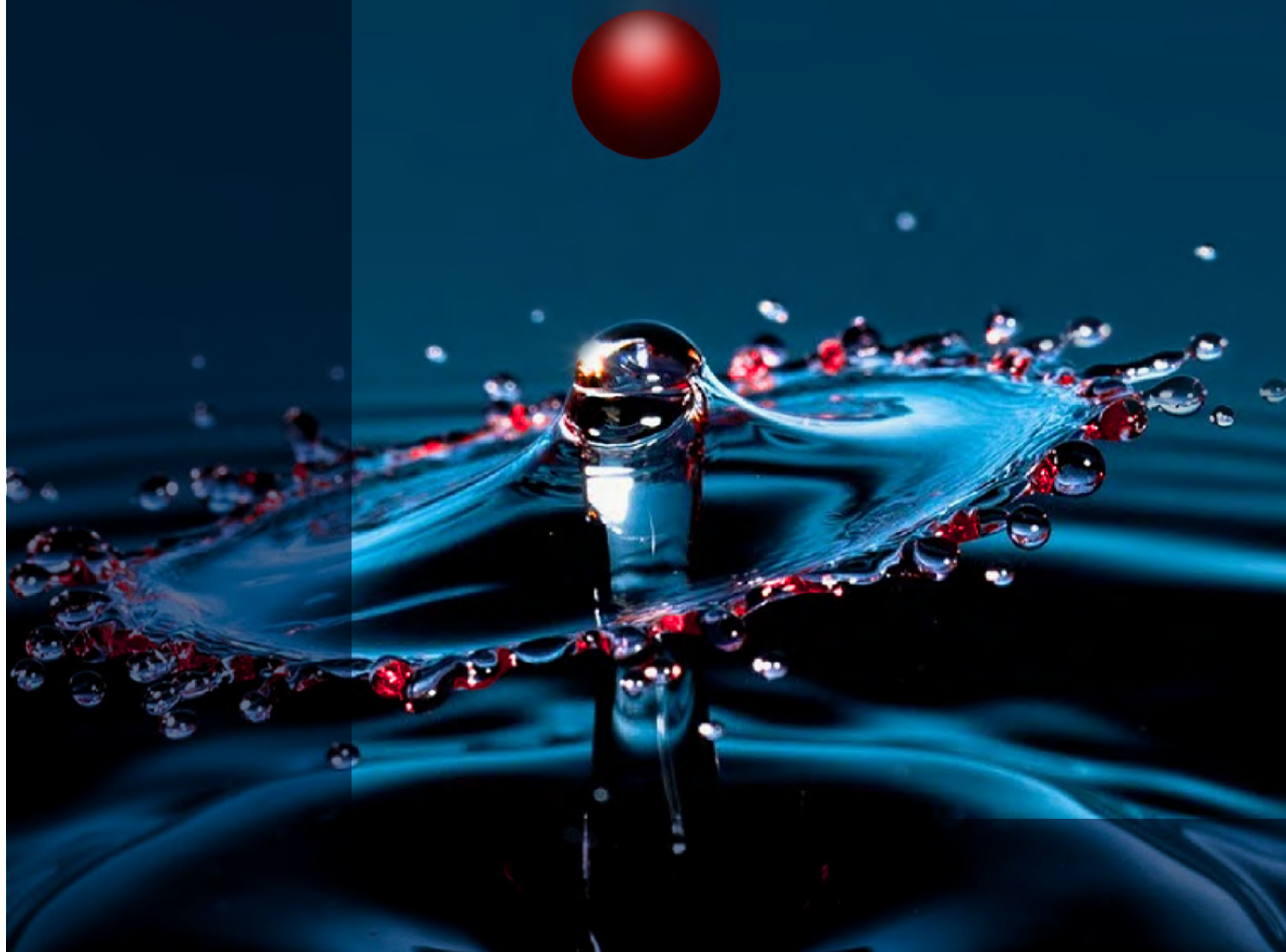




THE UNIVERSITY  
*of* ADELAIDE



# JBI ANNUAL REPORT 2019

**jbi.global**



“ BY PLACING  
AN EMPHASIS  
ON **QUALITY**, WE  
HAVE BEEN ABLE  
TO CONCENTRATE  
OUR ACTIVITIES  
AROUND THOSE  
THAT ALIGN WITH  
OUR CORE BUSINESS  
STRENGTHS AND  
VALUES ”

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# 2019 SNAPSHOT

The widespread impact of JBI, both in Australia and worldwide, is attributable to our local and global partnerships that ensure evidence-based activities are context-specific and driven by individuals and groups that understand their specific health environments.



## JB I EBP DATABASE

**4808** evidence-based point of care resources

## JB I SUMARI

**2679** active users

## JB I DATABASE OF SYSTEMATIC REVIEWS AND IMPLEMENTATION REPORTS



**20%**  
increase in submissions

**189K+**  
unique visitors

## STAFF PUBLICATIONS

**72** publications by JBI staff

## JB I + WOLTERS KLUWER HEALTH

**4K+**  
organisations

**80+**  
countries  
accessing JBI resources via Wolters Kluwer Health

## JB I MANUAL FOR EVIDENCE SYNTHESIS



**2** new Methodology Chapters published

## JB I TRAINING IN PNG

**100**

midwifery graduates trained in JBI Clinical Leadership, Papua New Guinea

## G-I-N & JB I 2019 CONFERENCE



**40+**  
countries

**400+**  
attendees

**151+**  
presentations

**152**  
posters

**19**  
workshops

## JB I COLLABORATION



**6** new affiliated groups

## INTERNATIONAL JOURNAL EVIDENCE-BASED HEALTHCARE



**30%**  
increase in Journal traffic

**1.158**  
impact factor

## JB I SHORT COURSES



**115**  
EBCFP enrolments

**1224**  
CS RTP enrolments



# MESSAGE FROM THE EXECUTIVE DIRECTOR

JBIs remit has been clear since inception: to promote and support evidence-based healthcare globally. In 2019 we took action to deliver a simpler, smarter approach to ensuring we uphold our legacy and achieve our vision and mission. As we come to the end of one strategic plan and prepare to launch a new one, I am proud to reflect on the accomplishments achieved over the course of the last year. While not all of our ambitions were realised, many of our strategic goals were either met or made good progress.

I am pleased to report that we successfully negotiated a new research commercialisation agreement with Wolters Kluwer Health (WKH) this year. We are delighted to continue our partnership with WKH and we believe it will position us well to achieve our growth strategy moving forward. In 2019 WKH embarked on their new three-year strategy, Accelerating Our Value, designed to grow their expert solutions, advance their deep domain expertise and drive operational agility. This strategy aligns well with the direction of JBI, making them an ideal partner with whom to move forward.

Our fiscal position remained strong in 2019 despite limited opportunities for federal research funding. We continue to benefit from a solid commercial return from WKH (and favourable exchange rates with the US dollar) and postgraduate research degrees revenue. While we are seeking to increase our staffing complement in order to achieve our ambitious goals, our expenditure remained conservative. We have focused our financial investment this year on technology and ensuring our software development objectives are met.

By employing a focus strategy, reducing our portfolio of resources and placing an emphasis on quality, we have been able to concentrate our activities around those that align with our core business strengths and values. We have endeavoured to reduce the complexity of our business and processes to improve end-user experiences and better serve their needs. We firmly believe that this approach will help us to better support health professionals to deliver care based on the best available evidence and to improve outcomes. In line with this, and in close consultation with end users and our commercial partners, we launched a new product framework at the start of the year. This new framework streamlined our resources into three categories, namely, the JBI EBP Database, JBI Software Suite and JBI Journal Collection. We are excited about this new offering and believe that it provides a clearer articulation of our resources. By simplifying and modernising our resources (and our technology) we are also able to work in a more agile and responsive fashion, to mitigate potential risks, and to create more opportunities to innovate, making us a more resilient organisation moving into the future.

Our ties with our international partners remain strong and are as vital as ever to helping us achieve our collective vision and mission. The JBI Collaboration (JBIC) continues to be an exceptional illustration to others on the international stage of how best to conduct scholarly collaborative work to achieve common goals. The two words that depict this dedicated group now, after more than 20 years of evolution, are ‘sustainability’ and ‘impact’. The deep knowledge of this invaluable community of experts and their ability to support each other is impeccable.

We all came together at our annual general meeting in October in what can only be described as one of our most positive meetings ever. The enthusiasm with which the re-invigorated JBIC has embraced our new strategic direction was heartening. There is such energy across the collaboration and new vitality, drive and commitment to achieve our goals.

Our annual meeting was closely followed by the G-I-N & JBI 2019 Conference in Adelaide, ‘Trustworthy Evidence for Questions that Matter’. The newly expanded, state-of-the-art Adelaide Convention Centre provided the perfect backdrop for a highly sophisticated and engaging scientific program. It was a unique opportunity to bring together diverse perspectives on evidence-based healthcare, and the networking and thought-provoking discussion that was stimulated across the four days was both encouraging and inspiring. The organising committee and scientific committees of this event should be very proud of what was achieved.

As ever, I am indebted to the astonishing team around me in Adelaide who continue to energise me with their ideas and enthusiasm. Their fierce commitment to evidence-based healthcare and to working together as a team is truly inspiring. An experienced advisory committee also continued to guide our activity this year. Once again, this year they have diligently provided insight and guidance on our strategic direction, both scientifically and commercially, and I am very grateful to them for their wise counsel. To all of those who engage with us, as partners, collaborators, subscribers or students, I thank you also for your continued support.

“...WE ARE DELIGHTED TO CONTINUE OUR PARTNERSHIP WITH WKH AND WE BELIEVE IT WILL POSITION US WELL TO ACHIEVE OUR GROWTH STRATEGY MOVING FORWARD.”

Prof Zoe Jordan  
Executive Director, JBI



# JB I STRATEGIC PLAN UPDATE

JB I’s ultimate goal is to plan for a brighter future through better evidence in healthcare.

The current JBI strategic plan runs from 2016 to 2020. JBI’s four strategic platforms relate to continuing to develop our profile of scientific excellence, commercial sustainability and robust business operations, as well as fostering strong international partnerships to deliver on our shared goal: promoting the use of reliable research evidence to address some of the world’s most serious health challenges. At the end of our fourth year of activity, the majority of our KPIs are tracking well. Although some have evolved, we believe JBI is in a strong position and we are working hard to ensure our sustainability and academic, scientific and business competitiveness into the future. At a high level, our five-year goals per strategic platform are tracking well.

