MPUTATIONS-IN-GRILDREN

Part-1

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AMPUTATIONS IN CHILDREN

1-Congenital
2-Acquired
Trauma
Tumour
Infection

Congenital amputation

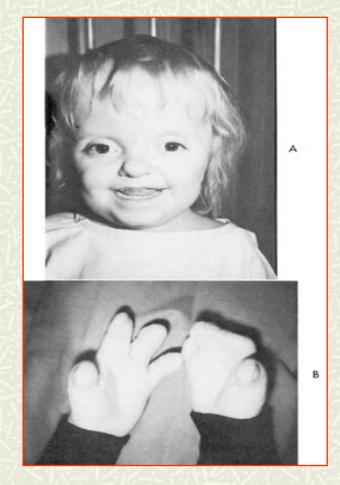
Absence of a fetal limb or fetal part at birth.

- *Amniotic band synd.
- * Faulty gene 30%
- * Environmental

(Teratogenic agents)

- * Syndromatic
- * Unknown 60%

1-Thalidomide tragedy - 1960s 2-Chernobyl disaster in Russia



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Classification

Swanson A.B. JHS vol.1 no.1 p8-22

- I Failure of formation of parts
- II Failure of Differentiation
- III Duplication
- IV Overgrowth
- V Undergrowth
- VI Congenital constriction band syndrome
- VII Generalised skeletal abnormality



- Amelia, Phocomelia
- Transverse arrest
- Longitudinal arrest
- Central arrest

Amelia

Complete absence of a limb beyond a certain point → leaving a stump.

Phocomelia

only a mid-portion of a limb is missing, as when the hands or feet are attached directly to the trunk.



