

Research Report 2025-2026



We would like to thank the many participants who have contributed to the research conducted at Joondalup Health Campus, who have helped us to improve our care.

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ACKNOWLEDGEMENT

Joondalup Health Campus acknowledges the Whadjuk people of the Noongar Nation as the Traditional Custodians of the lands upon which we are located. We pay our respects to Elders past and present.

Introduction From the Director of Research

Welcome to the 2025-26 Joondalup Health Campus Research Report.

Research continues to play a vital role in advancing healthcare at Joondalup Health Campus. Through research, we challenge existing practices, generate new knowledge and identify opportunities to improve patient outcomes. By embedding research and innovation into the care we provide, we ensure that our patients benefit from evidence-based practice and access to emerging therapies and treatments.

Over the past year, Joondalup Health Campus has strengthened its research culture and expanded opportunities for staff, patients and collaborators to participate in meaningful research. Our research portfolio spans a broad range of clinical specialties and includes investigator-led projects, collaborative studies, quality improvement initiatives and clinical trials. This breadth of activity reflects the enthusiasm and dedication of our clinicians, researchers and support staff, who continue to pursue excellence in both patient care and research.

Our Clinical Trials Unit has continued to provide patients with access to innovative treatments while maintaining the highest standards of quality, safety and governance. The successful accreditation of our clinical trials service under the National Clinical Trials Governance Framework has provided a strong foundation from which to further expand trial activity across multiple specialties.

ORIGINS remains a flagship research initiative for Joondalup Health Campus and continues to generate valuable insights into the early-life factors that influence lifelong health and wellbeing. Through collaboration with the Kids Research Institute Australia and numerous national and international partners, ORIGINS continues to position Joondalup Health Campus at the forefront of child and family health research.

We are grateful for the ongoing support of our funders, the hospital Executive, our academic and industry partners, and the many research funders whose contributions make this work possible. Most importantly, we thank the patients, families and community members who generously participate in research studies. Their involvement is fundamental to every discovery and every improvement in care.

As we look ahead, we remain committed to fostering a vibrant and sustainable research environment that supports innovation, develops future research leaders and translates discovery into better health outcomes for our community.

On behalf of the Research Department, thank you to everyone who has contributed to research at Joondalup Health Campus during the past year. Together, we are helping to shape the future of healthcare through discovery, collaboration and innovation.

Professor Desiree Silva
Director of Research
Joondalup Health Campus





37

Research publications in medical journals

2025-2026

45

45 research projects currently underway

>10

>10 Clinical trials currently underway



Research in:

• Anaesthetics

• Dietetics

• Emergency Medicine

• General Medicine

• Intensive Care Medicine

• Infectious Diseases

• Mental Health

• Neurology & Stroke

• Obstetrics & Gynaecology

• Oncology & Haematology

• Paediatrics & Neonatology

• Occupational Therapy

• Physiotherapy

• Rehabilitation & Geriatrics

• Renal Medicine/Urology

• Surgery

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Research & Clinical Trials Department

The 2025-26 financial year has been another productive period for the Research & Clinical Trials Department, with continued growth in research activity, expansion of the clinical trials portfolio, and strengthening of research infrastructure across Joondalup Health Campus.

Following the successful accreditation assessment against the National Clinical Trials Governance Framework in 2024-25, efforts during the year focused on maintaining compliance with governance standards and further embedding quality and safety processes within clinical trial operations. Particular attention was given to enhancing consumer engagement in research activities and strengthening partnerships with patients and community stakeholders.

Research remains a key enabler of innovation and evidence-based practice at Joondalup Health Campus. As at 30 June 2026, more than 45 research projects were underway across the hospital, encompassing a broad range of clinical specialties and disciplines. Many of these projects were supported through the Joondalup Health Campus Clinical Trials Unit (JHC CTU), which continues to provide patients with access to cutting-edge therapies and emerging models of care.

Key achievements during 2025-26 included:

- Continued growth and diversification of the clinical trials portfolio across multiple medical specialties;
- Ongoing implementation of the Joondalup Health Campus Research Strategic Plan 2025-2030;
- Successful utilisation of Future Health Research and Innovation Fund (FHRI) research infrastructure funding to strengthen research capability and capacity at JHC;
- Continued contribution to local, state and national research initiatives, clinical guidelines and policy development;
- Maintenance of National Clinical Trials Governance Framework requirements and continuous quality improvement activities within the Clinical Trials Unit;
- Increased collaboration with clinicians, researchers and external partners to support high-quality research and translation of findings into clinical practice.

