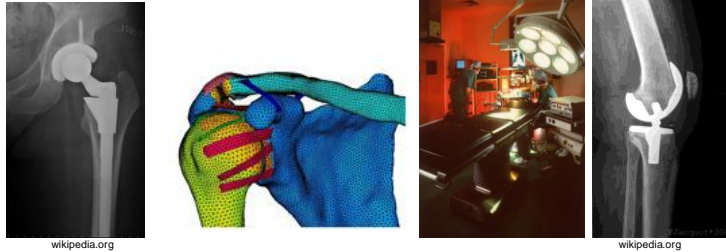


Excellence in Orthopaedic Device Testing



Comprehensive medical device testing services from MET include expert analysis of orthopaedic implants. Computer analysis includes FEA and bone remodelling studies. Physical evaluation is performed on rigid, soft and bio-absorbable implants. Our capabilities include strength and fatigue testing, wear analysis and degradation studies.

Package testing and ageing studies compliment joint replacement performance studies.

Orthopaedic Services

We offer medical device testing and evaluation services for new products requiring FDA approval or CE mark, including:

- Wear, durability & fatigue
- Particle generation (wear particle isolation & characterization, biological reactions)
- Functional, kinematic, static & dynamic studies
- Electron microscopic analysis (SEM, TEM)

Typical products tested include:

Bone substitute materials	Spinal disc replacements
Cartilage replacement materials	Shoulder replacements
Bearing surfaces	Finger joint replacements
Artificial ligaments	Hip replacements
	Knee replacements

Prosthetic Bone Remodelling

Computer assisted bone remodelling studies help prosthetic manufacturers target their product designs on particular clinical needs. Optimisation and remodelling analysis are available through MET combined with: clinical model development, FE analysis, bone density mapping, loading analysis and remodelling studies. All this leads to optimisation of geometric designs, surface features, porosity and all the details of the implant.