

Fractures of clavicle

- frequent fractures arising usually indirectly from a fall on the shoulder (sports injuries)
- it most often breaks in the middle third
- typical dislocation of the medial fragment upwards (pulling of the sternocleidomastoid muscle), and further approximation of both fragments by pulling of pectoralis minor muscle

Classification (according to frequency of disability) - according to Allman

- Typ 1 – middle third fractures
- Typ 2 – lateral third fractures
- Typ 3 – fractures of the medial third

Clinical signs

- pain limiting movement in the shoulder joint
- drooping shoulder
- antalgic holding HK
- visible dislocation
- palpable crepitation and pathological mobility
- hematoma (in older fractures due to gravity it descends to the breast area)
- may be an open fracture (often a small perforation of the skin by a fragment)



clavicle fracture

complication

- brachial plexus injury (examine peripheral innervation)
- vascular injury (a. subclavian – examine the pulse on the a. radialis, v. subclavian – signs of venostasis)

Diagnostics

- X-ray in anteroposterior projection, event. an oblique image from the bottom up, which better informs about the extent of the dislocation

therapy

Conservative (predominant)

- retracting the shoulder dorsally and caudally, permanent pull back with a figure-of-eight bandage or Delbet rings
- Desault's bandage: extension fixation of the upper extremity of the palm to the stomach area with padding under the arm
- after fixation control X-ray
- immobilization for 4 weeks (children 2-3 weeks)
- healing may be accompanied by a more prominent muscle due to relative restlessness during healing (cosmetic problem - diminishes over time)

Operative (mainly for type 2 fractures - lateral end of the clavicle)

- percutaneously introduced K wire (can be supplemented with a loop in traction cerclage) - long oblique fractures
- cannulated cancellous screw – transverse or short oblique fractures
- splint adapted to the shape of the root - reoperation, treatment

links

related articles

- Clavicle
- bones of the upper limb

source

- PASTOR, Jan. Langenbeck' s medical web page [online]. [cit. 2010]. <<http://langenbeck.webs.com>>.