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# Student nurses' perceptions of three e-learning modules focused on enhancing their ability to work with older people

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- Dr. Kathleen Hunter
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- Study participants

SSHRC  CRSH

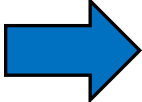
Social Sciences and Humanities Research Council of Canada  
Conseil de recherches en sciences humaines du Canada



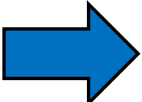
# Background



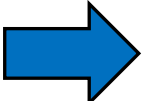
Increase in ageing population<sup>1</sup>



Nurses are key health care providers<sup>2,3</sup>



Increasing demands for nursing care of the older adults<sup>2,4</sup>



↔ Attitudes, Misconceptions<sup>1,5</sup>



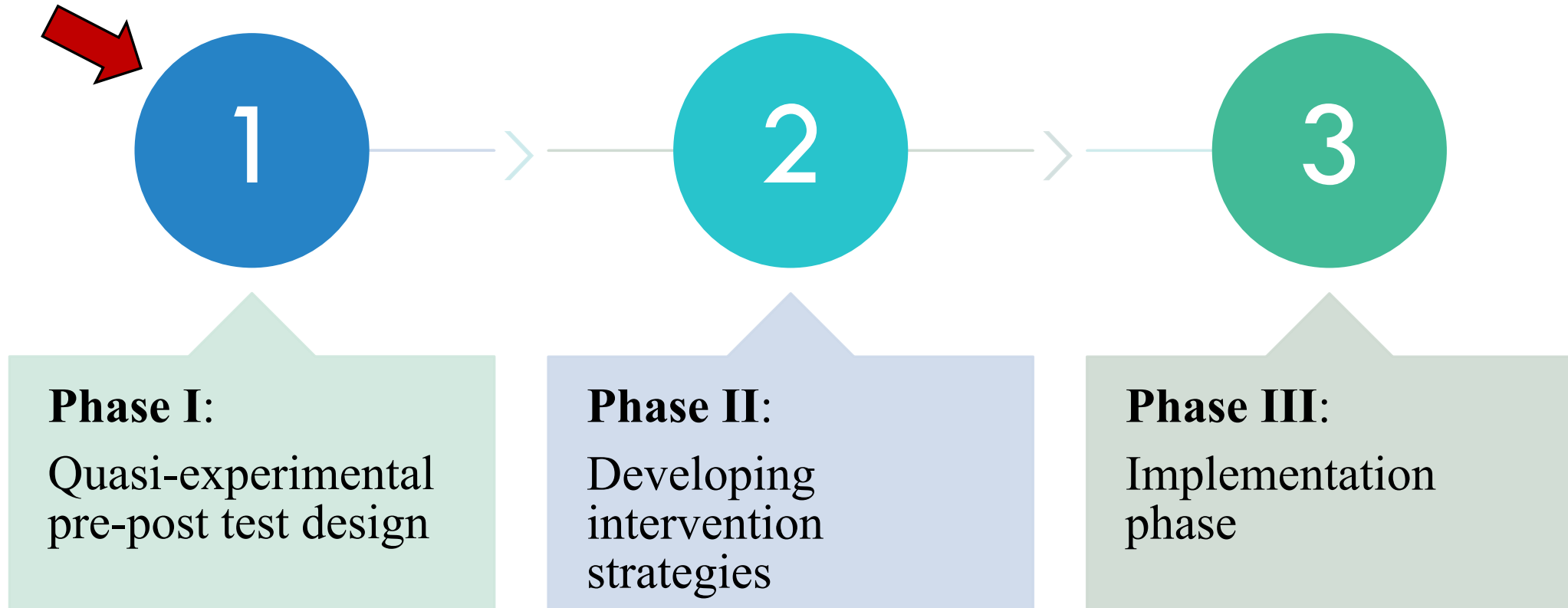
↑ Preferences<sup>3</sup>



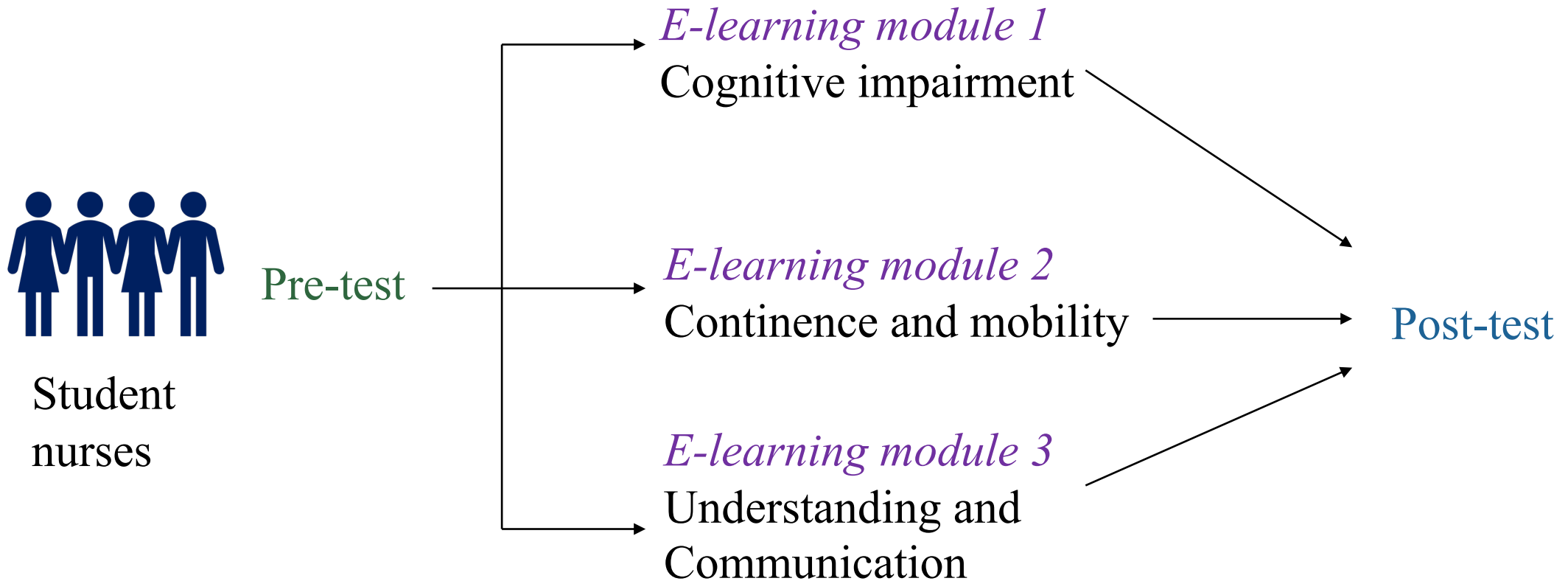
↑ Knowledge & skills<sup>3,5,6,8</sup>

# Awakening Canadians to Ageism Project

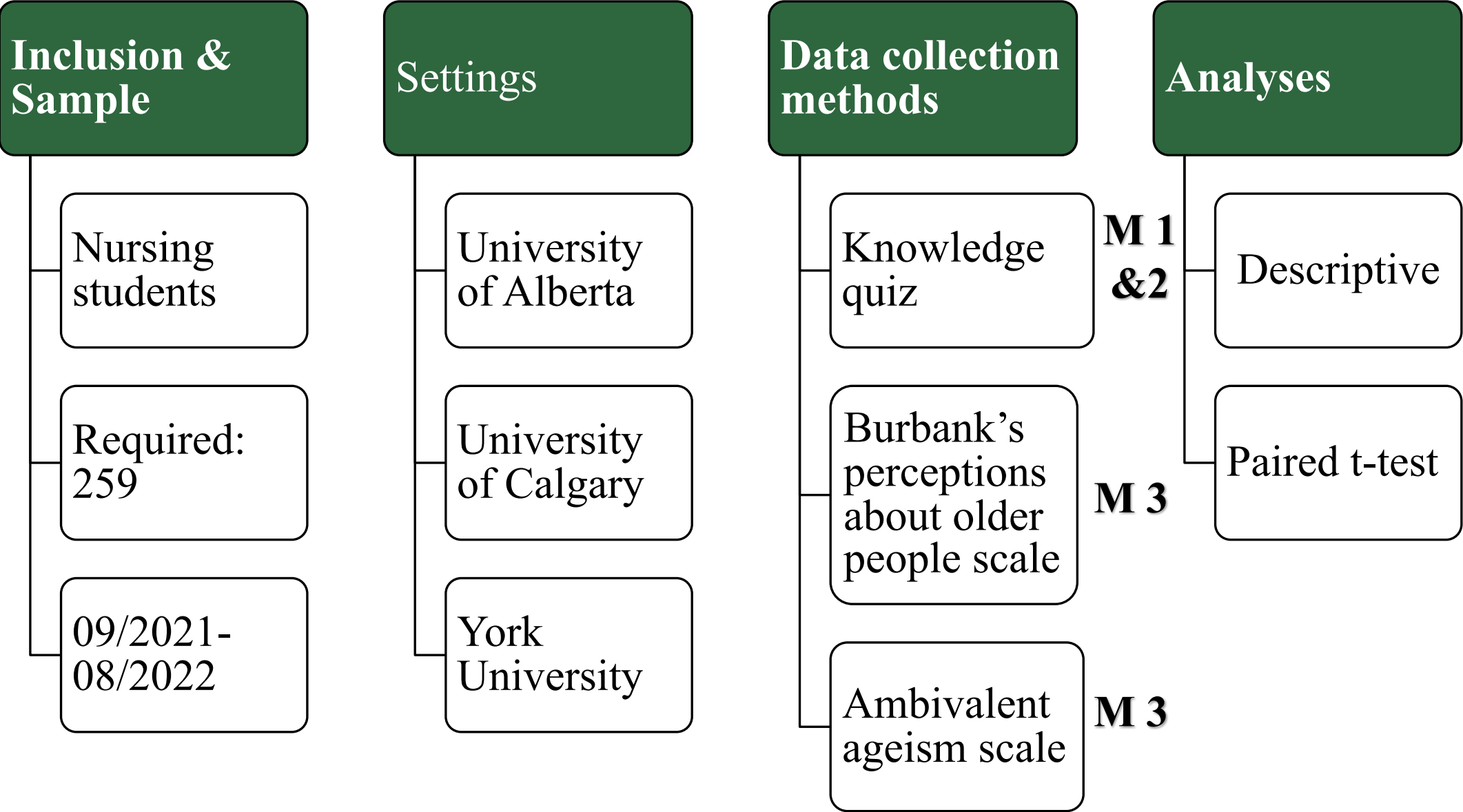
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# Phase I: Quasi-experimental pre post-test design



