

POSTER

Health and Self-Esteem

S. FRENNERT. *Literature review: The current levels of understanding of interactive robotics. Gerontechnology 2018;17(Suppl):160s; <https://doi.org/10.4017/gt.2018.17.s.155.00>* **Purpose** The following paper introduces the literature covering several aspects of interactive robotics. Interactive robots are defined as any robot that is interacting in close proximity with people¹. This review examines past research and identifies a set of key areas where robotic applications have large and clear potential to meet society's needs. Robots need to be adopted and used if they are to have an impact on the general public's quality of life. This may seem obvious, but there are numerous examples of robotics that, while based on sound engineering, have limited uptake. The success of a robotics intervention depends on the interplay between numerous factors: characteristics; needs and preferences of the end-users; system characteristics and features; and societal factors including organizational, regional and national policies and stances. **Method** The methodology that guides the literature review is "realist review"². The content of the scientific articles is analyzed on the basis of interactive robotic interventions that have been implemented. We will look at what works for who and under what circumstances. **Results & Discussion** This paper's main conclusion is a set of key areas where robotic application's potential to meet society's needs are great and clear. It aims to help bridge interactive robotics literacy gaps and appropriately set expectations. The literature review reflects the true state of affairs and outlines the challenges and opportunities associated with interactive robotics adoption. The challenges inherent in interactive robotics will be carefully considered and ways to overcome them will be discussed.

References

1. INBOTS.eu
2. Pawson R, Greenhalgh T, Harvey G, Walshe K. Realist review: A new method of sytematic review designed for complex policy interventions. *J Behav Health Ser R.* 2005;10(1, Suppl. 1),21-34

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