

NURSING+
MIDWIFERY

Publications Metrics 2018-2022 by the Western Health-Deakin University Partnership

An analysis of publication outputs and metrics

December 2023



Western Health



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Introduction

The Western Health Partnership was established in 2014 and drives collaborative clinical research that provides Western Health staff and students with the opportunity to engage in clinically focussed, multidisciplinary research and training across acute, chronic, rehabilitation, and community healthcare settings. The Partnership is committed to improve patient safety outcomes, patient experience of healthcare, and support the role of nurses and midwives in their workforce development, with the ultimate aim to deliver world class health outcomes for our large and diverse community in Melbourne's west.

The Western Health Partnership is unique as is the only partnership dedicated to both nursing and midwifery, with clinical chairs for each discipline. The Partnership is led by Professors Bodil Rasmussen (Nursing) and Linda Sweet (Midwifery) and is supported by a highly-skilled team of researchers from a range of backgrounds working closely with clinicians and researchers from all health disciplines. Postgraduate research students (honours, master's, PhD's) also contribute to the Partnership's research activities.

Our Research Agenda

The Partnership's researchers specialise in developing robust evidence to how best to support and care for all people, particularly those living with chronic and complex conditions and their families, and childbearing women and their families. We focus on health care service research that partners with consumers in co-design, with particular interest in the areas of chronic conditions management, technology use in healthcare, health workforce development, gender and health, and enhancing maternity services.

Nursing-led Research

Professor Bodil Rasmussen (Chair of Nursing)



Professor Bodil Rasmussen is Chair of Nursing in the partnership with Deakin University and Western Health. Bodil has been involved in diabetes education for more than 20 years, with 10 of those as the Course Director of Graduate Certificate of Diabetes at the School of Nursing and Midwifery, Deakin University. Her program of research investigates the impact of changes during life transitions on selfmanagement and risk management among adults with diabetes and her methodological expertise includes qualitative research methods, especially grounded theory and other interpretative qualitative methodologies, and large survey analysis. She is an international leader in diabetes nursing research and education and a member of the Scandinavian Translational Research in Chronic Conditions (SCAN-TRICC) Group. She works in partnership with professional national and international diabetes organisations and with world renowned researchers in the field of self-management in chronic illness. Professor Rasmussen also leads numerous projects in self-management of chronic conditions in Denmark. Professor Rasmussen is stepping down from the Chair of Nursing role at Western Health at the end of December 2023.

Midwifery-led Research

Professor Linda Sweet (Chair of Midwifery)



Professor Linda Sweet is Chair of Midwifery in the partnership with Deakin University and Western Health. Linda's portfolio responsibility is to undertake research and build research capacity within Western Health, including understanding research and research translation. Whilst this is an organisation wide role, the primary focus is on midwifery research and maternity service improvements with a multidisciplinary focus. Linda is a member of the Midwifery Accreditation Committee that endorses all midwifery education programs across Australia, and is the Deputy Editor for Women and Birth, the international journal of the Australian College of Midwives, and peer review for numerous Q1 journals. Linda has over 20 years academic experience, and was previously the Head of Midwifery and Higher Degree Research coordinator at Flinders University, Adelaide. She has extensive experience in curriculum development and have held numerous Unit Chair positions in the Master of Clinical Education and the Bachelor of Midwifery at Flinders University

Analysis of Western Health Partnership publication outputs and metrics

1. Scholarly output

This report presents publication output and metrics produced by the partnership between Western Health and Deakin University between 2018 and 2022. Overall, 96 articles, authored by Professors Bodil Rasmussen and/or Linda Sweet, were published over the five years. Total number of publications owned by Deakin University was 11,930 during those five years. In comparison, the number of publications the Western Health group owns rose from 3 (3.1%) in 2018 to 44 (45.8%) in 2022, while there has been stagnancy in the number of publication outputs recorded by Deakin University (20.0% in 2018, 19.7% in 2022), nationally (19% in 2018, 20.2% in 2022), and internationally (18.6% in 2018, 20.5% in 2022) (*Figure 1*). This is also reflected in the percentage contribution share of the Western Health group to the Deakin University publication output, which has shown a significantly increased share from 0.12% in 2018 to 1.87% in 2022 (*Figure 2*).

NB: Total number of publications (Western Health: 96; Deakin University: 211,930; Australia: 568,099; World: 17,419,335)

