



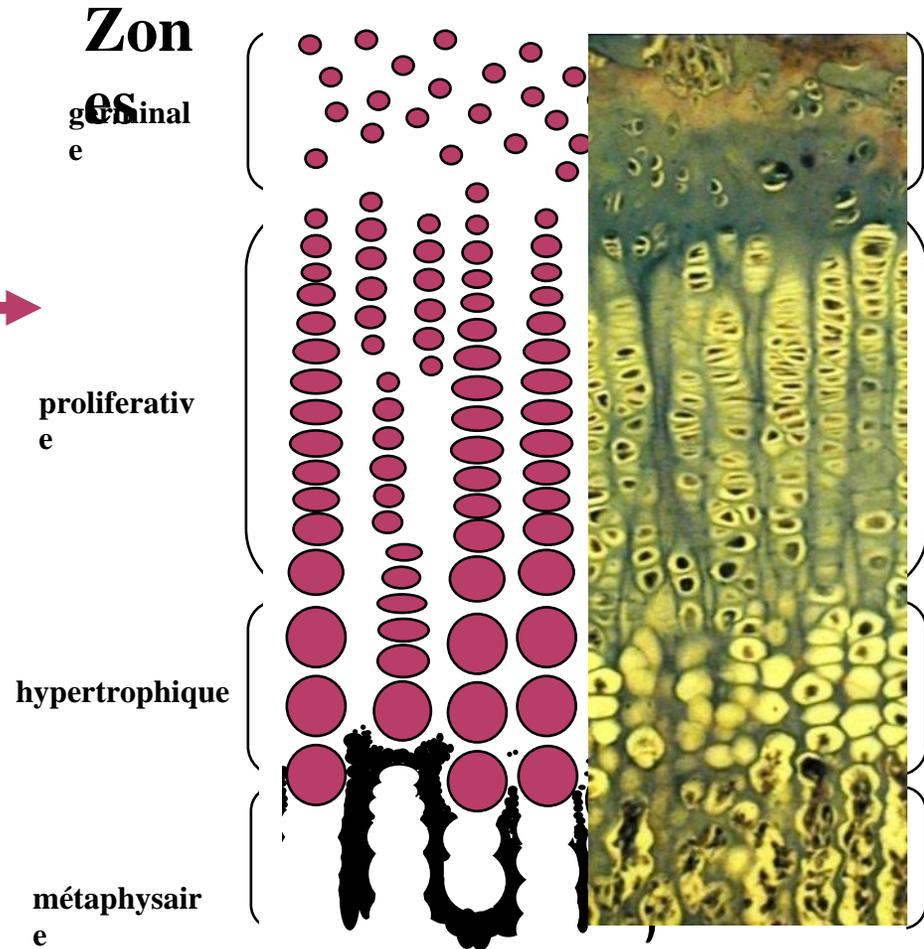
Collège Hospitalier et Universitaire
de Chirurgie Pédiatrique

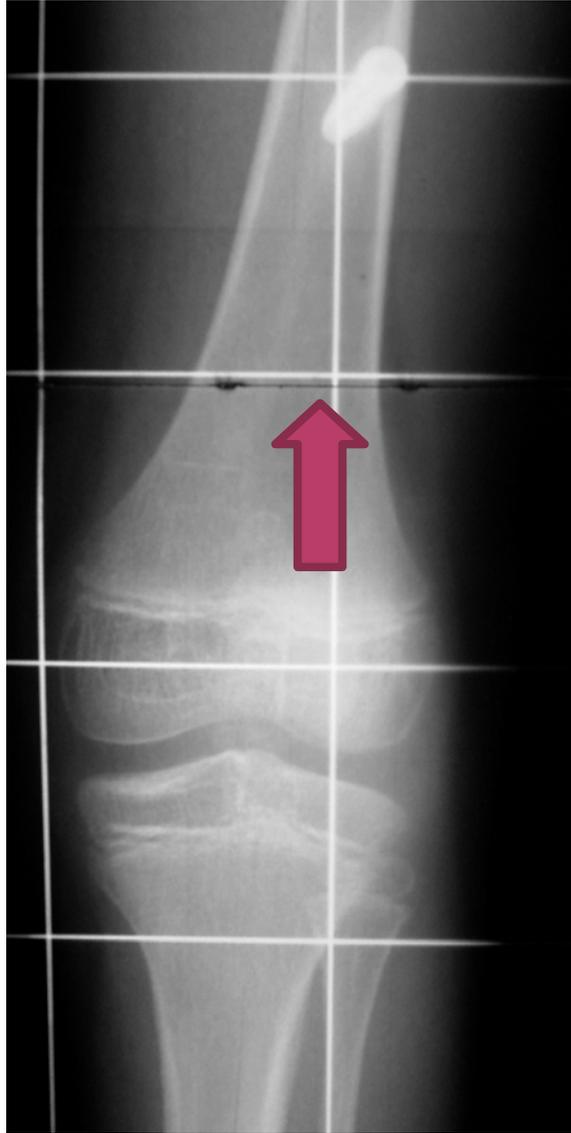
DESC de Chirurgie Pédiatrique
Session de mars 2011 - PARIS

