Neer's Classification

This handout covers the original Neer's classification.

Components of the Neer classification

The Neer classification system is based on two primary factors: the number of fracture parts and the degree of displacement.

Fracture parts

The proximal humerus is divided into four anatomical parts:

1. Humeral head 2. Greater tuberosity 3. Lesser tuberosity 4. Humeral shaft

Displacement criteria

Displacement is assessed individually for each part. A fracture part is classified as displaced if it meets one of the following criteria:

- The angulation exceeds 45 degrees.
- The displacement is greater than 1 cm.

Classification categories

Neer's original classification consists of five main categories based on the number of displaced parts:

- 1. One-part fracture: No parts are displaced.
- 2. Two-part fracture: One part is displaced.
- 3. Three-part fracture: Two parts are displaced.
- 4. Four-part fracture: Three parts are displaced.

		2-part fracture	3-part fracture	4-part fracture	
Anatomical neck					Minimal displacement
Surgical neck					
Greater tuberosity					
Lesser tuberosity		e			
Fracture dislocation	Anterior				Articular surface
	Posterior				

References

Falaschi, P., & Marsh, D. (2020). Orthogeriatrics: The management of older patients with fragility fractures. Springer.

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