## PLATFORM 1: SCIENTIFIC & METHODOLOGICAL DEVELOPMENT

**Five-year goal:** JBI will have catalysed and supported the development of internationally recognised methodologies and methods in evidence synthesis and implementation and will be making demonstrable impact at the point of care.

### Year 4 highlights:

- JBI *International Journal of Evidence-based Healthcare* received an impact factor of 1.158.
- JBI *Database of Systematic Reviews and Implementation Reports* (JBISRIIR) became the first international periodical to regularly publish GRADE interactive Summary of Findings.
- Publication of two new online chapters in the JBI *Reviewer’s Manual*: JBI methodology for mixed methods systematic reviews and formal guidance for systematic reviews of measurement properties.
- Publication of the *JBI Manual for Evidence Implementation*.

## PLATFORM 2: INTERNATIONAL COLLABORATION

**Five-year goal:** JBI will have a strong, robust international collaboration and strategic partnerships with other external parties internationally that help advance the vision and mission.

### Year 4 highlights:

- Joint G-I-N & JBI Conference with 400+ participants.
- Six new JBI affiliated groups were established in India, Japan, Australia, Peru and the USA.
- Global Evidence Summit 2021 planning underway.
- Key participation/leadership from JBI staff within cognate partners (GRADE, Cochrane, G-I-N, NHMRC).

## PLATFORM 3: COMMERCIAL VIABILITY & SUSTAINABILITY

**Five-year goal:** JBI will have a sustainable business model that balances scientific goals and commercial interests and will be known for providing unique evidence-based solutions to key markets internationally.

### Year 4 highlights:

- Five-year research commercialisation agreement signed with Wolters Kluwer Health (WKH).
- New streamlined JBI product framework rolled out with WKH.
- 25% increase in Comprehensive Systematic Review Training Program enrolments globally compared to 2018.
- 10% growth in royalty revenue for the JBISRIIR journal compared to 2018.

## PLATFORM 4: ORGANISATIONAL CAPABILITY & CAPACITY

**Five-year goal:** JBI will have robust structures and systems to support both scientific and business requirements with strong leadership for today and the future.

### Year 4 highlights:

- New JBI website and JBI Global Wiki rolled out.
- New internal training management software rolled out.
- JBI PACES software redevelopment underway.
- New commercial releases of JBI SUMARI software and increased sales and users.





## OUR TEAM

### OFFICE OF EXECUTIVE DIRECTOR

**Executive Director**

Prof Zoe Jordan, BA, MA (Communication Studies), PhD

**Executive Assistant**

Jacque Teggerth

### GLOBAL RELATIONS DIVISION

**Global Relations Manager**

Bianca Pilla, BIntSt (Hons), MDevSt

**Partnership Coordinator**

Sarah Ravesteyn

**Administration Officers**

Pam Fletcher  
Michelle Koop

**Communications Designer**

Martin Williams, DipGD

**Communications Officer**

Heather McCulloch BA (Hons), GradDip Comm (PR), MBA

**Digital Engagement Assistant**

Carolyn Phillips

### SYNTHESIS SCIENCE DIVISION

**Director/Research Coordinator**

Assoc Prof Edoardo Aromataris, BSc (Hons), PhD

**Senior Research Fellow**

Dr Cindy Stern, BHSc (Hons), PhD

**Managing Editor**

Dagmara Riitano BA, BHSc (Hons), MSc

**Editorial Officers**

Siang Tay, BA (Hons)  
Mara Lambert

**Administration Officer/Editorial Assistant**

Pam Fletcher

### TRANSFER SCIENCE DIVISION

**Director**

Assoc Prof Zachary Munn, BMedRad, GradDip HlthSc, PhD

**Senior Research Fellow**

Alexa McArthur, RN, RM, CN, MPH

**Research Fellow**

Dr Timothy Barker, BSc (Hons), PhD

**Training and Events Coordinator**

Effie Minnema

**Administration Officer**

Judy Palmer

**Digital Delivery Manager**

Michael Marriott, BEng (CSE) (Hons)

**Information Management Officer**

Sarah Silver

### IMPLEMENTATION SCIENCE DIVISION

**Director**

Assoc Prof Craig Lockwood, RN, BN, GradDipClinNurs, MNSc, PhD

**Senior Research Fellow**

Dr Kylie Porritt, RN, MNSc, PhD

**Research Fellows**

Dr Aye Aye Gyi, MBBS, MMedSc, MPhil, PhD

Dr Lucylynn Lizarondo, BPhysio, MPhysio, MPsy, PhD

Tania Marin BHSc, MPH

Dr Matthew Stephenson, BSc (Hons), PhD

Dr Ashley Whitehorn, BAppSc, BHLthSc (Hons), PhD

Dr Sana Ishaque, MBBS, MSc (Clinical Epi), PhD

**Program Coordinator**

Alex Mignone, BSocSc, DipLaw

**Administration Officer**

Kim Dell, BHLthSc

# GOVERNANCE

JBI is advised on governance matters by the JBI Advisory Committee that is appointed by and accountable to the Executive Dean, Faculty of Health and Medical Sciences, the University of Adelaide.

The primary role of the JBI Advisory Committee is one of advice and support to the Executive Director on governance, budgeting strategy, monitoring and planning matters.

JBI's day-to-day management and organisational operations rest with the Executive Director, who in turn delegates functional responsibilities to Directors, other staff and volunteers.

### JBI Advisory Committee

**Chair:** Scott Williams

**Minute Secretary:** Sarah Ravesteyn

**Members:** Prof Alastair Burt, Alastair McDonald, Dr Andrew Holsman, Prof Bridie Kent, Prof Chris Baggoley, Prof Ian Graham, Phillip Pledge, Prof Zoe Jordan (ex-officio)

**Meetings:** Two face-to-face meetings annually

**Reporting to:** Executive Dean, Faculty of Health and Medical Sciences

### JBI Collaboration Committee of Directors

**Chair:** Prof Zoe Jordan

**Minute Secretary:** Sarah Ravesteyn

**Members:** Executive Director (Chair), JBI Division Directors and all Directors of JBIC Centres of Excellence

**Meetings:** Twice per year – once via teleconference plus one face-to-face meeting that alternates between Adelaide and the location of the biennial colloquium

**Reporting to:** JBI Executive Committee

### JBI Executive Committee

**Chair:** Prof Zoe Jordan

**Minute Secretary:** Jacque Teggerth

**Members:** Assoc Prof Craig Lockwood, Assoc Prof Edoardo Aromataris, Assoc Prof Zachary Munn, Bianca Pilla

**Meetings:** Weekly

**Reporting to:** Executive Dean, Faculty of Health and Medical Sciences

### Postgraduate Research Degrees Committee

**Chair:** Assoc Prof Craig Lockwood

**Minute Secretary:** Alex Mignone

**Members:** JBI academic staff who are supervising postgraduate research degree candidates

**Meetings:** Every eight weeks

**Reporting to:** Faculty of Health and Medical Sciences, Course and Program Approval Committee

### Research Committee

**Chair:** Assoc Prof Edoardo Aromataris

**Minute Secretary:** Amanda Wright

**Members:** The Executive Director, JBI Division Directors, all JBI academic staff, rotating memberships of project leaders

**Meetings:** Every eight weeks

**Reporting to:** Faculty of Health and Medical Sciences Research Committee

### JBI Scientific Committee

**Chair:** Assoc Prof Zachary Munn

**Minute Secretary:** Pam Fletcher

**Members:** Executive Director; JBI Division Directors; Editor in Chief of JBI Database of Systematic Reviews and Implementation Reports; one member elected by the Synthesis Science Division, Implementation Science Division, and Transfer Science Division; one JBI Collaboration Director (or nominee) elected by the each of the JBIC regions, i.e. Africa, Americas, Asia, Australasia, Europe; Convenors or Chairs from methodology working groups.

**Meetings:** Quarterly

**Reporting to:** JBI Scientific Programs, JBI Collaboration.



# GLOBAL REACH

THE JBIC IS THE LARGEST GLOBAL COLLABORATION TO INTEGRATE EVIDENCE-BASED HEALTHCARE WITHIN A THEORY-INFORMED MODEL THAT BRINGS TOGETHER ACADEMIC ENTITIES WITH HOSPITALS AND HEALTH SYSTEMS.

6

NEW GROUPS

36

CENTRES OF EXCELLENCE

34

AFFILIATED GROUPS

## JBIC COLLABORATION

The JBI Collaboration (JBIC) has existed since 1996 and has grown from a small group of seven centres to 70 collaborating entities across 36 countries. The JBIC consists of JBI Centres of Excellence and Affiliated Groups that are driven by a united desire to contribute to improvements in the quality and outcomes of healthcare globally through the delivery of high-quality programs of evidence synthesis, transfer and implementation.

In 2019 we welcomed six new groups from India, Japan, Australia, Peru/Colombia/Chile and the USA to the JBIC. We are proud to acknowledge 36 Centres of Excellence and 34 Affiliated Groups as a part of the global JBI family. The 62nd JBIC meeting was held in Adelaide, Australia, alongside the joint G-I-N and JBI Conference, where we met with 85 JBIC Directors, Convenors and Staff to plan the way forward for 2020.

The focus of the two-day meeting was on **Extending** our Collaboration and Impact, **Expanding** our Programs, **Embracing** Greatness, **Exchanging** Ideas, and **Exploding** in 2020. The meeting was very much future focused, preparing for a new JBI strategic plan and rebranding and relaunching JBI and the JBIC in 2020.

Directors and Convenors from across all five regions of the JBIC shared their experiences and expertise on collaboration at the local, national and regional level in partnership with other JBIC entities and government bodies to generate impact in evidence-based healthcare.

Four collaborating entities from Japan, Singapore, Czech Republic and Myanmar celebrated five and 10 years of partnership with JBI in 2019.







**157**  
**PARTICIPANTS TRAINED**



**AFRICA**

The JBI African region consists of six JBI Centres of Excellence and Affiliated Groups in five countries.

The JBI African region consists of six JBI Centres of Excellence and Affiliated Groups in five countries that are working to produce and use better evidence across Africa by conducting systematic reviews, evidence implementation, primary research as well as working with collaborative networks to improve health outcomes. Professor Morankar Sudhakar from Ethiopia was active as the Regional Chair in 2019.

#### Regional JBIC Activity Matrix Outputs

- Trained 157 participants in JBI's Comprehensive Systematic Review Program.
- Three JBI systematic reviews accepted for publication in the JBI Database of Systematic Reviews and Implementation Reports (JBISRIR).
- Mentored two prospective JBI Collaborating Entities in two countries.