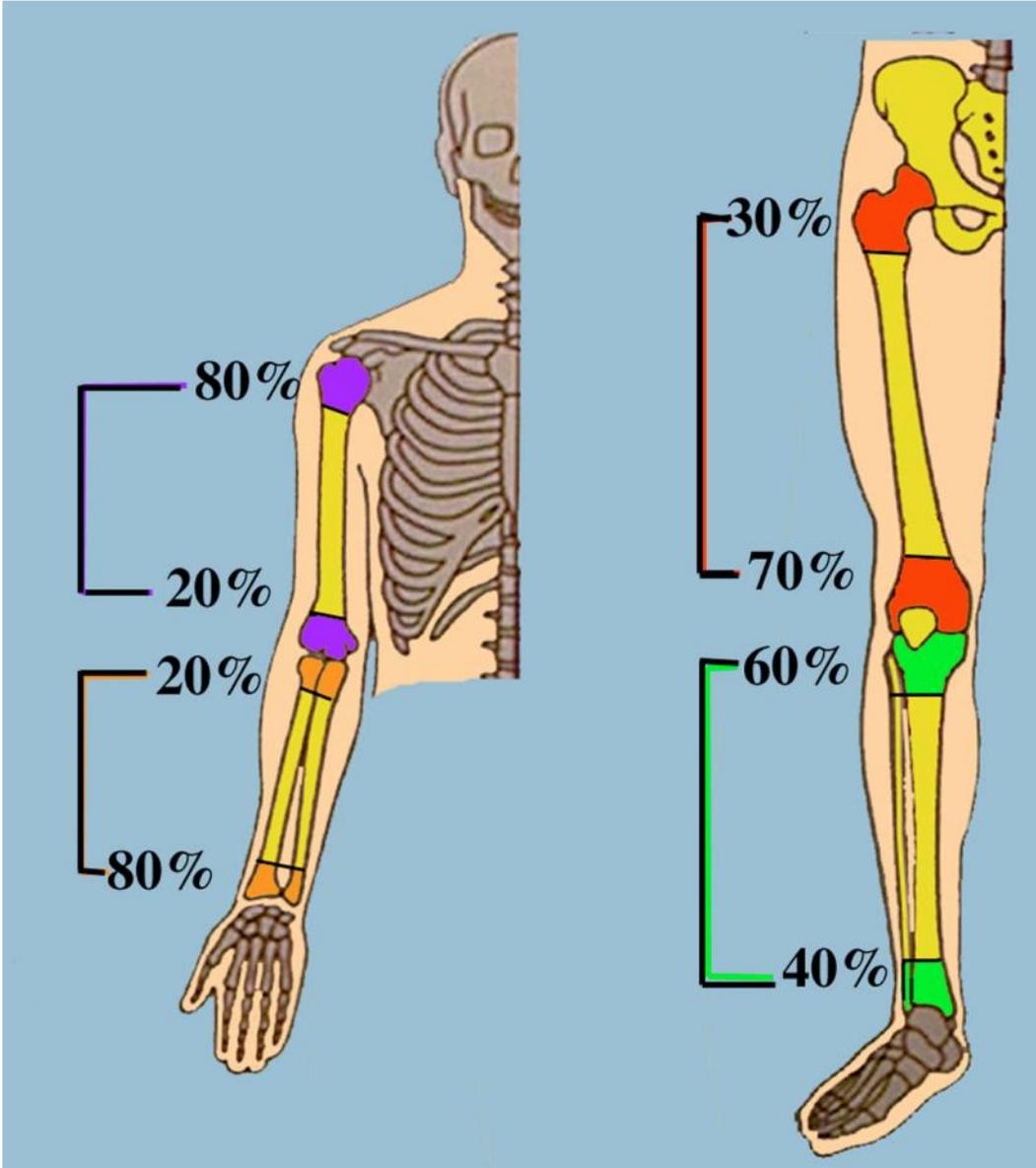
Fractures-décollement epiphysaires autour du genou

