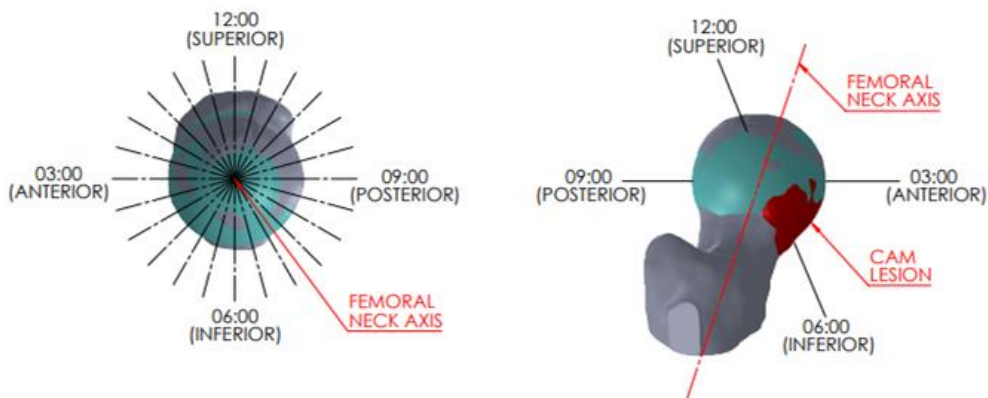
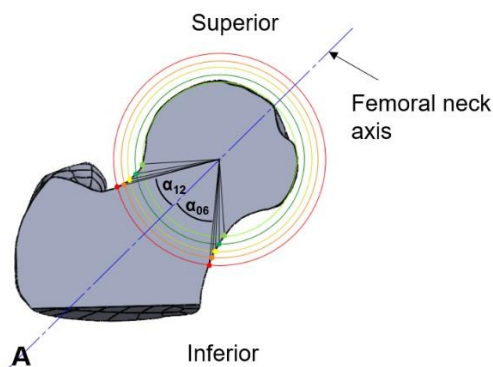


1) The orientation of the proximal femur with regards to the clock plot notation.

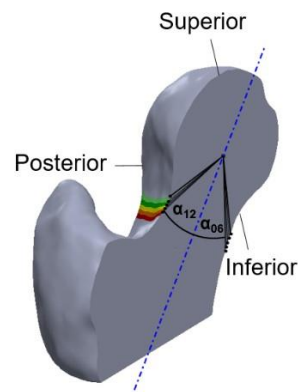


2) Alpha angles mapping the femoral head-neck junction for each subject were collected from 24 evenly spaced points about the femoral neck axis. The angles for the contours were collected at the points at which the contour spheres intersected the femoral head model:

Alpha Angle Collection (2D)
Proximal Femur Section View

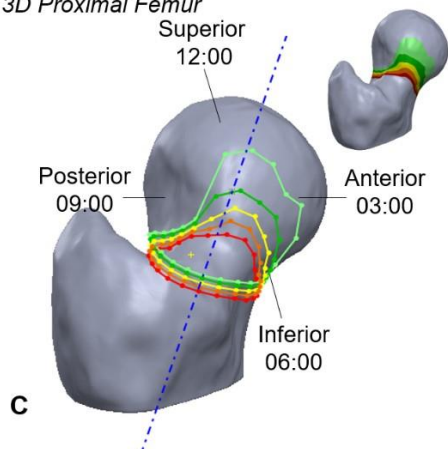


Alpha Angle Collection (3D)
Proximal Femur Section View

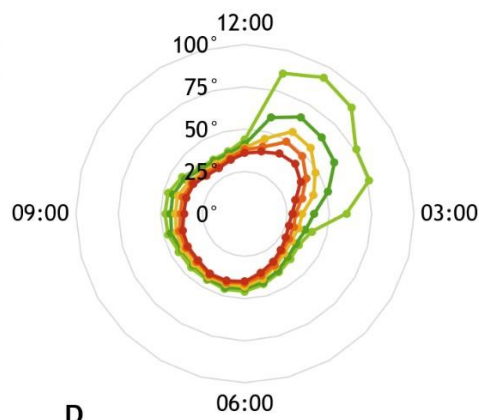


Contour Spheres: — +0.35mm — +1mm — +2mm — +3mm — +4mm

Femoral Head-Neck Junction Contour
3D Proximal Femur



Contour Plot



The clock plot is from a view looking directly up the femoral neck in a medial direction, with the centre point aligning with the femoral neck axis.