#### Regional Highlights

- Delivered multiple JBI methodology workshops across three countries.
- Promoted the JBI approach to evidence-based healthcare through presentations at numerous regional and international conferences.

#### AFRICA ENTITIES

<b>Cameroon</b>	- Yaounde - Bamenda
<b>Ethiopia</b>	- Jimma
<b>Ghana</b>	- Kintampo
<b>Kenya</b>	- Nairobi
<b>South Africa</b>	- Johannesburg



**334**  
**PARTICIPANTS TRAINED**



**AMERICAS**

The JBI Americas region consists of 16 JBI Centres of Excellence and Affiliated Groups in seven countries.

The JBI Americas Regional Group comprises 16 North, Central and South American JBI Centres of Excellence and Affiliated Groups in seven countries. Its purpose and aims are to develop an Americas community of practice to generate knowledge through the science of evidence synthesis and to promote uptake of this evidence in clinical practice. Dr Christina Godfrey from Canada was active as Regional Chair in 2019.

#### Regional JBIC Activity Matrix Outputs

- Trained 309 participants in JBI's Comprehensive Systematic Review Training Program and 25 in JBI's Evidence-based Clinical Fellowship Program.
- Nine JBI systematic reviews and two JBI implementation reports accepted for publication in the JBISRIR.
- Mentored six prospective JBI collaborating entities in two countries.

#### Regional Highlights

- Held a JBIC Americas regional face-to-face meeting and a Clinical Inquiry Conference that showcased the work of JBI Clinical Fellows and JBI methodology in San Francisco, USA.
- The Brazilian Centre for Evidence-based Healthcare held a conference celebrating 10 years as a JBI Centre of Excellence and member of the Americas Region, including the TED Talk: Implementation Evidence in Health, and a Round Table: Sharing Best Practices in Nursing.
- Co-Led JBI Library and Information Science Network.
- Co-delivered JBI's Comprehensive Systematic Review Training Program across countries and region.
- Six entities worked together on 'Predatory journals and publishers: Validation of a published checklist for evaluating research papers for inclusion in scoping reviews' paper presented at G-I-N & JBI 2019 Conference in Adelaide, Australia.

#### AMERICAS ENTITIES

<b>Brazil</b>	- São Paulo
<b>Canada</b>	- Halifax - St. John's - Kingston - Saint John - British Columbia
<b>Costa Rica</b>	- San Jose
<b>Peru/Colombia/Chile</b>	- Lima

<b>USA</b>	- Downers Grove IL - New Orleans LA - Newark NJ - Hammond IN - Chicago IL - Fort Worth TX - San Francisco CA - Jackson MS - Stanford CA
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The JBI Asia Regional Group comprises 20 JBI Centres of Excellence and Affiliated Groups in eight countries. Their purpose and aims are to strengthen the networking relationships between Asian collaborating entities and to share experiences and strategies to integrate varied streams of evidence into culturally different healthcare settings. Dr Siti Zubaidah bte Mordiffi from Singapore was active as Regional Chair in 2019.

Regional JBIC Activity Matrix Outputs

- Trained 37 participants in JBI’s Comprehensive Systematic Review Training Program and 11 in JBI’s Evidence-based Clinical Fellowship Program.
- 14 JBI implementation reports accepted for publication in the JBISRIR.
- Worked with six clinical partners on JBI evidence implementation projects in three countries.

Regional Highlights

- Planning for the 11th Biennial JBI Colloquium Shanghai.
- Taiwan Evidence Based Practice Centre Project funded by the Taiwanese government on Evidence Transfer and Evidence Implementation in long-term care, including the development of 10 evidence-based guidelines with implementation strategies that linked to education programs, based on the JBI approach to evidence-based healthcare.
- Co-delivered JBI’s Comprehensive Systematic Review Training Program across countries and region.
- Delivered workshops, seminars and online education regarding the JBI approach to evidence-based healthcare; and collaborated and engaged with a range of clinical partners in the JBI approach to evidence-based practice.

ASIA ENTITIES

India	- Gujarat	Singapore	- Singapore x2
	- Kerala		
	- Andhra Pradesh		
Japan	- Osaka	Taiwan	- Taipei
	- Otamae Hyogo	Thailand	- Chiang Mai
	- Chiba		- Udon Thani
Korea	- Seoul		
Myanmar	- Yangon x2		
PR China	- Beijing x2		
	- Shanghai x2		
	- Qingdao		
	- Guangzhou x2		

The Australasia Group (TAG) is comprised of six JBI collaborating entities located in universities and hospitals around Australia. The regional group is guided by principles of mutual assistance and support for the collaboration as a whole. The regional group meets via teleconference every two months and once a year in person at the annual JBI/JBIC Convention or Colloquium event. Dr Kate Kynoch from Queensland, Australia, and Dr Rick Wiechula from Adelaide, Australia, were active as Regional Co-Chairs in 2019.

Regional JBIC Activity Matrix Outputs

- Trained 150 participants in JBI’s Comprehensive Systematic Review Training Program.
- Seven JBI systematic reviews accepted for publication in the JBISRIR .
- Mentored four prospective JBI collaborating entities in two countries.

Regional Highlights

- JBIC-TAG held their inaugural JBIC Australasian Regional Symposium at St George Hospital, Sydney, hosted by the Centre for Evidence Based Initiatives in Healthcare: A JBI Centre of Excellence.
- Members of JBIC-TAG continue to work on a collaborative project: Capacity to undertake systemic reviews: a national survey of health academics.

AUSTRALASIA ENTITIES

Australia	- Adelaide
	- Sydney
	- Brisbane
	- Perth
	- Wollongong
	- Alice Springs





## EUROPE ENTITIES

<b>Belgium</b>	- Leuven	<b>Norway</b>	- Ås
<b>Czech Republic</b>	- Olomouc	<b>Portugal</b>	- Coimbra
<b>Denmark</b>	- Aarhus	<b>Romania</b>	- Bucharest
<b>England</b>	- London	<b>Scotland</b>	- Aberdeen
	- Nottingham	<b>Spain</b>	- Madrid
	- Middlesbrough	<b>Switzerland</b>	- Lausanne
	- Plymouth	<b>Wales</b>	- Cardiff
<b>Finland</b>	- Helsinki		
<b>Iran</b>	- Tabriz		
<b>Ireland</b>	- Dublin		
<b>Italy</b>	- Rome		

# EUROPE

The JBI European region consists of 18 JBI Centres of Excellence and Affiliated Groups in 15 Countries

The European Regional Group held its inaugural meeting in Antwerp in April 2012. The establishment of the group was supported and encouraged by our late colleague Dr Yash Kumarasamy, Senior Lecturer in Pharmacy at Robert Gordon University. The broad aims of the European Regional Group are to:

- i. develop a coherent and strong regional presence within the JBIC;
- ii. develop peer support and working partnerships among European entities to support and extend JBIC collaborative activity;
- iii. pool expertise and resources to pursue appropriate research, evidence synthesis and implementation activity, including funded projects; and
- iv. coordinate regional responses to issues raised by JBI.

Dr Judith Carrier from Wales was active as Regional Chair in 2019.

## Regional JBIC Activity Matrix Outputs

- Trained 166 participants in JBI's Comprehensive Systematic Review Training Program and 48 in JBI's Evidence-based Clinical Fellowship Program.
- Eight JBI systematic reviews and three JBI implementation reports accepted for publication in the JBISIR.
- Worked with six clinical partners on JBI evidence implementation projects in four countries.
- Mentored one prospective JBI collaborating entity.

## Regional Highlights

- In May 2019, the Wales Centre for Evidence Based Care hosted a week-long series of events and training for the JBIC European region from 15 countries, including the JBIC European Symposium: Think Globally, Act Locally, with 150 attendees; a realist synthesis workshop; the annual regional European Directors' meeting at Cardiff University; and the JBI Train-the-Trainer: Comprehensive Systematic Review Training Program and Train-the-Trainer: Evidence-based Clinical Fellowship programs.
- Entities from the Czech Republic, Wales, Spain, Portugal and Romania were successful in achieving funding from

ERASMUS for their Strategic Partnership in Innovation and Development of Evidence-Based Healthcare, or SPIDER project, focusing on JBI evidence implementation training and evidence-based practice projects across the five countries.

- The Lausanne University Hospital received JBI endorsement for its commitment to evidence-based healthcare, continuous quality improvement and capacity building for healthcare staff.
- The Scottish Centre of Excellence is working with the Scottish Intercollegiate Guidelines Network (SIGN) using JBI methodology to include qualitative research findings in SIGN guidelines.







# PHILANTHROPY

In 2019, JBI's Philanthropic Program focused on empowering health professionals from Papua New Guinea to become agents of change by implementing evidence-based healthcare to address serious health challenges and improve healthcare practice and patient outcomes.



## Empowering midwives to lead change in PNG

JBI and Australia Awards worked together to address Papua New Guinea's high maternal mortality.

JBI's Assoc Prof Zachary Munn, Alexa McArthur and Dr Lucylynn Lizarondo travelled to Papua New Guinea in March and June to deliver a specially tailored JBI Clinical Leadership Workshop for 100 midwifery alumni of Australia Awards scholarships. These scholarships for midwives aim to build capacity in the next generation of global leaders to lead and implement change to improve health outcomes for mothers and newborns.

JBI was selected by Australia Awards to help prepare the 100 graduates to reintegrate within local communities and health services by delivering the two-day, evidence-based Clinical Leadership Workshop. The specially tailored workshop provided participants with practical techniques to lead initiatives related to implementing evidence-based approaches to healthcare and achieving change. In particular, the workshop was designed to equip participants to take on the role of an active agent for change, while always being cognisant of their available resources, team culture and current best practice.

Many of the midwifery graduates work in very remote areas of Papua New Guinea, which has one of the highest maternal mortality ratios in the Asia Pacific region with an estimated 733 maternal deaths per 100,000 live births.

The work the graduating midwives will perform after having been prepared and empowered to initiate and lead change to improve health outcomes for mothers and newborns is crucial.

## JBI Evidence-based Clinical Fellowship Program – PNG Clinical Fellows

JBI's Philanthropic Program supported seven health professionals (doctors, midwives, a pharmacist and a physiotherapist) from Papua New Guinea to participate in JBI's Evidence-based Clinical Fellowship Program in Adelaide, Australia. The scholarship winners were selected from a field of applicants following a merit-based selection process. The six-month scholarship program included travel and accommodation in Adelaide to attend two weeks of intensive training and to work closely with JBI staff.