Franck ACCADBLED

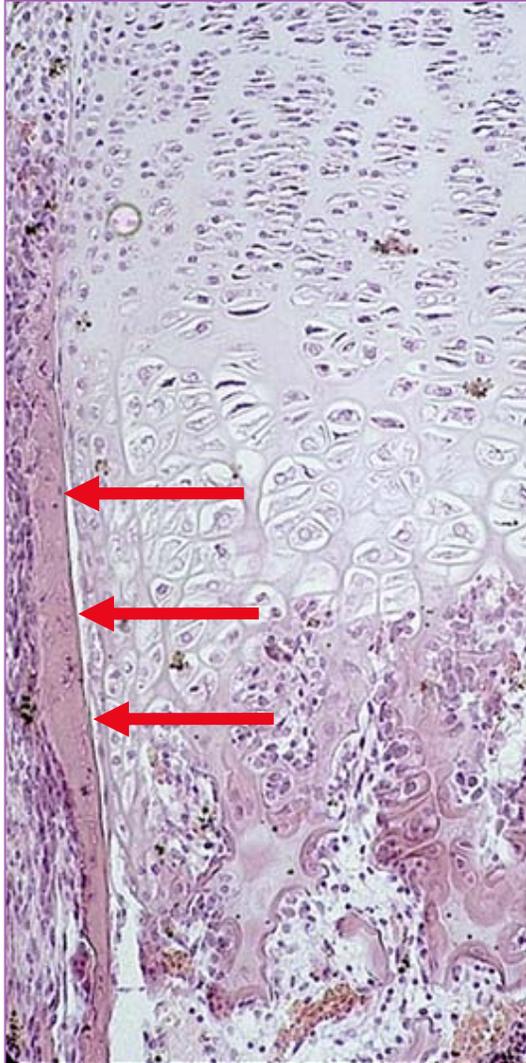
Cartilage de croissance = physe





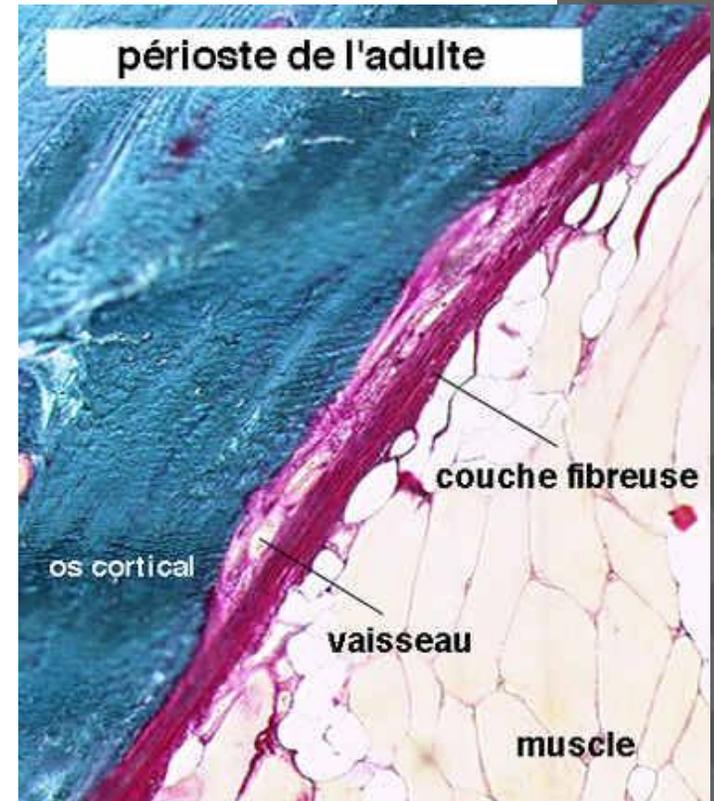
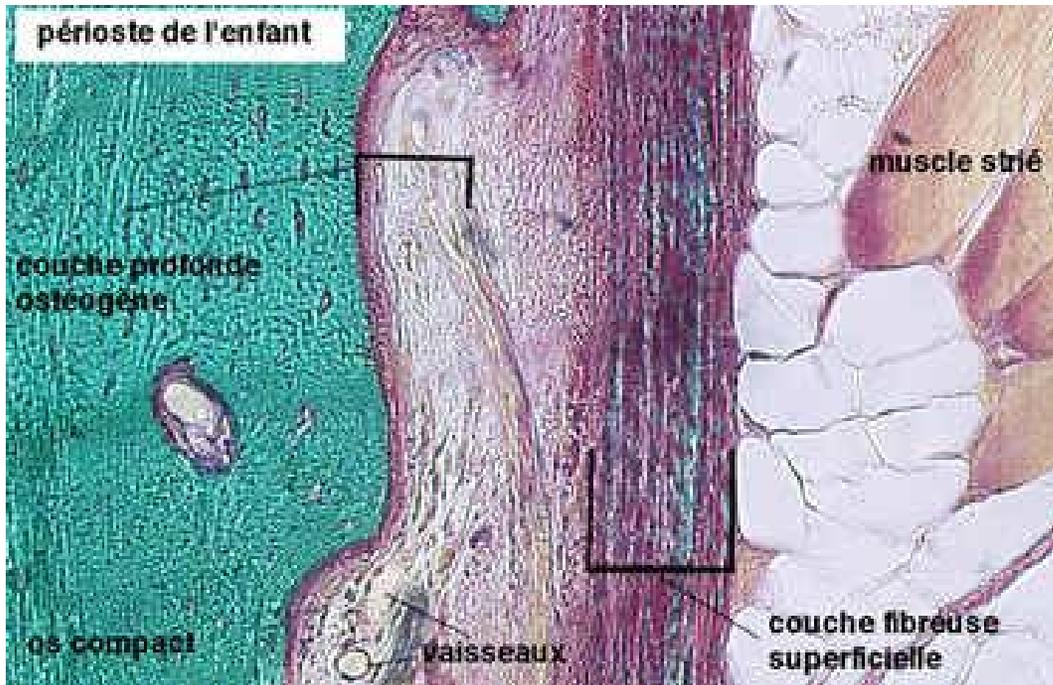


