



Young Bones

Characteristics

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Jubilæums symposium i
Børneortopædi



What's so special...

Periosteum



Elasticity



Growth



The envelope

Periostium

Elasticity

Growth

Connects displaced fragments building a bridge during healing

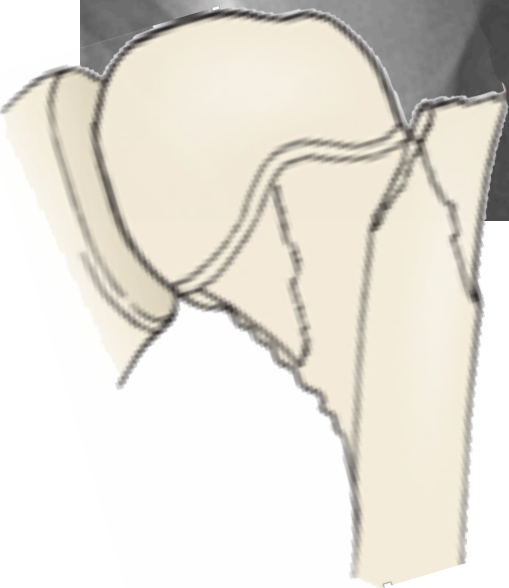


Interposed between fragments makes the reposition difficult

The envelope

Periostium

Elasticity



Compliance

Periostium

Elasticity

Growth

Stable fractures



Tendency to underestimate force/trauma.