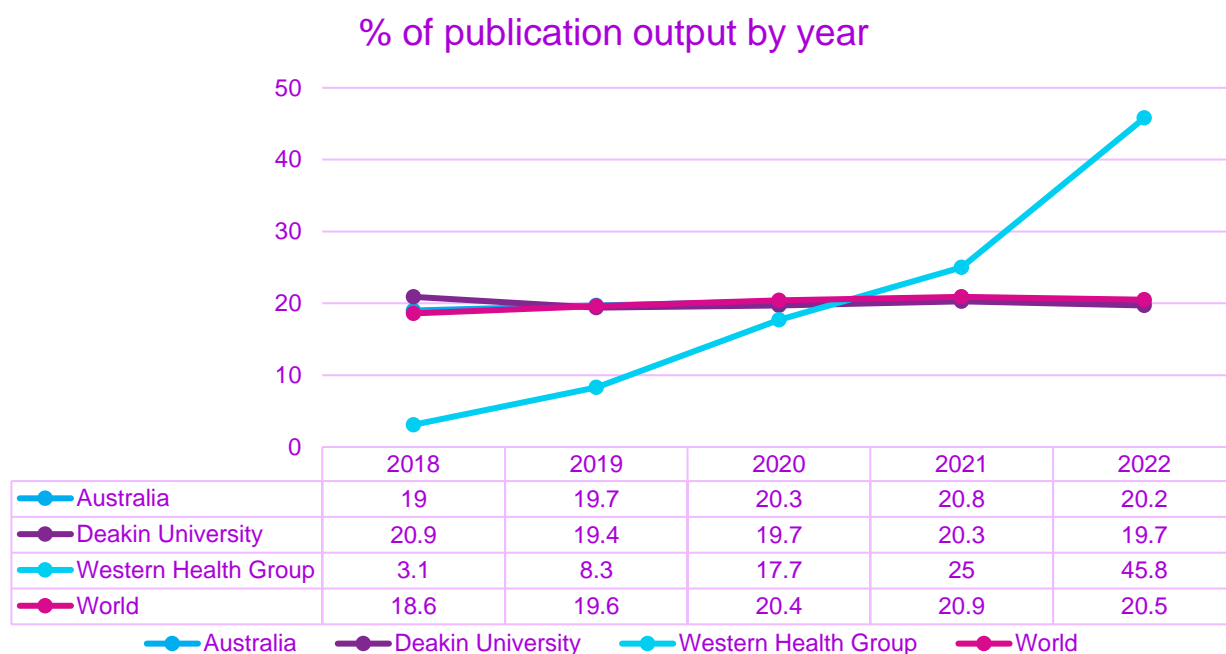


Figure 1. Percentage of publication outputs by year across entities

% share of publication outputs by Western Health group

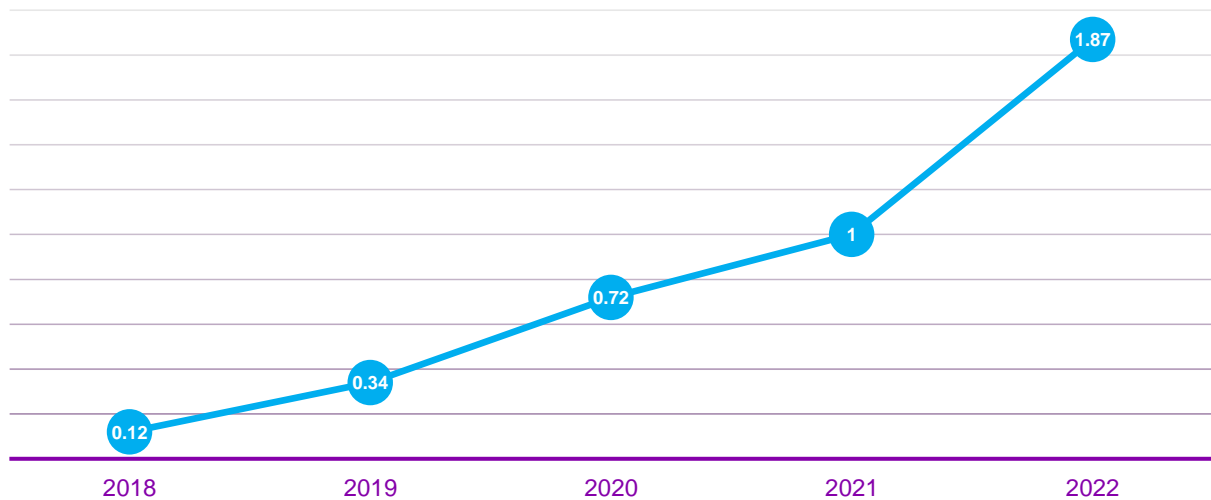


Figure 2. Percentage share of publications authored by Western Health group to Deakin University overall publication output

2. Citation count

Citation count, whether internationally, nationally or at University level, has shown a decreasing trend across the years (Figure 3), but it was found that the citation count for the Western Health group has seen sixteen times growth in the number of citations, from 15 in 2018 (1.8%) to 244 in 2022 (29.3%). However, it should be noted that the highest recorded number of citations was 322 in 2021 (38.6%). The percentage share of citations authored by the Western Health Group to the total number of citations attributed to Deakin University rose significantly, from 0.02% in 2018 to 1.89% in 2022 (Figure 4).

