UNIVERSITY OF LEEDS

Proposed Approach

Lack of a quantitative means to evaluate and diagnose conditions like fatigue and dementia using sensor tools, and reporting methods to personalise care of the elderly and chronically ill individuals in community and home environments.

We have a consortium who have developed the idea to combine multiple frameworks for assessing functioning in the ageing and frail populations, while quantifying these measures to identify better physiological measures for clinicians. This also includes policy makers and sensor technologists.

We are seeking collaborations with groups in Europe and worldwide to establish as a platform using our measures and new tools. Clinical teams and bioelectronics engineers would be appreciated, although we do have a team here too.

Organisational Capabilities

University of Leeds has an active EU group within the Research office

We are an academic group and part of the academic institution in the UK.
The major beneficiary of this project with be reducing clinical and patient time in institutions for checks and assessments.
Using homebased and community based systems to make assessments and interventions will personalise diagnosis and therapies

Experience

Am a systems neurophysiologist, who has established an ecosystem around our work with SMEs and collaborators cutting across disciplines and species. We have experience of conducting invasive animal studies and non-invasive methods to evaluate the same in people.

My previous experience of being a student in Cambridge (UK), working in Columbia (NYC) and from a top institution in India, has allowed my to be active with teams across the globe, in academia, NGOs and clinicians.
Working with NGOs and clinical teams in the Indian subcontinent focussed on movement dysfunctions, with a bias for Cerebral palsy, spinal cord injury and Parkinson's disease.
Working with Startups in EU, India and the UK
Actively involved as Advisor with multiple projects involving investor groups across the globe focussed on multiple medical and health issues.

Administrative Information

I am open to both possibilities – to partner would be preferred as I have no prior ERC experience.

Your contact details including:
Samit Chakrabarty – s.chakrabarty@leeds.ac.uk

Organisation's PIC 999975426

UNIVERSITY OF LEEDS

Proposed Approach

A serious lack of quantitative means to evaluate and diagnose conditions like fatigue and dementia using sensor tools, and reporting methods to personalise care of the elderly and chronically ill individuals in community and home environments. Thus affecting personalised care

We have a consortium (EU, UK, Taiwan, India) who have developed the idea to combine multiple frameworks for assessing functioning in the ageing and frail populations, while quantifying these measures to identify better physiological measures for clinicians. This also includes policy makers and sensor technologists.

We are seeking further collaborations with groups in Europe and worldwide to establish as a platform using our measures and new tools. Clinical teams and bioelectronics engineers would be appreciated, although we do have a team here too.

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UNIVERSITY OF LEEDS

Proposed Approach

A significant lack of a quantitative means to evaluate and diagnose neurological conditions like Parkinson's disease, Cerebral Palsy, stroke, fatigue and so forth by clinicians. Thus affecting personalised care

We have designed and developed 'digital twin' to replicate phenotypic change observed and used by clinicians to makes such evaluations, but our data is based on surface recordings using HD arrays that are flexible and can pick up single units (without any mathematical computations) and tendon activity. We also use physiological knowledge to establish these population models instead of being a purely mechanical model unlike most.

We are seeking collaborations with groups in Europe and worldwide to establish as a platform using our measures and new tools. Clinical teams and bioelectronics engineers would be appreciated, although we do have a team here too.

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