Jai Meleome

يُمنع أخذ السلايدات بدون إذن المحرر واي اجراء يخالف ذلك يقع تحت طائلة المسؤولية القانونية جميع المعلومات للاستخدام التعليمي فقط

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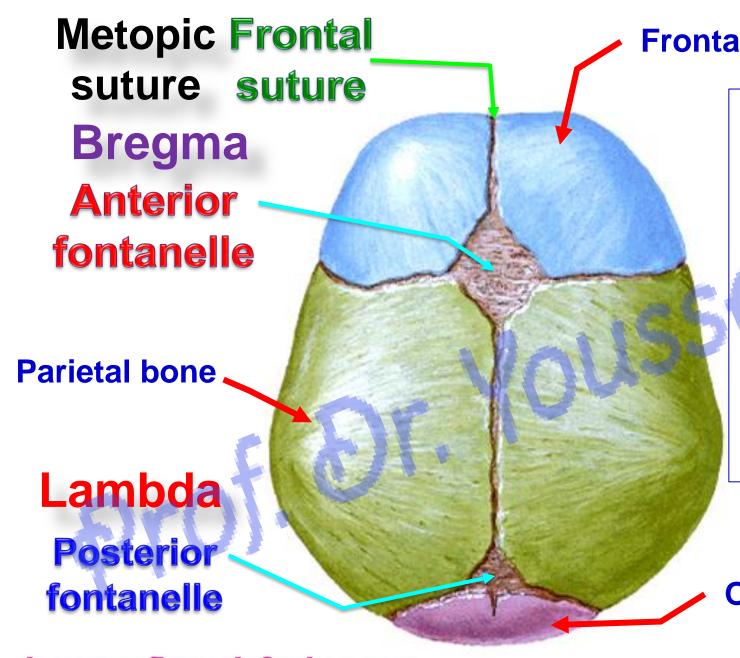
جروب الفيس د. يوسف حسين (استاذ التشريح)

https://www.youtube.com/channel/UCVSNqbibj9UWYaJdd_cn0PQ

Dr. Youssef Hussein Anatomy - YouTube

Prof.