Thalidomide syndrome

Phocomelia

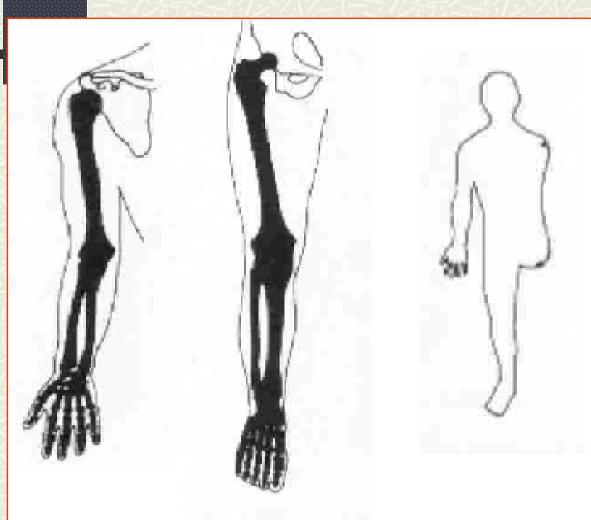






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Amelia



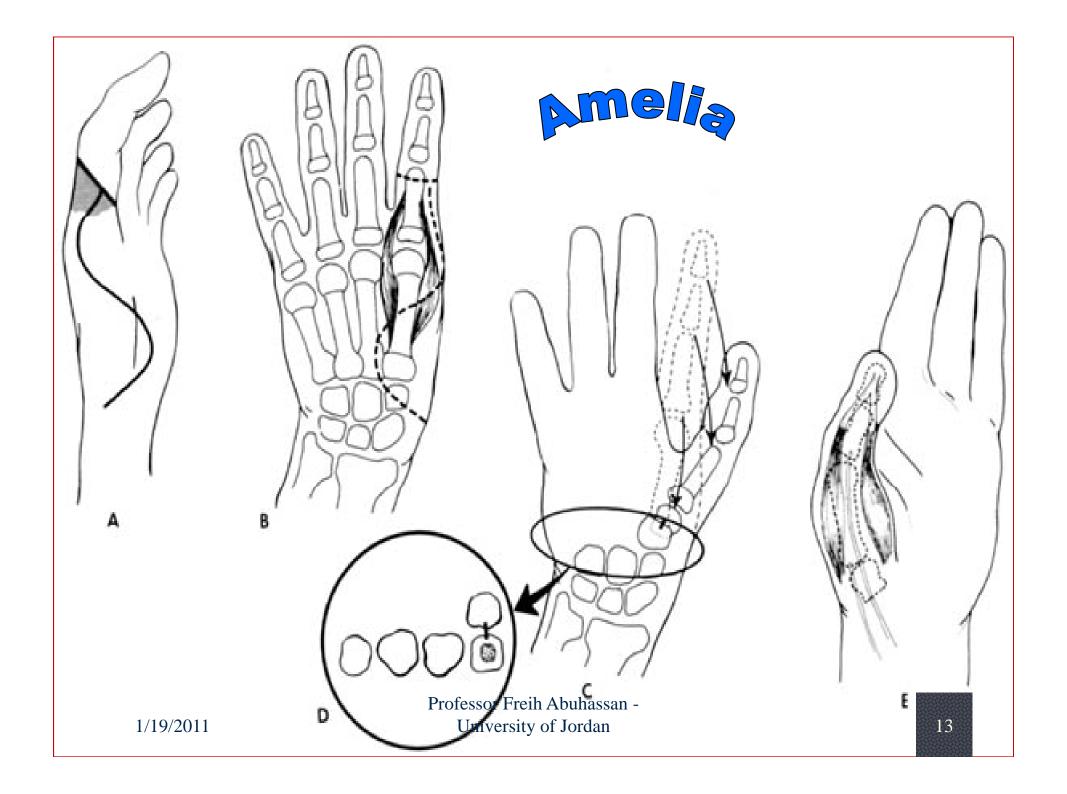


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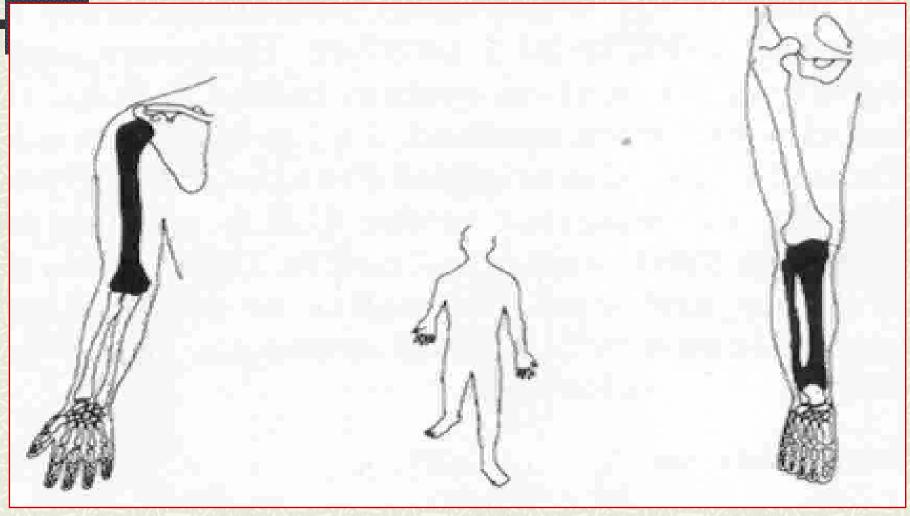




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Proximal Focal Femoral Def.

(PFFD)