Virole péricondrale

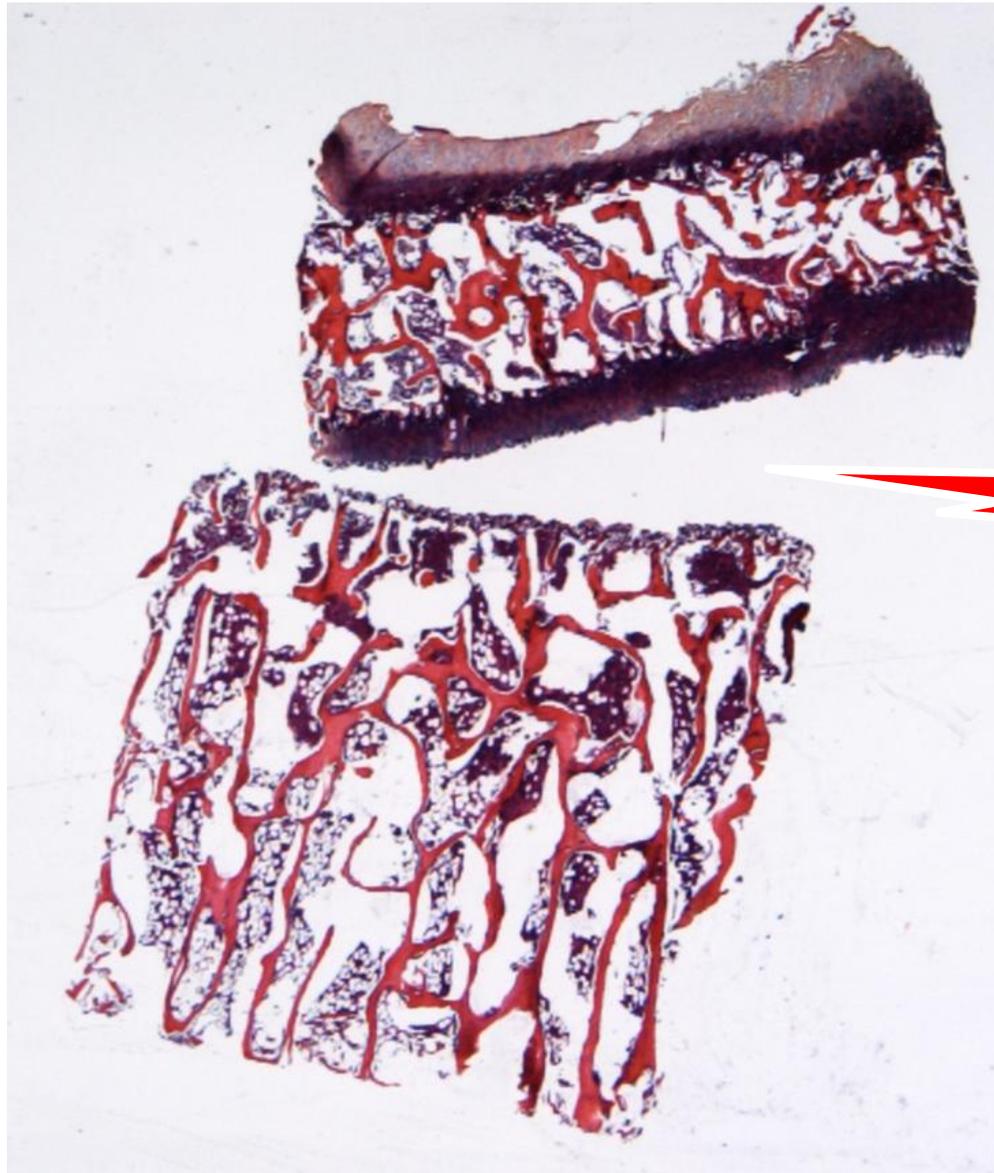


- ◉ Limite et soutient latéralement le cartilage de croissance
- ◉ cellules mésenchymateuses participant au développement en surface du cartilage de croissance

