

The impact of pressure ulcer prevention education on health care assistants' knowledge and skills and pressure ulcer incidence in long-term care settings

O'Brien N¹, Moore Z¹, Avsar P¹, Nugent L¹, Budri A¹, O'Connor T¹.

¹Skin Wounds and Trauma (SWaT) Research Centre, School of Nursing & Midwifery, Royal College of Surgeons in Ireland, University of Medicine and Health Sciences, Dublin, IE;

1. Introduction

- Older adult patients are susceptible to pressure ulcers due to the presence of co-morbidities and reduced mobility¹.
- Health care assistants represent most of the workforce in long-term care settings and play a significant role in pressure ulcer prevention².

2. Review Question

- What is the impact of pressure ulcer education on health care assistants' knowledge and skills?

3. Methods

- We used the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines to guide the conduct and reporting of the review.
- Five databases were searched in November 2021.
- Quality appraisal was undertaken using the Evidence-based Librarianship checklist (Glynn, 2006).
- Data was analysed narratively and using meta-analysis.

4. Results

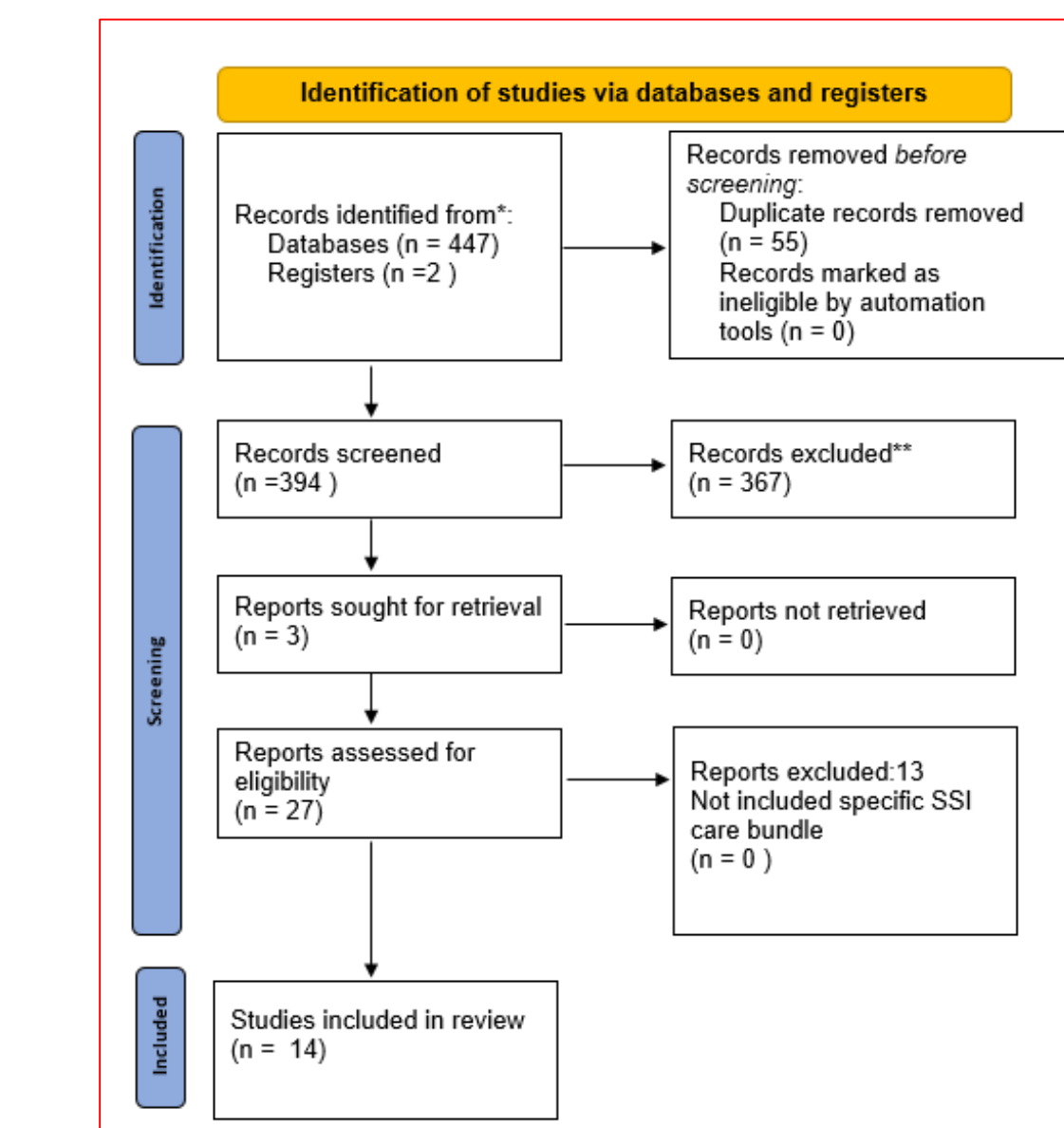
- 14 studies met the inclusion criteria.
- 6 different types of educational interventions were used.
- Four studies found an improvement in mean knowledge scores in favour of the education intervention group (MD: 5.73 (95% CI: 1.38-10.08; $p=0.010$).
- In 5 studies pressure ulcer prevalence was 7% pre-education and 4% post-education (OR: 1.69, 95% CI: 1.12-2.54; $p=0.01$).
- In 7 studies pressure ulcer incidence was 9% pre-education and 4% post-education (OR: 2.20, 95% CI: 1.50-3.22; $p=0.0001$).