In 2019, the seven health professionals completed the first week of intensive training to learn about evidence-based healthcare and to be equipped with the knowledge and skills to implement evidence into practice in their work settings. Importantly, these health professionals developed the communication and leadership skills required to instigate and sustain practice change to improve health outcomes in their communities.

The first week of training in Adelaide concluded with each participant presenting the outline of their evidence implementation project to JBI staff, students and visiting scholars. The participants reported some of the unique challenges and potential threats to evidence-based healthcare in PNG, including lack of financial resources (e.g. lack of transportation to access care, particularly in rural areas), health system constraints (e.g. limited supplies and human resources) and the cultural beliefs of patients.

Projects include eliminating avoidable complications and deaths resulting from inaccurate fluid balance management in a 28-bed surgical ward in the remote highlands; prevention of mother-to-child transmission of HIV among pregnant women; and tuberculosis treatment. Some of the participants are based at the only referring facility in the Eastern Highlands Province, which covers 11,157km<sup>2</sup>, and will be investigating why the number of defaulting patients is so high and increasing.





# JBI ENDORSEMENT

JBI endorsement is a recognition awarded to healthcare organisations that demonstrate commitment to evidence-based healthcare and an organisational-wide culture of innovation and excellence.

In 2019, Hospital Universitário da Universidade de São Paulo in Brazil joined JBI's elite group of endorsed organisations, which include Liverpool Hospital and Mater Health in Australia, Zhongshan Hospital in PR China and Lausanne University Hospital in Switzerland. All five organisations achieved full JBI endorsement status, indicating their commitment to evidence-based healthcare and continuous quality improvement.

Driven by a set of quality standards, the JBI Endorsement Program helps organisations drive performance and demonstrate their credibility to patients, clients, healthcare practitioners and other relevant stakeholders.

During the year, these health organisations have shared their experiences with JBI, describing how the JBI Endorsement Program has shaped or improved the quality of their healthcare delivery. In Liverpool Hospital, the JBI Endorsement Program provides a framework for nursing services to undertake hospital-wide quality initiatives on topical issues, including the management of challenging behaviour in the acute and mental health setting, pressure injury prevention, and carer engagement. The hospital utilises a collaborative approach to undertake hospital-wide quality improvement activities, which has empowered nurses by creating a forum for professional development, networking and mentoring.



DRIVEN BY A SET OF QUALITY STANDARDS, THE JBI ENDORSEMENT PROGRAM HELPS ORGANISATIONS DRIVE PERFORMANCE AND DEMONSTRATE THEIR CREDIBILITY TO PATIENTS, CLIENTS, HEALTHCARE PRACTITIONERS AND OTHER RELEVANT STAKEHOLDERS.



For Mater Health, the JBI Endorsement Program provides a number of capacity building opportunities to produce, integrate and implement research evidence into clinical care, and develop staff knowledge and skills in evidence implementation and quality improvement.

Zhongshan Hospital capitalises on researcher-manager-health practitioner collaboration for their JBI Endorsement Program to achieve positive changes in service delivery in areas of critical care, cardiac care and surgical services.

The nursing department of Lausanne University Hospital focuses on hospital-identified priority areas for their evidence implementation activities.

These include pressure ulcer prevention in operating theatres, aggressive behaviour management in patients with dementia in the acute geriatric unit, nursing assessment of admitted patients in the traumatology ward, and caregiver education needs.

More recently, the Hospital Universitário da Universidade de São Paulo in Brazil has been granted full JBI endorsement. In partnership with the Brazilian Centre for Evidence-based Healthcare, the University Hospital has robust processes for undertaking evidence implementation activities, focusing on the development of nursing protocols in critical areas of care.

Through this collaboration, every healthcare professional in the hospital is provided access to a wide range of evidence-based practice tools and resources designed for use at the point of care.

For 2020, JBI will continue to conduct extensive consultations with its collaborating entities, JBI-endorsed organisations and other relevant stakeholders to inform substantive developments in the JBI Endorsement Program, which JBI will continue to build to ensure healthcare organisations have a worthwhile and rewarding experience.





# GROUPS WE WORK WITH

In order to achieve sustainable outcomes in global health, a global commitment to the sharing of knowledge and resources through international partnerships is critical.

## JB Adelaide GRADE Centre

The JBI Adelaide GRADE Centre continued to achieve new milestones in its educational offerings, support work and implementation of GRADE methods in JBI systematic reviews. The JBI Adelaide GRADE Centre provides training, methods support, consultancy, methods research and a forum to discuss GRADE advances in the Australasia region and with the JBI Collaboration.

In 2019 the Centre hosted the GRADE Working Group meeting to coincide with the G-I-N & JBI 2019 Conference in Adelaide in November. The event was a success, with vigorous and riveting discussions regarding new proposals from the GRADE Working Group.

The Centre launched a new website (<https://jbi.global/grade>) containing detailed information regarding the work of the centre, links to relevant resources and information on how to engage with their work.

In 2019, not only was there an increased uptake of GRADE Summary of Findings in JBI systematic reviews, the Centre also helped JBI launch interactive Summary of Findings in the JBI Database of Systematic Reviews and Implementation Reports (JBSRIR), one of the first journals to implement this as an editorial requirement.

Finally, in addition to continuing to run the popular one-day GRADE workshops, the Centre undertook consultancy and methodological support work with guideline development groups in Australia. The Centre staff members also continue to engage with the GRADE Working Group project groups, with all Centre staff contributing to one or more of these groups, helping to advance GRADE approaches.

## Guidelines International Network (G-I-N)

Guidelines International Network and JBI partnered to deliver the premier event in 2019 for evidence-based healthcare and evidence-based guidelines for healthcare, hosted by the University of South Australia. The theme was 'Trustworthy evidence for questions that matter: The value of guidelines in 21st century healthcare'. The event hosted over 400+ people from more than 40 countries at the world-class Adelaide Convention Centre alongside Adelaide's innovative BioMedical precinct.

## Global Evidence Summit 2021

Following the success of the inaugural Global Evidence Summit in Cape Town in 2017, four global leaders in evidence-based policy and practice will again join forces to deliver the second Global Evidence Summit in Prague, Czech Republic, in 2021. The Global Evidence Summit is a quadrennial event that brings together some of the world's leading organisations in evidence-based practice in a shared mission to provide a platform to discuss critical issues across different sectors, including health, education, social justice, the environment and climate change.

The Global Evidence Summit is intended as a multi-disciplinary and cross-cultural event to exchange ideas about how to best produce, summarise and disseminate evidence to inform policy and practice, and use that evidence to improve people's lives across the world. Cochrane, the Campbell Collaboration, Guidelines International Network and JBI hope the second Global Evidence Summit will build on the successes of Cape Town to advance the use of reliable research evidence in addressing some of the world's most serious health, social and climate challenges.

The GES2021 program will aim to promote shared learning and collaboration across all partner organisations and summit participants through integrated evidence-based practice 'program domains' and intersecting disciplinary/sectoral themes.

## Cochrane Nursing Care Field

Led and managed by JBI, in 2019 the Cochrane Nursing Care Field (CNCF) successfully produced and published 81 high quality 'Cochrane Corner' columns based on current Cochrane reviews, which featured internationally in the CNCF's collaborating nursing journals. This is a significant contribution to nursing knowledge and the CNCF's existing body of dissemination work.

The CNCF renewed publication agreements with all its collaborating journals, including high impact periodicals such as the *American Journal of Nursing*, *The International Journal of Nursing Studies* and *The International Journal of Nursing Practice*.

In 2019, a series of activities was initiated, including establishing translation agreements with journals in Spain, Portugal and Israel; establishing a team to develop video commentary based on published Cochrane Nursing columns; and establishing a team to update Wikipedia with references to Cochrane evidence.

The Cochrane Central Executive Team continues to endorse and support the work of the CNCF and its members as a valuable contribution to evidence-based nursing and a substantive influencer in Cochrane.



The JBI Solution Room was held for the second time on 4 April 2019 following the success of the first symposium in 2018. It provided a strategic opportunity for JBI to engage with key stakeholders in South Australia's health sector.



The JBI Solution Room is unique in that it is designed to be highly interactive. Attendees are equipped with practical solutions to their challenges around getting evidence into practice in their own settings. A Q&A session with a panel of experts, networking opportunities for one-

on-one discussions with the experts, and a series of short presentations focusing on solutions comprises the half-day event.

April's JBI Solution Room filled to capacity at the National Wine Centre in Adelaide, and was attended by clinicians, academics, policy makers and researchers representing a cross-section of Adelaide's health sector.

Ms Jennifer Hurley, Chief Nurse and Midwifery Officer at SA Health, opened the event and encouraged guests to speak up and use their influence as healthcare professionals to be innovative and to champion research translation.

The panel of experts at 2019's JBI Solution Room included Professor Ian Olver representing the University of South Australia; Professor Bridie Kent from University of Plymouth, UK; and Dr Elizabeth Lynch from the University of Adelaide.

A number of short presentations focusing on practical solutions to challenges in getting evidence into practice from first-hand experience supported the event's solutions-driven theme. Presenters included Wendy Keech, Chief Executive Officer, Health Translation SA; and JBI Clinical Fellows Sylvia John, Registered Nurse (RN) from Papua New Guinea; Natalie Skinner, Dietitian from Hampstead Rehabilitation Centre; and Robyn Welsh, Nursing Consultant from RN Delegation of Care Program.

JBI plans to expand the JBI Solution Room concept globally by coordinating a series of local events hosted across the globe.



# G-I-N & JBI 2019 CONFERENCE

Healthcare professionals, policymakers and researchers from around the globe gathered in Adelaide from 30 October to 2 November 2019 to help shape the future of evidence-based healthcare and evidence-based guidelines for healthcare at the G-I-N & JBI 2019 Conference.

Guidelines International Network (G-I-N) and JBI partnered for the first time to deliver the conference, which was hosted by the University of South Australia. The conference, themed ‘Trustworthy evidence for questions that matter: The value of guidelines in 21st century healthcare’, drew more than 300 delegates and comprised pre-conference workshops and a three-day scientific program.

The conference agenda considered the big questions: Can we trust guidelines that are developed from big data and artificial intelligence? What of the ‘human factor’ when it comes to developing relevant and trustworthy guidelines for healthcare?

