# LifeLongJoints- Data Release 1

This release serves as the first set of data to be released from the LifeLongJoints (LLJ) dataset. More information on this dataset can be found at this <https://doi.org/10.5518/319>. In brief this data set was collected during a FP7 European Commission project called Lifelongjoints (<https://lifelongjoints.eu/>). 140 total hip replacement patients were recruited into the study and underwent 3D motion analysis whilst performing a series of activities of daily living.

The Data

This data release contains motion capture data for three total hip replacement patients performing up to seven different activities of daily living (ADLs). Data for the full total patient cohort (n=140) will be released periodically over the coming months/years.

The excel file included in the doi contains patient and surgical information, including height, weight, age, number of years post-surgery and detailing which ADLs were completed by the patients.

Data file

The data is in c3d binary file format used extensively in motion capture software and analysis (https://www.c3d.org/). The c3d file contains labelled marker trajectories and kinetic data collected through two AMTI force plates. More information on the data collection method and marker protocol can be found as an additional information file.

As part of the LLJ project, joint contact forces were calculated through AnyBody Modelling Technology. The model used to calculate and process this data can be found on the Zenodo data sharing repository.

Use of data

For access to more of this data or for more information please contact Dr David Lunn (d.lunn@leeds.ac.uk).