Outdoor environments at residential care facilities

Needs, wishes, and access for older adults and care workers

Akademisk avhandling

som för avläggande av filosofie doktorsexamen vid Sahlgrenska akademin, Göteborgs universitet och teknologie doktorsexamen vid Arkitektur och samhällsbyggnadsteknik, Chalmers tekniska högskola kommer att offentligen försvaras i hörsal Arvid Carlsson, Academicum, Medicinaregatan 3, Göteborg, den 13 juni, klockan 13.00

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Avhandlingen baseras på följande delarbeten

- I. Liljegren, M., Bengtsson, A., Lindahl, G. & Wijk, H. (2024). Older adults' needs and wishes for contact with the outdoors at residential care facilities: Implications for theory and practice. *Health Environments Research & Design Journal*, 17(4), 132-149.
- II. Liljegren, M., Bengtsson, A., Lindahl, G. & Wijk, H. (2024). Introducing the outdoor environment as an arena for person-centered care and rehabilitation at residential care facilities for older adults—a care worker's perspective. *Journal of Aging and Environment*, 1–17.
- III. Liljegren, M., Bengtsson, A., Lindahl, G. & Wijk, H. Developing a matrix and manual for mapping access to outdoor environments for older adults and care workers at residential care facilities. Submitted to journal.
- IV. Liljegren, M., Bengtsson, A., Lindahl, G. & Wijk, H. Lack of access to outdoor environments as part of everyday life at residential care facilities. Submitted to journal.





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Abstract

Introduction: Research studies have shown that contact with nature and outdoor stays can improve health, especially for older adults and care workers. However, statistics from the Swedish National Board of Health and Welfare, 2024, reveal that 80% of the Swedish residential care facilities (RCFs) lack supportive conditions for movement to and within outdoor environments, and 92% of operators lack routines for outdoor interventions. The overall aim of this thesis is to increase knowledge concerning needs and wishes of older adults and care workers in contact with the outdoor environments at Swedish RCFs and the access to these environments at a national level.

Methods: Study I is based on individual walking interviews with twelve older adults from three RCFs to explore their needs and wishes regarding outdoor environments. In Study II, focus group walking interviews with eleven care workers at the same three RCFs as in study I, were used to explore their reflections on using outdoor environments for person-centred care and rehabilitation. Study III developed a matrix and manual to map access to outdoor environments, and in Study IV, the matrix and manual were used to map the access across all Swedish RCFs, approximately 2,000.

Results: The older adults expressed needs and wishes for outdoor environments at RCFs to be a part of their everyday lives. Care workers saw the potential of these environments as arenas for person-centred care and rehabilitation. A matrix, which included 26 variables, and a manual were developed to map access to outdoor environments. The national mapping revealed limited access to outdoor environments, such as balconies, patios, own gardens, and squares. Furthermore, lack of, and variations in, access were found to be related to geographic location, growing zones, and differences between public and private operators.

Conclusion: Both older adults and care workers see the value of using outdoor environments as everyday environments and arenas for person-centred care and rehabilitation, recognizing their positive impact on health. However, at national level, access to these environments is limited. The results can be used as support in improving public health among Sweden's oldest population and care workers at RCFs.

Keywords: access, care worker, health-promoting, multi-methods, need, older adult, outdoor environment, person-centred care and rehabilitation, residential care facility

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