

John Hur, MD

Research:

Hur J, Gotha H, Pellicci PM. The outcome of the cemented Synergy femoral component in total hip arthroplasty after a minimum five year follow-up. The results of one surgeon. Paper in progress.

Hur J, Coburn JC, Moore DC, Crisco JJ, Bliss JM, Limbird RS. Mechanical comparison of acetabular constructs in pelvic discontinuity. Comparative study assessing the initial stability at the pelvic discontinuity after fixation with various constructs (Burch-Schneider APC, GAP ring, Depuy ZTT II porous coated cup, with and without posterior reconstruction plate). Developed and evaluated a novel biomechanical technique using 3D motion detection to assessment displacement. Posters presented to the 2005 AAOS and ORS meetings.

Hur J, Banerjee R, Bliss JM, Froehlich J. Pelvic obliquity in lateral decubitus positioning in total hip arthroplasty. Prospective study assessing pelvic obliquity and version using intraoperative radiographs and final cup positioning using postoperative radiographs. Currently collecting patients.

Patel A, Hur J, Froehlich JA, Limbird RS. Sleeve-Stem Failure of Modular Femoral Components: Report of 2 cases and review of the literature.

Development of an orthopaedic computer module teaching bone and soft tissue tumors to residents and medical students.

Molecular biological analysis of the mechanism of erythropoietic protoporphyria; in collaboration with Dr. S. Piomelli, Division of Pediatric Hematology/Oncology, College of Physicians & Surgeons, New York, NY.

Development of purification methods for phospholipase A2 from snake venom; In collaboration with Dr. R. Langer, Department of Chemical Engineering, M.I.T., Cambridge, MA.

Shape Control of a Deformable Structure Using PMN Electrostrictive Actuators; in collaboration with Dr. N. Hagood, Department of Aeronautical and Astronautical Engineering, M.I.T., Cambridge, MA.

Design and development of hardware and electronics for a NASA-contracted developmental model of an active flexible truss structure for testing in the space shuttle; in collaboration with Dr. E.F. Crawley, Department of Aeronautical and Astronautical Engineering, M.I.T., Cambridge, MA.

