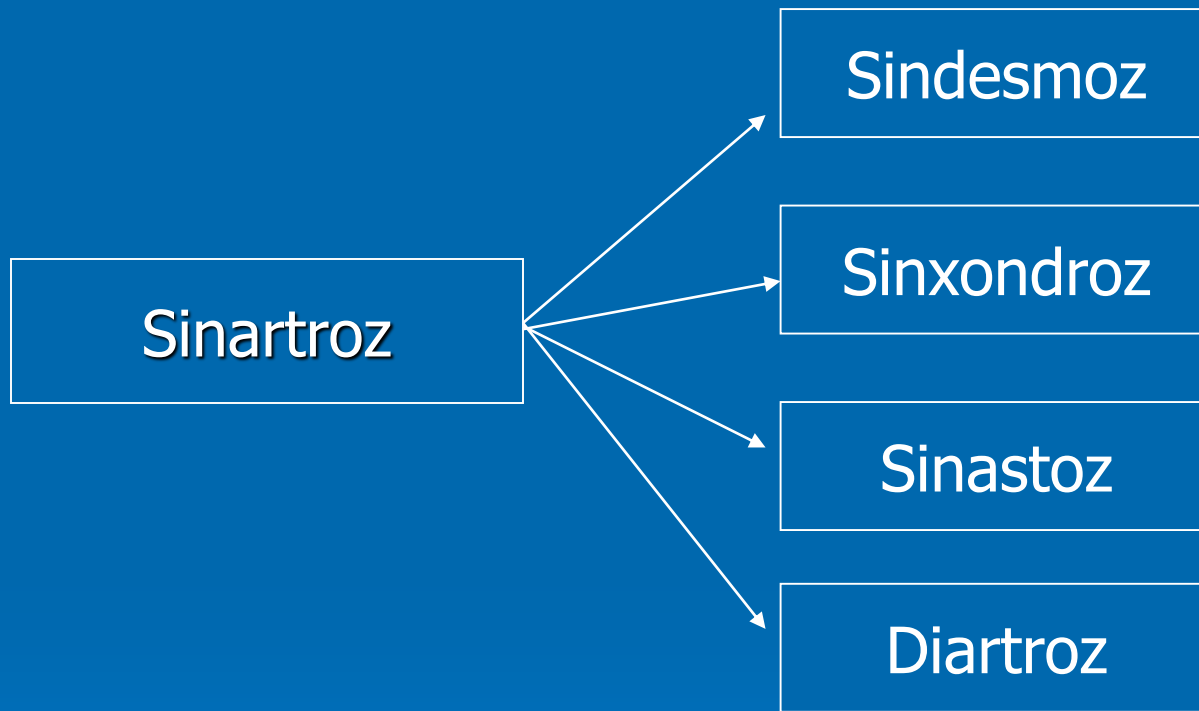


1-fibula; 2-membrana interossea cruris; 3-ligamentum tibiofibulare posterius; 4-trochlea tali; 5-malleolus lateralis; 6-ligamentum talofibulare posterius; 7-articulatio subtalaris (talocalcanea); 8-ligamentum calcaneofibulare; 9-tuber calcaneum; 10-ligamentum talocalcaneum posterius; 11-tendom. flexor hallucis longi; 12-sustentaculum tali; 13-ligamentum talocalcaneum mediale; 14-tuberculum mediale processus posteriora tali; 15-pars tibiocalcanea ligamenti medialis articulationis talocruralis; 16-pars tibiotalaris pars tibiotalaris posterior (ligg. collaterale mediale); 17-malleolus medialis; 18-tibia



1-ligamenta collateralia; 2-ligamenta plantaria art.metaphalangeorum; 3-vagina tendinum musculi flexoris digitorum pedis (вскрыты); 4-articulatio tarsometatarsae (I); 5-ligamenta cuneonavicularia plantaria; 6-tendo m.tibialis posteriora; 7-ligamentum calcaneonaviculare plantare; 8-tendo m flexoris digitorum longi; 9-tendo m.flexoris hallucis longi; 10-ligamentum plantare longum; 11-tendo m.fibularis longi; 12-tendo m.fibularis brevis; 13-ligamenta metatarsalia interossea; 14-articulationes metatarsophalangeae (вскрыты); 15-articulationes interphalangeae.