The department remains committed to fostering a strong research culture and supporting clinician-led research that improves patient outcomes and informs healthcare delivery.

Clinical Trials Unit

The Clinical Trials Unit at Joondalup Health Campus has continued to expand its research portfolio over the past 12 months. While oncology remains a major focus area, the unit has broadened its activities into other specialties including paediatrics, respiratory medicine, anaesthetics and perioperative care.

Through participation in national and international clinical trials, the Clinical Trials Unit provides local patients with access to innovative treatments while contributing to the advancement of medical knowledge and future standards of care.

As at 30 June 2026, the Clinical Trials Unit at JHC was undertaking the following clinical trials:

- **ARIA** - A Phase 3, 24-week, randomized, double-blind, parallel-group Bayesian Dynamic Borrowing study comparing the efficacy, safety, tolerability and pharmacokinetics of FF/UMEC/VI with FF/VI in 12-17-year-old participants with inadequately controlled asthma on stable maintenance therapy with ICS/LABA
- **ECHONOF-III** - Look before you leap: How transthoracic ECHOCardiography before fractured Neck Of Femur saves lives in frail older people – the proposed Pragmatic ECHONOF III trial
- **EVOKE-02** - An Open-label, Multicenter, Phase 2 Study of Sacituzumab Govitecan Combinations in First-line Treatment of Patients with Advanced or Metastatic Non-Small-Cell Lung Cancer (NSCLC) Without Actionable Genomic Alterations
- **KRYSTAL-4** - A Randomized, Double-Blind, Phase 3 Trial of Adagrasib plus Pembrolizumab plus Chemotherapy vs. Placebo plus Pembrolizumab plus Chemotherapy in Participants with Previously Untreated, Locally Advanced or Metastatic Non-squamous Non-small Cell Lung Cancer with KRAS G12C Mutation
- **REZILIENT2** - An Open-Label, Phase 2b, Global Multicenter Cohort Trial to Assess the Safety and Efficacy of Ziplertinib in Patients with Locally Advanced or Metastatic Non-Small Cell Lung Cancer with Exon 20 Insertion and Uncommon/Single or Compound Epidermal Growth Factor Receptor Mutations
- **ROSETTA-201** - A Randomized, Multicenter, Open-label Phase 3 Study of Punitamig Monotherapy Compared to Durvalumab in Participants with Unresectable Stage III NSCLC Without Progression After Platinum-based Concurrent Chemoradiation Therapy
- **ROSETTA-201** - A Randomized, Double-Blind, Phase 3 Study of Punitamig Monotherapy Compared to Pembrolizumab as First-line Treatment in Participants with Locally Advanced or Metastatic Non-Small Cell Lung Cancer with PD-L1 ≥ 50%

And providing administrative support to:

- **WAMM** - Wait a Minute or More: A pragmatic, stepped wedge cluster randomised implementation trial
- These studies complement the many investigator-led and collaborative research projects undertaken across the hospital, all of which contribute to improving patient care and advancing clinical practice. Through ongoing research and clinical trial activity, Joondalup Health Campus remains committed to providing patients with access to innovative treatments and delivering healthcare informed by the latest evidence.



Joanna Brisbane
Manager, Research &
Clinical Trials Department,
Joondalup Health Campus

Research Snapshots

SEEKING CONSUMER INPUT INTO OUR RESEARCH PRIORITIES

Joondalup Health Campus remains committed to exploring research priorities that are of relevance to our community members. As part of this commitment, consumer input was sought through a survey and a planned follow up workshop to identify and understand priorities for future mental health research. This engagement will ensure that research activities are informed by the experiences, needs, and perspectives of people with lived experience of mental health challenges.

To inform the development of future mental health research priorities, consumers were invited to participate in a survey to share their perspectives on areas of importance for research and service improvement. The survey sought input from people with lived or carer experience to ensure that future research is aligned with consumer needs, experiences, and priorities.

Survey responses identified several key areas of interest, including improving access to mental health services, strengthening early intervention and prevention approaches and evaluating models of care. Respondents highlighted the importance of research that addresses real-world challenges and leads to meaningful improvements in mental health care and wellbeing.