NB: Total number of citations (Western Health: 834; Deakin University: 214,367; Australia: 9,336,773; World: 164,738,652)

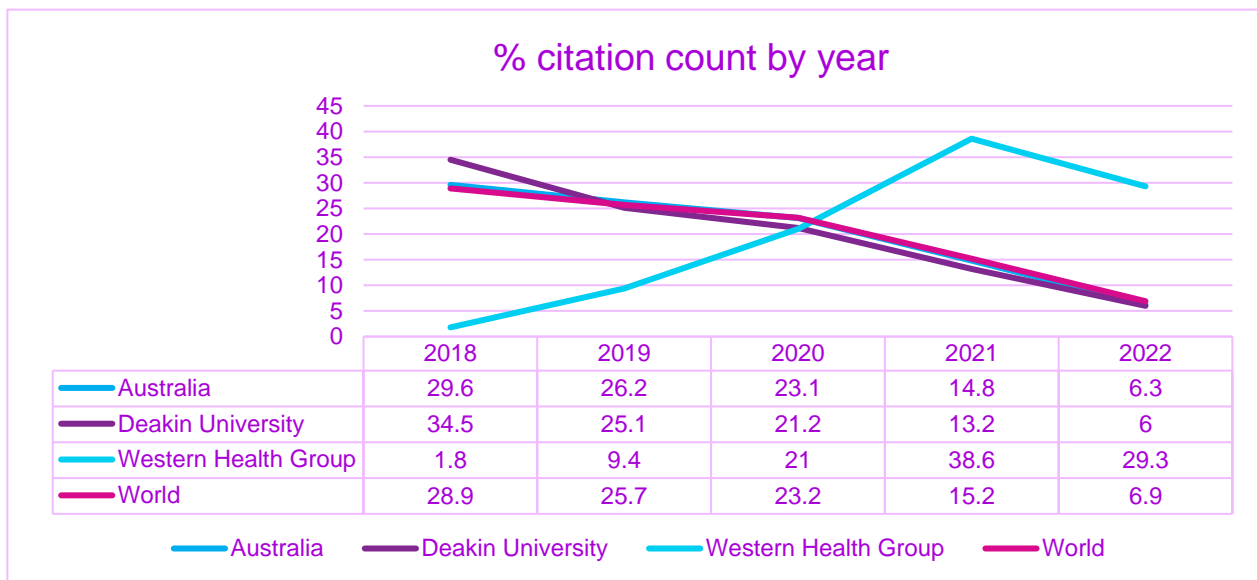


Figure 3. Percentage of citation count by year across entities

% share of citation count by Western Health group

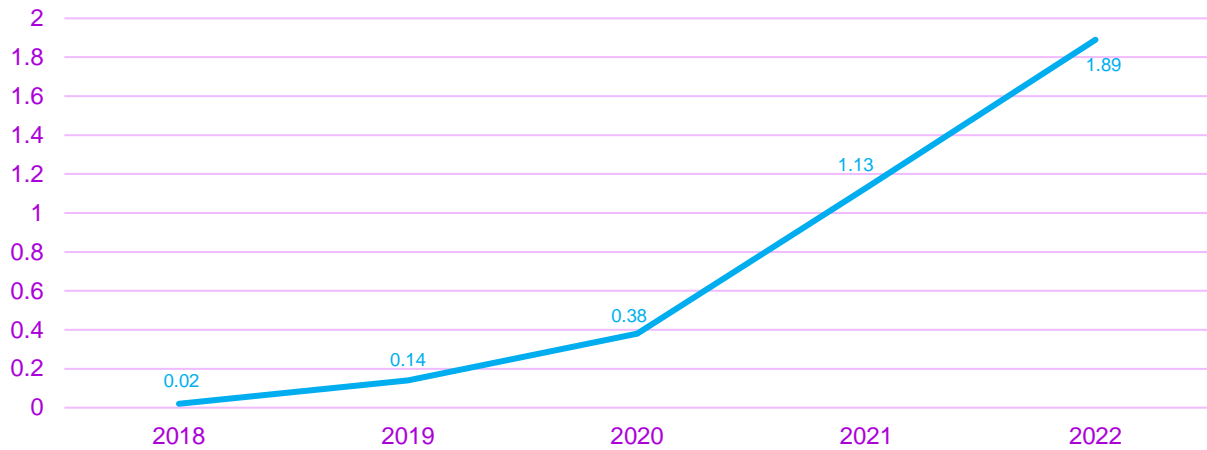


Figure 4. Percentage share of total citations authored by Western Health group to the total number of Deakin University citations

The trend for citation counts per publication resembles the total citation count presented above (Figure 5). While other entities have shown a decline in the number of citation count per publication, the Western Health group's citation per publication has increased from 5 to 13.4 between 2018 and 2021. It is expected that the citation count per publication for 2022 is lower than in previous years in the trend given its recency.