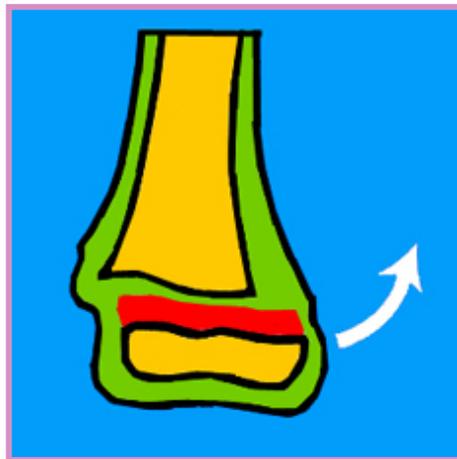
périoste



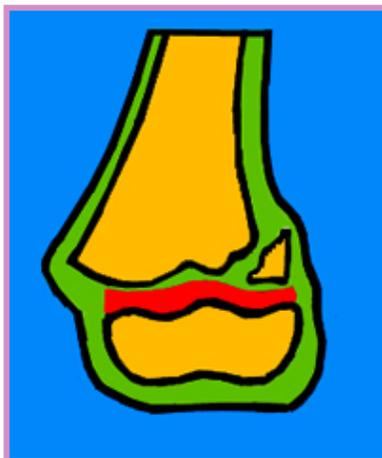
Point faible



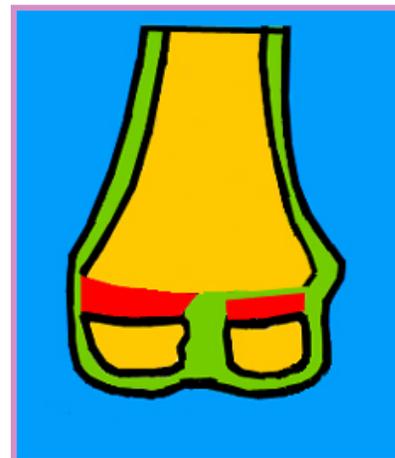
Classification de salter et harris



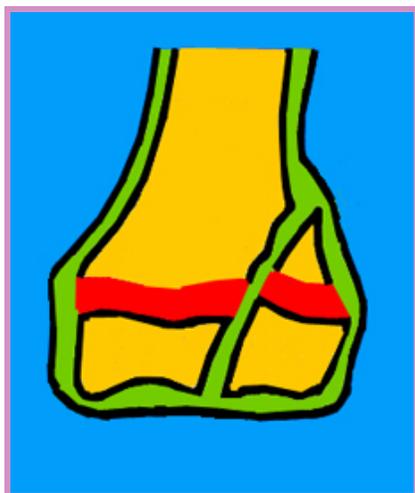
Type 1



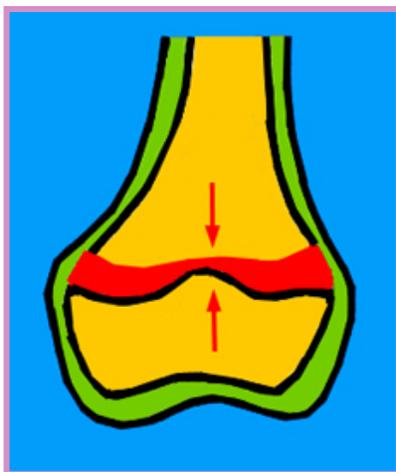
Type 2



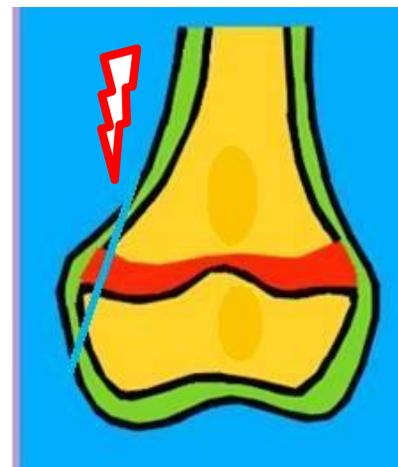
Type 3



Type 4



Type 5

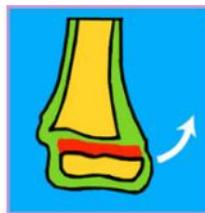


Type 6

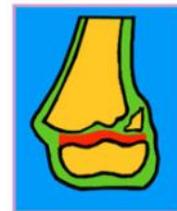
FRACTURE-décollement épiphysaire

- Le plus souvent >8 ans
- 18% des fractures de l'enfant
- Fréquence relative *Mizuta T. JPO 1987*

