

Fractura pathologica





Myeloma -The plasma membrane of a muscle fiber

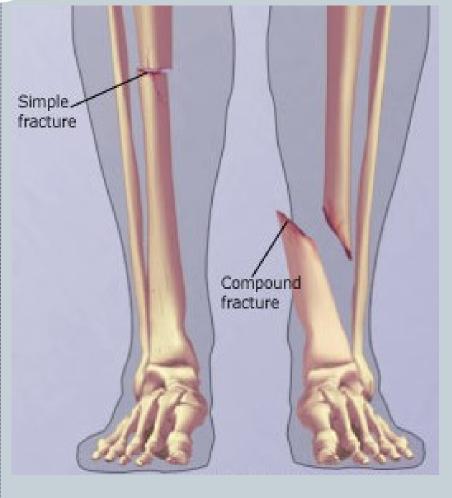
Fractura traumatica



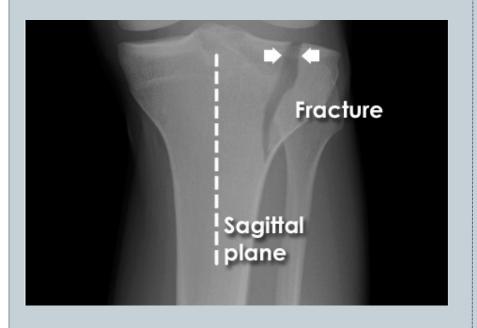


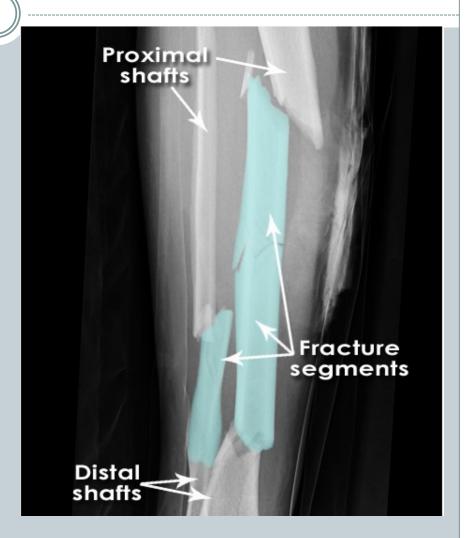
Fractura aperta/clausa



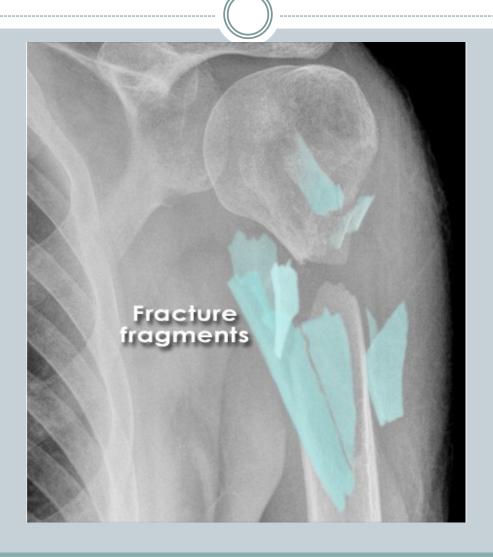


Fractura simplex/multiplex





Fractura comminutiva



Fractura transversa/obliqua