Citations per publications

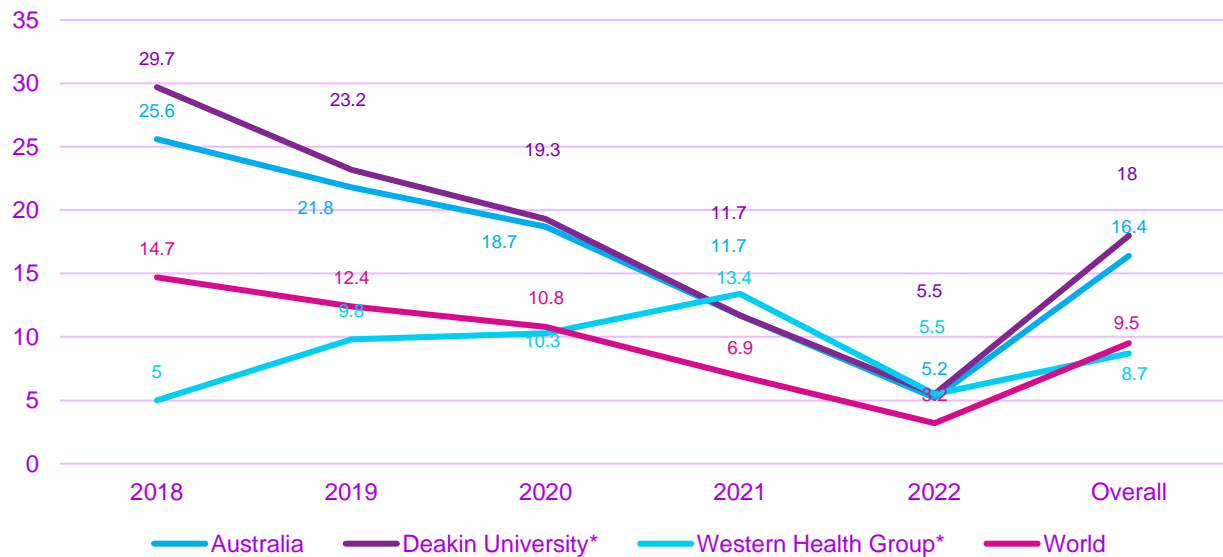


Figure 5. Citations per publications by year across entities

The percentage of cited publications increased across the years for the Western Health group but declined or was inconsistent in other entities (Figure 6).

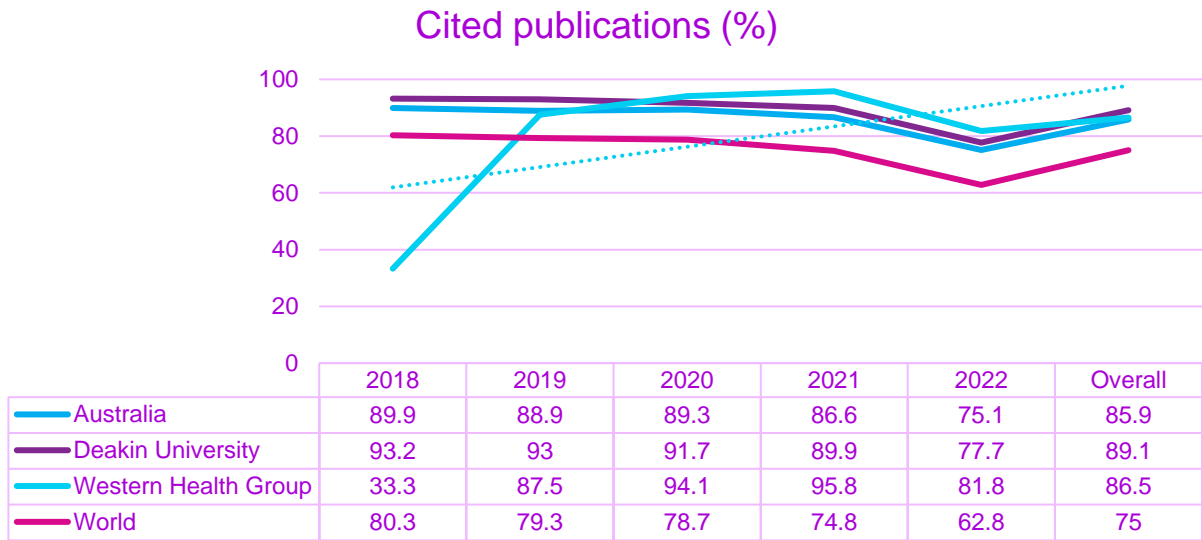


Figure 6. Percentage of cited publications by year across entities

3. Publication metrics (H-index, Field-weighted citation impact, top 1% and 10% citation percentiles)

H-index and Field-weighted citation impact (FWCI)

While there has been an increase in publication output across the years for the Western Health group, the H-index remained unchanged, as was the Deakin University H-index (Figure 7).