The Adelaide Convention Centre, with its expansive views of the River Torrens, was the central meeting point for conference delegates who represented more than 40 countries.

The scientific committee, chaired by Professor Ian Olver from The University of Adelaide and Associate Professor Zachary Munn from JBI, developed the scientific program, which was aligned with the conference theme. The content was diverse but cohesive, seamlessly integrating topics relevant to both G-I-N and JBI stakeholders.

The scientific program commenced with the opening plenary, ‘Clinical guidelines in 21st century healthcare: Extinction or evolution?’ with Professor Davina Ghera from the National Health and Medical Research Council (NHMRC). Professor Jako Burgers of Maastricht University, the Netherlands, then presented on the need for promoting personalised care and appropriate guideline use, followed by Professor Allison Tong from the University of Sydney, who highlighted the role of patients and consumers in guideline development.

In addition to three plenaries, the scientific program comprised a series of workshops, short and long oral presentations and carefully selected special sessions. The inclusion of the special sessions added exceptional quality to the G-I-N & JBI 2019 scientific program. These sessions included ‘Revealing the “black box” of guideline development’ with G-I-N board members Professor Ina Kopp and Duncan Service, and ‘Advances in GRADE methodology’ with lead Professor Holger Schünemann. Also included in the impressive offering of special sessions was ‘Evolving methods of evidence synthesis’ with lead Dr Andrea Tricco.

The closing plenary saw the launch of JBI’s promotion campaign for the 11th Biennial JBI Colloquium which was scheduled to be held in Shanghai in 2020.

Platinum Sponsor: Wolters Kluwer Health | Silver Sponsor: University of South Australia | Friends: Guideline Central, | Health Translation SA





EDUCATION

EVIDENCE-BASED CLINICAL FELLOWSHIP PROGRAM

For the first time in 2019, the Evidence-based Clinical Fellowship Program (EBCFP) was conducted in Iran, increasing the number of entities around the world hosting this program to 10.



The EBCFP is a six-month program designed for participants to engage in processes to further develop their leadership skills, conduct clinical audits, and develop and execute strategies to implement evidence-based practice in their own work environment.

Train-the-Trainer programs

JBIs Train-the-Trainer programs are designed to enable JBI Collaborating Entity staff around the world to become accredited trainers to deliver the CS RTP and EBCFP in a manner that maintains consistency, delivers excellence in the teaching and learning processes employed, and helps ensure that trainers uphold the reputation and standing of JBI.

EBCFP REGISTRATIONS 2019	
JB	31
Brazil EBHC Sao Paulo	14
Iran EBM Tabriz	14
Romania Public Health Bucharest	6
Singapore NUH	3
Spain EBNHC Madrid	7
USA LSUHSC Louisiana	7
USA UCSF San Francisco	4
Switzerland BEST Lausanne	21
Taiwan EBP Taipei	8
Total registrations	115

TRAIN-THE-TRAINER REGISTRATIONS 2019	
Train-the-Trainer: CS RTP	18
Train-the-Trainer: EBCFP	21
Total registrations	39



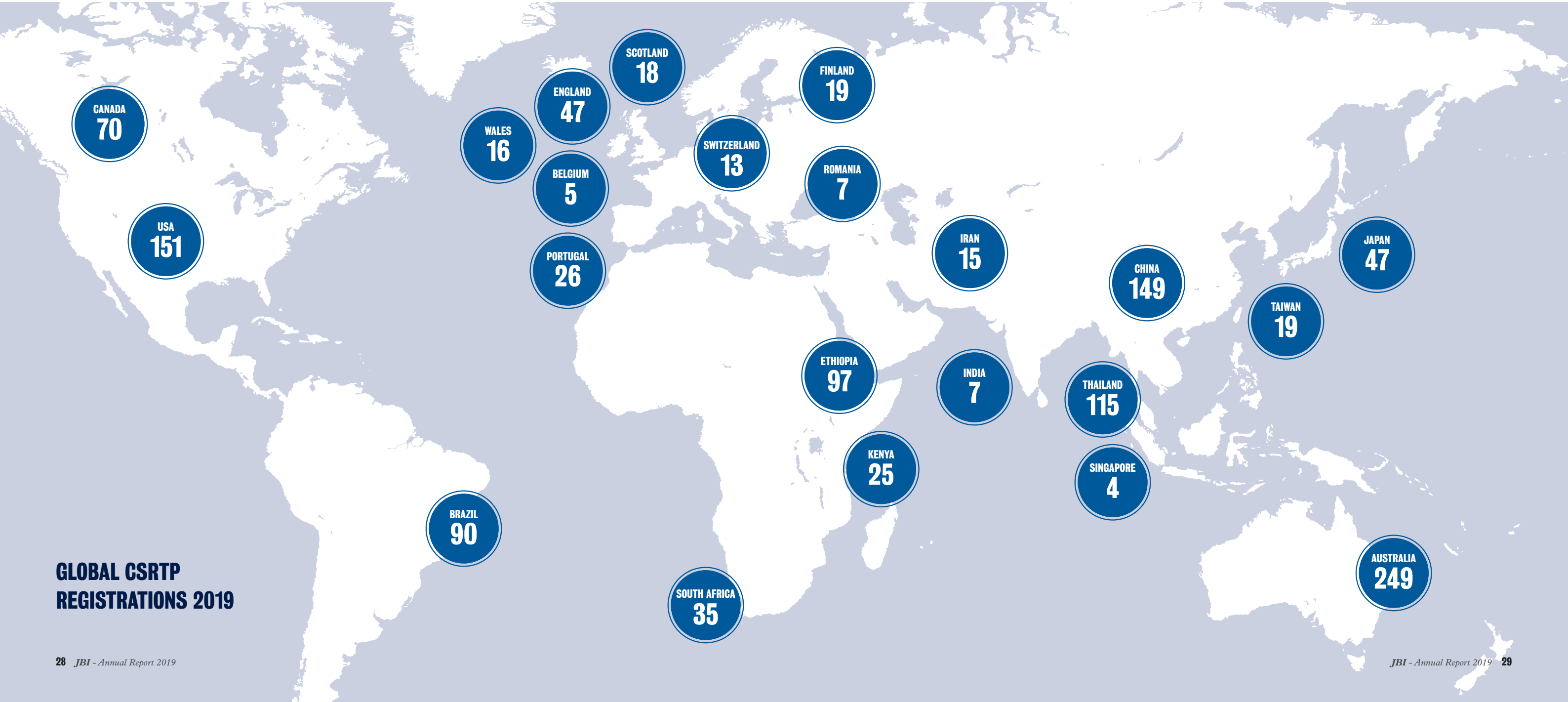
# COMPREHENSIVE SYSTEMATIC REVIEW TRAINING PROGRAM

The Comprehensive Systematic Review Training Program (CSRTP) was held in 22 countries in 2019, with total global enrolments increasing by 25% from 986 in 2018 to 1224 in 2019.

The CSRTP is a one-, three- or five-day program that prepares researchers and clinicians to develop, conduct and report robust, high quality systematic reviews of different evidence types in order to provide the strongest possible evidence to inform decision-making or clinical guideline development in healthcare.

## CSRTP REGISTRATIONS 2019

JBIC	124	Finland EBHC Helsinki	19	South Africa Wits JHB	35
Australia CEPSC SA	19	India EBEHC Gujarat	7	Switzerland BEST Lausanne	13
Australia CRH NT	8	Iran EBM Tabriz	15	Taiwan EBP Taipei	19
Australia EBHC NSW	54	Japan EBP Chiba	9	Thailand EBHC Chiang Mai	115
Australia Nursing Midwifery QLD	33	Japan EBP Osaka	19	USA LSUHSC Louisiana	10
Australia Wollongong NSW	11	Japan KOBÉ Hyogo	8	USA NEST New Jersey	37
Belgium BICEP Leuven	5	Japan Otamae Hyogo	11	USA Nursing Indiana	15
Brazil EBHC Sao Paulo	90	Kenya ARA Nairobi	25	USA TR Texas	18
Canada Aligning Health NS	18	Portugal EBP Coimbra	26	USA Truro Nevada	2
Canada Queens Ontario	33	PR China Peking Uni BJ	77	USA UCSF San Francisco	10
Canada Uni Victoria BC	19	PR China Southern Guangzhou	72	USA UMMC Mississippi	59
England EBHC Nottingham	25	Romania Public Health Bucharest	7	Wales EBC Cardiff	16
England IHSC Plymouth	22	Scotland EBMPP Aberdeen	18		
Ethiopia EBHC Jimma	97	Singapore NUH	4	<b>Total registrations</b>	<b>1224</b>



GLOBAL CSRTP REGISTRATIONS 2019



# POSTGRADUATE RESEARCH DEGREES

## Master of Clinical Science and Doctor of Philosophy

### Research schools

Two one-week Research Schools were held for all current Postgraduate Research Degree students and University of Adelaide academic staff. The objective of JBI's Research Schools is to create a forum for health professionals and researchers to pursue their degree within a multidisciplinary context and achieve a depth of learning and experience that is more comprehensive than a singular focus on their own topic area and methods. In addition to JBI academic staff- and student-led presentations, the 2019 Research Schools featured guest presenters, including:

**Professor Ross McKinnon:** Matthew Flinders Distinguished Professor; Dean (Research), College of Medicine and Public Health, Flinders University; Beat Cancer Professor in Cancer Research, Flinders Centre for Innovation in Cancer; Vice-President, International Pharmaceutical Federation

Speaking on topic: 'Optimising medicines in cancer – establishing translational pathways to accelerate impact'

**Wendy Keech:** CEO of Health Translation SA; Senior Research Translation Manager, South Australian Health and Medical Research Institute (SAHMRI)

Speaking on topic: 'Health research in South Australia and translating that research into practice, the SA health system, policy development and research funding'

**Susanna Proudman:** Rheumatology Unit Director, Royal Adelaide Hospital

Speaking on topic: 'What are the strategies for knowledge translation?'

**Kelli Borges Dos Santos:** Adjunct Professor, the Faculty of Nursing, Federal University of Juiz de Fora

Speaking on topic: 'Survey design: methods and issues'

### Student activities

#### App developed for the treatment of burns and related scarring

Master of Clinical Science student, Tanja Klotz featured on Channel 7 News, Australia, in relation to an app she helped develop at the Royal Adelaide Hospital for monitoring the progress of patient burns and scars. The app has proven so successful it is now being considered for implementation in hospitals overseas.