# Design & Methods



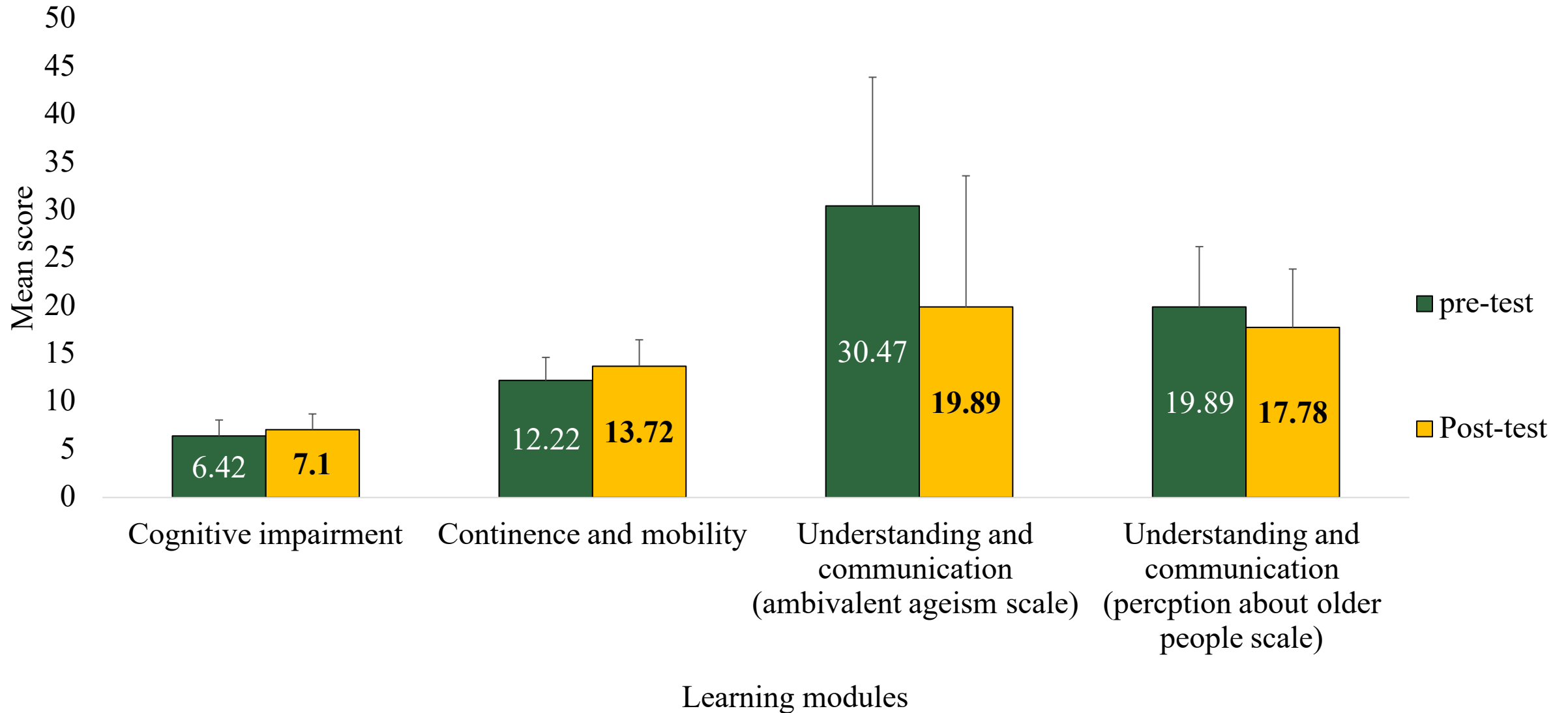
# Findings

**Table 1 Demographics**

| <b>Variables</b>      | <b>Cognitive impairment</b> | <b>Continenence &amp; Mobility</b> | <b>Understanding &amp; Communication</b> |
|-----------------------|-----------------------------|------------------------------------|--|
| <b>Total</b>          | 299                         | 304                                | 313                                      |
| <b>Age (mean, SD)</b> | 23.3 (4.6)                  | 23.6 (5.0)                         | 23.6 (4.8)                               |
| <b>Gender (n, %)</b>  |                             |                                    |  |
| <b>Female</b>         | 236 (78.9%)                 | 240 (78.9%)                        | 247 (78.9%)                              |
| <b>Male</b>           | 59 (19.7%)                  | 60 (19.7%)                         | 62 (19.8%)                               |
| <b>Others</b>         | 4 (1.3%)                    | 4 (1.3%)                           | 4 (1.3%)                                 |

# Findings (Cont....)

## Total correct reponses given by respondents





## Findings (cont....)

**Table 2 Pre-post comparisons for all the modules using paired t-test**

| <b>Module/scale</b> | <b>Estimate</b> | <b>95% CI</b>  | <b>P-value</b> |
|---------------------|-----------------|----------------|----------------|
| CI                  | 0.68            | (0.48, 0.88)   | <0.001         |
| CM                  | 1.51            | (1.22, 1.79)   | <0.001         |
| UC (AAS)            | -4.77           | (-5.76, -3.78) | <0.001         |
| UC (PCOP)           | -2.12           | (-2.60, -1.63) | <0.001         |

# Conclusion

For the CI and CM modules:

Small-to-moderate improvements in knowledge

For UC modules

Small decreases in ageist attitudes

Overall, between the pre and post surveys

