Disability, Activity, Aging, Autonomy and the Environment (HAVAE)

Clinical and environmental determinisms of loss of autonomy
Modelling the impact of domotic (automation) solutions and physical activity
Loss of autonomy:
- progressive related to aging and to polypathology
- and brutal related to acute pathology

Keywords:
- Disability
- Clinical Research
- Physical and Sports Activities
- Chronic Polypathology
- Aging
- Autonomy
- Rehabilitation
- New technology

2012
Autonomy breakdown is due to an imbalance between the activities that subjects should or would like to carry out (home assessment of the activity under ecological conditions) and their functional capacities (looking for person-specific functional frailty markers that impact activity).

Our project is unique as we assess subjects under real conditions in their homes with the aim of providing the most relevant solutions to prevent autonomy breakdown. If we refer to the International Classification on Functioning, Disability and Health (CIF, WHO 2003), our home-based intervention falls under environmental factors and participation, whereas very often studies only assess deficiency and activity aspects.

We address the issue by focusing on 2 complementary areas that interact with physical activity:

1st area: assessing the effects of physical activity on maintaining autonomy.
2nd area: assessing the effectiveness of information and communication technologies on helping individuals remain at home and on patients’ level of physical activity.

The different research work carried out in the two areas addresses the 3 following aspects:

- the respective place of person-specific functional frailty markers and impact on activity and involvement and research for new markers
- at-home assessment of the activity under ecological conditions
- implementing actions for the individual (that are directly related to the two aforementioned points).
KEY FIGURES
(at 1st January 2012)

Teacher-researchers: 7
Other researchers: 2
HDR (accredited to direct research): 4
Doctoral students (2011-2012): 6
Engineers, technicians: 3
Current national projects: 6

PARTNERSHIPS

Active National University Partnerships:
Universities of Saint Etienne, Poitiers, Avignon, Clermont, University of Technology of Troyes, Toulouse (Gérontopole – Toulouse Geriatrics Clinical Research Centre and Health). URC ECO APHP, University of Lyon 3

National Industrial Partnerships:
Link Care Service, SRET, Orange, Voluntis, Inoveo, SIRMAD

International Industrial Partnerships:
Société Legrand, Boston Life Lab

Partnerships with National Organizations and Institutions:
Autonom’Lab

Research Federations:
Federative Research Institute on Disability (FR 25)
GEIST (FR 3503)
SCIENTIFIC PRODUCTION OF RESEARCH TEAM
(2008-2011)

Website publication: hal-unilim.archives-ouvertes.fr/HAVAE
Articles: 34 in peer-reviewed journals
Book chapters: 3
Conference presentations: 47

Major publications and/or patents over the last 5 years