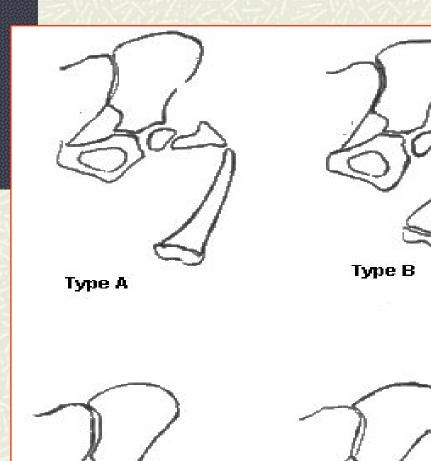
=Deficiency of prox. end of femur

=Flexion, abduction exter. rotation





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Type C

Type D





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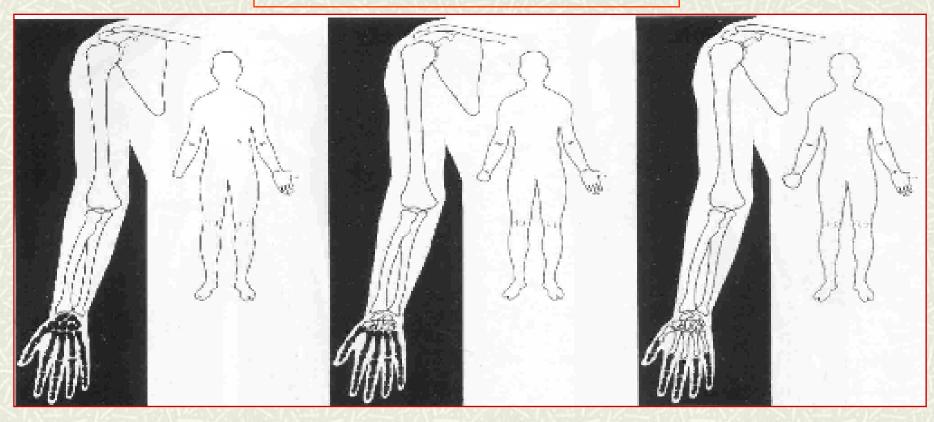
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Figure 15. (A) Patient with rotationplasty. Note that the foot is turned 180 degrees in relation to the femur. (B, C) Rotationplasty prosthesis. Note that the ankle functions as a knee joint. The patient functions as a below-the-knee amputee with the foot below the knee stump.



Transverse arrest



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Transvere arrest

- * 3-6m: Static prosthesis
- * 18 m: Splitt Hook prosthesis
- * 3-5 Y: Myoelectrical prosthesis
- * ? Krukenberg in blind child

Terminal BEA







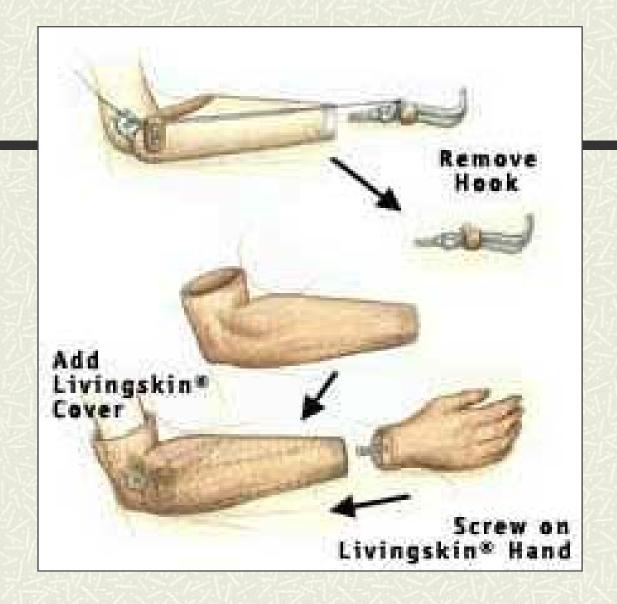
-most common Cong.Amput.
-use of a passive device at 3-6 m.
(fit when they sit)



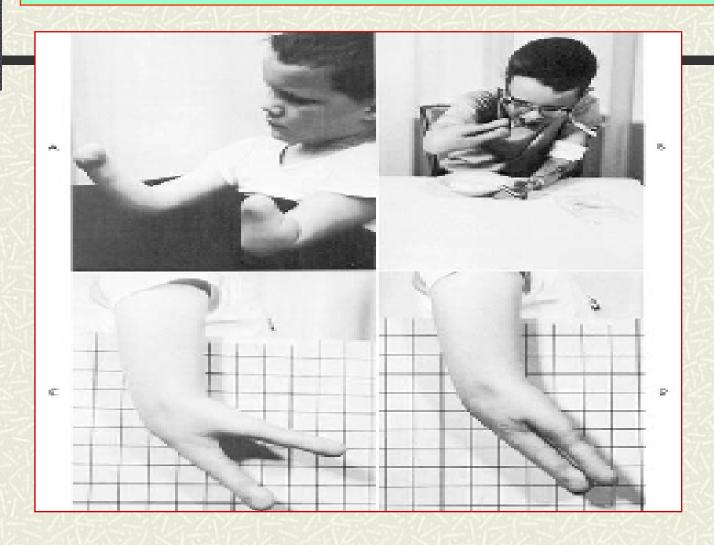
He will probably want& accept hooks, or whatever can help him hold things better.