Key Messages

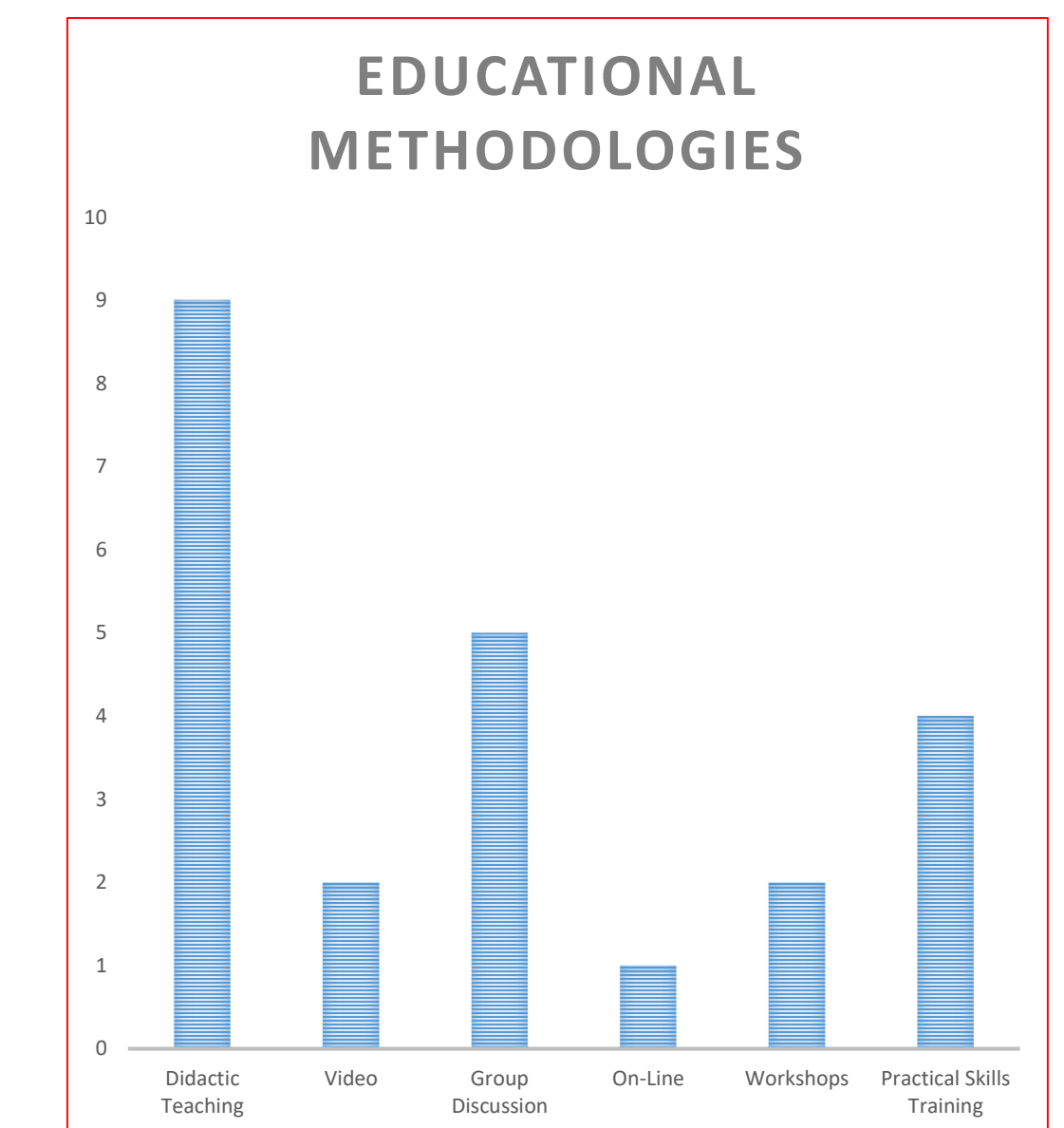
Educating health care assistants positively influences knowledge & practice in pressure ulcer prevention.

