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Charles Darwin University

## Influencing factors and barriers to retention among regional and remote undergraduate nursing students in Australia: A systematic review of current research evidence

Liu, Daniel; Wang, Alison; Bressington, Dan; Nic Giolla Easpaig, Brona; Wikander, Lolita; Tan, Jing-Yu

*Published in:*

International Platform of Registered Systematic Review and Meta-analysis Protocols

*DOI:*

[10.37766/inplasy2022.6.0087](https://doi.org/10.37766/inplasy2022.6.0087)

Published: 22/06/2022

*Document Version*

Publisher's PDF, also known as Version of record

[Link to publication](#)

*Citation for published version (APA):*

Liu, D., Wang, A., Bressington, D., Nic Giolla Easpaig, B., Wikander, L., & Tan, J-Y. (2022). Influencing factors and barriers to retention among regional and remote undergraduate nursing students in Australia: A systematic review of current research evidence. *International Platform of Registered Systematic Review and Meta-analysis Protocols*, 1-3. <https://doi.org/10.37766/inplasy2022.6.0087>

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# INPLASY PROTOCOL

To cite: Liu et al. Influencing factors and barriers to retention among regional and remote undergraduate nursing students in Australia: A systematic review of current research evidence. Inplasy protocol 202260087. doi: 10.37766/inplasy2022.6.0087

Received: 22 June 2022

Published: 22 June 2022

**Corresponding author:**  
Xian-Liang Liu

daniel.liu@cdu.edu.au

**Author Affiliation:**  
Charles Darwin University.

**Support:** HEPPP Project.

**Review Stage at time of this submission:** Preliminary searches.

**Conflicts of interest:**  
None declared.

## Influencing factors and barriers to retention among regional and remote undergraduate nursing students in Australia: A systematic review of current research evidence

Liu, XL<sup>1</sup>; Wang, T<sup>2</sup>; Bressington, D<sup>3</sup>; Nic Giolla Easpaig, B<sup>4</sup>; Wikander, L<sup>5</sup>; Tan, JY<sup>6</sup>.

**Review question / Objective:** To explore the attrition problems, influencing factors and barriers to retention among regional and remote nursing students who enrolled in the undergraduate programs in Australia.

**Condition being studied:** Student retention concerns an individual's commitment to a learning goal. Low student retention has been a long-standing issue for nursing programs and it is an important threat to the future nursing workforce. Attrition is measured by the number of students enrolled in the first year who do not complete their study in the following year. With the growth of online programs, the issue of high attrition raises concern for students enrolled in these programs. Moreover, the social context of students may influence positive motivation and affect their decision to stay in their nursing programs.

**INPLASY registration number:** This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 22 June 2022 and was last updated on 22 June 2022 (registration number INPLASY202260087).

### INTRODUCTION

**Review question / Objective:** To explore the attrition problems, influencing factors and barriers to retention among regional and remote nursing students who enrolled in the undergraduate programs in Australia.

**Rationale:** In a country as vast as Australia, regional and remote nursing students'

locations may mean that they face unique challenges undertaking university studies. This systematic review aims to explore the attrition problems, influencing factors and barriers to retention in regional and remote undergraduate nursing students. This review will provide essential information to design tailored strategies to support regional and remote undergraduate nursing students in Australia.

**Condition being studied:** Student retention concerns an individual's commitment to an learning goal. Low student retention has been a long-standing issue for nursing programs and it is an important threat to the future nursing workforce. Attrition is measured by the number of students enrolled in the first year who do not complete their study in the following year. With the growth of online programs, the issue of high attrition raises concern for students enrolled in these programs. Moreover, the social context of students may influence positive motivation and affect their decision to stay in their nursing programs.

## METHODS

**Search strategy:** Comprehensive search strategies will be developed by using Medical Subject Headings terms with related keywords. The search terms that will be used in this systematic review are "attrition", "retention", "undergraduate student\*", "nursing", "regional", "remote", "influencing factor\*", "barrier\*" and "Australia\*". Cumulative Index to Nursing and Allied Health Literature (CINAHL); Embase; Journals@Ovid; Medline; PsycINFO; PubMed, Web of Science, A+ Education, ERIC - Education Resources Information Center (EBSCOhost version) and ProQuest Education Database will be searched to locate eligible English publications from June 2017 through June 2022. Reference lists of included studies will be reviewed.

**Participant or population:** Regional and remote nursing students who enrolled in the undergraduate programs.

**Intervention:** N/A.

**Comparator:** N/A.

**Study designs to be included:** Qualitative, quantitative and mixed-methods studies.

**Eligibility criteria:** (1) Population: Regional and remote undergraduate nursing students. (2) Interest: Influencing factors and barriers to retention. (3) Context: The high education sector in Australia. (4)

Qualitative, quantitative and mixed-methods, original studies published in English in the last five years (June 2017 to June 2022).

**Information sources:** Ten electronic databases (CINAHL, Embase, Journals@Ovid, Medline, PsycINFO, PubMed, Web of Science, A+ Education, ERIC - Education Resources Information Center (EBSCOhost version) and ProQuest Education Database) and reference lists of included studies.

**Main outcome(s):** Attrition problems, influencing factors and barriers to retention.

**Additional outcome(s):** N/A.

**Data management:** EndNote Software will be used for data management in this systematic review.

**Quality assessment / Risk of bias analysis:** The methodological quality will be assessed for each of the included studies using the JBI critical appraisal tools (<https://jbi.global/critical-appraisal-tools>).

**Strategy of data synthesis:** The authors will use a data extraction form to extract data from included publications. Descriptive analysis will be used for the synthesis of results from the included studies.

**Subgroup analysis:** N/A.

**Sensitivity analysis:** N/A.

**Language:** English.

**Country(ies) involved:** Australia.

**Other relevant information:** No.

**Keywords:** Retention; Remote; Undergraduate nursing students; Influencing factors; Barriers.

**Dissemination plans:** This systematic review will be published in a peer-review journal.

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**Contributions of each author:**

**Author 1 - Xian-Liang Liu - Study conception and design, literature searching and sorting, data extraction, analysis and interpretation of data, and paper writing and revising.**

**Email: [daniel.liu@cdu.edu.au](mailto:daniel.liu@cdu.edu.au)**

**Author 2 - Tao Wang - Study conception and design, literature searching and sorting, data extraction, analysis and interpretation of data, and paper writing and revising.**

**Email: [alison.wang@cdu.edu.au](mailto:alison.wang@cdu.edu.au)**

**Author 3 - Daniel Bressington - Study conception and design, interpretation of data, and paper writing and revising.**

**Email: [daniel.bressington@cdu.edu.au](mailto:daniel.bressington@cdu.edu.au)**

**Author 4 - Bróna Nic Giolla Easpaig - Study conception and design, interpretation of data, and paper writing and revising.**

**Email: [b.nicgiollaeaspaig@cdu.edu.au](mailto:b.nicgiollaeaspaig@cdu.edu.au)**

**Author 5 - Lolita Wikander - Study conception and design, interpretation of data, and paper writing and revising.**

**Email: [lolita.wikander@cdu.edu.au](mailto:lolita.wikander@cdu.edu.au)**

**Author 6 - Jing-Yu (Benjamin) Tan - Study conception and design, analysis and interpretation of data, and paper writing and revising.**

**Email: [benjamin.tan@cdu.edu.au](mailto:benjamin.tan@cdu.edu.au)**