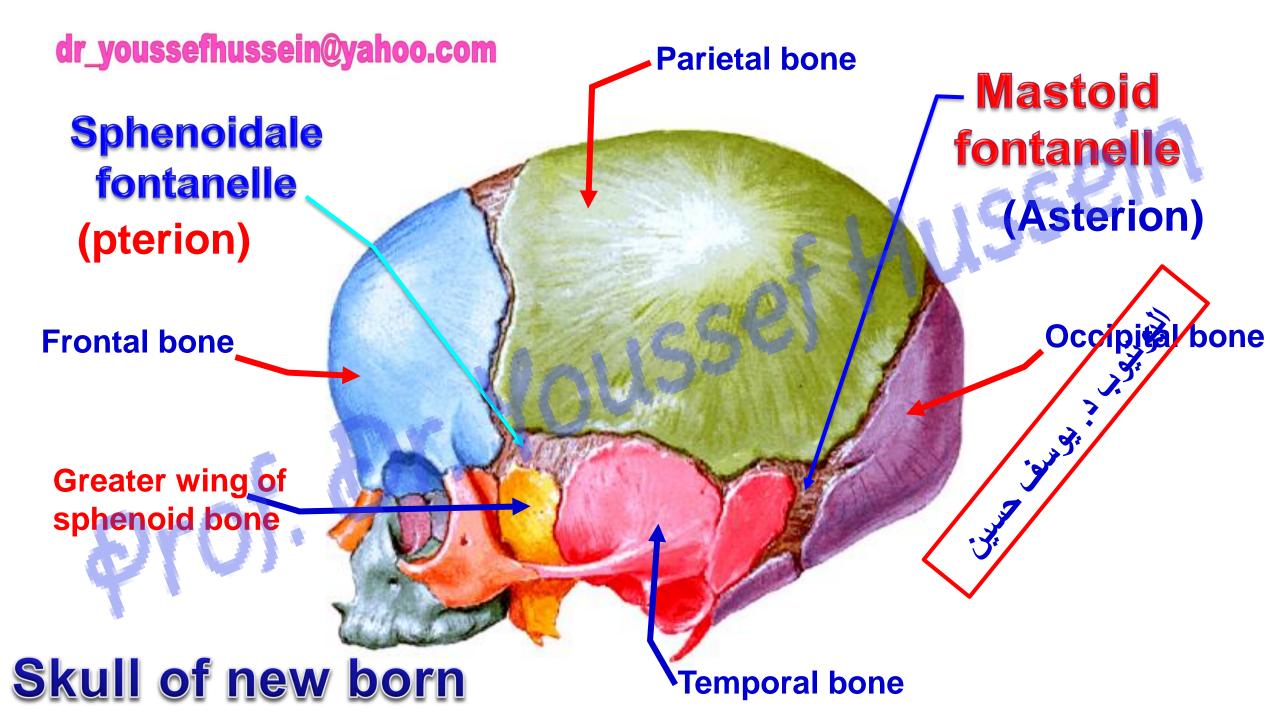
Frontal bone

- Vault of skull (Flat bones)
 - (Neurocranium)
- It develops from the mesoderm around the developing brain.
- These bones included the frontal, parietal, and occipital
- These bones ossified in membranes.

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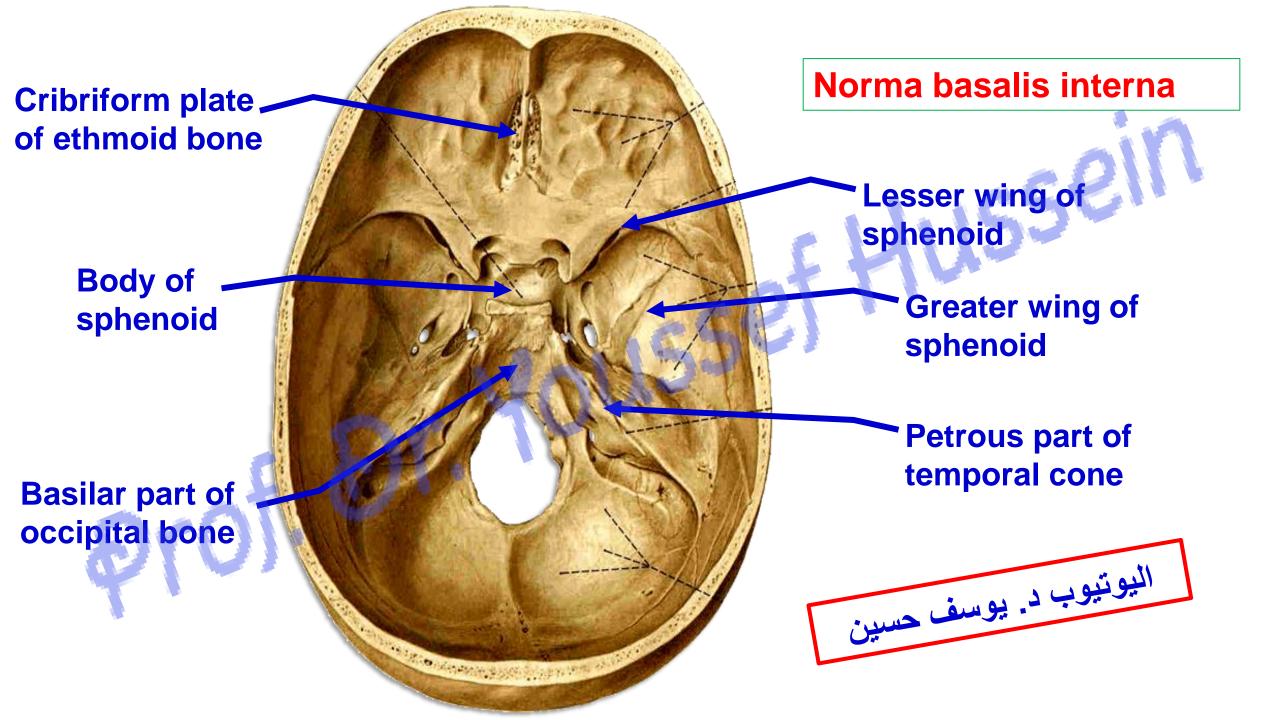
Occipital bone