The survey findings will be used to inform an upcoming consumer workshop, where participants will have the opportunity to further explore, validate, and prioritise the identified themes. The workshop will support more in-depth discussion of research needs and help establish a consumer-informed mental health research agenda.

This staged approach ensures that consumer perspectives are central to the research priority-setting process and provides a strong foundation for future research that is relevant, impactful, and responsive to the needs of individuals with lived experience of mental health challenges.

Research Week 2025

In September 2025, Joondalup Health Campus hosted a Research Event which brought together clinicians, researchers, students and research partners to showcase innovative research activities and celebrate the growing research culture across the campus. The event also marked the launch of the **Joondalup Health Campus Research Strategic Plan 2025-2030**, reinforcing the organisation's commitment to research excellence and translation of evidence into practice.

Attendees heard from a range of internal and external presenters who highlighted the breadth of research being undertaken across Western Australia and at Joondalup Health Campus. Presentations included:

- **The Plastic Exposure Reduction Transforms Health (PERTH) Trial** presented by Michaela Lucas from the University of Western Australia.
- **The Green Ward Initiative at North Metropolitan Health Service (NMHS)** presented by Sarah Joyce, Director Strategy, NMHS.
- **Edith Cowan University Research Showcase** presented by Claus Christophersen, Associate Dean (Research), School of Medical and Health Sciences, Edith Cowan University.
- **Look How They've Grown! Moving into the Next Wave of ORIGINS** presented by Desiree Silva, Director of Research, Joondalup Health Campus.

The event provided an excellent opportunity for networking, collaboration and the exchange of ideas among researchers and clinicians, while highlighting the significant contribution that research continues to make to improving patient outcomes and healthcare delivery.

Current Research¹

ALLIED HEALTH (Dietetics, Occupational Therapy, Physiotherapy, Social Work, Speech Pathology)

- Does malnutrition risk affect rehabilitation progress?
- NUTRIENT study - Nutrition Practice in critically ill adults
- Nutrition in Pregnancy Following Metabolic Bariatric Surgery
- Prospective review of outcomes following zone IV extensor tendon repairs- a multi-centred, international study
- The effect of physiotherapy-led group exercise sessions on hospital readmission rates, and on the level of participation in community exercise up to six months post-discharge of inpatients admitted to a mental health unit.

ANAESTHETICS

- Look before you leap: How transthoracic ECHOCardiography before fractured Neck Of Femur saves lives in frail older people – the proposed Pragmatic ECHONOF III trial

EMERGENCY MEDICINE

- Functional status of survivors of out-of-hospital cardiac arrest in Perth Western Australia

GENERAL MEDICINE

- Characteristics and influencing factors junior doctors and final year medical students consider in their choice of employing hospital

INFESTIOUS DISEASES MEDICINE

- Audit of Staphylococcus Aureus Bacteraemia
- The Australasian Candida and yeast fungaemia Study (ACSIII)

INTENSIVE CARE MEDICINE

- The impact of an education program on staff's knowledge and perceptions of intensive care patient diaries: a pre and post intervention study
- The safety of short-term dialysis catheter positioning within the right heart and great thoracic vessels. A mixed methods study.

MENTAL HEALTH

- A pilot study of heart rate indications of the effectiveness of the treatment of psychotic disorders
- Caring for patients who have used methamphetamine: A pilot study exploring the experiences of West Australian nurses working in an Authorized Mental Health Unit
- The nurse's role in screening for mental health issues in general clinical environments: An evaluation of a Behavioural/Mental Health Screening Tool

NEUROLOGY AND STROKE SERVICE

- Evaluation of an implementation intervention to enhance national translation of nurse-initiated protocols for fever, hyperglycaemia and swallowing management following stroke: a cluster randomised controlled trial
- Risk factors associated with the self-removal of naso-gastric tubes within the acute stroke population on the stroke ward. A single site retrospective file audit.