Pelvic/costal/vertebral fractures

fractures
Pelvic/costal/vertebral

Compliance

Periostium

Elasticity

Growth



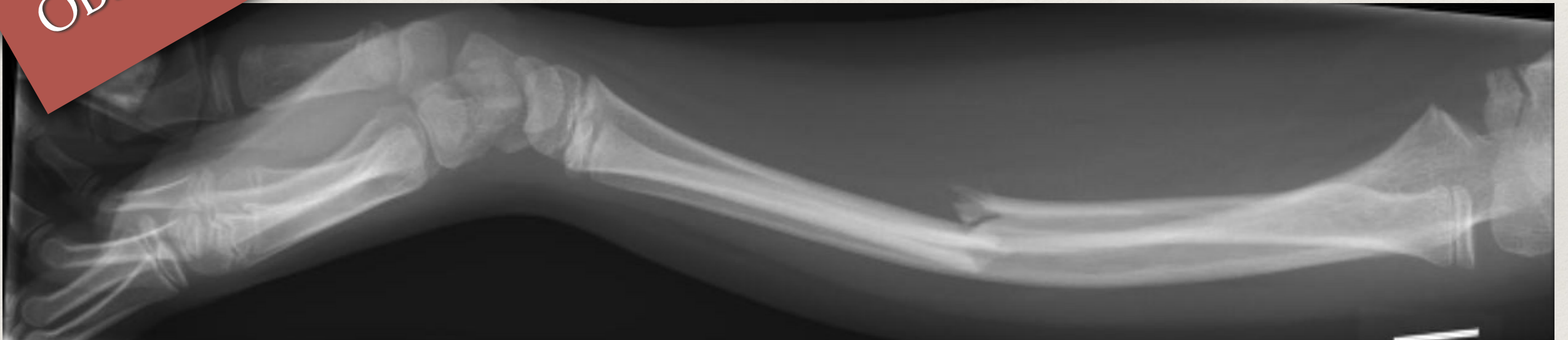
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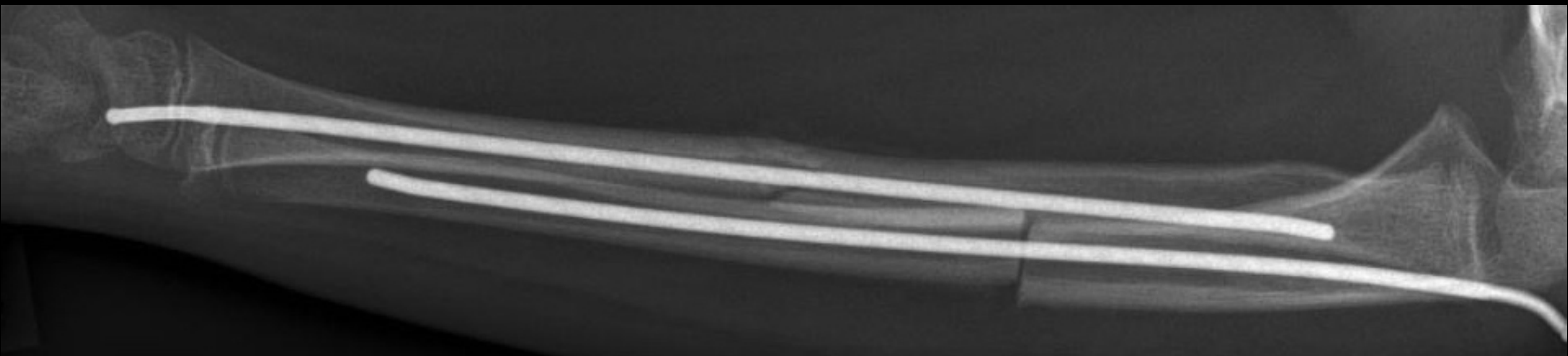
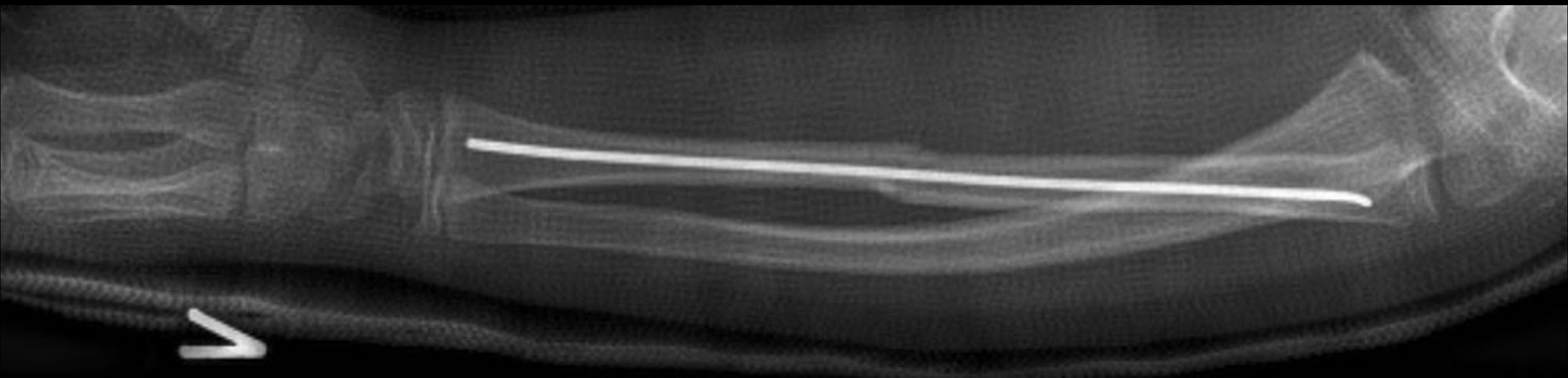
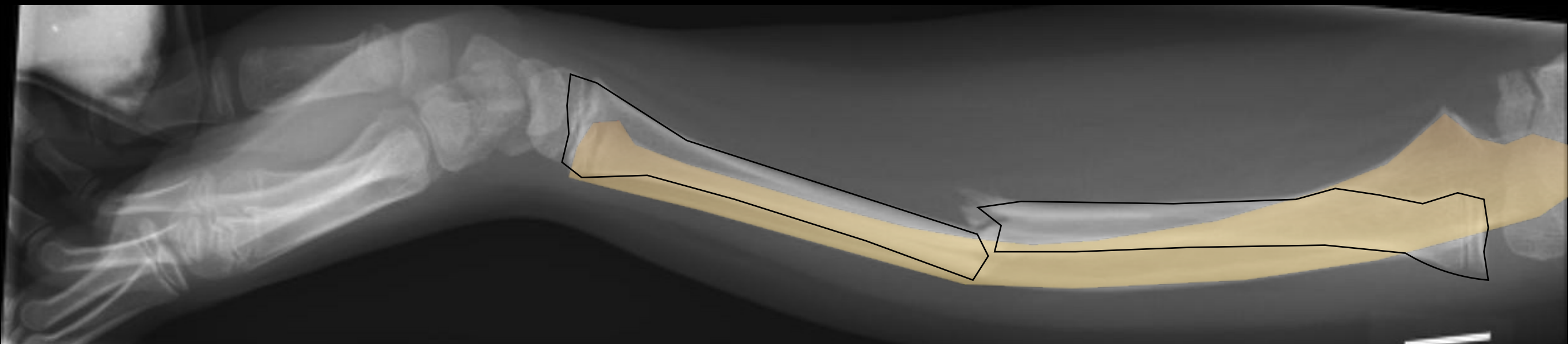
Periostium

Elasticity

Growth

OBS: Bowing fracture!





Friend or foe

Periostium

Elasticity

Growth

Some deformities
improve by growth



Some deformities
worsen by growth



No screws crossing growth plate
Final surgery within few days



Articular surface has priority over growth plate



Progressive deformity by growth → early intervention



A deformity can be corrected – joint surface can not

Characteristics of childrens bones

- ❖ **Periosteum** can heal the bone despite severe dislocation
- ❖ **Bowing fractures** is difficult to diagnose and difficult to treat.
- ❖ Injury to the **growth plate** gives progressive deformity.
Joint surface, however, has the highest priority.