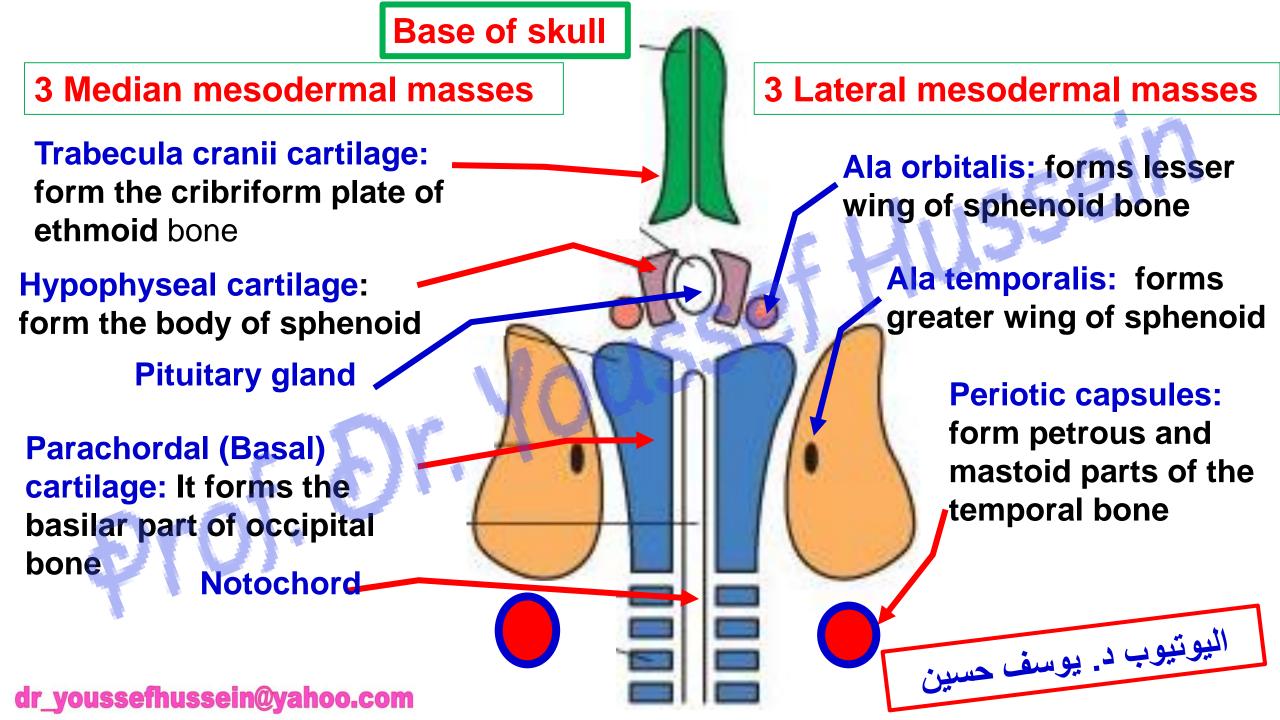
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** The newborn skull

- The bones of the newborn skulls are separated from each other by sutures.
- At The meeting of more than 2 bones there is membranous parts called the fontanelle. They include: dr_youssefhussein@yahoo.com
- 1- Anterior fontanelle: between the frontal and 2 parietal bones. It is closed about 18 months (Bregma at adult).
- 2- Posterior fontanelle: between the occipital and 2 parietal bones. It is closed about 6 months (Lambda at adult).
- 3- Sphenoid fontanelle: between the frontal, sphenoid, temporal and parietal bones. It is closed about 3 months (pterion at adult).
- 4- Mastoid fontanelle: between the occipital, parietal and mastoid part of temporal bones. It is closed about 3 months (asterion at adult).







