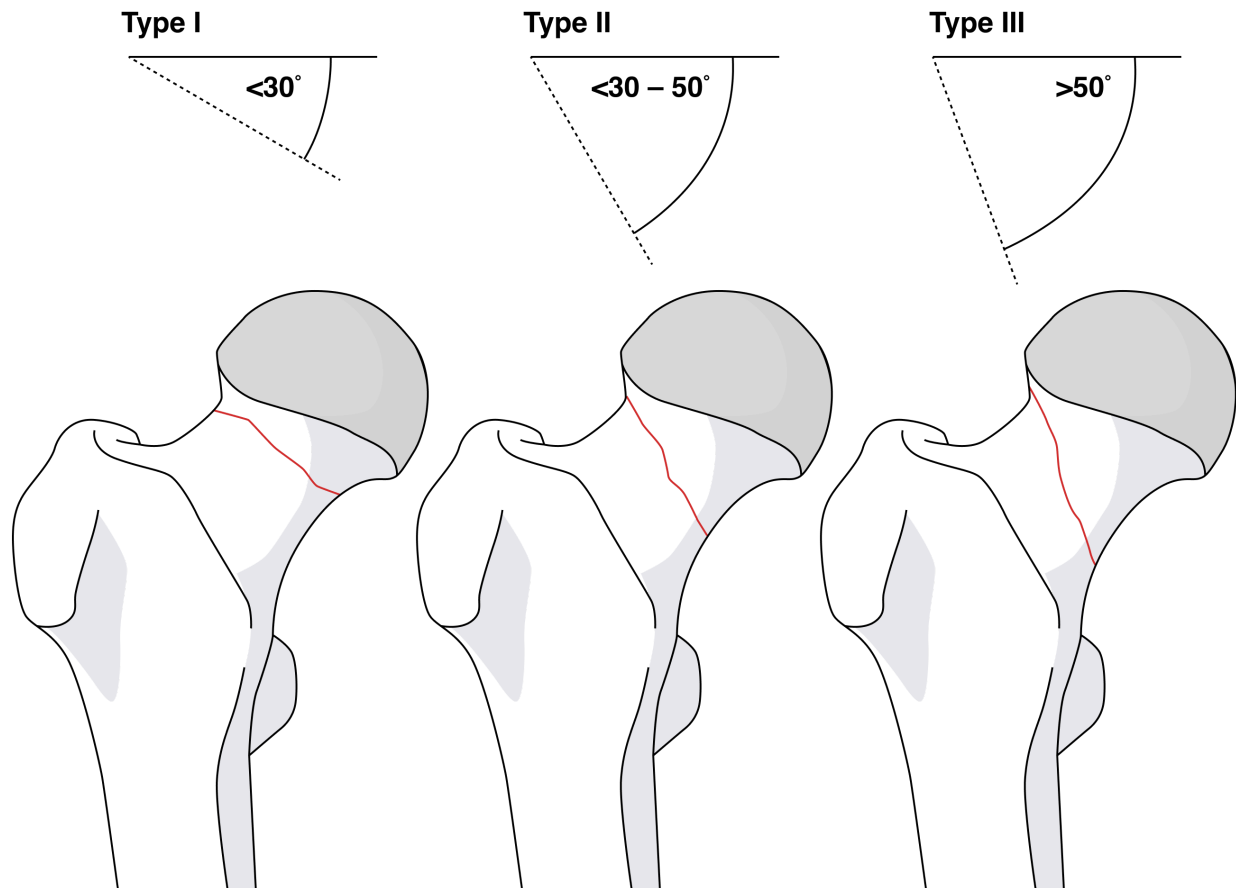


Pauwels' Classification

Pauwels' classification is a biomechanical system for categorizing femoral neck fractures based on the angle of the fracture line in relation to the horizontal plane.



- **Type I:** Fracture angle $< 30^\circ$ from horizontal. Compressive forces are dominant.
- **Type II:** Fracture angle $30^\circ - 50^\circ$ from horizontal. Shearing force occurs and may negatively affect bone healing.
- **Type III:** Fracture angle $> 50^\circ$ from horizontal. Shearing force is predominant along with significant varus force, more likely resulting in fracture displacement and varus collapse

References

- Apivatthakakul, T., & Oh, J.-K. (2024). *Impacted or nondisplaced subcapital femoral neck fractures*. AO Foundation Surgery Reference. <https://surgeryreference.aofoundation.org/orthopedic-trauma/adult-trauma/proximal-femur/femoral-neck-fracture-transcervical-simple-or-multifragmentary/definition#definition>
- Maffulli, N., & Aicale, R. (2022). Proximal femoral fractures in the elderly: A few things to know, and some to forget. *Medicina*, 58(10), 1314. <https://doi.org/10.3390/medicina58101314>