#### Student Paramedics Australasia International Conference (SPAIC2019)

Master of Clinical Science student, Hilding Hanna, and PhD student, Marc Colbeck presented posters at SPAIC2019.

#### 2019 Australian Society for Medical Research (ASMR) Conference

Master of Clinical Science student, Nuwan Dharmawardana presented his JBI research study titled 'Diagnosis and management of unknown primary metastatic head and neck SCC' and was awarded People's Choice Poster Presentation Award.

#### 2019 Australian Society for Medical Research (ASMR) SA Scientific Meeting

Master of Clinical Science student, Sophie Tiley presented her JBI research study titled 'Early pregnancy loss and health professional perceptions of care'.

#### 22nd Asia-Australasia Conference of Radiological Technologists (AACRT) 2019

Master of Clinical Science student, Caitlin Steffensen presented her paper 'Development of a tailored critical appraisal tool for studies of image quality' and her study was awarded the prize for best medical imaging paper.

#### 15th Florey Postgraduate Research Conference

Master of Clinical Science student, Sophie Tiley, and PhD student, John Oppio presented posters. Sophie Tiley was the recipient of the JBI student award.

#### Visualise Your Thesis 2019

Master of Clinical Science student, Shannon Barnes was awarded second-place prize for her video on grief experienced by paediatric health professionals.

#### Paramedics Australasia International Conference: Broadening Horizons

Master of Clinical Science student, Hilding Hanna presented a poster at the conference.



**IN 2019, THE JBI POSTGRADUATE RESEARCH DEGREES PROGRAM WELCOMED 13 NEW STUDENTS FROM CLINICAL BACKGROUNDS INCLUDING GENERAL SURGERY, INFECTIOUS DISEASES, ORAL HEALTH, INTENSIVE CARE, MENTAL HEALTH AND INDIGENOUS SERVICES.**

### Graduating Students

**Jamie Ianunzio** (MClinSc) Thesis title: 'Effectiveness of operative interventions in individuals with a hemi or total hip arthroplasty who sustain a Vancouver B2 peri-prosthetic femoral fracture'

**Tanja Klotz** (MClinSc) Thesis title: 'The effect of moisturisers on scars'

**Kishani Townshend** (PhD) Thesis title: 'Evolving emotions: critically analysing the associations between mindful parenting and affect regulation'



### Student Completions

The following JBI Postgraduate Research Degree students completed the requirements of the degree program in 2019.

**Megan Cain** (MClinSc) Thesis title: 'The effectiveness of different minimally invasive epiphysiodesis techniques in the management of paediatric leg length discrepancies'

**Nuwan Dharmawardana** (MClinSc) Thesis title: 'Diagnosis and management of unknown primary metastatic head and neck SCC'

**Delia McCabe** (PhD) Thesis title: 'The neurological impact of specific nutrients on female stress: a two-phase sequential, mixed methods study'

**Vivienne Leigh** (MClinSc) Thesis title: 'The effectiveness and harms of pharmacological interventions for the treatment of delirium in adults admitted into the intensive care unit after cardiac surgery'

**Robyn Fawcett** (MClinSc) Thesis title: 'Experiences of parents and care givers managing asthma in children'

**Arisara Patthum** (MClinSc) Thesis title: 'The effectiveness of neurally adjusted ventilatory assist mechanical ventilation compared to pressure support ventilation in optimizing patient ventilator synchrony critically adult patients in intensive care unit (ICU)'

**Gordon Mander** (MClinSc) Thesis title: 'Diagnostic accuracy of computed tomography coronary angiography in patients with high heart rates'



# CONSULTANCY

## SAFETY AND QUALITY IN CLINICAL AND PERSONAL CARE: PILLARS OF SAFETY AND QUALITY IN AUSTRALIAN AGED CARE

ATTORNEY GENERAL'S DEPARTMENT  
COMMONWEALTH OF AUSTRALIA

In 2019, JBI conducted research and consultancy projects, both commissioned and collaborative, for government and non-government organisations. Competitive research projects were also completed during the year.

### Research completed in 2019

**Safety and quality in clinical and personal care: pillars of safety and quality in Australian aged care.** May–July 2019. Commissioning organisation: Attorney General's Department Commonwealth of Australia. Investigators: Assoc. Prof. Craig Lockwood, Dr Kylie Porritt, Emer. Prof. Alan Pearson.

JBIC has had an active academic and research program in aged care since its establishment in 1996, focusing on promoting and facilitating evidence-based health, aged and social care. A team of researchers at JBIC, led by Assoc. Prof. Craig Lockwood, was commissioned by the Australian Royal Commission into Aged Care Quality and Safety to develop a report to identify core attributes of safety and quality for clinical and personal care provision across Australian aged care contexts. The report used an evidence-based framework to delineate pillars of safe, quality care that reflected the needs of older adults that can be reasonably and evidentially delivered in practice.

**The Centre of Research Excellence in Aboriginal Chronic Disease Knowledge Translation and Exchange (CREATE)** Funded by NHMRC. Chief Investigators: Prof. Alex Brown, Prof. Annette Braunack-Mayer, Prof. Ngiare Brown, Assoc. Prof. Edoardo Aromataris.

This five-year research program funded by the National Health and Medical Research Council (NHMRC) was dedicated to improving service delivery and health outcomes for Aboriginal and Torres Strait Islander peoples and culminated in September 2019. This project was led by CIA Prof. Alex Brown of the Wardliparingga Research Unit at the South Australian Medical Research Institute with other lead investigators from the University of Wollongong and JBIC. This project involved many researchers and staff from all of the collaborating groups with the aim to collate and synthesise existing evidence and identify and collate new evidence to inform guidelines, policies and other tools focused on improving healthcare and health outcomes for Aboriginal and

Torres Strait islander peoples, as identified by the Aboriginal Community Controlled Health Organisation sector in Australia. A further major outcome of the full work program was to increase the capacity of Aboriginal and Torres Strait Islander healthcare advocates, practitioners, service providers and researchers to conduct and use evidence to improve health outcomes.

**Core Outcome Measures for Effectiveness Trials (COSTiL)** Funded by Stillbirth Foundation Australia. Investigators: Ms Bobae Kim, Prof. Ben Mol, Assoc. Prof. Edoardo Aromataris, Assoc. Prof. Philipa Middleton, Dr. Suzette Coat.

This project aimed to develop a common, standardised outcome set for use across all clinical research in the field of prevention of stillbirth. This strategy will allow the many individual trials, reviews and guidelines in stillbirth to be effectively combined and compared, resulting in a significant contribution to future stillbirth mitigation. The project team, led by Prof. Ben Mol at Monash University, Melbourne, included researchers and research groups in the UK. The project relied on multiple stages and stakeholders.

**E-cigarettes for smoking cessation guideline update** January–April 2019. Commissioning organisation: Royal Australian College of General Practitioners. Investigators: Dr Timothy Barker, Dr Cindy Stern, Assoc. Prof. Zachary Munn, Assoc. Prof. Edoardo Aromataris.

The Royal Australian College of General Practitioners (RACGP) produce clinical guidelines for GPs and other health professionals. Following on from commissioned work performed by JBIC for the guidelines informing the use of pharmacotherapy for smoking cessation in 2018, in 2019 the RACGP commissioned JBIC and the JBIC Adelaide GRADE Centre to assist with the update of their guideline on the use of e-cigarettes for smoking cessation using GRADE methods. Questions addressed focused on the efficacy and safety of e-cigarettes as for smoking cessation. The updated guidelines were published in January 2020.

### Development of evidence summaries for the Australian College of Perioperative Nurses (ACORN).

July–November 2019. Commissioning organisation: Australian College of Perioperative Nurses (ACORN). Investigators: Dr Kylie Porritt, Dr Lucylynn Lizarondo, Dr Matthew Stephenson, Dr Tania Marin, Dr Ashley Whitehorn, Assoc. Prof. Craig Lockwood.

This commissioned project required the development of a series of evidence summaries using JBIC methods to present the best available evidence on policy and practice topics selected by ACORN. The six nominated topics to be addressed related to:

1. antimicrobial stewardship;
2. budgeting;
3. chlorhexidine gluconate (CHG) and natural rubber latex (NRL);
4. multiple resistant organisms (MRO);
5. staffing; and
6. well-being.

### Health Research Translation: a rapid review of terms used and their meaning.

March–May 2019. Commissioning organisation: Health Translation South Australia. Investigators: Prof. Zoe Jordan, Dr Lucylynn Lizarondo, Assoc. Prof. Craig Lockwood.

Research translation is a concept that has different meaning for different groups across healthcare research and practice – in other words, the same terminology ('research translation') is used to mean different things. This variation contributes to a lack of shared meaning and inhibits the clarity of communication and collaboration. To facilitate conceptual and operational clarity regarding how terminology related to health research translation is used, Health Translation SA commissioned JBIC to conduct a rapid review to explore variations in the use and meaning of terminology associated with health translation research.

### New projects

FUNDING ORGANISATION	PROJECT TITLE	Chief Investigator
The Royal Australian College of General Practitioners (RACGP)	E-cigarettes for smoking cessation – guideline update	Edoardo Aromataris/ Zachary Munn
Australian College of Perioperative Nurses (ACORN)	Development of evidence summaries for ACORN	Craig Lockwood
Health Translation South Australia	Health research translation: a rapid review of terms used and their meaning	Zoe Jordan
Royal Commission into Aged Care Quality and Safety. Attorney Generals Dept Commonwealth of Australia	Safety and quality in clinical and personal care: pillars of safety and quality in Australian aged care	Craig Lockwood



JBIs has developed a collection of world-class resources driven by the needs of health professionals and consumers worldwide. Through JBI's partnership with international publishing house Wolters Kluwer Health, JBI evidence-based resources are in one easy-to-use online location.

# EBP RESOURCES

## JBIEBP DATABASE



**Craig Lockwood,**  
Editor in Chief

### JBIEBP DATABASE

#### 2019 highlights

In 2019, a strategic review of the JBI EBP database confirmed the planned growth strategy and expansion of capacity.

- JBI remodelled and accelerated the growth of the external scientific writer program, increasing the number of writers and the volume of content being managed through that program.
- A revised and updated handbook of operations was completed, together with newly created separate handbooks for different contributors to ensure JBI guidelines for writers reflect the world's best practice.
- JBI established an editorial program with academic leads for each field within the JBI EBP database and commenced an ambitious program to highlight the expertise and leadership across our expert reference groups.

