

SUPPLEMENTARY MATERIAL



Fig. a

Image showing an Accolade TMZF (Stryker Orthopedics, Mahwah, New Jersey) stem

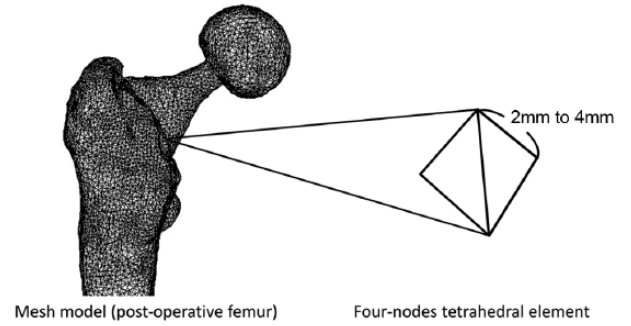


Fig. b

Illustration of the mesh models.

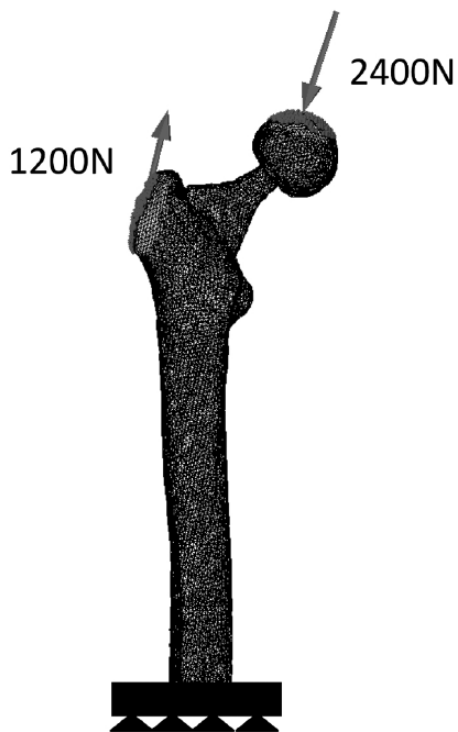


Fig. c

Loading and restriction conditions for finite element analysis. The simulation included two input forces, a joint reactive force (2400 N), applied to the femoral head or prosthetic head, and an abductor muscle force (1200 N) applied to the greater trochanter (1200 N). The distal end of the femur model was fixed in all directions.