

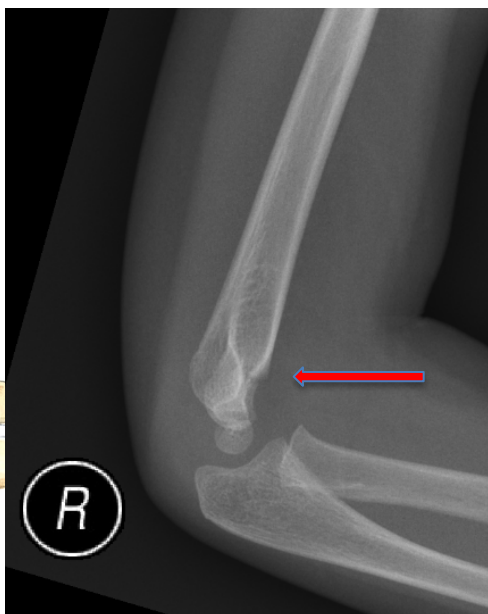
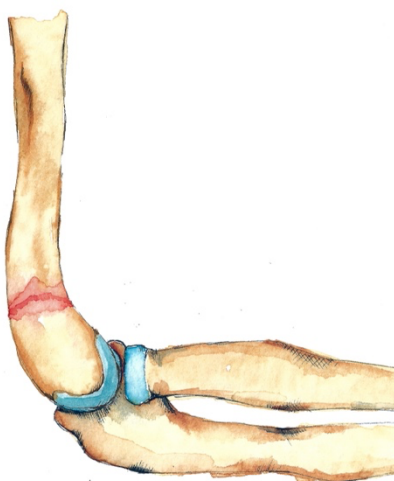


## **SUPRACONDYLAR ELBOW FRACTURE (DISPLACED) INFORMATION SHEET**

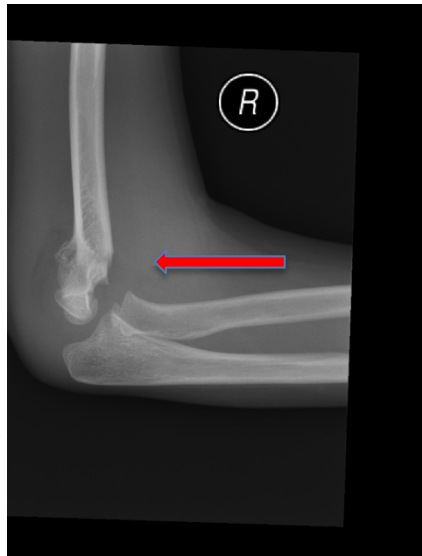
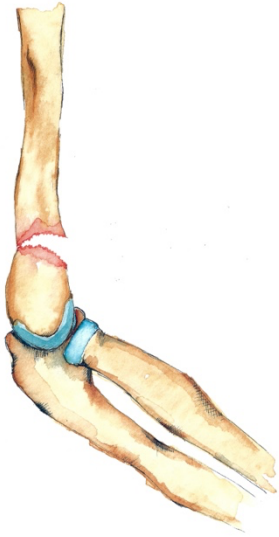
### **FRACTURE DESCRIPTION**

- Your child has a SUPRACONDYLAR FRACTURE of the HUMERUS, which is a fracture just above the elbow (see figure 1)
- These are one of the most common fractures of childhood.
- These fractures can be
  - Undisplaced (bones are in perfect alignment) or minimally displaced (the bones are in a good alignment) (see **Figure 1 and 2**) OR
  - Displaced (the bones are out of alignment) (see **Figure 3**)
- Your child's fracture is DISPLACED (see **Figure 3**)
- Because the bones are in good alignment, and this is a very stable fracture, there is no need for an operation to align the bones or stabilise them.

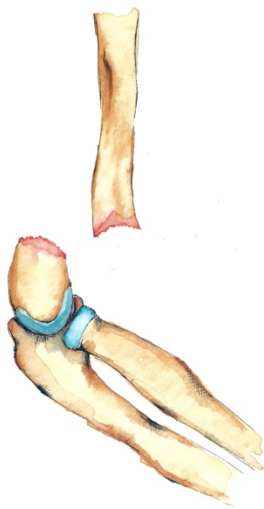
### **Anatomy and xray examples**



**Figure 1.** Schematic diagram and xray of an undisplaced supracondylar elbow fracture



**Figure 2.** Schematic diagram and xray of a minimally displaced supracondylar elbow fracture



**Figure 3.** Schematic diagram and xray of a minimally displaced supracondylar elbow fracture

## MANAGEMENT

- After the operation, your child will be placed in a backslab (a partial cast).
- Your child will remain in hospital overnight to monitor for swelling, pain, and circulation of the fingers
- Your child should be able to go home the next day



## WHEN YOU GO HOME

- The arm should be placed under loose fitting clothing (not through the sleeve of the arm).
- Fractures can be painful and swell, especially in the first few days.
- Simple pain medication such as paracetamol and ibuprofen are usually effective
  - Give regularly for the first few days, following the directions
  - Give a dose before bedtime to allow a good sleep
- When your child is not moving, rest the elbow and hand above the level of the heart (centre of the chest) to minimise swelling (see **Cast Care for the Arm Information Sheet** and **Wires and Wound Care for Children Information Sheet**).
- Encourage frequent finger movement
- Check your child has normal finger movement and feeling, and that the fingers are pink, during the first few days.



## FOLLOW UP

- Your child will sometimes have an xray 5-7 days after the operation, to ensure the fracture alignment is still satisfactory
- You will see Dr Graff or her team 3 weeks after this (ie 4 weeks after surgery), to remove the backslab and wires (if present) (see **Wires and Wound Care For Children Information Sheet**)
- A sling will still be required for a further 1-2 weeks outside of the clothes, but gentle movement 3-4 times a day to help with elbow stiffness is recommended

## WHAT TO EXPECT

- See **Cast Removal Information Sheet**
- When the backslab is removed, the elbow will be very stiff
  - This resolves slowly, often over a period of months.
  - It can take up to one year for full movement to return

## WHAT CAN GO WRONG

- Artery damage
  - The artery near the fracture site can be stretched, torn or go into spasm.
  - If the hand is pink, the artery is usually in spasm, and will return to normal within a week
  - Occasionally input from the vascular surgeons is required
- Nerve damage
  - Nerves near the fracture site can be stretched or damaged; they can also be damaged by the operation
  - Usually this is a stretch of the nerve and this recovers with time, but can take months
  - Occasionally, if there are no signs of recovery after 2 to 3 months, referral to a plastic surgeon may be required and/or further surgery

- Swelling and compartment syndrome
  - Swelling can be severe with these fractures, and occasionally this can cause compartment syndrome
  - Compartment syndrome is an emergency, as the pressure in the arm is so great it stops the blood supply to this area
    - Pressure is relieved with an operation; this is very rare
  - Your child will be monitored overnight in the hospital after the surgery in case of this problem
- Infection
  - Any metal placed in the body is at risk of infection
  - This is rare in children, and antibiotics are not required unless there are signs of infection (see **Wires and Wound Care for Children Information Sheet**)
- Stiffness
- Malalignment of the fracture
  - Occasionally the fracture can heal in a position that causes the arm to look bent
  - Rarely, this will require surgery when the child is older

**ALSO READ:**

- **Cast Care for the Arm Information Sheet**
- **Cast Removal Information Sheet**
- **Wires and Wound Care for Children Information Sheet**