The JBI EBP database includes evidence summaries, recommended practices and best practice information sheets (BPIS). The growth trajectory for new BPIS was increased and is on target to produce a minimum of 12 BPIS per year, timed for release with the JBI systematic reviews in JBISIRIR to facilitate access to evidence from JBI systematic reviews and to increase impact via dissemination.

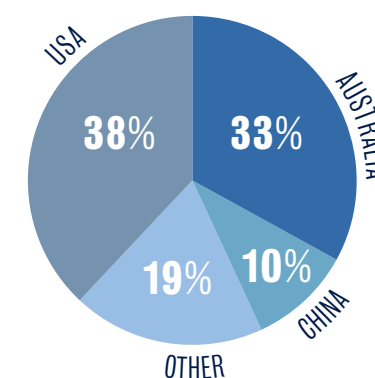
JBI began working on a new informatics system that will ensure JBI content is presented professionally and has the systems capacity to be distributed in increasingly granular levels of detail for electronic medical records and to future proof our data sharing capacity.



#### Top 10 countries by frequency of usage

1. USA
2. Australia
3. China
4. Finland
5. Canada
6. Singapore
7. United Kingdom
8. New Zealand
9. Hong Kong
10. Taiwan

#### Total site visits by percentage



354

NEW EVIDENCE  
SUMMARIES

73

NEW AUDIT TOPICS

11

NEW RECOMMENDED  
PRACTICES

5

NEW BEST PRACTICE  
INFORMATION SHEETS







# JBI SOFTWARE

JBI's flagship tools for healthcare professionals, institutions, academics and policymakers to appraise evidence and implement evidence-based practice.

**"NO OTHER SOFTWARE FACILITATES 10 DIFFERENT TYPES OF SYSTEMATIC REVIEWS, AND IT IS ONE OF A SELECT FEW SOFTWARE PROGRAMS THAT FACILITATES THE WHOLE SYSTEMATIC REVIEW PROCESS."**



## JBI SUMARI

### JBI SUMARI

The JBI System for the Unified Management, Assessment and Review of Information (JBI SUMARI) is JBI's premier software for conducting systematic reviews of literature, from protocol development to writing the review report. No other software facilitates 10 different types of systematic reviews, and it is one of a select few software programs that facilitates the whole systematic review process.

### New Features and Functionality

Overall, 2019 was a very productive year for the development of JBI SUMARI. In addition to the comprehensive feature set already available in JBI SUMARI, significant improvements were made to the application in 2019 including highly sought-after features such as:

- the ability to further modify the appearance of meta-aggregative flowcharts;
- improved report builder functionality so that extracted findings, categories and synthesised findings can be automatically appended to the final JBI SUMARI report, in a publication-ready format;
- the ability to import study citations from a multitude of new sources, including RefWorks, PubMed and many more; and
- the ability to perform proportional meta-analysis for data with non-comparative data.

### JBI SUMARI Knowledge Base

JBI launched the JBI SUMARI Knowledge Base, which provides step-by-step guidance on using JBI SUMARI, video tutorials, links to finding methodological guidance while using JBI SUMARI, FAQs and a feedback and suggestions hub.

Plans for JBI SUMARI in 2020 include commencing sales for individual subscriptions directly from JBI.

## JBI PACES

### JBI PACES

The Practical Application of Clinical Evidence System (PACES) is the primary software to support implementation of best practice. PACES is used by groups and individuals who want to implement evidence, improve the quality of care using evidence-based standards and evaluate the impact of practice change that they lead. There are over 230 evidence-based clinical audit topics in PACES, and new topics are frequently added on request.

Each audit topic includes SMART (Specific, Measurable, Achievable, Relevant and Timely) criteria and is linked to the full JBI evidence summary so that every audit project has access to the same high quality evidence.

Each year across Australia and around the world, evidence-based clinical audit projects are completed by nurse clinicians, nurse researchers, allied health professionals and physicians who want to integrate evidence-based healthcare in their day-to-day practice.

With over 80 projects run each year, and with each project published in international peer-reviewed journals, this tool delivers impact for users, is building a cohort of clinicians with high level skills and knowledge in evidence-based healthcare, and is building a body of knowledge on how implementation works in diverse settings.

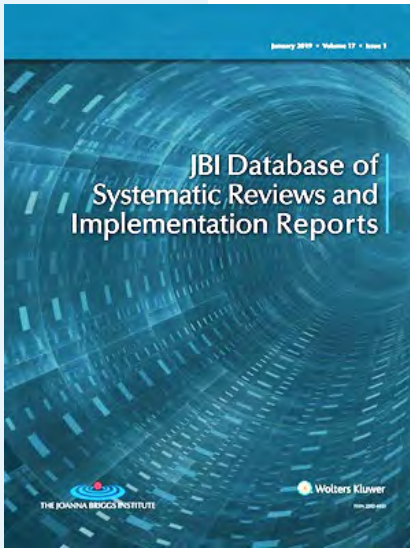
JBI PACES is currently undergoing a major redevelopment, with a new version released for testing and educational purposes planned in 2020.



# JBI DATABASE OF SYSTEMATIC REVIEWS AND IMPLEMENTATION REPORTS



**Edoardo Aromataris,**  
 Editor in Chief



The JBI Database of Systematic Reviews and Implementation Reports (JBISRIIR) publishes 12 Issues in each annual volume. Content includes systematic review protocols and systematic reviews of healthcare research that follow JBI review methodologies, and implementation reports that present the findings of projects that seek to improve healthcare processes by implementing the best available research evidence in practice.

The journal also publishes editorials and commentaries on issues related to evidence synthesis and the use of evidence in healthcare practice, as well as research addressing methodological issues in evidence synthesis and implementation.

The JBISRIIR is currently indexed in MEDLINE (NLM), Embase and Scopus (Elsevier), PsycINFO (APA), CINAHL (EBSCO) and other citation databases.

Overall, 2019 was another successful year for the JBISRIIR, with 169 manuscripts published in volume 17 across the four ongoing journal sections (editorials/commentaries, systematic reviews, systematic review protocols and implementation reports). The majority of the 12 issues published in 2019 had a theme to help organise the published content within the volume.

Popular themes with authors and readers included health professional education, cardiovascular disease and its management, paediatrics and nutrition. The journal’s content is indexed by 11 bibliometric databases, including speciality sources designed specifically to promote access to systematic reviews.

The journal’s electronic platform attracted a recorded 245,000 visits, up 14% from the previous year, from almost 190,000 unique visitors. Importantly, 60% of these visits from international readership are full text views of the published content. Visits directly from the Ovid platform also increased by over 30% in 2019, with over 200,000 articles viewed.

### Submissions received

The manuscript acceptance rate of 40% was maintained for 2019. The editorial processing of manuscripts would not be possible without the ongoing commitment and contribution from our volunteer and expert editors and peer reviewers. The journal is supported by a panel of 30 editors as well as an editorial advisory board of international experts in evidence synthesis and evidence-based practice. Hundreds of peer reviewers contribute to the independent quality control processes of the journal each year.

### Total number of submissions and acceptance rate

SUBMISSIONS	2019	2018	2017
Total Submissions	476	396	376
Submissions Accepted	191	158	211
Submissions Rejected	189	181	141
Acceptance rate	40%	40%	56%

In 2019, the journal became the first international periodical to regularly publish GRADE interactive Summary of Findings. The JBISRIIR also formally endorsed the PRISMA reporting guidelines for systematic reviews.

The journal moves into 2020 with a new name, JBI Evidence Synthesis, a revised focus solely on systematic reviews to inform healthcare and research, and a new approach to initiatives to further support the work of JBI, including partnering with the new journal JBI Evidence Implementation. Look forward to a series of special issues and specialised content in 2020, volume 18.

### TOP THREE ARTICLE VIEWS ON THE JBISRIIR WEBSITE IN 2019



6,032

Family-centred care for hospitalised children aged 0-12 Years: A systematic review of quasi-experimental studies

4,289

The effects of exposure to natural light in the workplace on the health and productivity of office workers: a systematic review protocol

4,268

The Effectiveness of Lemon Solution versus Potassium Citrate in the Management of Hypocitraturic Calcium Kidney Stones: A Systematic Review



190K

UNIQUE VISITORS  
 TO THE JOURNAL



20%

INCREASE IN  
 SUBMITTED MANUSCRIPTS



1st

PERIODICAL TO REGULARLY  
 PUBLISH GRADE iSoF



# INTERNATIONAL JOURNAL OF EVIDENCE-BASED HEALTHCARE



Hanan Khalil, Editor in Chief



The International Journal of Evidence-Based Healthcare (IJEBHC) is a fully refereed journal that publishes manuscripts relating to evidence-based medicine and evidence-based practice. It publishes papers containing reliable evidence to assist health professionals in their evaluation and decision-making, and to inform health professionals, students and researchers of outcomes, debates and developments in evidence-based medicine and healthcare. In 2019, four issues were published, totalling 255 pages and one supplement issue. The IJEBHC completed a sixth year of publishing with Wolters Kluwer.

Exciting developments occurred throughout 2019, including the IJEBHC receiving its first Impact Factor score of 1.158.

In 2019, there were 70,356 visits to the IJEBHC website from 57,553 unique visitors; this is an increase from 50,794 visits in the preceding year. The journal is benefiting from unprecedented interest from visitors. Visitors from the United States, Australia and the United Kingdom continue to be the most frequent visitors to the journal website.

The journal's international appeal continues to grow. In 2019, visitors from 184 different countries visited the website. In 2018, people from 173 different countries visited the journal online, and in 2017 this was 153. Full text views are increasing year on year.

In 2019, several key updates to the journal's website for Solr Search were implemented to give users enhanced search results, and article view updates were released. These updates are intended to enhance the user experience and allow ease of navigation from article to article tools. This includes persistent navigation, allowing the navigation bar to follow the reader through the article and enhancement to the Solr Search function to improve scanning of search results by increasing the length of a snippet of text displayed in the search results.

### Submissions received

The total number of submissions received increased from 2018 to 2019 by over 200%. This is mostly due to a new article type, 'short communications', that received 26 submissions, and an increase in 'original research' and 'implementation project' article types. The 'short communications' were for a Czech supplement published in 2019.

### Total Number of Submission and Acceptance Rate

SUBMISSIONS	2019	2018	2017
Total Submissions	138	46	68
Submissions Accepted	56	23	35
Submissions Rejected	70	18	23
Acceptance Rate	44%	56%	60.3%

The average number of submissions received in the last six months of 2019, after the release and announcement of the Impact Factor score, was 12 per month. In the same period in the preceding year, this was three per month.