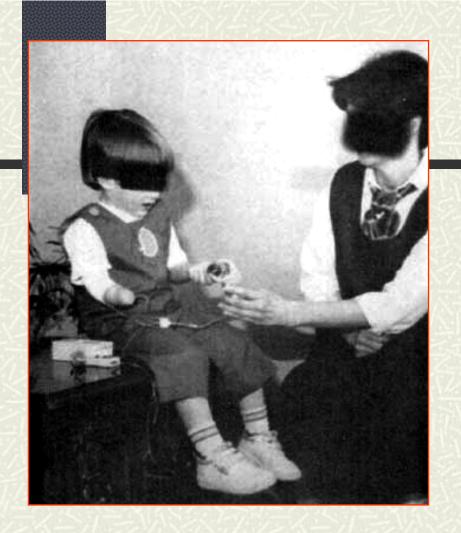
>18M

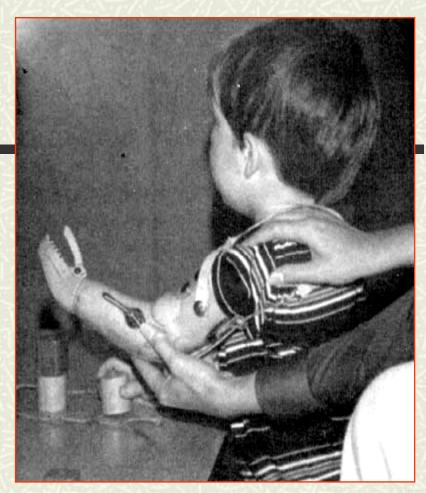
A child with high arm amp.from birth often learns to use his feet almost as well as his hands.



Krukenberg in blind child







Myoelectrical prosthesis,>3Y

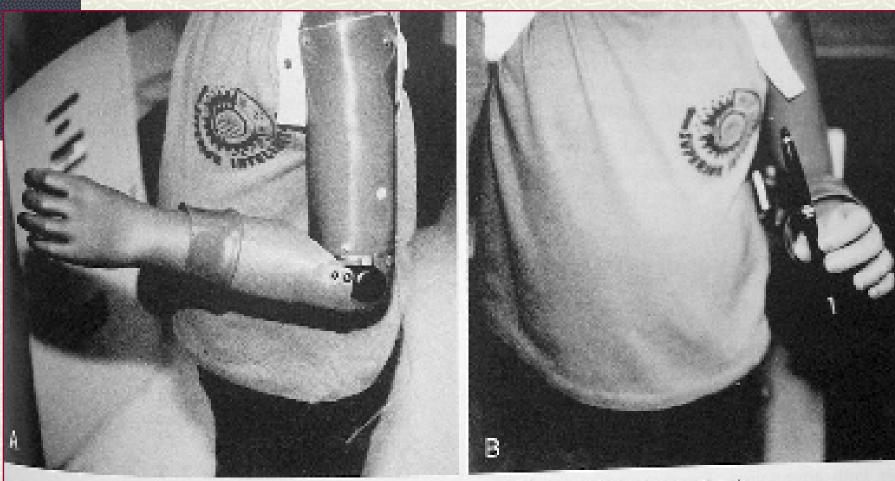
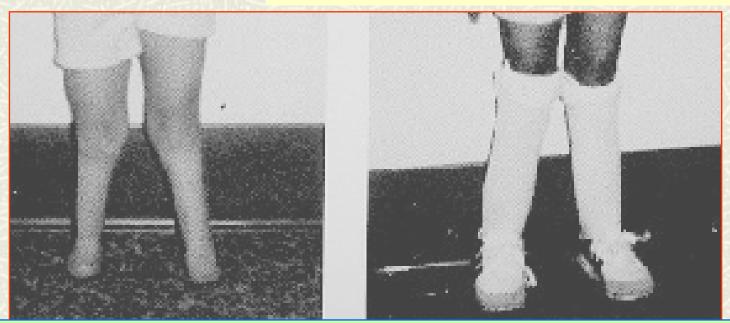


