Aging & Technology

Last reviewed March 2021

The Design of New Technology Supporting Wellbeing, Independence and Social Participation, for Older Adults Domiciled in Residential Homes and/or Assisted Living Communities

https://www.mdpi.com/2227-7080/6/1/18

This study sought to identify and validate the requirements for new technology supporting wellness, independence and social participation for older adults living in supportive housing. **(OPEN ACCESS)**

Technological Solutions for Older People with Alzheimer's Disease: Review

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6128069/

The aim of the paper is to provide an up-to-date summary of the use of technological solutions for improving health and safety for people with Alzheimer's disease. **(OPEN ACCESS)**

Digital Biomarkers for Alzheimer's Disease: The Mobile/Wearable Devices Opportunity

https://www.nature.com/articles/s41746-019-0084-2

The authors discuss the opportunities to utilize mobile and wearable devices to earlier identify signs of Alzheimer's disease. **(OPEN ACCESS)**

Innovative Assisted Living Tools, Remote Monitoring Technologies, Artificial Intelligence-Driven Solutions, and Robotic Systems for Aging Societies: Systematic Review

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6911231/

This systematic review identified advances in assistive technology devices for seniors and aging-in-place technology. It also described the level of evidence for research on remote patient monitoring, smart homes, telecare and artificially intelligent monitoring systems. **(OPEN ACCESS)**

A Review of Age Friendly Virtual Assistive Technologies and their Effect on Daily Living for Carers and Dependent Adults

https://www.mdpi.com/2227-9032/7/1/49

This review paper examines the age-friendly frameworks with respect to older adults who are carers for people with disabilities. An overview of state-of-the-art technologies is presented, followed by recommendations for expanding this work. **(OPEN ACCESS)**

Making Connections & Sharing Knowledge

Aging & Technology

A Systematic Review on Technology-Supported Interventions to Improve Old-Age Social Wellbeing: Loneliness, Social Isolation, and Connectedness

https://pubmed.ncbi.nlm.nih.gov/32765823/

This review studies technology-supported interventions to help older adults, living in situations of reduced mobility, overcome loneliness, and social isolation. **(OPEN ACCESS)**

Factors Influencing Seniors' Acceptance of Technology for Ageing in Place in the Post-Implementation Stage: A Literature Review

https://www.sciencedirect.com/science/article/pii/S1386505619302850

This review identifies factors that influence the acceptance of technology for aging in place by seniors, with a focus on acceptance in the post-implementation stage. **(OPEN ACCESS)**

Innovative and Assistive eHealth Technologies for Smart Therapeutic and Rehabilitation Outdoor Spaces for the Elderly Demographic

https://www.mdpi.com/2414-4088/4/4/76

This study presents a review of possible innovative and assistive eHealth technologies suitable for smart therapeutic and rehabilitation outdoor spaces for older persons. **(OPEN ACCESS)**

A Review of Internet use Among Older Adults

https://psycnet.apa.org/record/2018-49125-022

This review examines Internet use among older adults, including trends in access, skills, and types of use, while exploring social inequalities. It also discusses the relationship between health and Internet use, particularly relevant for older adults. **(PAID ACCESS)**

Digital Health Technology for Indigenous Older Adults: A Scoping Review

https://www.sciencedirect.com/science/article/abs/pii/S1386505621000344

This scoping review investigated existing telehealth solutions that have been implemented to serve Indigenous older adults. Results revealed various advantages and barriers for implementing such technologies in Indigenous communities. **(PAID ACCESS)**

Occupational Therapy and the Use of Technology on Older Adult Fall Prevention: A Scoping Review

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7830762/

This scoping review aimed to answer: what are the scope, type of studies, and approaches and strategies to fall risk using technology in the existing occupational therapy literature regarding interventions to address the effects of falls in older adults on daily living? **(OPEN ACCESS)**

Making Connections & Sharing Knowledge

Aging & Technology

Can Use of Digital Technologies by People with Dementia Improve Self-Management and Social Participation? A Systematic Review of Effect Studies

https://pubmed.ncbi.nlm.nih.gov/33562749/

The primary objective of this systematic review was to synthesize evidence of effectiveness of digital technologies used by people with dementia to improve self-management and social participation. **(OPEN ACCESS)**

Evaluation of Wearable Technology in Dementia: A Systematic Review and Meta-Analysis

https://www.frontiersin.org/articles/10.3389/fmed.2020.501104/full

This systematic review analyzed studies employing wearable technology in patients with dementia by quantifying differences in digitally captured physiological endpoints. **(OPEN ACCESS)**

Technologically-Enhanced Psychological Interventions for Older Adults: A Scoping Review

https://pubmed.ncbi.nlm.nih.gov/32498708/

The aims of this review were to describe the main technology-based interventions supporting seniors' quality of life or psychological well-being and to provide clarity to what is described in the literature as their effects on seniors' cognitive and psychological outcomes and healthcare policies. **(OPEN ACCESS)**

Making Connections & Sharing Knowledge