Housing - Building - Daily Living Home healthcare and home dwelling

T. KAMPEL, H. VERLOO. Technologies sustaining home healthcare services and homedwelling older adults to remain at home: An integrative review. Gerontechnology 2016;15(suppl):86s; doi:10.4017/gt.2016.15.s.707.00 Background The world's population is growing older with higher absolute numbers of older adults. The majority of older adults wish to live in their own homes, for as long as possible even when they need intensive healthcare 1.2. This creates a growing interest in technologies to enable older people to remain living independently at home. Healthcare providers and policy makers are exploring alternative ways to offer and to improve the quality of care of declining home-dwelling older adults³. Purpose This review assessed the state-of-the-art of the effectiveness and innovative development of technology employable in home healthcare services to maintain older adults to live secure in their own home. Method MeSH terms and keywords were employed in the following electronic scientific databases: Cinahl, Medline, Dare, Web of Science, Embase and Joanna Briggs Institute to search relevant literature for the period 1990-2015. A total of 128 publications were appraised after applying the inclusion/exclusion criteria. Finally, 48 publications revealed to be relevant. **Results & Discussion** Table 1 expose results obtained with this review. There is a majority of quantitative studies that have been conducted. Level of recommendations is mainly low. Telehealth devices and domotic systems have been the type of gerontechnologies mostly studied. Health outcomes have been seldom measured in the studies included for this review. Several classifications of gerontechnologies for home healthcare services were discovered. Beside the effectiveness to detect and manage healthcare problems, some studies assessed the acceptability of the technological devices for older adults and their healthcare providers. Older adults and healthcare providers are not opposed using technologies to assess and to manage healthcare situations. However, integration of new technologies in home healthcare practice requires special resources and competence to maximize their use among home dwelling older adults and their healthcare providers.

References

- Boldy D, Grenade L, Lewin G, Karol E, Burton E. Older people's decisions regarding 'ageing in place': A Western Australian case study. Australasian Journal on Ageing 2011;30(3):136-142; doi:10.1111/j.1741-6612.2010.00469.x
- Eckert JK, Morgan LA, Swamy N. Preferences for Receipt of Care Among Community-Dwelling Adults. Journal of Aging & Social Policy 2004;16(2):49-65
- 3. Henderson C, Knapp M, Fernández JL, Beecham J, Hirani SP, Beynon M, Cartwright M, Rixon L, Doll H, Bower P, Steventon A, Rogers A, Fitzpatrick R, Barlow J, Bardsley M, Newman SP. Costeffectiveness of telecare for people with social care needs: the Whole Systems Demonstrator cluster randomised trial. Age and ageing. 2014(43):704-800; doi:10.1093/ageing/afu067

Keywords: Integrated review, health, homecare.

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Table 1. of included papers; GRADE=Grading of Recommendations Assessment, Development and Evaluation: A=High level of evidence; B=Moderate/Low level of evidence; C=Very low level of evidence; AT=Assistive Technologies; ICT=Information and communication technologies; NBIC= Nanotechnology, Biology and medicine, Information sciences, and Cognitive Sciences

	Study device					Grade								Health outcome measures	
Content	Quantitative	Qualitative	Mixed	Literature review	Α	В	O	ΑТ	Domotic	TIC	NBIC	Robots	Yes	No	
Studies, #	18	26	1	3	0	9	39	11	18	24	0	4	10	38	