

What explains you wear an activity tracker in a research project when you are 80 years and older?

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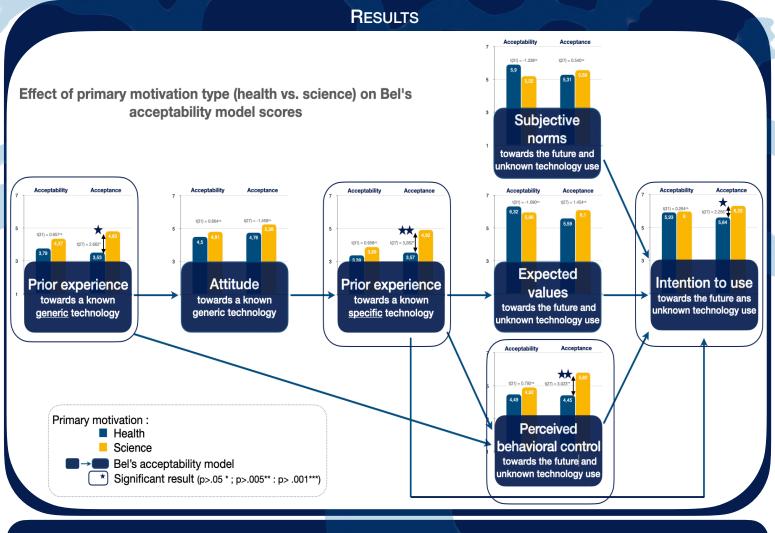


CONTEXT & OBJECTIVES

- To detect frailty in autonomous elderly people at an early stage, using a technological device consisting of various sensors and a tablet that recovers all collected data.
- To evaluate the *a priori* acceptability (M0), then the acceptance (M1) of the multimodal device.
 - To observe the influence of the participants' primary motivation on their intention to use the device before and after testing it.

METHODOLOGY

- 34 volunteers (20 robust, 14 pre-frail according to <u>Fried</u> (2001) criteria): Mean age = 84.6; min = 80; max = 93
- A priori acceptability (M0 N = 34) and acceptance (M1 - N = 28) measured from <u>Bel</u> (2016)'s acceptability model
- The primary motivation (health *vs.* science) collected during semi-structured interviews



- No score on the acceptability measure (M0) is affected by the type of primary motivation
- Significant influence of the type of primary motivation on acceptance (M1) in general
- High intention to use the device at M0 and M1, but participants who were committed to their health had a lower intention to use, after one month, than those who were committed to contribute to scientific research

Influence of octogenarians' motivation to participate in a study involving the wearing of an activity tracker. Identification of a potential cognitive bias of our participants, implying a risk of overestimating the validation of our hypotheses