OBSTETRICS AND GYNAECOLOGY

- Implementation and evaluation of the Connected Maternity Care model: integrating a digital pregnancy management platform for Ramsay Health Care

¹As at 30 June 2026, based on active RGO approval status., Blue font = those trials conducted by or coordinated by JHC Clinical Trial Unit

Current Research¹

ONCOLOGY AND HAEMATOLOGY

- GS-US-576-6220 An Open-label, Multicenter, Phase 2 Study of Sacituzumab Govitecan Combinations in First-line Treatment of Patients with Advanced or Metastatic Non-Small-Cell Lung Cancer (NSCLC) Without Actionable Genomic Alterations
- An Open-Label, Phase 2b, Global Multicenter Cohort Trial to Assess the Safety and Efficacy of Ziplertinib in Patients with Locally Advanced or Metastatic Non-Small Cell Lung Cancer with Exon 20 Insertion and Uncommon/Single or Compound Epidermal Growth Factor Receptor Mutations
- A Randomized, Double-Blind, Phase 3 Trial of Adagrasib plus Pembrolizumab plus Chemotherapy vs. Placebo plus Pembrolizumab plus Chemotherapy in Participants with Previously Untreated, Locally Advanced or Metastatic Non-squamous Non-small Cell Lung Cancer with KRAS G12C Mutation (KRYSTAL-4)
- BNT327-06: A Phase II/III, multisite, randomized master protocol for a global trial of BNT327 in combination with chemotherapy and other investigational agents in first t-line non-small cell lung cancer
- Clinical Implementation of Personalised Medicine for West Australian Cancer Patients
- National Centre for Asbestos Related Diseases Biobank
- RAINFOL-03 (GCT1184-03) - A Phase 3 Randomized, Open-label Study of Rinatubart Sesutecan (Rina-S) versus Treatment of Investigator's Choice (IC) in Patients with Endometrial Cancer After Platinum-Based Chemotherapy and PD(L)-1 Therapy
- ROSETTA-201: A Randomized, Multicenter, Open-label Phase 3 study of Pumitamid Monotherapy Compared to Durvalumab in Participants with Unresectable Stage III NSCLC Without Progression After Platinum-based Concurrent Chemoradiation Therapy
- ROSETTA-202: A Randomized, Double-Blind, Phase 3 Study of Pumitamid Monotherapy Compared to Pembrolizumab as First-line Treatment in Participants with Locally Advanced or Metastatic Non-Small Cell Lung Cancer with PD-L1 $\geq$ 50%.

ORIGINS PROJECTS – (with active RGO status at JHC)

- The Airway Epithelium Respiratory Illnesses and Allergy “AERIAL” Study Vulnerable from the first breath – epithelial dysfunction and respiratory outcomes in children
- Kindy readiness in the ORIGINS cohort
- The ORIGINS Project: A healthy start to life for a better future
- The SYMBA study: Improving gut biodiversity with soluble fibre and probiotic supplementation in early life to prevent allergic disease
- Testosterone and Language in Kids (TALK) Study
- A vulnerable airway epithelium: A pilot study to assess recruitment and nasal sampling in newborns

PAEDIATRICS AND NEONATOLOGY

- A Phase 3, 24-week, randomized, double-blind, parallel-group Bayesian Dynamic Borrowing study comparing the efficacy, safety, tolerability and pharmacokinetics of FF/UMEC/VI with FF/VI in 12-17-year-old participants with inadequately controlled asthma on stable maintenance therapy with ICS/LABA
- A Phase 3, randomized, modified double-blind, active-controlled, parallel-group, 2-arm study to investigate the safety and immunogenicity of a 4-dose regimen of a 21-valent pneumococcal conjugate vaccine in healthy infants and toddlers. (PSK03 Rhyme Study)
- Co-design of the Childhood Responsive, Equitable and Sustainable Health Pathway (CRESH-P), a blended service delivery framework, to improve access to early identification of child developmental needs
- Paediatric Preintervention History in Crohn's Disease
- REVIVE: REspiratory syncytial Virus Immunisation program - eValuating Effectiveness and impact
- Wait a Minute or More: A pragmatic stepped wedge cluster randomised implementation trial

REHABILITATION AND GERIATRICS

- Australian and New Zealand Hip Fracture Registry (ANZHFR)

RENAL MEDICINE/UROLOGY

- Variation in Computed Tomography scan interpretation of renal and ureteric calculi

SURGERY (Including Ear, Nose and Throat Surgery)

- Australasian MARS: Australasian Multicentre Aspiration Risk Study
- Damaging noise levels in Australian ENT theatres – accepting the obvious at our own peril
- Multifactorial study on microbiological and particulate contamination in clean rooms aimed at minimizing the nosocomial risk
- Opioid PrEscRiptions and Usage After Surgery (OPERAS)

