# **Report Supplementary Material 3** Health Economic Evaluation

Excluded studies in pragmatic review of economic evaluations

Ineligible interventions

Walters K, Frost R, Kharicha K, Avgerinou C, Gardner B, Ricciardi F, et al. Home-based health promotion for older people with mild frailty: the HomeHealth intervention development and feasibility RCT. Health Technology Assessment (Winchester, England) 2017;21(73):1-128. [http://dx.doi.org/https://dx.doi.org/10.3310/hta21730](http://dx.doi.org/https%3A//dx.doi.org/10.3310/hta21730)

de Vries NM, van Ravensberg CD, Hobbelen JS, van der Wees PJ, Olde Rikkert MG, Staal JB, et al. The Coach2Move Approach: Development and Acceptability of an Individually Tailored Physical Therapy Strategy to Increase Activity Levels in Older Adults With Mobility Problems. Journal of Geriatric Physical Therapy 2015;38(4):169-82. [http://dx.doi.org/https://dx.doi.org/10.1519/JPT.0000000000000038](http://dx.doi.org/https%3A//dx.doi.org/10.1519/JPT.0000000000000038)

Fairhall N, Sherrington C, Kurrle SE, Lord SR, Lockwood K, Howard K, et al. Economic evaluation of a multifactorial, interdisciplinary intervention versus usual care to reduce frailty in frail older people. Journal of the American Medical Directors Association 2015;16(1):41-8. [http://dx.doi.org/https://dx.doi.org/10.1016/j.jamda.2014.07.006](http://dx.doi.org/https%3A//dx.doi.org/10.1016/j.jamda.2014.07.006)

de Vries NM, Staal JB, van der Wees PJ, Adang EMM, Akkermans R, Olde Rikkert MGM, et al. Patient-centred physical therapy is (cost-) effective in increasing physical activity and reducing frailty in older adults with mobility problems: a randomized controlled trial with 6 months follow-up. Journal of Cachexia, Sarcopenia and Muscle 2016;7(4):422-35. <http://dx.doi.org/10.1002/jcsm.12091>

Forster A, Airlie J, Birch K, Cicero R, Cundill B, Ellwood A, et al. Research Exploring Physical Activity in Care Homes (REACH): study protocol for a randomised controlled trial. Trials [Electronic Resource] 2017;18(1):182. http://dx.doi.org/https://dx.doi.org/10.1186/s13063-017-1921-8

Ineligible outcomes

Buchner DM, Cress ME, de Lateur BJ, Esselman PC, Margherita AJ, Price R, et al. The effect of strength and endurance training on gait, balance, fall risk, and health services use in community-living older adults. Journals of Gerontology Series A-Biological Sciences & Medical Sciences 1997;52(4):M218-24.

Travers J, Romero-Ortuno R, Bailey J, Cooney MT. Delaying and reversing frailty: a systematic review of primary care interventions. British Journal of General Practice 2019;69(678):e61-e9. [http://dx.doi.org/https://dx.doi.org/10.3399/bjgp18X700241](http://dx.doi.org/https%3A//dx.doi.org/10.3399/bjgp18X700241)

Dangour AD, Albala C, Allen E, Grundy E, Walker DG, Aedo C, et al. Effect of a nutrition supplement and physical activity program on pneumonia and walking capacity in Chilean older people: a factorial cluster randomized trial. PLoS Med 2011;8(4):e1001023. <http://dx.doi.org/10.1371/journal.pmed.1001023>

Ineligible population

Timonen L, Rantanen T, Makinen E, Timonen TE, Tormakangas T, Sulkava R. Cost analysis of an exercise program for older women with respect to social welfare and healthcare costs: a pilot study. Scandinavian Journal of Medicine & Science in Sports 2008;18(6):783-9. http://dx.doi.org/https://dx.doi.org/10.1111/j.1600-0838.2007.00752.x