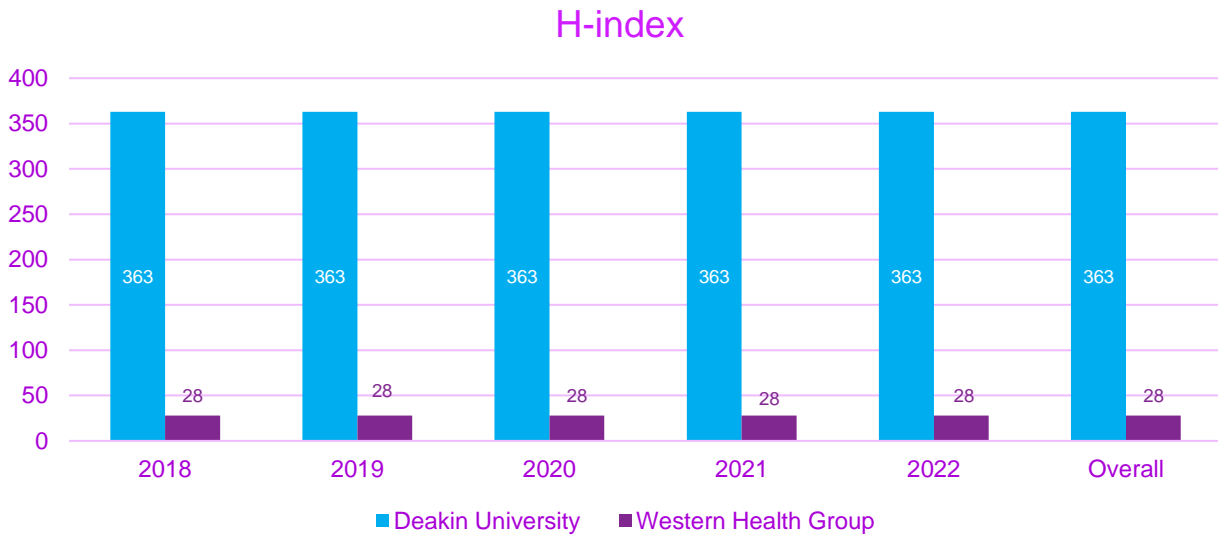


Figure 7. Overall H-index for Deakin University and Western Health group between 2018 and 2022

However, individual/field level metrics – for example, field-weighted citation index, has shown an increase trend for the Western Health group, compared to world average and nationally. The field-weighted citation index rose from under 1 in 2018/2019 to 3.63 in 2022 (Figure 8), meaning that authors from the Western Health group were cited 3.6 times more often than authors from elsewhere.

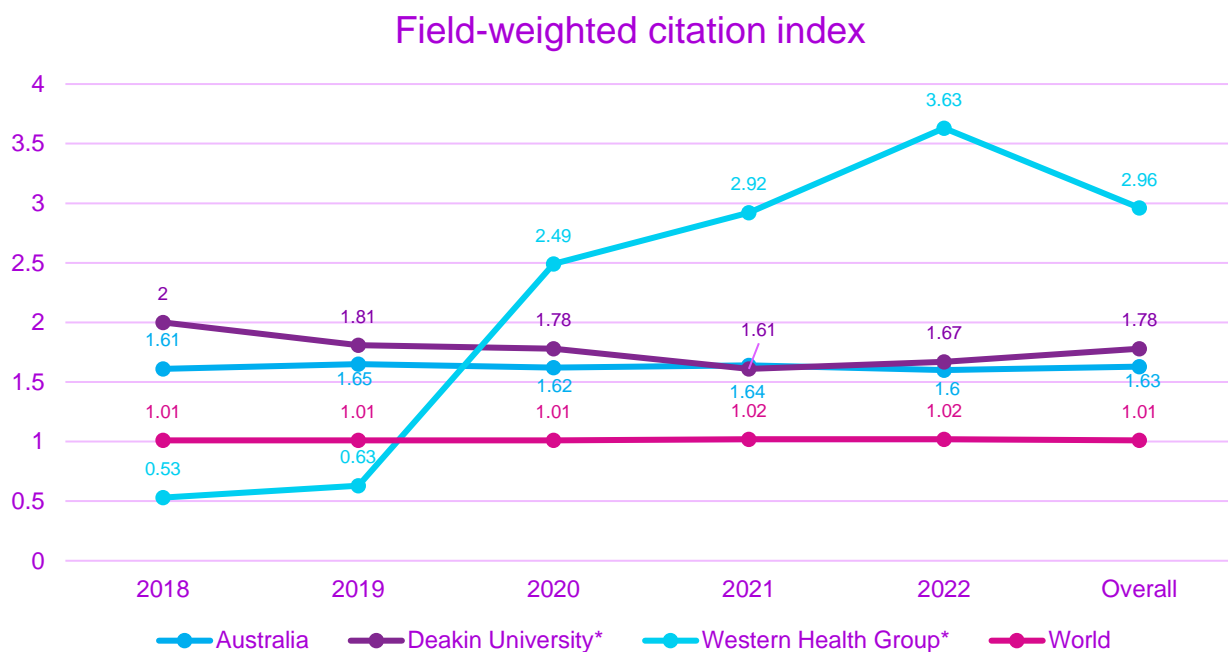


Figure 8. Field-weighted citation index by year across entities

Publications in the top 1% and 10% citation percentiles

Publications in the top 1% of the citation percentiles were not reported in the first three years (2018–2020). There were four publications (1 in 2021 and 3 in 2022) that were grouped in the top 1% citation percentiles. Of the total publications, the percentage of publications in the top 1% citation percentiles (4.2%) for the Western Health group far exceeded the reports from Deakin University (2.6%), Australia-wide (2.6%) and worldwide (1.1%). The figures were even higher (i.e., 10.4%) when the reports were limited to publications with high FWCI, compared to Deakin University (2.4%), Australia (2.2%) and globally (1%).

