

Monash Exam 2023:

You are asked to see an 8 year old boy who has had a low level fall from play equipment and been brought into your emergency department. He has sustained an isolated right elbow injury with no evidence of any other injuries. You suspect a supracondylar injury.

- What are the classifications of Supracondylar fractures, and give an important detail for each class. (3 marks)
  - Gartland 1, undisplaced fracture of distal humerus, conservative Mx only, treated with simple backslab
  - Gartland 2, displaced fracture of distal humerus, commonly posterior, posterior cortex intact, will need some form of reduction and plaster
  - Gartland 3, displaced fracture of distal humerus, no cortex intact, will require urgent surgical repair
  
- You are concerned that this child has sustained a significant injury. Fill in the box below with the nerve you want to immediately assess, and how you would perform each **motor** assessment. (6 marks) **NOTE answer box has extra row**

Nerve	Expected normal motor physical examination finding
AIN Anterior Interosseous Nerve	A-OK sign flex the interphalangeal joint of the thumb and the distal interphalangeal joint of the index finger
Radial Nerve	Thumbs up Extend thumb interphalangeal joint Wrist extension
Ulnar Nerve	Make a star Abduct all fingers
Median Nerve	Make a fist All finger flexion

- Your physical findings are consistent with a serious supracondylar injury. Please detail 3 immediate management steps for this child. (3 marks)
  - Analgesia (plus details)
  - Plaster in position of comfort, **no marks** if reduction in ED
  - Urgent Orthopaedic referral

- NBM
- ANGEL for IV access
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Total 12 marks