¹As at 30 June 2025, based on HREC/RGO approval status and current ORIGINS Sub-Projects. Blue font = those trials conducted by or coordinated by JHC Clinical Trial Unit

The following research articles involved staff or patients of Joondalup Health Campus and were published in 2025-2026:

1. Adams, S., et al., *Multidimensional Sleep Health and Sleep Environment Factors in Individuals with Cancer Undergoing Outpatient Chemotherapy: An Exploratory Cross-Sectional Analysis*. *Nat Sci Sleep*, 2026. 18: p. 572577.
2. Agudelo-Romero, P., et al., *Programming of the respiratory epithelium in utero - insight from the amniotic epithelial methylome*. *medRxiv*, 2025.
3. Bhasin, M., et al., *Colostrum as a Protective Factor Against Peanut Allergy: Evidence From a Birth Cohort*. *Allergy*, 2026. 81(2): p. 552-562.
4. Brian, A., et al., *The role of intraoperative navigation in reverse total shoulder arthroplasty and its impact on clinical outcomes: a systematic review and meta-analysis*. *JSES Rev Rep Tech*, 2026. 6(2): p. 100687.
5. Chan, A., et al., *Metastatic breast cancer outcome in a real-world setting: analysis for long-term survival and curability in a prospective dataset*. *Oncologist*, 2026. 31(4).
6. Cid-Serra, X., et al., *Preoperative focused echocardiography on patients with fractured neck of femur. ECHONOF-III trial: study protocol for a multicenter randomized controlled trial*. *Trials*, 2025. 26(1): p. 333.
7. Dimmitt, S.B., et al., *Rethinking Statin Dosage in Coronary Disease*. *Pharmacol Res Perspect*, 2026. 14(1): p. e70187.
8. Fenton, S., et al., *Change in Diet Quality and Dietary Intake From Pregnancy to 1-Year Postpartum: A Longitudinal Analysis in Australian Women*. *J Hum Nutr Diet*, 2025. 38(5): p. e70142.
9. Fursule, A., et al., *Outcomes of extremely preterm infants with neonatal hyperglycemia and hypernatremia: a retrospective cohort study*. *J Perinatol*, 2026.
10. Gomes, M., et al., *Case report: acquired Gerbode defect and ventricular septal defect in a patient with native valve infective endocarditis*. *Eur Heart J Case Rep*, 2026. 10(4): p. ytag172.
11. Gomes, M., D. Moore, and W. Taggu, *The management dilemma of a large left ventricular fibroma*. *Eur Heart J Case Rep*, 2025. 9(12): p. ytaf644.
12. Ibilola, O.A., K. Redhead, and B. Jongeling, *Evaluation of Guanfacine Prescribing Practices for Attention Deficit Hyperactive Disorder Management: A Retrospective Medical Records Within a Child Development Service*. *J Paediatr Child Health*, 2026. 62(6): p. 983-988.
13. Janulevicius, T., J. Nguyen, and E. Briggs, *Multisystem Immune-Related Adverse Events Following Pembrolizumab: A Critical Care Case of Myocarditis, Diabetic Ketoacidosis, and CNS Demyelination*. *Cureus*, 2025. 17(8): p. e90424.
14. John, J.R., et al., *Codesign and knowledge translation of the Strength-based, Tiered, Accessible Resources and Supports (STARS) for Kids study to identify and support child development, parental mentalwell-being and family psychosocial needs: a mixed-methods research protocol*. *BMJ Paediatr Open*, 2026. 10(1).
15. Leie, M., et al., *Obesity is Associated with Higher Rates of Revision Following Unicompartmental Knee Arthroplasty*. *Orthopaedic Journal of Sports Medicine*, 2026. 14(1_suppl1): p. 2325967125S00336.
16. Luo, J., et al., *Comparative Analysis of Airway Volume and Velum Morphology in Primary Furlow Palatoplasty: Conventional vs. Small-Z Design*. *Plast Reconstr Surg*, 2026.
17. Maiorana, A., et al., *Primary care Adherence to Heart failure guidelines in post-discharge, evaluation & routine management (PATHFINDER): a randomized controlled trial*. *ESC Heart Fail*, 2026. 13(2).
18. McGarry, L., et al., *Swelling Management in Total Knee Arthroplasty: A Systematic Review*. *JBJS Rev*, 2025. 13(9).

