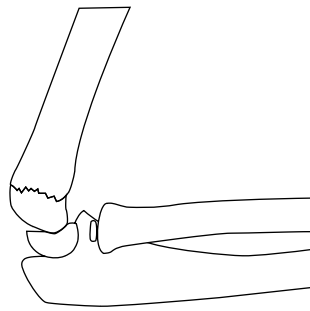
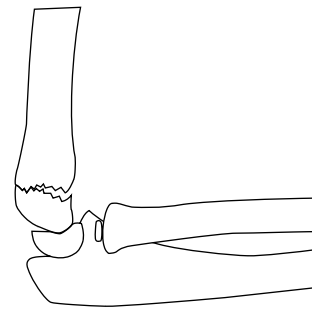


# Gartland Classification

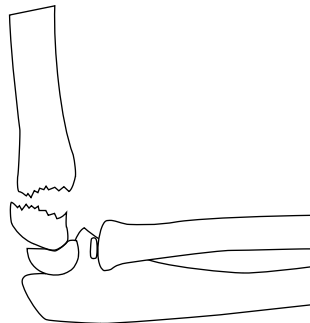
## Gartland classification supracondylar humeral fractures



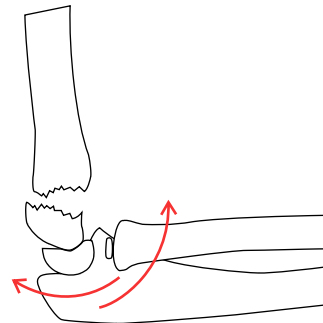
**Type I**



**Type II**



**Type III**



**Type IV**

Case courtesy of Leonardo Lustosa, Radiopaedia.org, rID: 168038

**Type I:** Nondisplaced or minimally displaced (<2 mm) fractures

- Ia: Undisplaced in both projections
- Ib: Minimal displacement, medial cortical buckle, capitellum remains intersected by anterior humeral line

**Type II:** Displaced but with intact cortex

- IIa: Posterior angulation with intact posterior cortex; anterior humeral line does not intersect capitellum
- IIb: Rotatory or straight displacement but fracture remains in contact

**Type III:** Completely displaced

- IIIa: Complete posterior displacement with no cortical contact
- IIIb: Complete displacement with soft tissue gap (i.e. bone ends held apart by interposed soft tissues)

**Type IV:** Completely displaced fractures with multidirectional instability. This type was not described in the original Gartland classification and was added later on to account for the most unstable supracondylar humeral fractures in children. This is diagnosed intra-operatively.

## References

Hope, N., & Varacallo, M. (2023). *Supracondylar humerus fractures*. In *StatPearls*. Treasure Island, FL: StatPearls Publishing. Retrieved from <https://www.ncbi.nlm.nih.gov/books/NBK560933/>

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