Elbow dislocation associated with fractures distal quarter of the radius and scaphoid
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ABSTRACT
The high-energy trauma has become frequent cause of traffic accidents. We oftensee multiple lesions, fractures, dislocations, soft tissue damage in the same patient on the same members or different members. We report the case of a rare combination of lesion treated in our department.

Keywords
Elbow dislocation, Fracture, Radius, Scaphoid, Traffic accident.

Introduction
Concomitant fracture dislocations of the upperlimb are rare. The mechanismis often due to high energy trauma. Although the treatment of theselesions isolates simple, their association makes their management delicate. We report a case of elbow dislocation associated with a fracture of the distal radius and scaphoid fracture.

Observation
Young 29 yearold amateur sports (cycling) history of a particular disease Victim sports accident with an impact only point at the right upperlimbfollowing a crash on the descent of a hill with fast Reception hand elbow extension. On admission he showed no vital emergency. A Clinicalexamination: deformation elbow + right wrist , no skin opening. Peripheral pulses were present. Radiography of the right upperlimb (Fig. 1) showed:

* An elbow dislocation.
* A comminuted fracture of the lower quarter of the radius.
* A scaphoid fracture.

Under general anesthetia:

* Reduction of dislocation first,
* Reduced wrist under fluoroscopic control
* Bipolar Distraction by an external fixator.

Postoperative Radiation Control was satisfactory. (Fig. 2a, 2b)

Figure 1: Preoperative radiograph

* An elbow dislocation.
* A comminuted fracture of the lower quarter of the radius
* A scaphoid fracture.

Under general anesthesia:

Figures 2-a 2-b: post operative radiograph
Contention by a plaster splint elbow bent at right angles, and forearm in neutral position was maintained for 4 weeks.
Postoperative course was uneventful. Rehabilitation of the elbow was to begin after the 4th week by the 6th week. The external fixator was removed and replaced with a sleeve-type scaphoid plaster for 8 other weeks. The removal of the plaster cuff was carried out after 3 months.

Radiological control:
- Cal vicieux radius
- RSDS (fig 3).
- Consolidation of the scaphoid (Fig. 4).

After a decline of 5 months:
- Retrieve the function of his elbow,
- Stiffness and decreased grip strength wrist despite rehabilitation.

Discussion:
The combination of a dislocation of the elbow with fractures of the lower quarter of the radius and scaphoid is rare.

Fracture - dislocations bipolar upper limb are rare [1,2]. The combination of elbow dislocation, fracture of the radius and scaphoid fracture has been described once in the literature, most of the observations bifocal lesions rather relate associated wrist injuries consisting of a dislocation périlunaire carp [1]. The mechanism is difficult to define, but most likely as in our patient, there is a fall on the member extension [3]. This position is consistent with the elbow dislocation and fracture of the radius, as well as the mechanism of scaphoid fracture [2]. This mechanism is often found in young adults males, following a high-energy trauma by traffic accident, fall from stairs [4]. According Soon et al. [5], the fracture of the radial shaft is sometimes associated with a dislocation of the elbow or radial head without injury to the wrist. Dislocation of the elbow has also been described associated with Galeazzi fracture dislocation [6]. The diagnosis of a scaphoid fracture or dislocation périlunaire may go unnoticed at the loudest clinical picture of elbow dislocation and fracture of the radius as in our case [4,7].

If support separates different lesions are not a problem, it is obviously at the wrist that the risk of breach of a lesion is more important [2,4]. In our patient, setting the radius helped stabilize the reduction of dislocation of the elbow was performed in emergency. The latter has always been treated conservatively in all published cases involving concomitant injuries of the wrist and forearm to elbow dislocation [2,3,7]. According Waaziz et al. [4] who compared different published cases of concomitant injuries of the wrist and elbow, functional outcome depends mainly on the wrist with associated ligament injuries require emergency stabilization. Hence the need to be systematic in reading radiographs of the wrist and elbow in high energy trauma of the upper limb.

Conclusion:
The lesions observed in the patient association is rare. Proper treatment is essential to avoid the complications of different lesions and add and compromise limb function.

Reference