Microcephaly small skull and cerebral

hemisphere

Hydrocephalus
 excessive accumulation of
 C.S.F in the ventricular
 system due to closure in the
 CSF circulation





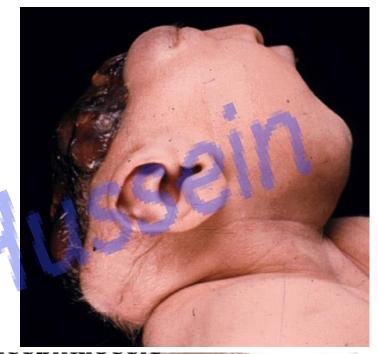
Anencephaly:

failure of development of greater part of the brain and vault of the skull due to failure of cephalic part of the neural tube to close



Meningocele

herniation of a part of the meninges





- Meningoencephalocele herniation of a part of the brain and its covering meninges.
- Meningohydroencephalocele: herniation of the meninges and part of the brain and its ventricle containing CSF.

<u>Meningoencephalocele</u>



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Scaphocephaly: the skull is elongated anteroposterior due to early closure of the sagittal suture



Acrocephaly: high skull due to early closure of the coronal suture













DEVELOPMENT OF THE LIMBS

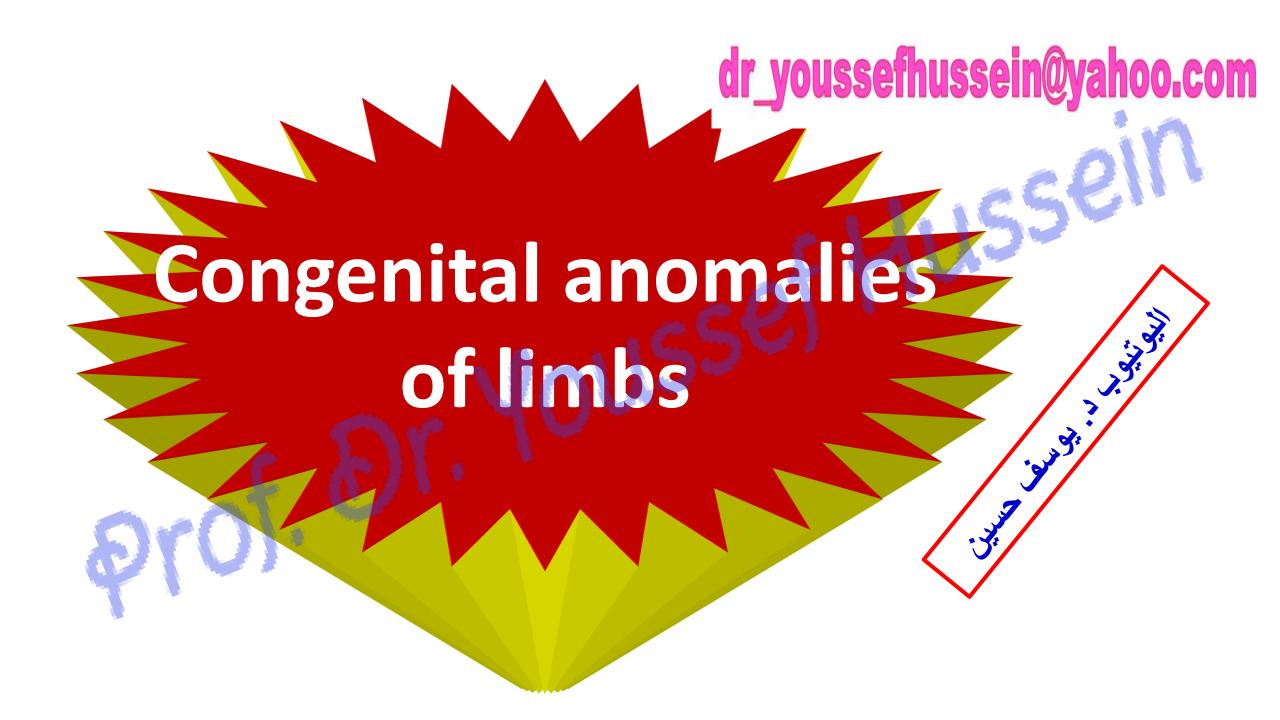
- * They develops as 4 buds (2 cranial and 2 caudal) at 4th week.
- * Each limb bud is formed of a mass of mesoderm, its central part changes into cartilage then into bone while the surrounding mesoderm forms the muscles.
- * The upper limb divides into arm, forearm and hand with 5 fingers.
- * The lower limb divides into thigh, leg and foot with 5 toes.
- * Each limb bud forms right angle (90 degree) with the trunk and has a preaxial border cranially (radius, and thumb for the upper limb and tibia and big toe for the lower limb) and a postaxial border caudally.