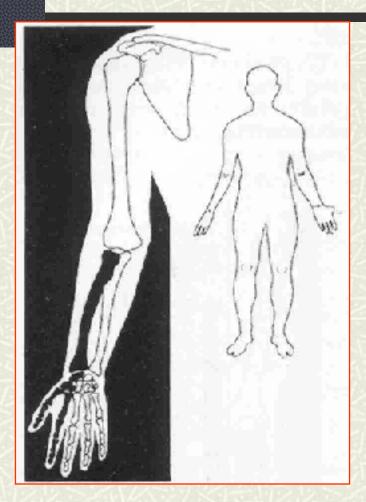
Figure 17. (A. B) Patient with an above-elbow myoelectric prosthesis.

Longitudinal arrest



Bilat. Fibular hemimelia underwent Chopart amp. And prosthesis

Longitudinal arrest

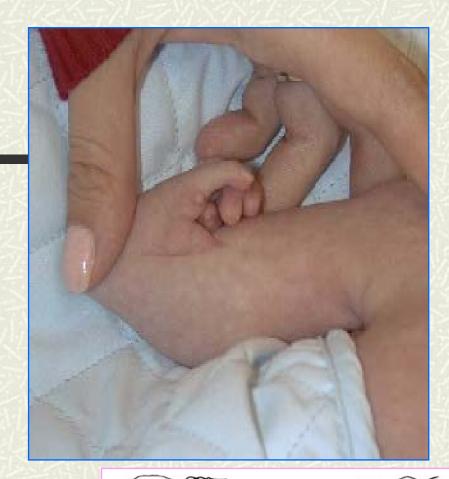


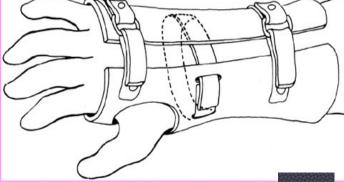


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Central arrest



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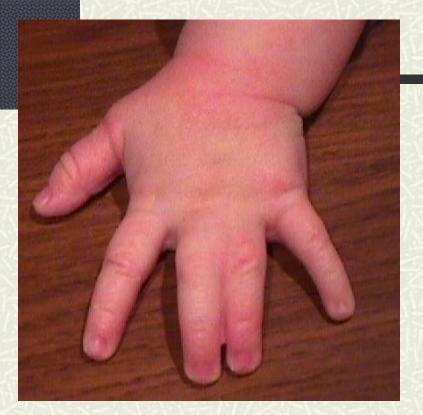






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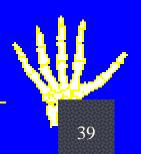
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VI: Congenital constriction band syndrome

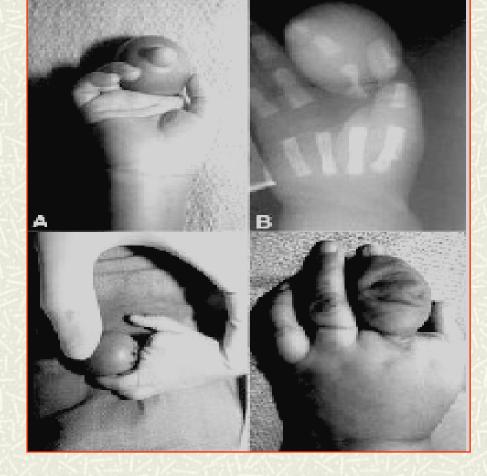
- Focal area of necrosis
- Annular band forms as a result
- May result in intrauterine gangrene or amputation
- Associated with syndactyly
- Aetiology controversial
 - Extrinsic or Intrinsic



Constriction band syndrome







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