Fractura spiralis

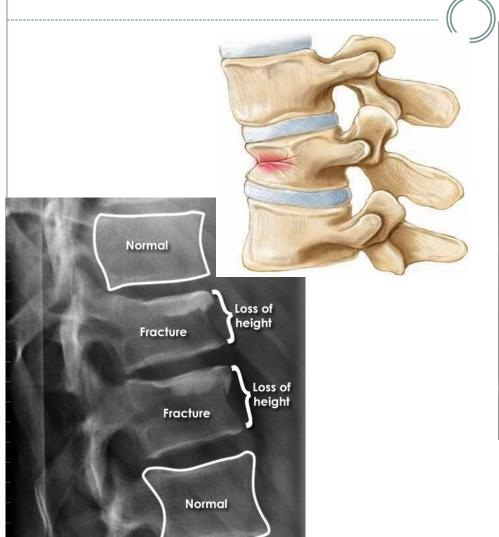
/ longitudinalis

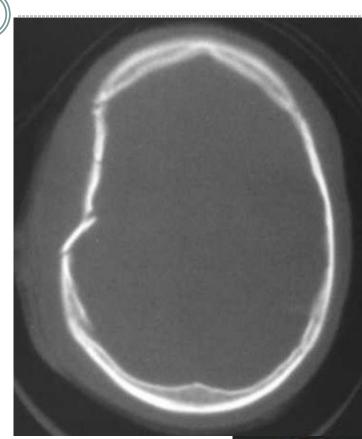




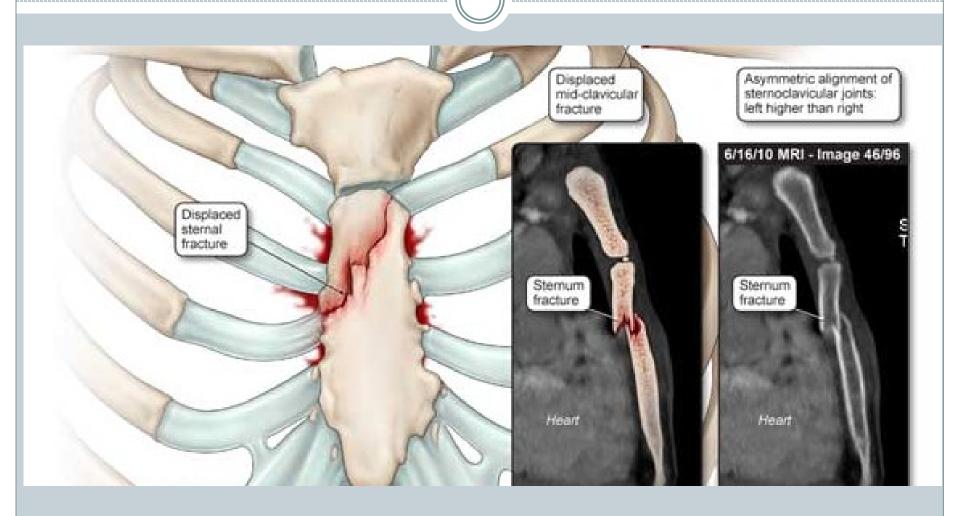
Fractura compressiva





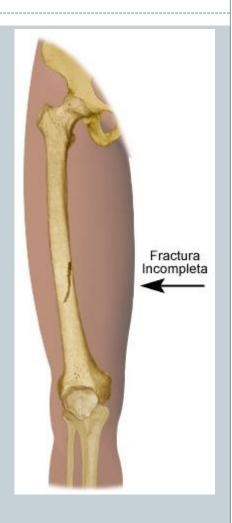


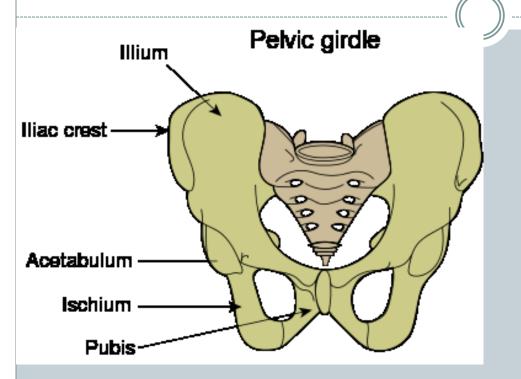
Fractura incuneata



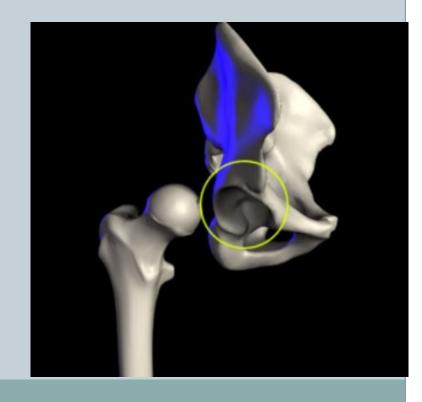
Infractio = f. partialis = f. incompleta