Of the 96 publications authored by the Western Health group, 21 were in the top 10% citation percentiles (21.9%), which was comparable to Deakin University (20.3%) and national figures (19.2%) but doubled to global reports (11.2%) (Figure 9). Similarly, outputs in the top 10% citation percentiles, when categorised using field-weighted impact, was higher compared to local, national and international figures (26% vs 18.4%, 17.1%, 10.1%, respectively).

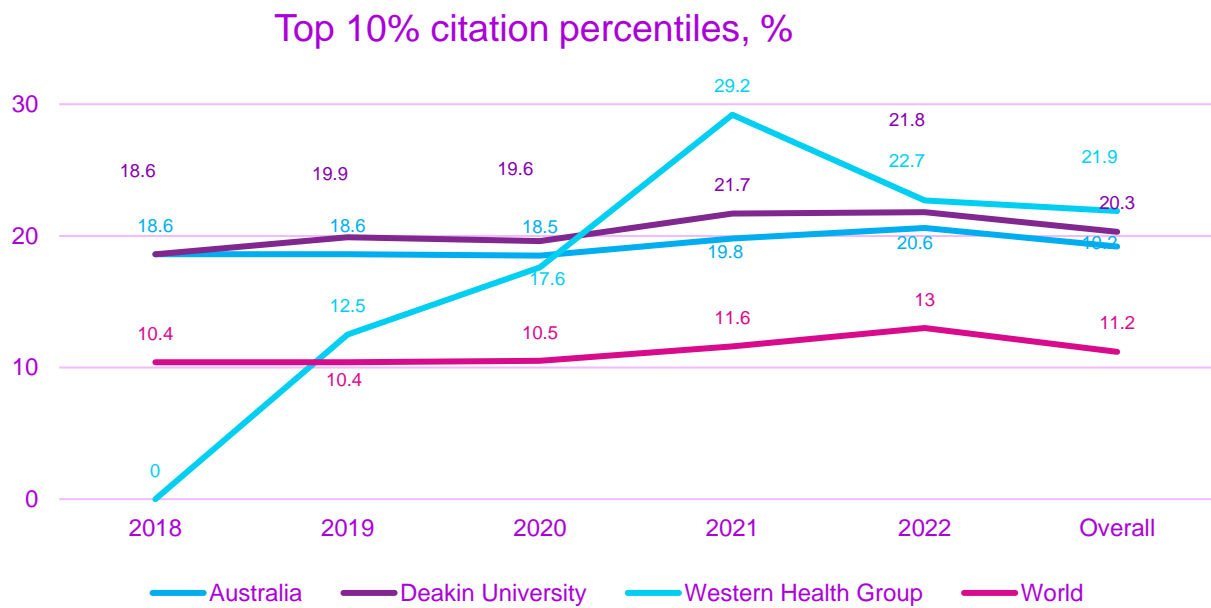


Figure 9. Publications classified under the top 10% citation percentile by year across entities

4. International collaboration and worldwide reach

Citations of works from the Western Health group spans across 80 different countries overall, and varied across the years, with a high number of citing countries recorded in 2021 at 63 (Figure 10).

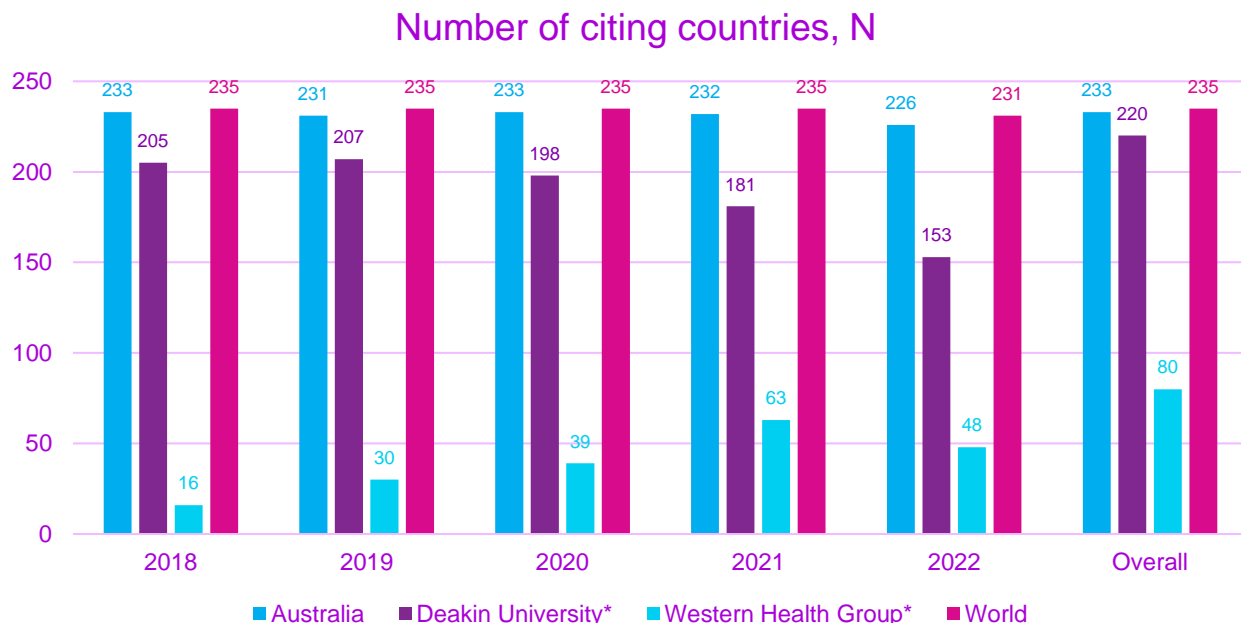


Figure 10. Number of citing countries by year across entities

In the first three years (2018-2020), approximately a quarter to one-third of publications involved international collaboration, but this has now increased to half (Figure 11).

