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Knee osteoarthritis – Early detection

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Knee osteoarthritis is the primary reason why people undergo a knee replacement. This is because there is currently no effective treatment, even if it is detected early. A major EU initiative, funded by IMI, has been set up to qualify methods for patient stratification and ultimately support the selection of patients for clinical trials with new disease modifying osteoarthritis drugs. One of the monitoring tools used to help classify patients is a new sensor based tool (Gait-Smart), which has already been shown to be an effective tool to detect early and late stage knee osteoarthritis. In addition a range of existing imaging techniques will be used. This paper will present the protocol to be used in the patient classification prior to treatment.

Biography

Diana Hodgins obtained her degree in Mechanical Engineering and her PhD in solid state gyroscopes from the University of Hertfordshire (UH). She has 30 patents granted, relating to solid state sensors. She is currently a Visiting Professor at the UH and helped to establish a new MEng course in Biomedical Engineering and in 2014 was awarded Alumni of the year at the UH. In 1995, she established her own business, ETB and in 2009 ETB launched their sensor based gait monitoring product, Gait-Smart. This is at present, a world leading product used in wide range of medical and sports applications including orthopedics.

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