- I: 8,5%
- **2: 73%**
- 3: 6,5%
- 4: 12%
- 5 et 6: <1%



Type 1



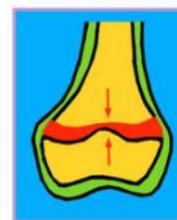
Type 2



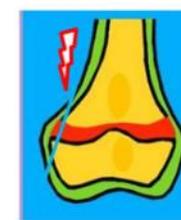
Type 3



Type 4



Type 5



Type 6 (Rang)

fRACTURE-décollement épiphysaire

○ Fréquence par sites *Mizuta T. JPO 1987*

Physis	No. of injuries	
Distal radius	100	(28.3%)
Phalanges (fingers)	91	(25.8%)
Distal tibia	33	(9.4%)
Phalanges (toes)	25	(7.1%)
Distal humerus	24	(6.8%)
Distal ulna	16	(4.5%)
Proximal radius	16	(4.5%)
Metacarpals	15	(4.2%)
Distal fibula	12	(3.4%)
Proximal humerus	7	(2.0%)
Metatarsals	5	(1.4%)
Proximal tibia	4	(1.1%)
Lateral clavicle	3	(0.9%)
Proximal ulna	1	(0.3%)
Distal femur	1	(0.3%)
Total	353	(100.0%)



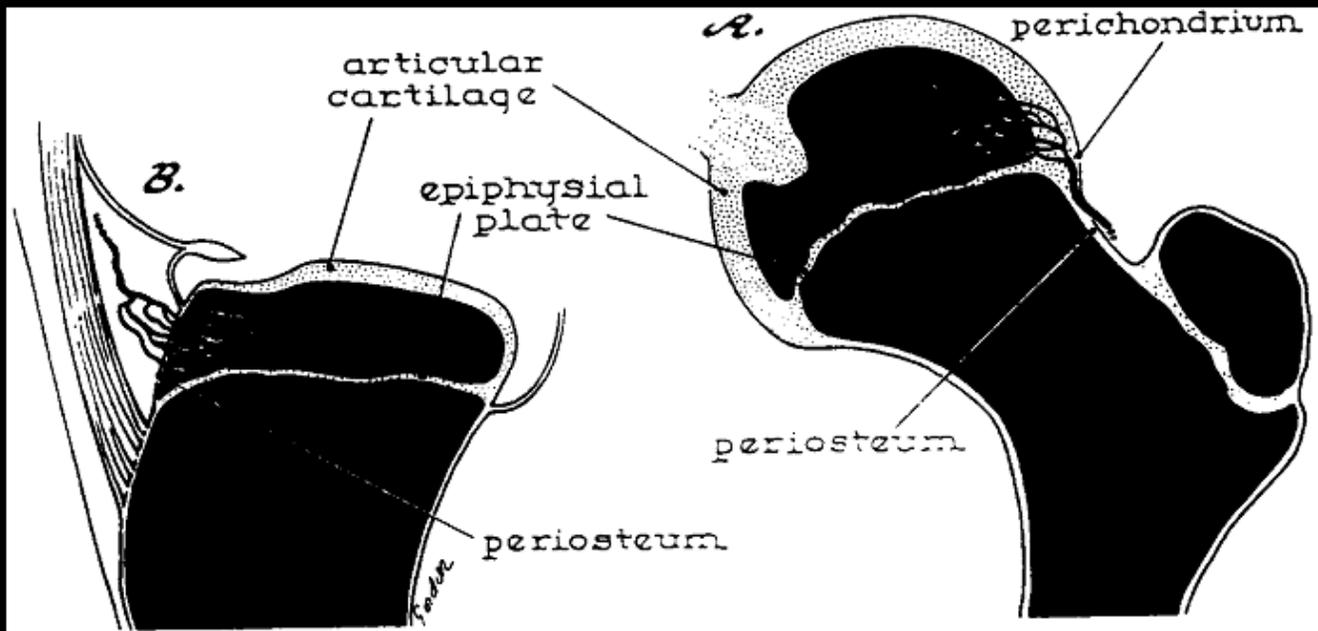
enjeux

- ⦿ Lésion artérielle
- ⦿ Syndrome de loge



enjeux

- Vascularisation épiphysaire *Dale GB. JBJS Br 1958*



○ Epiphysiodèse

- Surtout types 3, 4, 5 et 6 de SH

mais pas seulement!