Statistically significant changes in total scores

# References

1. Abudu-Birresborn D, McCleary L, Puts M, Yakong V, Cranley L. Preparing Nurses and Nursing Students to Care for Older Adults in Lower and Middle-Income Countries. A Scoping Review. *Int J Nurs Stud* [Internet]. 2019;92:121–34. Available from: <https://doi.org/10.1016/j.ijnurstu.2019.01.018>
2. King BJ, Roberts TJ, Bowers BJ. Nursing student attitudes toward and preferences for working with older adults. *Gerontol Geriatr Med*. 2013;34(3):272–91.
3. Dahlke S, Davidson S, Kalogirou MR, Swoboda NL, Hunter KF, Fox MT, et al. Nursing faculty and students' perspectives of how students learn to work with older people. *Nurse Educ Today* [Internet]. 2020;93(June):104537. Available from: <https://doi.org/10.1016/j.nedt.2020.104537>
4. Kalogirou MR, Dahlke S, Davidson S, Hunter KF, Pollard C, Salyers V, et al. Working with older people: Beginning or end of a nurse's career? *Int J Older People Nurs*. 2021;16(6):1–9.
5. World Health Organization. Global report on ageism [Internet]. Geneva; 2021. Available from: <https://www.who.int/teams/social-determinants-of-health/demographic-change-and-healthy-ageing/combating-ageism/global-report-on-ageism>
6. Dukes C, Dahlke S, Pietrosanu M, Kalogirou MR. Improving student nurses' perspectives towards older people with an e-learning activity: A quasi-experimental pre-post design. *Int J Older People Nurs*. 2022;17(2):1–9.
7. Dahlke S, Davidson S, Duarte Wisnesky U, Kalogirou MR, Salyers V, Pollard C, et al. Student Nurses' Perceptions about Older People. *Int J Nurs Educ Scholarsh*. 2019;16(1):1–10.
8. Dahlke S, Hunter KF, Pietrosanu M, Kalogirou MR. Testing and e-learning activity designed to enhance student nurses understanding of continence and mobility. *Int J Nurs Educ Scholarsh*. 2021;18(1):1–9.



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**Thank you**

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