Objective clinical performance outcome of total knee prostheses. A study of mobile bearing knees using fluoroscopy, electromyography and roentgenstereophotogrammetry

Garling, E.H.

Propositions

Accompanying the thesis

‘Objective clinical performance outcome of total knee prostheses’

1. In despite to the limited axial rotation of the bearing, rotating platform total knee prostheses have excellent clinical results.

   This thesis

2. Compared to fixed bearing prostheses mobile bearing total knee prostheses are more demanding for soft tissue structures.

   This thesis

3. A porous surface with a calcium phosphate coating will benefit the survival of total knee prostheses.

   This thesis

4. Fluoroscopic analysis shows that external movement registration of the knee is unreliable.

   This thesis

5. The presence of Ti and Si particles in the CoCrMo metal compound of implants leads to increased wear and subsequently prosthesis loosening.

   This thesis

6. When evaluating the relevance and quality of a motion capture method, one should take into consideration - besides accuracy and precision - the fidelity of the evaluation to the natural conditions of activities of daily living.

   Andriacchi, 2007

7. Computer Aided Surgery (CAS) in orthopaedics is in medical practice Computer Added Surgery.

8. Clinical outcome is driven by statistics.

9. Total knee arthroplasty is a compromise to nature.

10. Climate change is just as unpredictable as the weather.

11. When performing calculations with rotation matrices, the only rotation that one can be sure of is your head goes spinning.

12. Science is a wonderful thing if one does not have to earn one’s living at it.

    Albert Einstein