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Publications

A selection of recent peer reviewed publications by members of the group is given below:

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Aghayan S, Shepherd DET, Davis ET (2013). A biomechanical study of the Birmingham Mid Head Resection arthroplasty: effect of stem size on femoral neck fracture. Journal of Engineering in Medicine 227: 911 - 916.

Espino DM, Shepherd DET & Hukins DWL (2013). A simple method for contact modelling in an arbitrary frame of reference within multi-physics software. Journal of Mechanics 29: N9-N14.

Espino DM, Shepherd DET & Hukins DWL (2013). Development of a transient large strain contact method for biological heart valve simulations. Computer Methods in Biomechanics and Biomedical Engineering 16: 413-424.

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Moghadas P, Mahomed A, Hukins DWL & Shepherd DET (2013). Effect of lubricants on friction in laboratory tests of a total disc replacement device. Journal of Engineering in Medicine 227: 988-993.

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Patel PSD, Hukins DWL, Shepherd DET (2013). The effect of “toggling” on the pullout strength of bone screws in normal and osteoporotic bone models. The Open Mechanical Engineering Journal 7: 35-39.

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Lester LE, Bevins JW, Hughes C, Rai A, Whalley H, Arafa M, Shepherd DET & Hukins DWL (2012). Range of motion of the metacarpophalangeal joint in rheumatoid patients, with and without a flexible joint replacement prosthesis, compared with normal subjects. Clinical Biomechanics 27: 449–452.

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