** Rotation of the limbs

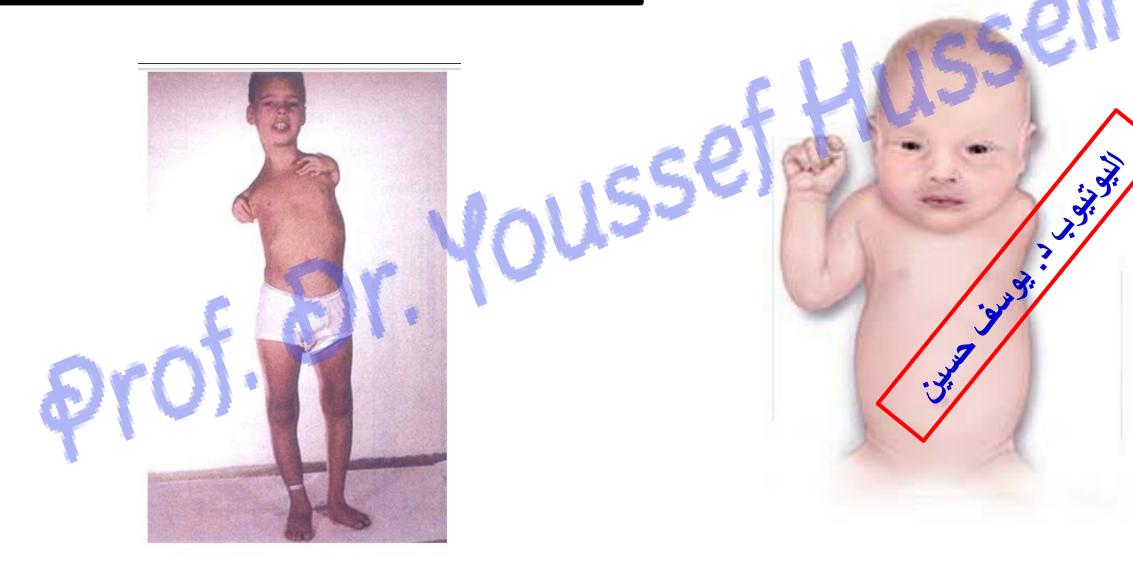
- Upper limb rotates laterally so that the preaxial border (radius and thumb)
 becomes lateral and the flexor surface becomes anterior.
- * Lower limb rotates medially so that the preaxial border (tibia and big toe) becomes medial and the flexor surface becomes posterior.