⊙ Epiphysiodèse

- Raccourcissement ou déviation axiale



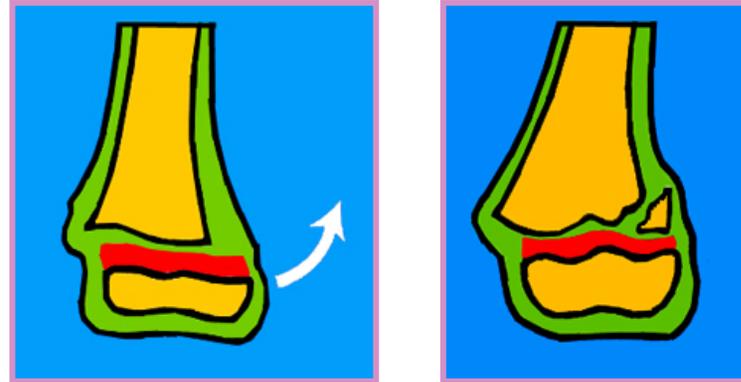
○ Réduction articulaire: arthrose

- Types 3 et 4 de SH



Traitement

- SH 1 et 2

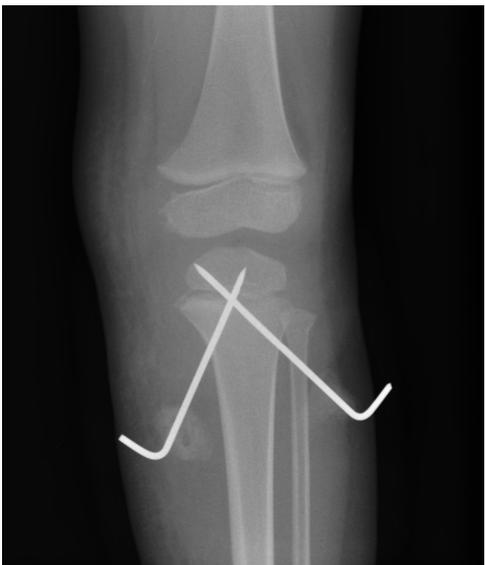


Réduction

Immobilisation plâtrée

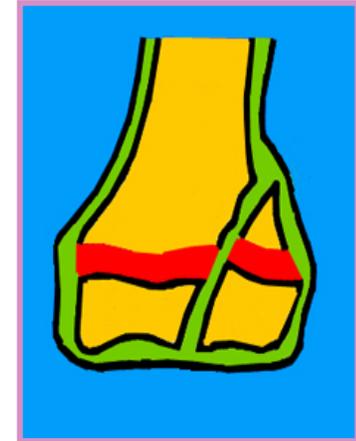
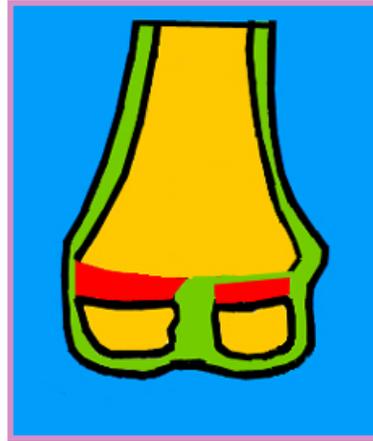
Si instable: embrochage ou vissage percutané

Immobilisation 4 semaines



Traitement

- SH 3 et 4



- Bilan Scanner ou IRM
- Réduction anatomique à foyer ouvert ou arthroscopie
- Ostéosynthèse (vis en compression ou broches)
- Durée d'immobilisation 5 semaines