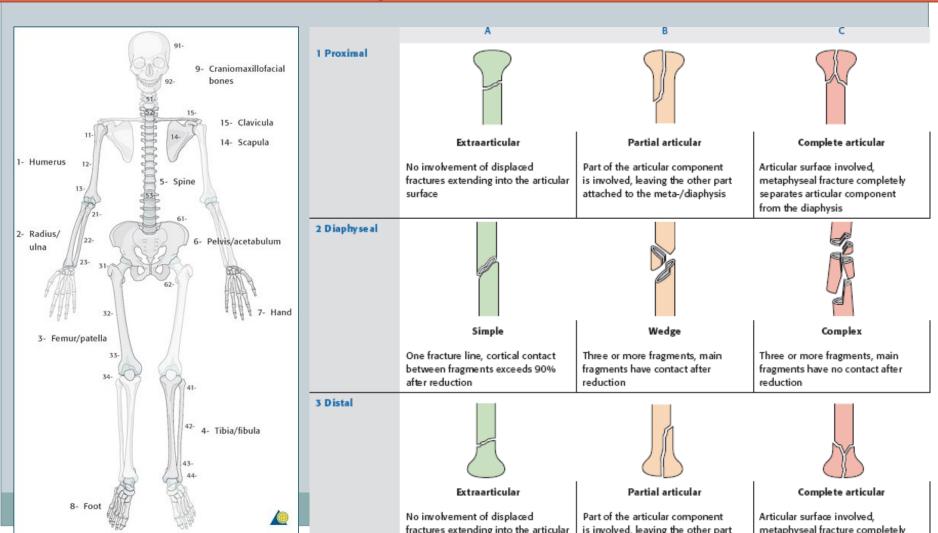
The **acetabulum** (cotyloid cavity) is a concave surface of the pelvis. The head of the femur meets with the pelvis at the acetabulum, forming the hip joint.



AO Classification of fractures

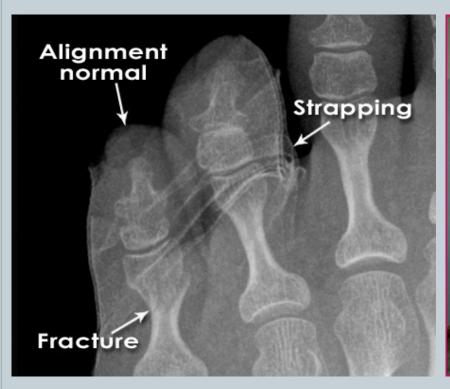


S 4220 Fractura colli chirurgici humeri l. dx. comminutiva AO 11-C3



1: REPOSITIO = REDUCTIO fragmentorum

CLOSED (short /long term)



