Development and evaluation of risk assessment and interventions promoting safe patient manual handling in the Swedish healthcare sector – Strategies to prevent Musculoskeletal Disorders

> Charlotte Wåhlin Associate professor, ergonomist Linköpings University Hospital, Region Östergötland Occuaptional and Environmental Medicine Linköping University, Sweden



Occupational and Environmental Medicin

- Investigations of patients, analyzing work exposure and occupational injuries
- Collaboration for improvement of the work environment, promoting Occupational Safety and Health
- Teaching and research projects



Patient and Workers Safety study (PAWSS)

- The overall goal with the research project PAWSS is to promote health and safety in the healthcare environment for both caregivers and patients.
- Our main focus now is the development process of a strategy that will be used to promote safe patient manual handling in healthcare and care homes



Collaboration



- A multiprofessional research team
- Collaborate with relevant partners outside the research community
- Stakeholders are involved in a reference group; union, employers, HR strategist, The Swedish Work environment authorities, The Swedish Association of Local Authorities and Regions
- Research funding during 2021-2023 by AFA försäkring

Research on injuries in healthcare

- Patient and healthcare workers incidents, injuries and situations at the workplace were they occurred during 4 years (Wåhlin et al. 2020).
- Health care workers' experiences of workplace incidents that posed a risk of patient and worker injury: A critical incident technique analysis (Nilsing Strid et al. 2021).
- Patient manual handling /patient transfers, is a situations where risk and injuries occurs, especially musculoskeletal disorders among caregivers





A systematic review

- A systematic review on work interventions with the aim to promote safe patient manual handling in healthcare and social care
- Published between 1997-2018
- 10 randomized controlled trials + 19 cohort studies with a control group
- With variety of health related outcomes
- A swedish report published by Swedish Work Environment Authority, 2019

To promote safe patient manual handling



- Give healthcare workers access to suitable work equipment and
- Train them to use work equipment
- Train peer coaches in safe patient manual handling
- Appoint work groups and peer coaches with responsibility for safe patient manual handling.
- Develop a plan for implementation with a participatory approach, involving management engagement and collaboration with workers

The development process of a strategy promoting safe patient manual handling



We are taking in consideration that:

- In Swedish healthcare setting, there is a lack of higher quality research focusing on methods for risk assessments and interventions promoting safe patient manual handling => research is needed
- Risk assessments are not being used systematically even though it is essential for successful prevention

Intervention strategy

Based on research and in collaboration with stakeholders Education

E-learning and, manual handling training

Guideline Safe patient manual handling

Risk assessment patient mobility and health Falls Work

equipment

The Swedish context Systematic work environment Regulations legislation policies



Implementation

- The intervention strategy will be implemented in hospital wards in care homes, in south east of Sweden
- All participating units will get feedback from a work environment evaluation using Structured Multidisciplinary Work Evaluation Tool
- Our studies will evaluate perceived usefulness of the strategy for safe patient manual handling, adherence to using the strategy
- Quantitative and qualative methods

Reserach team 2021-2023



Welcome to contact: charlotte.wahlin@regionostergotland.se

sebastian.buck@regionostergotland.se







Sebastian Buck



Jan Sandqvist



Emma Nilsing Strid

LINKÖPINGS UNIVERSITET







Paul Enthoven



Jenni Fock



Maria Andreassen

