OPERATIVE TECHNIQUE



EXTERNAL FIXATOR

October 2007

OPERATIVE TECHNIQUE EXTERNAL FIXATOR

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Components
Instrumentation
Assemblies types
Pins position
Tibia
  Example 1, 2 & 3
Ankle
Pelvic
Humerus - Radius
Medical cases 1,2 & 3
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COMPONENTS

- Carbon tube
 - 5 lengths
- Connection & pin cluster clamp



Pins







COMPONENTS

Self drilling/self tapping pins & reduction sleeves

- 5 mm pins
 - Translucent sleeves

- 4 mm pins
 - Yellow sleeves

- 4 & 5 mm transfixing pin
 - Yellow sleeves







INSTRUMENTATION

Handle and sleeve & trocart





Drill brace







ASSEMBLIES TYPES















PINS POSITION

- Approximately 3 cm from fracture
- 7 to 8 turns with drill brace after reaching the 2nd cortical



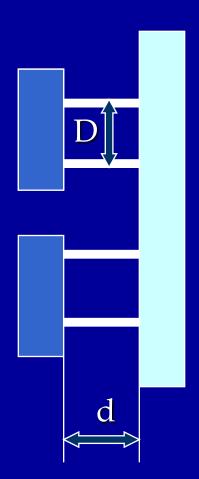




PINS POSITION

Increase of D increases rigidity
(D x 2 => rigidity x 4)

Increase of d decreases rigidity



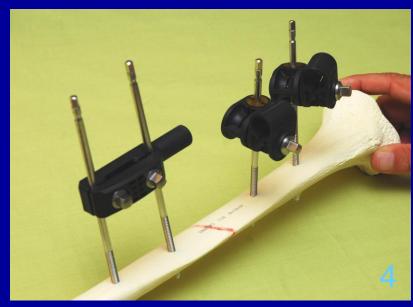


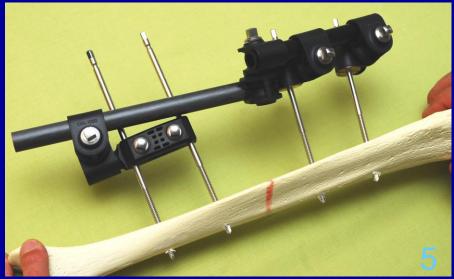


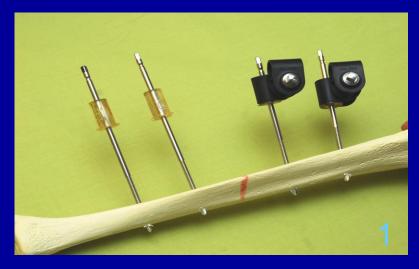


Pins parallel

Independent pins placement

















ANKLE





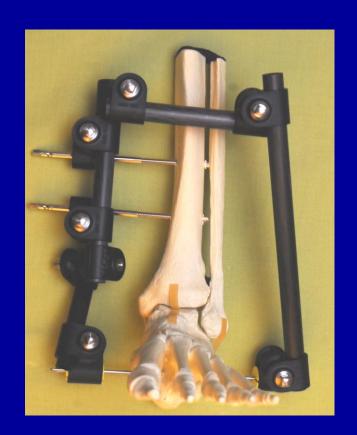


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ANKLE



Example 1

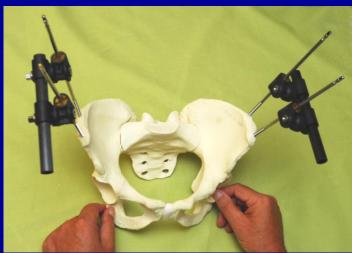


Example 2

PELVIC

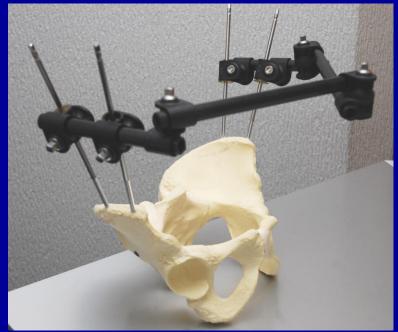




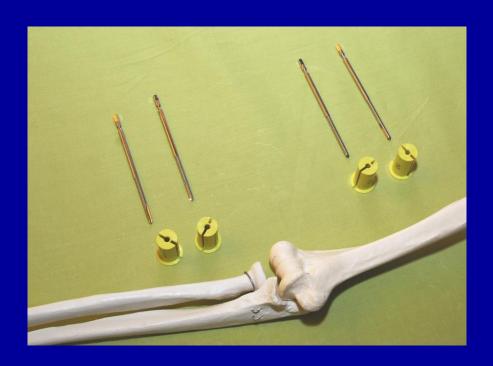


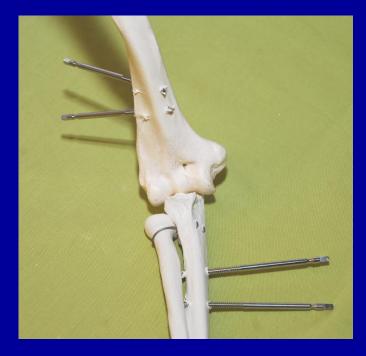
PELVIC



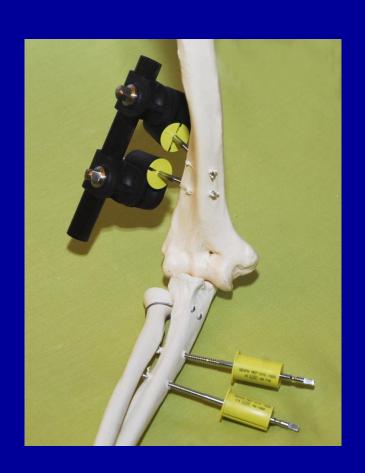


HUMERUS - RADIUS





HUMERUS – RADIUS

















7 months after





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3 months post surgical intervention



Stability and elasticity

Stability avoids loss of reduction.

Elasticity generate micro movements promoting callus formation.



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