A. PIAU, E. CAMPO, F. NOURHASHEMI. ***Multidimentional working and evaluation methodology for gerontechnology****. Gerontechnology 2016;15(suppl):56s*; doi:10.4017/gt.2016.15.s.655.00

Purpose A successful evaluation and development often remains unmet in publications. This deficiency arises to a large extent from the confrontation of two worlds: that of technology which is not yet well versed in the field of healthy aging intervention, and the medical world which mainly uses the linear pharmaceutical drug development model. Deployment of technological devices for health supposes a rigorous and global evaluation of consequences on individuals and society. There are no recommendations to define evaluation rules, no specific health norms, particularly in real life use[1]. A lack of early multidimensional reflexion during technology development often leads to irrelevant tools. Our purpose is to revisit the evaluation and development methods of technologies to support healthy aging. **Method** On the basis of multidisciplinary work we built a multidimensional working and evaluation methodology for technologies aiming to prevent autonomy loss[2]. We tested the proposed methodology through several concrete multidimensional health technologies projects. **Results & Discussion** We built a framework to help tackle the complexity of healthy aging technologies assessment and development. Our multidimensional evaluation methodology is successfully tested through several completed or ongoing[3] projects that have been funded and ratified by clinical research ethical committee. No matter the type of technology, its development stage, and the clinical application, our method was easily adaptable, flexible and scalable. The evaluation and development methods usually adopted for healthy aging technologies are not appropriate and that all the collaborative multidisciplinary processes have to be revised.

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