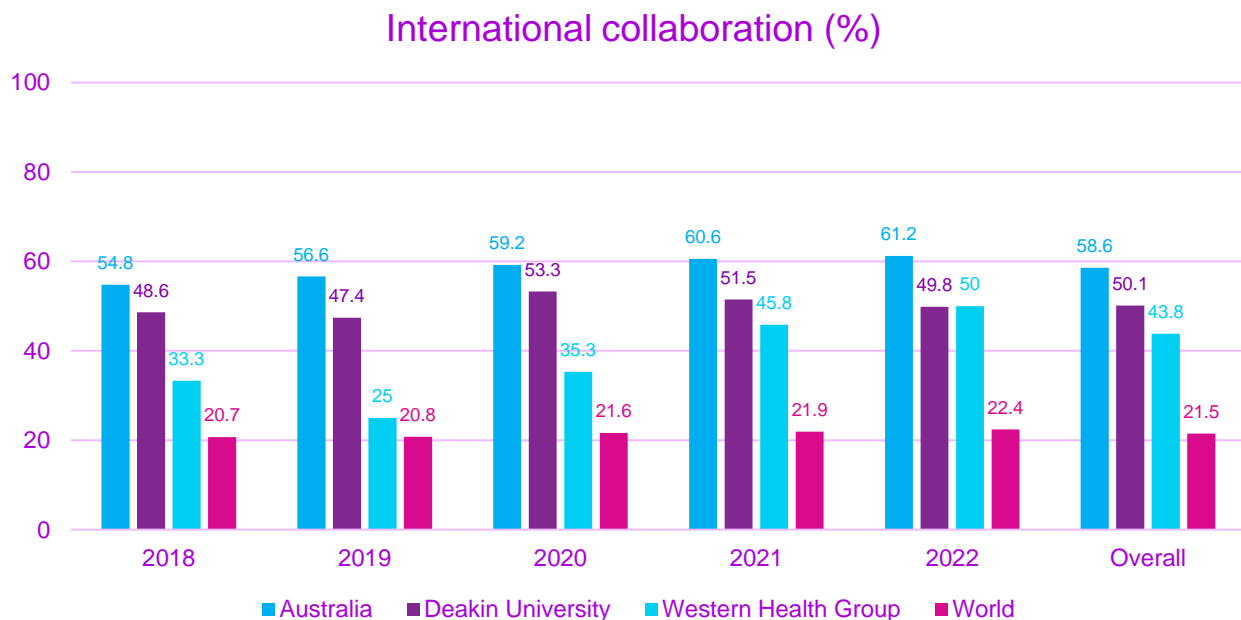


Figure 11. Percentage of publications involving international collaboration by year across entities

Academic-corporate collaboration was inexistent in 2018 and 2019 but starting from 2020, publications involving corporates have dramatically increased (2.2% in 2020 to 25% in 2022) (Figure 12).