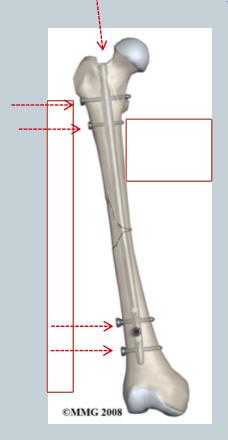


2: FIXATIO = STABILISATIO fragmentorum

PLASTER CAST



INTERNAL FIXATION





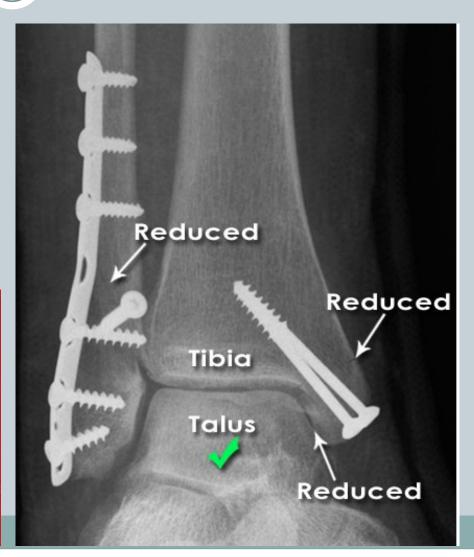


2: FIXATIO = STABILISATIO fragmentorum

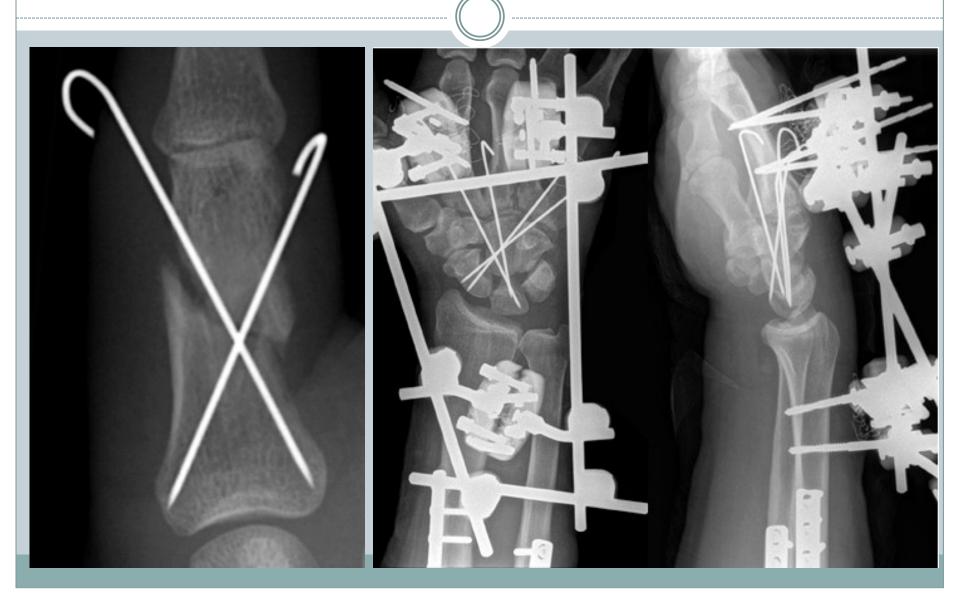
INTERNAL FIXATION



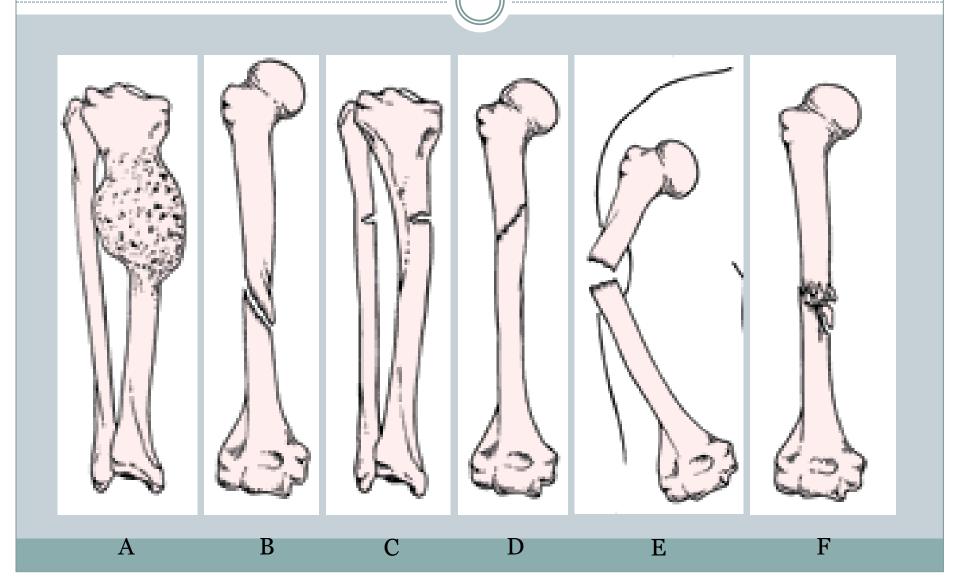




2: FIXATIO = STABILISATIO fragmentorum

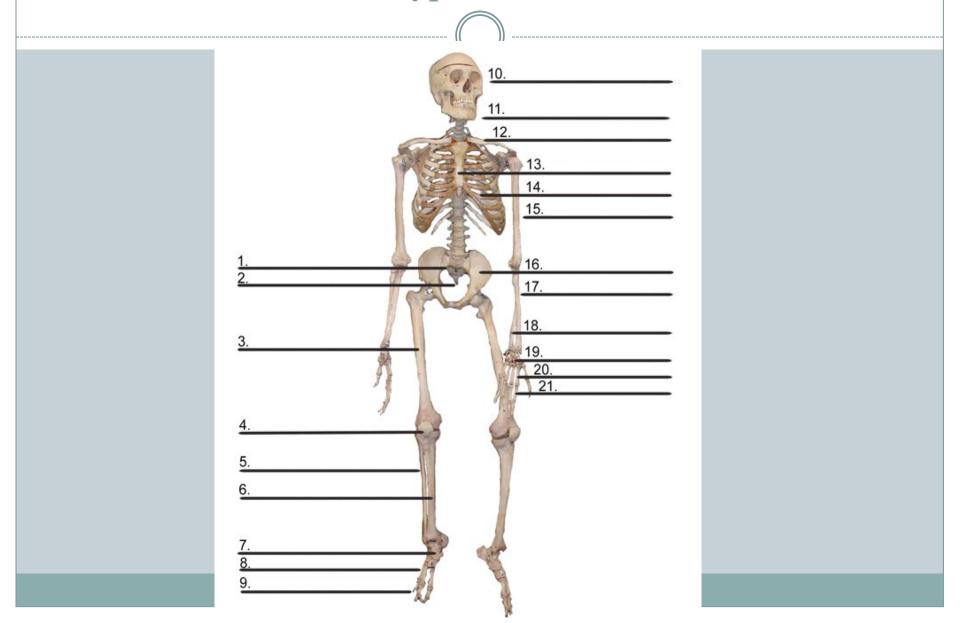


Name the type of fracture



A) Name different bones of the human body

B) Write down different types of fractures of named bones



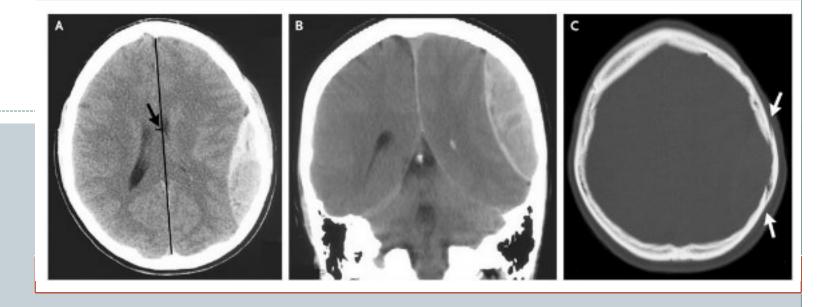
1





A 45-year-old woman presented with a 3-month history of generalized body pains nonresponsive to analgesic agents. Along with low back pain, she had progressive difficulty in getting up from sitting and supine positions and in walking. There was no history of trauma or any medication intake. She is an orthodox believer who wears a black veil outdoors and is completely covered, with little exposure to the sun. An anteroposterior radiograph of the pelvis showed an *undisplaced transverse fracture of the shaft of both femurs*. The patient was treated with therapeutic doses of calcium and vitamin D supplements.

2

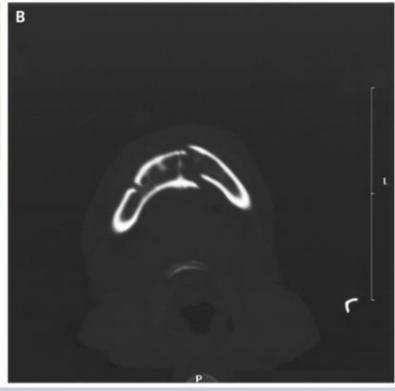


An 18-year-old slightly intoxicated man was <u>assaulted with a glass bottle</u> on the left parietal region of his head and had a 5-minute loss of consciousness. Two hours after the injury he was presented to a local emergency with severe headache, nausea, and repeated vomiting. Computed tomography of the head revealed a 2.5-cm *epidural hematoma in the left parietal region* (Panels A and B) *underlying a linear nondisplaced skull fracture* (Panel C, arrows).

3

A 21-year-old man presented after being struck with a gun on his right lower jaw. Examination revealed displacement of the





left half of his mandible with malocclusion on biting (Panel A). Computed tomography showed a fracture of the left mandible and a fracture of the right mandibular body and angle (Panel B). Given the U shape of the mandible, it is common for contralateral fractures to result from major injury. Intravenous analgesics and antibiotics were given; the patient underwent open reduction with internal fixation of his fractures.

Literature

- Mazánek, J.: Traumatologie orofaciální oblasti.
 Praha: Grada, p. 24
- http://radiologymasterclass.co.uk
- http://anthropology.si.edu
- http://nejm.org (The New England Journal of Medicine)