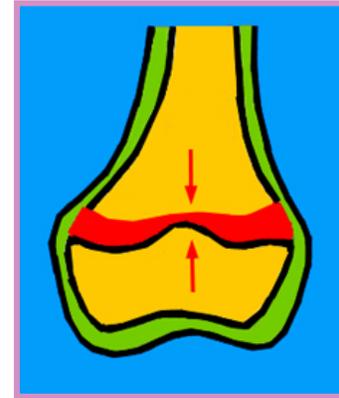
♂ 14 ans choc direct / valgus au rugby



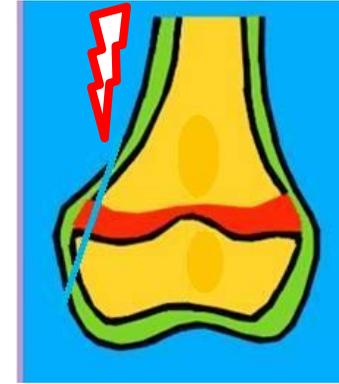
Traitement

○ SH 5

Immobilisation plâtrée sans appui



Traitement



○ SH 6

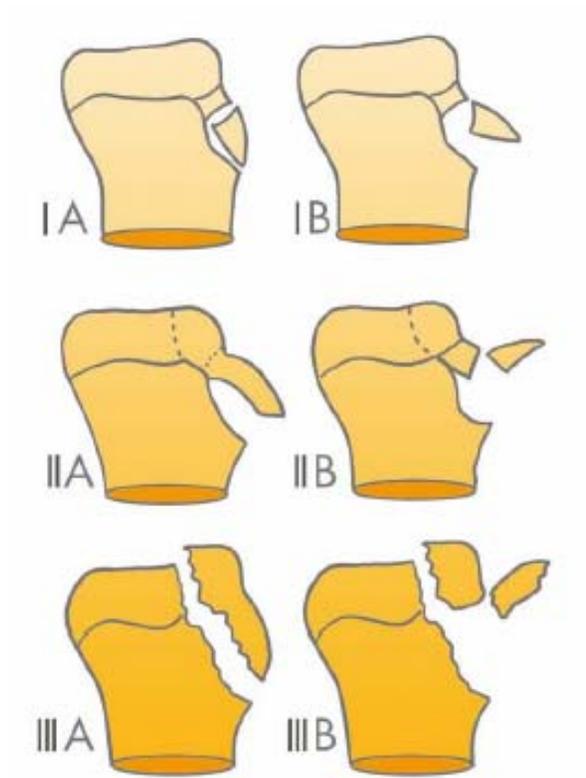
- Immobilisation
- Prise en charge des lésions cutanées souvent associées

Alternative

Curetage/interposition préventive *Foster B. JPO 2000*

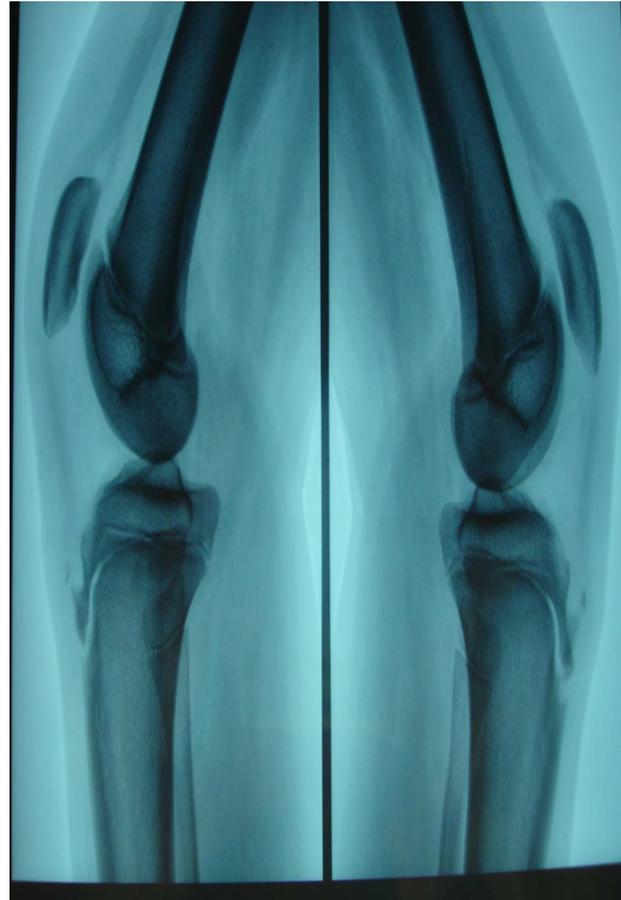
Tubérosité tibiale

- Fracture apophysaire
- Avulsion par contraction du Quadriceps contre résistance



gden JA. JBJS Am 1980

○ Osgood Schlatter prédisposant?



→ Non Bauer RCO 2005

- ◉ Type I non déplacé: immobilisation
- ◉ Déplacé: réduction/vissage percutané
- ◉ Type III: **Exploration articulaire**



A RETENIR

- ◉ Classification de Salter et Harris
- ◉ Haute cinétique /grand déplacement: **DANGER**
- ◉ SH 1 et 2, fréquentes, souvent faciles à réduire mais **INSTABLES**
- ◉ SH 3 et 4: fractures articulaires
- ◉ Informer et SURVEILLER une **EPIPHYSIODESE**