Sylvia Lawry Centre for Multiple Sclerosis Research, The Human Motion Institute

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Institution | Not-for-profit

Institution identification

Institution ID

47359

Institution countries

Germany

Type of institution

Not-for-profit

Institution website

https://humanmotioninstitute.de/

ENCePP partner

Yes

Institution description

The vision of the SLCMSR e.V. - Human Motion Institute is to improve human health by evidence-based decision support tools for diagnosis and treatment through a better understanding of the specific nature of human motion and its consequences for mind and body. The core of the institute is the development of an open collaborative technology platform for the mobile medical monitoring of human motion, in particular in extreme conditions such as during space flights, during pregnancy, in clinical trials or during a pandemic. This leads to a biomedical data warehouse for collecting, archiving, analysing, and disseminating human motion data, enriched with other biosiognals and clinical data, including a library of algorithms. Key underlying scientific areas of computational medicine are: mathematics, physics, biostatistics, biomedical engineering, computer science, and medical imaging. Key medical areas are: Neurological (degenerative diseases e. g. MS - with the Ian McDonald MS Database of the Sylvia Lawry Centre for MS Research, Parkinson’s disease) and other disabling diseases (Muscoskeletal disorders & Osteoporosis, CAD etc.) as well as obstetrics (data from fetal heart rate pattern enriched with maternal and fetal outcome data and risk factors). The institute benefits from strong academic ties with TUM-School of Computation, Information and Technology (https://www.professoren.tum.de/en/honorary-professors/d/daumer-martin) and the LMU (https://idw-online.de/de/news87757).

Institution details

Experience with collecting data directly from individual patients or respondents:

Yes

Interest in carrying out research that is funded by pharmaceutical companies:

Yes

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