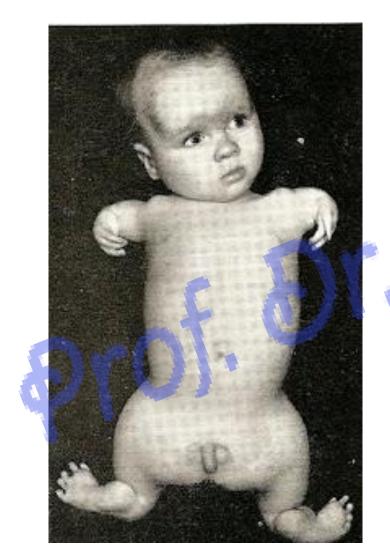
Meromelia: The limbs represented only by foot or hand attached to the trunk

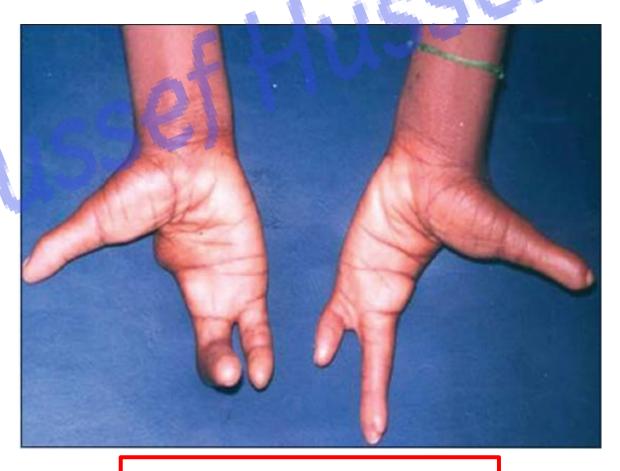
Amelia: Absence of one or more limbs



Micromelia: short segments of the limb

Lobster hand: A central fissure or cleft divides the hand or foot into 2 parts





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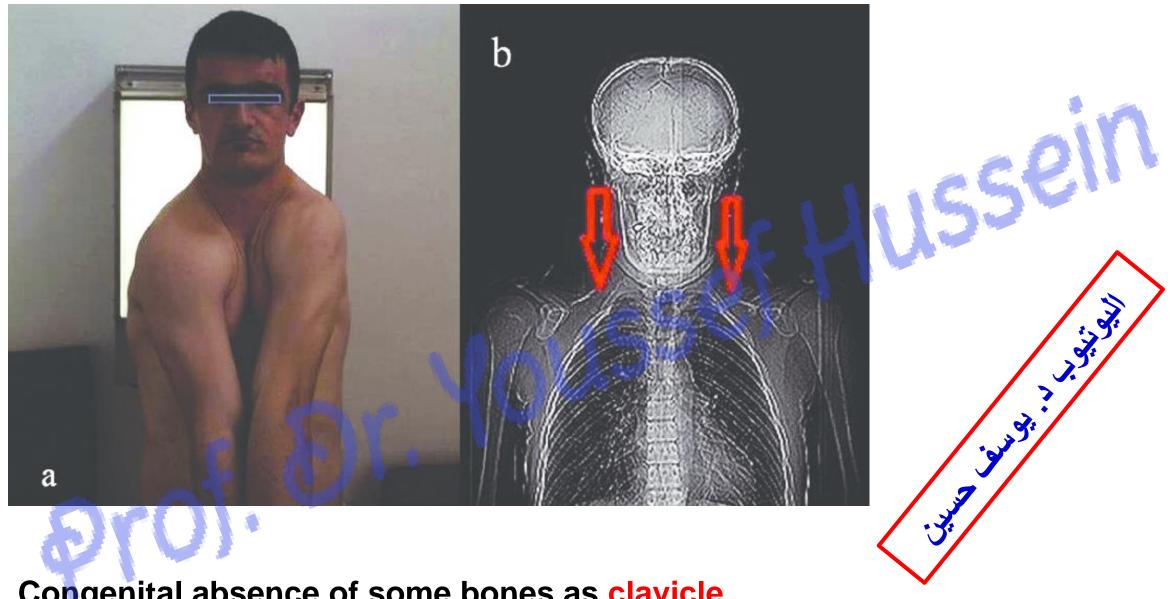


Polydactyl: Extra number of the fingers or toes.