Protocol only

Landi F, Cesari M, Calvani R, Cherubini A, Di Bari M, Bejuit R, et al. The "Sarcopenia and Physical fRailty IN older people: multi-componenT Treatment strategies" (SPRINTT) randomized controlled trial: design and methods. Aging-Clinical & Experimental Research 2017;29(1):89-100. [http://dx.doi.org/https://dx.doi.org/10.1007/s40520-016-0715-2](http://dx.doi.org/https%3A//dx.doi.org/10.1007/s40520-016-0715-2)

Morgan GS, Haase AM, Campbell R, Ben-Shlomo Y. Physical ACtivity facilitation for Elders (PACE): study protocol for a randomised controlled trial. Trials [Electronic Resource] 2015;16:91. [http://dx.doi.org/https://dx.doi.org/10.1186/s13063-015-0610-8](http://dx.doi.org/https%3A//dx.doi.org/10.1186/s13063-015-0610-8)

van Dongen EJI, Haveman-Nies A, Wezenbeek NLW, Dorhout BG, Doets EL, de Groot L. Effect, process, and economic evaluation of a combined resistance exercise and diet intervention (ProMuscle in Practice) for community-dwelling older adults: design and methods of a randomised controlled trial. BMC Public Health 2018;18(1):877. [http://dx.doi.org/https://dx.doi.org/10.1186/s12889-018-5788-8](http://dx.doi.org/https%3A//dx.doi.org/10.1186/s12889-018-5788-8)

Dangour AD, Albala C, Aedo C, Elbourne D, Grundy E, Walker D, et al. A factorial-design cluster randomised controlled trial investigating the cost-effectiveness of a nutrition supplement and an exercise programme on pneumonia incidence, walking capacity and body mass index in older people living in Santiago, Chile: the CENEX study protocol. Nutrition Journal 2007;6:14.

Gine-Garriga M, Coll-Planas L, Guerra M, Domingo A, Roque M, Caserotti P, et al. The SITLESS project: exercise referral schemes enhanced by self-management strategies to battle sedentary behaviour in older adults: study protocol for a randomised controlled trial. Trials [Electronic Resource] 2017;18(1):221. [http://dx.doi.org/https://dx.doi.org/10.1186/s13063-017-1956-x](http://dx.doi.org/https%3A//dx.doi.org/10.1186/s13063-017-1956-x)

Deidda M, Coll-Planas L, Gine-Garriga M, Guerra-Balic M, Roque IFM, Tully MA, et al. Cost-effectiveness of exercise referral schemes enhanced by self-management strategies to battle sedentary behaviour in older adults: protocol for an economic evaluation alongside the SITLESS three-armed pragmatic randomised controlled trial. BMJ Open 2018;8(10):e022266. [http://dx.doi.org/https://dx.doi.org/10.1136/bmjopen-2018-022266](http://dx.doi.org/https%3A//dx.doi.org/10.1136/bmjopen-2018-022266)

Barrett E, Gillespie P, Newell J, Casey D. Feasibility of a physical activity programme embedded into the daily lives of older adults living in nursing homes: protocol for a randomised controlled pilot feasibility study. Trials [Electronic Resource] 2018;19(1):461. [http://dx.doi.org/https://dx.doi.org/10.1186/s13063-018-2848-4](http://dx.doi.org/https%3A//dx.doi.org/10.1186/s13063-018-2848-4)

Teh R, Kerse N, Waters DL, Hale L, Pillai A, Leilua E, et al. Study protocol of a randomised controlled trial to examine the impact of a complex intervention in pre-frail older adults. Aging-Clinical & Experimental Research 2019;31(10):1407-17. [http://dx.doi.org/https://dx.doi.org/10.1007/s40520-018-1106-7](http://dx.doi.org/https%3A//dx.doi.org/10.1007/s40520-018-1106-7)

Liu-Ambrose T, Davis JC, Hsu CL, Gomez C, Vertes K, Marra C, et al. Action seniors! - secondary falls prevention in community-dwelling senior fallers: study protocol for a randomized controlled trial. Trials [Electronic Resource] 2015;16:144. http://dx.doi.org/https://dx.doi.org/10.1186/s13063-015-0648-7