Health care assistants are essential & need education to develop their knowledge & skills in pressure ulcer prevention.

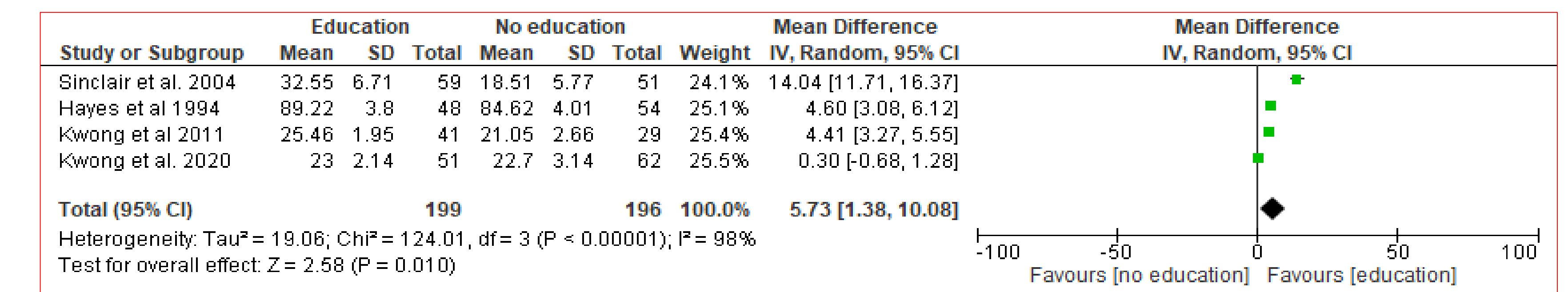
PRISMA Flow Chart



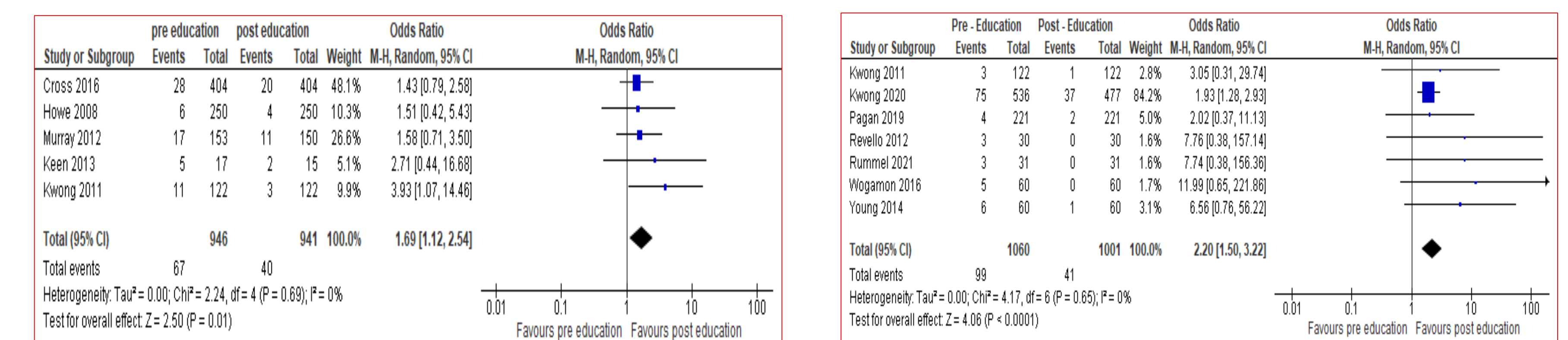
Educational Approaches



Forest Plot: Mean difference in knowledge scores



Forest Plots: OR of PU Development: A: Prevalence; B: Incidence



References

- Moda Vitoriano Budri, A., Moore, Z., Patton, D., O'Connor, T., Nugent, L., Mc Cann, A. and Avsar, P. (2020). Impaired mobility and pressure ulcer development in older adults: excess movement and too little movement – two sides of the one coin? *Journal of Clinical Nursing*, 29(15-16): 2927-44. doi: 10.1111/jocn.15316.
- Kessler, I., Heron, P., Dopson, S., Magee, H., Swain, D & Askham, J. (2010) The Nature and Consequences of Support Workers in a Hospital Setting University of Oxford, National Institute for Health Research, UK.