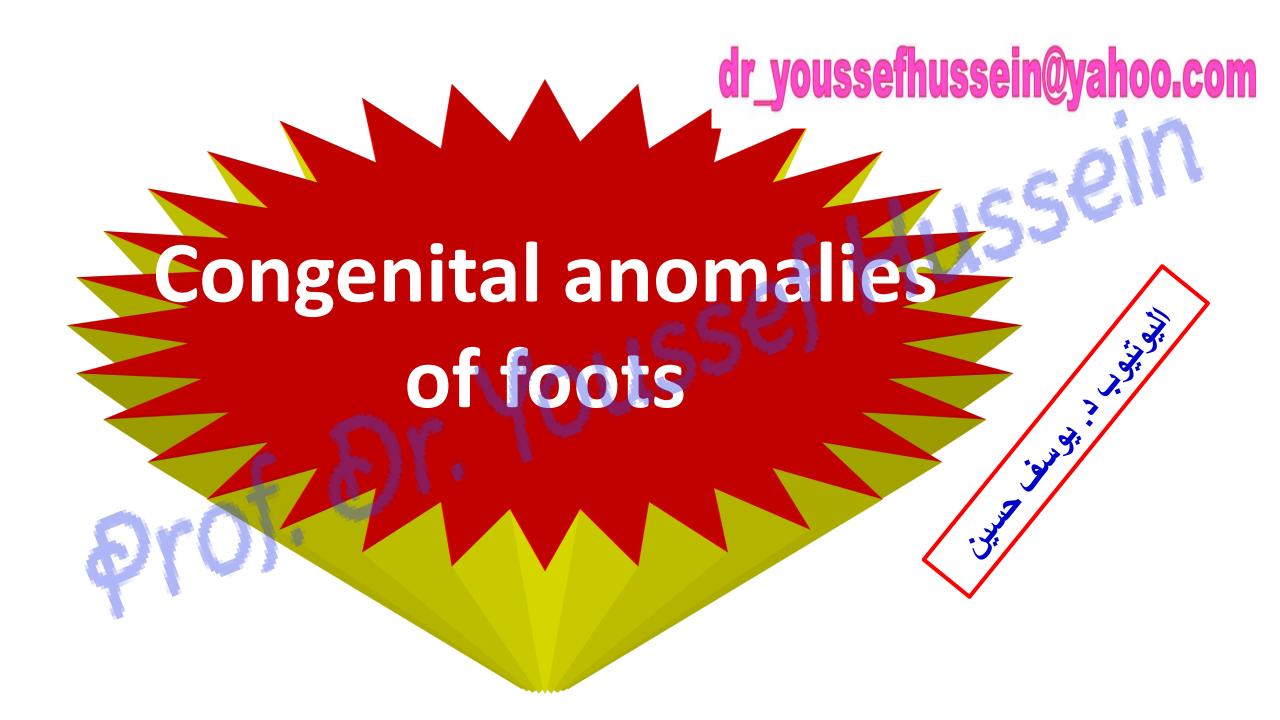
Syndactyl: Abnormal

Syndactyl: Abnormal fusion of the fingers.





Congenital absence of some bones as clavicle





Hammer



Flat Foot: loss of the arch of the foot

Toe:

proximal interphalangeal joint.

Metatarsophalangeal Proximai (MTP) joint interphalangeal (PIP) joint

extension

of metatarsophalangeal joint and flexion of



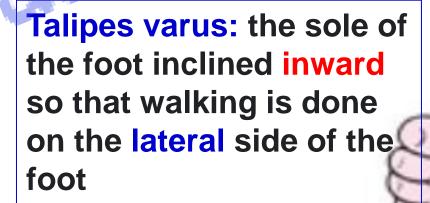
Hallux Valgus: lateral deviation big the the toe at metatarsophalangeal joint.

 Talipes Equinus, permanent plantar flexion, walking is done on toes without touching the heel to ground



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Talipes valgus: the sole of the foot inclined outward so that walking is done on the medial side of the foot



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