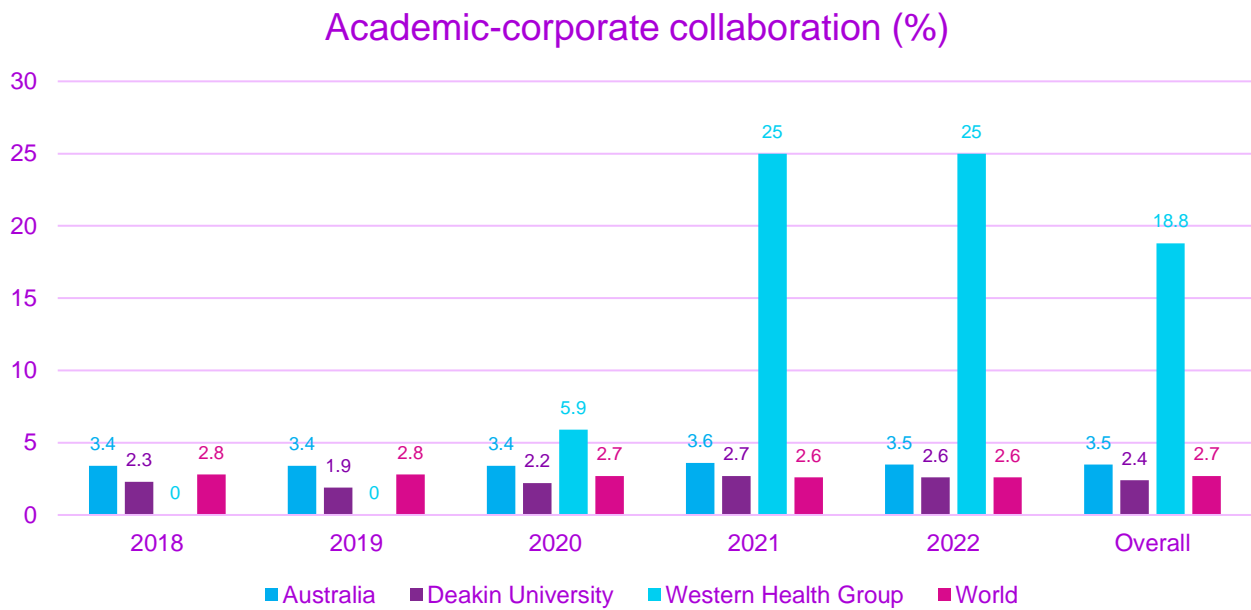


Figure 12. Percentage of publications involving academic-corporate collaboration by year across entities

5. Media coverage

Publications authored by the Western Health group have been mentioned 2,483 times in the media. Of these, 2,379 mentions were social media mentions (96%), 99 mentions (3.8%) were news related, and 5 were policy mentions (0.2%) (Figure 13).

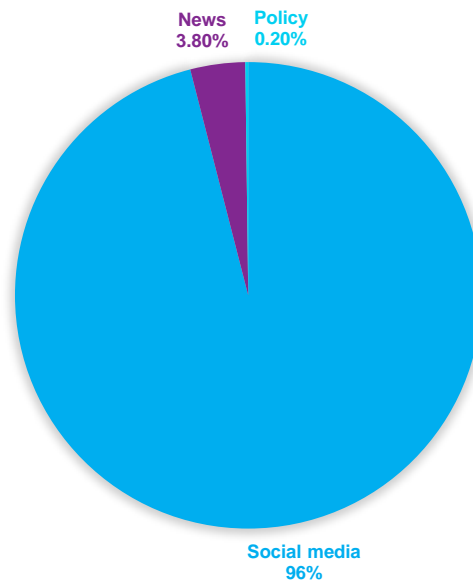


Figure 13. The Western Health group publications covered in the news

6. Other impacts

External committee involvement

Prof Sweet invited onto three expert panels, one with RANZCOG and two with Safer Care Victoria.

Prof Sweet invited to review web content for Raising Children website.

Influence on policy documents

Past research by Prof Sweet cited in the following reports/policy documents:

- Independent review of collaborative arrangements 2023 Report Extract, Australian Government Department of Health
- Monitoring and evaluation services for Woman-centred care - Strategic directions for Australian maternity services. 2023 Australian Government Department of Health.
- Integrating the prevention and control of noncommunicable diseases in HIV/AIDS, tuberculosis, and sexual and reproductive health programmes: implementation guidance. 2023 World Health Organization
- Report no. 7: Becoming a new parent in the COVID-19 pandemic: Insights on the Australian family experience. 2022 Australian Institute of Family Studies
- WHO Guidelines on the Development, Recruitment, Recruitment and Retention of Health Personnel in Rural and Remote Areas, 2021 World Health Organization
- Interventions to Decrease Hospital Length of Stay. 2021 Agency for Healthcare Research and Quality, USA
- Early Discharge and Puerperal Home Visit During the Covid-19 Pandemic At La Paz University Hospital (Madrid) 2021 Spain Department of Health
- Protect Breastfeeding: A Shared Responsibility. 2021 Malaysia Ministry of Health
- Postnatal care. 2021. National Institute for Health and Care Excellence (NICE) UK.
- Situation of nursing in the world 2020: invest in education, employment and leadership. World Health Organization
- Education Horizon – Scanning Bulletin 2019 NHS Trusts, UK
- Topic 3 Clinical skill development. 2019. Australian Government Department of Health
- Review of effective strategies to promote breastfeeding. 2018. SAX institute

Past research by Prof Rasmussen cited in the following reports/policy documents:

- Self-care for health: a national policy blueprint. 2020 Mitchell Institute Australia [Self-Care for Health blueprint](#)
- Deeble Perspectives Brief 24: Huggins K, Peeters A, Holton S, Wynter K, Hutchinson A, Rasmussen B and LaMontagne A. (2022) Towards a thriving healthcare workforce. Deeble Perspectives Brief 2 [Towards a thriving healthcare workforce 1.pdf](#)
- WHO: Technical brief on strengthening the nursing and midwifery workforce to improve health outcomes: Government Chief Nursing and Midwifery Officers (GCNMOs) in the WHO European Region (2023) [WHO Recognising Nursing and Midwifery workforce](#).
- Invited by ADEA CEO and Anne Kelso AO at NHMRC to review report comprising NHMRC's Investigating Clinician Researcher Career Pathways (2022)
- Diabetes Education Review Expert Reference Group, Australian Diabetes Education Association (ADEA), a national group to provide expert advice on the review and development of CDE education standards, programs and pathways (2020 – current).