19. Ngune, I., et al., Nursing assessment of mental health issues in the general clinical environment: A descriptive study. *J Adv Nurs*, 2025. 81(9): p. 5353-5364.

20. Parkin, K., et al., Chlorinated drinking water exposure enriches antimicrobial resistance pathways in the infant gut microbiome: a randomized trial. *Commun Med (Lond)*, 2026. 6(1).

21. Pretorius, R.A., et al., Body mass index, prebiotic supplementation during pregnancy and gestational diabetes mellitus risk: an effect modification analysis from a randomised controlled trial. *Nutr J*, 2026. 25(1).

22. Quin-Conroy, J.E., et al., Patterns of language and visuospatial lateralisation in three-year-old children. *Neuropsychologia*, 2026. 226: p. 109434.

23. Raguragavan, A., D. Jayabalan, and R. Gunaratne, Lateral Plate Versus Isolated Lag Screw Fixation of Unstable Distal Fibula Fractures: A Systematic Review. *Adv Orthop*, 2026. 2026: p. 9302062.

24. Rishanghan, L., et al., Changes in Hospital Care for Children With IBD Across Australia From 2014 to 2022. *Journal of Paediatrics and Child Health*, 2026. 62(7): p. 1235-1243.

25. Saidy, E., et al., Can Robotic-Assisted Arthroplasty Change the High Early Revision Rate After Patello-femoral Arthroplasty? An Analysis From the Australian Orthopaedic Association National Joint Replacement Registry. *J Arthroplasty*, 2026. 41(2): p. 423-429.

26. Scanlon, J.P., et al., Obesity is associated with higher rates of revision following medial unicompartmental knee arthroplasty. *Knee*, 2026. 61: p. 104419.

27. Sharp, S., et al., Spontaneous Intracranial Hypotension: An Uncommon Cause of Postural Vestibulocochlear Symptoms. *Ear Nose Throat J*, 2026. 105(3): p. 191-197.

28. Sherwood, D. and R. Gunaratne, Novel internal fixation technique for Pauwels type III neck of femur fractures using the femoral neck system in conjunction with a medial buttress plate: a case report. *OTA Int*, 2026. 9(1): p. e0464.

29. Sim, S., et al., Longitudinal associations between maternal and child screen use at 1 year of age and child behavior and development at 3 years of age. *BMC Pediatr*, 2025. 25(1): p. 791.

30. Srinivasjois, R., S. Rao, and G. Pereira, Management of Neonates in the Special Care Nursery and Its Impact on the Developing Gut Microbiota: A Comprehensive Clinical Review. *Microorganisms*, 2025. 13(8).

31. Strzempek, P., et al., Hiatal hernia repair: A single-institution experience and risk factors associated with early symptomatic recurrence. *Surgery*, 2026. 193: p. 110119.

32. Talati, Z., et al., The Flourishing Child: Study Protocol for an Acceptability and Feasibility Trial of a Digital Early Childhood Flourishing Intervention. *Children (Basel)*, 2026. 13(5).

33. Tavelli, G., et al., Preliminary Evidence of Blood DNA Methylation Changes in Pregnant Women Adhering to a Mediterranean Diet. *Epigenomes*, 2026. 10(1).

34. Taylor-Williams, O., et al., Bone mineral density in rheumatoid arthritis patients on antirheumatic therapies: a systematic review. *Bone*, 2026. 206: p. 117812.

35. Taylor-Williams, O., J. Nossent, and C.A. Inderjeeth, Association of Rheumatoid Arthritis With Postfracture Mortality and Fracture-Related Care. *J Rheumatol*, 2026. 53(5): p. 495-500.

36. Ukarapol, N., et al., APSPGHAN Statement on Endoscopic Variceal Bleeding Hemostasis. *Pediatr Gastroenterol Hepatol Nutr*, 2026. 29(1): p. 1-21.

37. Wong, Z.Z.B., et al., Caffeine consumption and schizophrenia: a systematic review and meta-analysis of cognitive, symptomatic and functional outcomes. *Cogn Neuropsychiatry*, 2026. 31(1): p. 64-83.



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People caring for people.