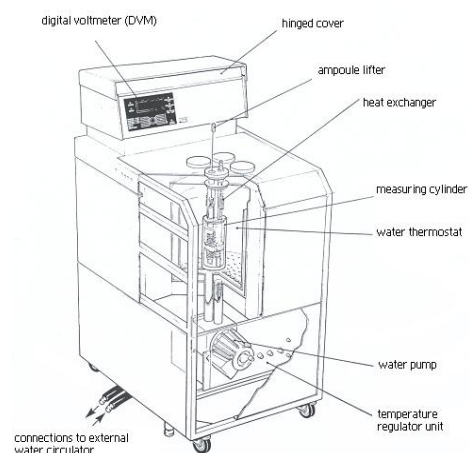
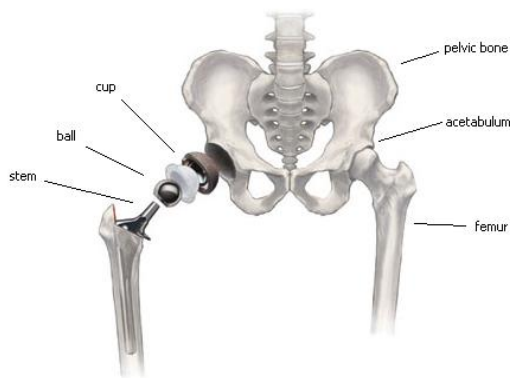


Project /PhD thesis

Microbiology/Biomedical engineering

Topic: Detection of microorganisms on orthopedic prostheses by use of sonication in combination with calorimetry



Project description: The two most common complications with orthopedic prostheses are aseptic loosening and infection. Differentiation between aseptic loosening and a low-grade infection is difficult. Cultures of periprosthetic tissues are time consuming and are sometimes false negative. In this project, the usefulness of calorimetry of sonicate-fluid of explanted orthopedic prostheses with respect to sensitivity and rapidity of the detection of microorganisms compared to conventional culture methods and cultures of sonicate-fluid is evaluated.

Type of work: experimental

Supervisor: G. Kampinga, H.C. van der Mei, H.J. Busscher

E-Mail: h.c.van.der.mei@med.umcg.nl

Website: www.bme-umcg.nl

