Published Papers and Presentations

Papers and Articles

GAIT ASSESSMENT AS AN OUTCOME MEASURE IN TOTAL KNEE REPLACEMENT
J Rahman, Q Tang, M Monda, J Miles, I McCarthy
Submitted for Publication

ASSESSMENT OF HIP RANGE OF MOTION IN THE SAGITTAL PLANE POST TOTAL HIP ARTHROPLASTY USING A NOVEL SIX SENSOR INERTIAL MEASUREMENT UNIT SYSTEM
Doyle FJ, Timperley AJ, Hodgins D.
Poster at the British Hip Society Annual Meeting, March 2014

USE OF INERTIAL MEASUREMENT UNITS TO ASSESS AGE-RELATED CHANGES IN GAIT KINEMATICS IN AN ACTIVE POPULATION
M Monda, A Goldberg, P Smitham, M Thornton, I McCarthy

ANALYSIS OF KNEE FLEXION CHARACTERISTICS AND HOW THEY ALTER WITH THE ONSET OF KNEE OSTEOARTHRITIS: A CASE CONTROL STUDY
Diana Hodgins, Ian McCarthy, Amit Mor, Avi Elbaz, Ganit Segal,
BMC Musculoskeletal Disorders.2013, 14:169.

GAIT PROFILE – A BIOMETRIC THAT DEFINES OUR MOBILITY
Diana HODGINS, European Technology for Business Ltd
Handbook of Ambient Assisted Living J.C. Augusto et al. (Eds.) IOS Press, 2012 © 2012 The authors and IOS Press. All rights reserved. doi:10.3233/978-1-60750-837-3-?

GAITSMART – NEW TECHNOLOGY TO KEEP ATHLETES AVAILABLE FOR COMPETITION
This article describes a new sensor based gait monitoring system that can be used by sports physiotherapists to monitor injured players during training.
Published in Sportex, July 2012.

HOW AN ICT BASED SYSTEM TO MONITOR GAIT AND MAKE A DIFFERENCE IN ASIA
D Hodgins
Asian Healthcare 2012

INERTIAL SENSOR BASED KNEE FLEXION/EXTENSION ANGLE ESTIMATION
Glen Cooper, Ian Sheret, Louise McMillian, Konstantinos Siliverdis, Ning Sha, Diana Hodgins, Laurence Kenney, David Howard
Journal of Biomechanics, August 2009
MEASUREMENT OF KNEE JOINT ANGLE USING AN INERTIA MEASURING UNIT AND ITS USE CLINICALLY AS AN OUTCOME MEASURE
D Hodgins, S Kamalasekaran, G Evans
This was published by the London Knee Clinic at the IMechE Conference on Knee Arthroplasty: Early intervention to revision, May 2009.

Presentations

USING INFORMATION ON HOW A PERSON WALKS TO KEEP THEM HEALTHY AND ACTIVE
D Hodgins
IFA conference in Prague in June 2012.

KINEMATICS OF LOWER LIMB SEGMENT MOVEMENT DURING GAIT IN A HEALTHY POPULATION AGED 18 TO 97 USING INERTIAL MEASUREMENT UNITS
Oral presentation was given at the WCAA in Scotland in August 2012 by the Royal National Orthopaedic Hospital.

ANALYSIS OF HOW KNEE FLEXION CHARACTERISTICS CAN BE USED AS AN OUTCOME ASSESSMENT FOR KNEE OSTEOARTHRITIS
D Hodgins
Oral presentation at the EORC in Holland, September 2013 by ETB.

Gait Assessment as an Outcome Measure in Total Knee Replacement
J Rahman, Q Tang, M Monda, J Miles, I McCarthy
Oral presentation at the EORC in Holland, September 2013 by the Royal National Orthopaedic Hospital.