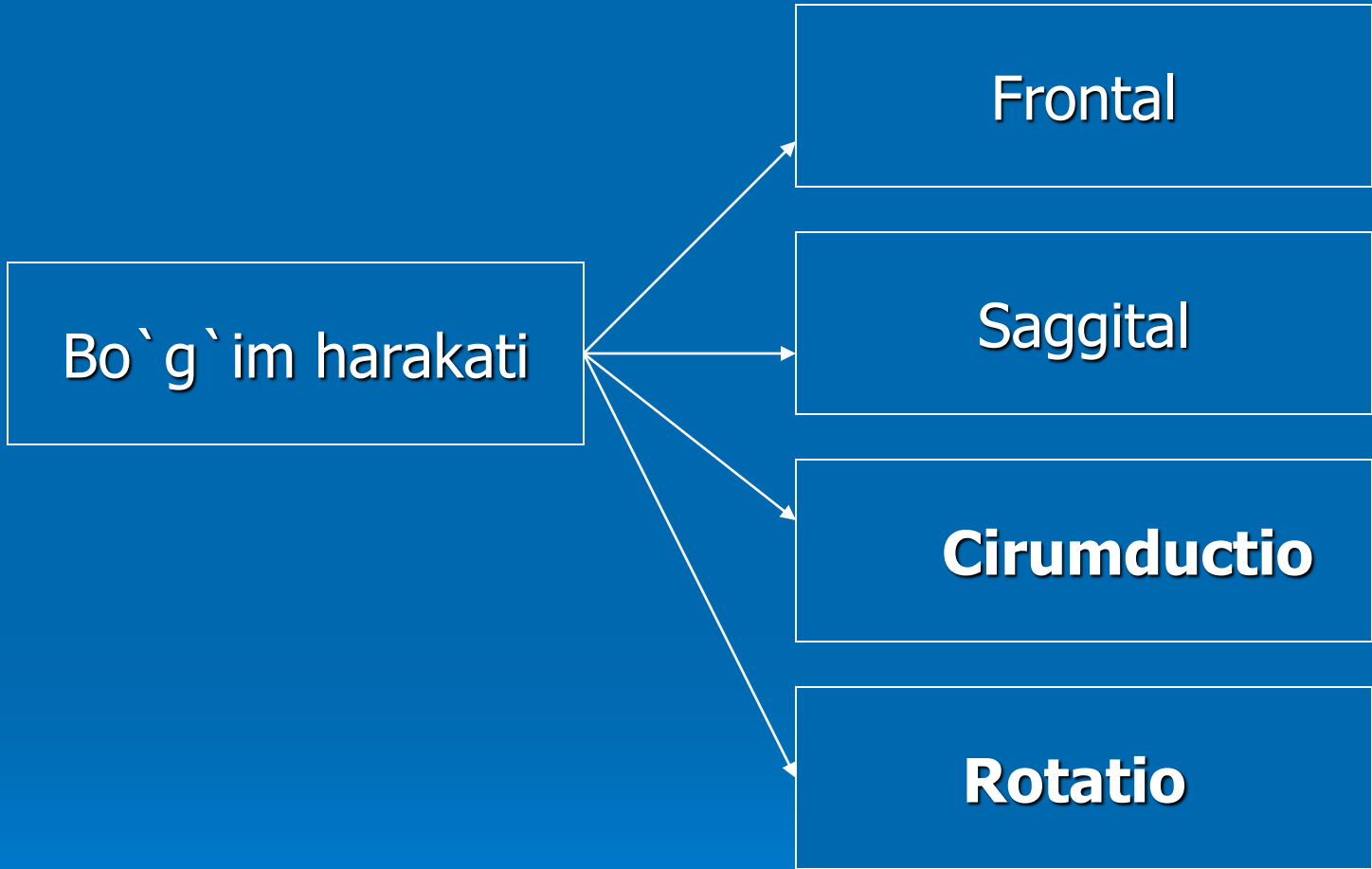
Bo`g`imlar

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graph LR; A[Bo`g`imlar] --> B[Bir o`qli(tirsak bo`g`imi)]; A --> C[Ikki o`qli(bilak va kaft suyaklar orasidagi bo`g`im)]; A --> D[Ko`p o`qli(Elka bo`g`imi)];
```

Bir o`qli(tirsak bo`g`imi)

Ikki o`qli(bilak va kaft suyaklar  
orasidagi bo`g`im)

Ko`p o`qli(Elka bo`g`imi)





➤ **ЭЪТИБОРИНГИЗ УЧУН РАҲМАТ!!!**