### TOP THREE ARTICLE VIEWS ON THE IJEBHC WEBSITE IN 2019



6,491

Guidance for conducting systematic scoping reviews

3,906

The extent of medication errors and adverse drug reactions throughout the patient journey in acute care in Australia

1,280

Redeveloping the JBI Model of Evidence Based Healthcare



30%

INCREASE  
IN JOURNAL TRAFFIC



184

COUNTRIES  
VISITED WEBSITE



IMPACT FACTOR

1.158



# JBI METHODOLOGICAL PROGRAM

The JBI Scientific Committee is responsible for the development and oversight of JBI’s methodologies and materials to guide the conduct of evidence synthesis, transfer and implementation. The JBI Scientific Committee includes international representatives from each of the JBI Collaboration regions (see page 11), as well as members from JBI in Adelaide and representatives from each of the JBI methodology groups.

Since 2013, methodology groups of the JBI Scientific Committee have provided ongoing guidance to the JBI Scientific Committee on the development, update, testing and review of methodologies of synthesis science to be adopted by JBI and its collaborating entities globally and to inform the Editors-in-Chief of JBI’s journals (see pages 38-41). Methodology groups now convene to detail and develop the full range of JBI’s methodologies, including evidence transfer and evidence implementation.

The ongoing work of the methodology groups of the JBI Scientific Committee is available in the JBI Manual for Evidence Synthesis online. The work of these groups also directly informs the development of and innovations in JBI software, including JBI SUMARI and JBI PACES (see pages 36-37) as well as the JBI’s education programs (see pages 26-31).

Highlights of the methodological development program in 2019 included the publication of two new online chapters of the JBI Manual for Evidence Synthesis, including the much anticipated JBI methodology for mixed methods systematic reviews and formal guidance for systematic reviews of measurement properties.

The work of these groups headlined JBI methodological development for evidence synthesis in 2019 and was presented at international conferences throughout the year, including the G-I-N & JBI 2019 Conference held in Adelaide in November 2019 (see pages 24-25).

Lizarondo L, Stern C, Carrier J, Godfrey C, Rieger K, Salmond S, Apostolo J, Kirkpatrick P, Loveday H. Chapter 8: Mixed methods systematic reviews. In: Aromataris E, Munn Z (Editors). JBI Manual for Evidence Synthesis, JBI, 2020. Available from <https://synthesismanual.jbi.global>. doi: 10.46658/JBIRM-19-02

Stephenson M, Riitano D, Wilson S, Leonardi-Bee J, Mabire C, Cooper K, Monteiro da Cruz D, Moreno-Casbas MT, Lapkin S. Chapter 12: Systematic reviews of measurement properties. In: Aromataris E, Munn Z (Editors). JBI Manual for Evidence Synthesis, JBI, 2020. Available from <https://synthesismanual.jbi.global>. doi: 10.46658/JBIRM-19-04

The online publication of the first edition of the JBI Manual for Evidence Implementation was also a major milestone for JBI’s methodological development program. Prepared by the Implementation Methods Group, this manual is an essential resource for JBI Clinical Fellows (see page xx) and any practitioner looking for practical solutions to using evidence to inform their everyday clinical practice.

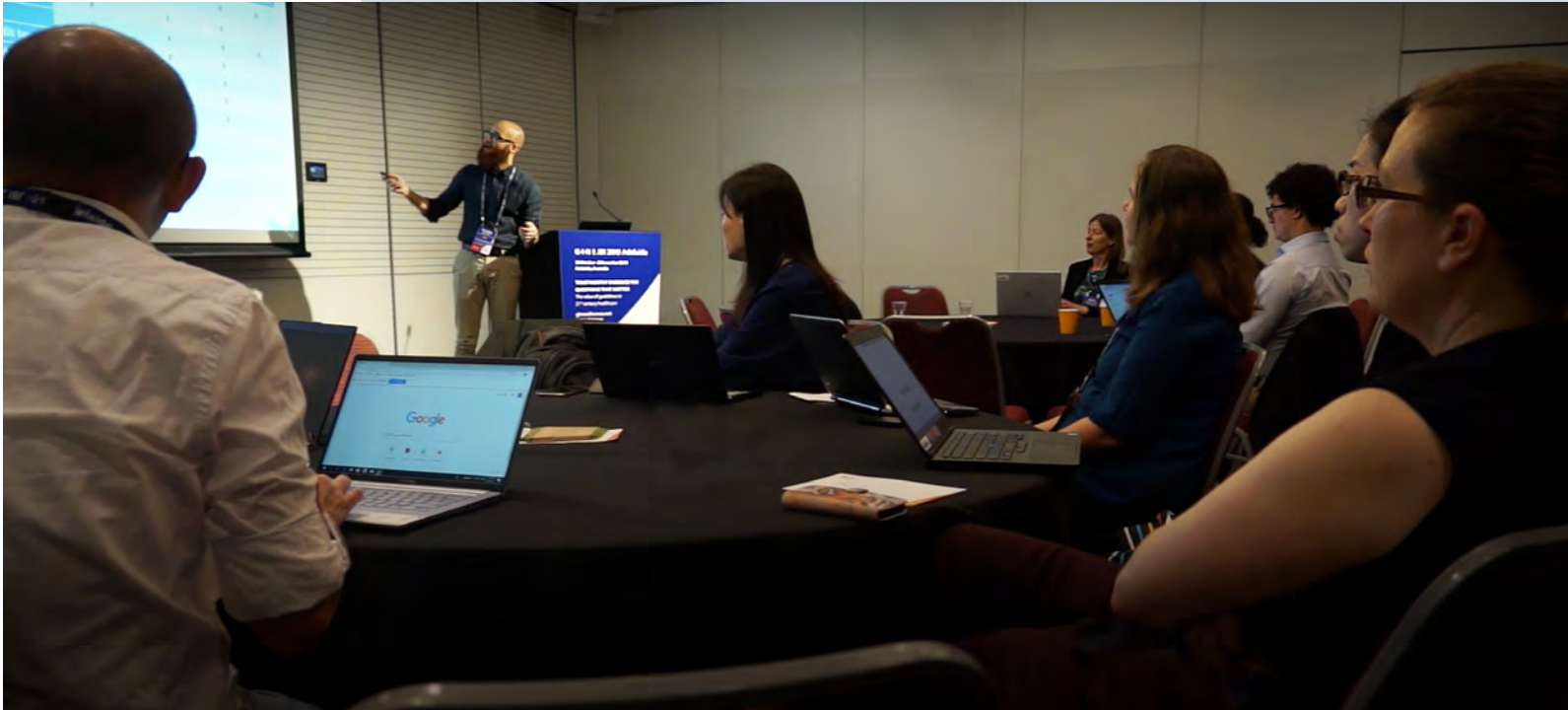
Porritt K, McArthur A, Lockwood C, Munn Z (Editors). JBI Manual for Evidence Implementation. JBI, 2019. Available from: <https://implementationmanual.jbi.global>. doi: 10.46658/JBIIMH-20-01





# ORAL PRESENTATIONS BY JBI STAFF

JBI STAFF MEMBER/S	TOPIC	EVENT	LOCATION
Barker TH, McArthur A, Munn Z	JBI SUMARI: A hands on experience of software to optimise the systematic review process	G-I-N & JBI 2019 Colloquium	Adelaide, Australia
Barker TH, McArthur A, Stern C, Stephenson M, Pilla B, Munn Z	Evidence-based learning: design evaluation and conduct to optimise student outcomes	G-I-N & JBI 2019 Colloquium	Adelaide, Australia
Barker TH, Munn Z, Porritt K, Stern C, Aromataris E, Wiechula R, Brennan S, Schünemann H	Use of GRADE in Australian clinical practice guidelines	G-I-N & JBI 2019 Colloquium	Adelaide, Australia
Barker TH, Munn Z	Meta-analysis of incidence rate ratios, challenges and issues	G-I-N & JBI 2019 Colloquium	Adelaide, Australia
Lizarondo L, Stern C, Carrier J, Godfrey C, Rieger K, Salmond S, Apostolo J, Kirkpatrick P, Loveday H	Integrating quantitative and qualitative evidence: The JBI mixed methods systematic review methodology	G-I-N & JBI 2019 Colloquium	Adelaide, Australia
Lizarondo L, Stern C	Mixed methods synthesis: The JBI approach	JBI Research School	Adelaide Australia
McArthur A, Lizarondo L	JBI clinical leadership workshop	Australia Awards Alumni Professional Development Workshop (June 13 & 14 2019)	Wewak, Papua New Guinea
McArthur A	Evidence into practice: Challenges and new directions	International Symposium on Evidence Implementation in Healthcare (1 July 2019)	University of Sao Paulo, Brazil
McArthur A, Jordan Z, Pearson A, Cooper A, Klugarova J, Florescu S, Yan H, Stannard D	Textual evidence synthesis: Innovations in systematic review methodology (workshop)	G-I-N & JBI Colloquium (31 October 2019)	Adelaide, Australia
Marin T, Whitehorn A	Mapping clinical barriers to implementation in low-to-middle income countries (LMICs)	G-I-N & JBI 2019 Colloquium	Adelaide, Australia
Pilla B	Introduction to JBI and evidence-based healthcare	Visiting Scholars/ Duquense University	Adelaide, Australia
Porritt K	Applicability and practicality of evidence-based healthcare at the bedside	UCSF Health Sixth Annual Clinical InQuERI Nursing Research Conference (30-31 Jan 2019)	San Francisco, USA
Porritt K, Evans C	Establishing confidence in qualitative synthesis findings to inform healthcare practice.	G-I-N & JBI 2019 Colloquium	Adelaide, Australia
Porritt K	The COOnQual approach: Establishing confidence in qualitative evidence.	JBI Research School	Adelaide, Australia
Porritt K	Introduction to implementation science	Visiting Scholars/ Duquense University	Adelaide, Australia
Stephenson M, Marin T	Decision making and interpretation in meta-analysis	JBI Research School	Adelaide, Australia
Stern C	Introduction to synthesis science	Visiting Scholars/ Duquense University	Adelaide Australia
Stern C, Lizarondo L, Carrier J, Godfrey C, Rieger K, Salmond S, Apostolo J, Kirkpatrick P, Loveday H	The JBI approach to mixed methods systematic reviews – what’s it all about? A workshop	G-I-N & JBI 2019 Colloquium	Adelaide, Australia





# PUBLICATIONS BY JBI STAFF

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## Research Articles/Discussion Papers

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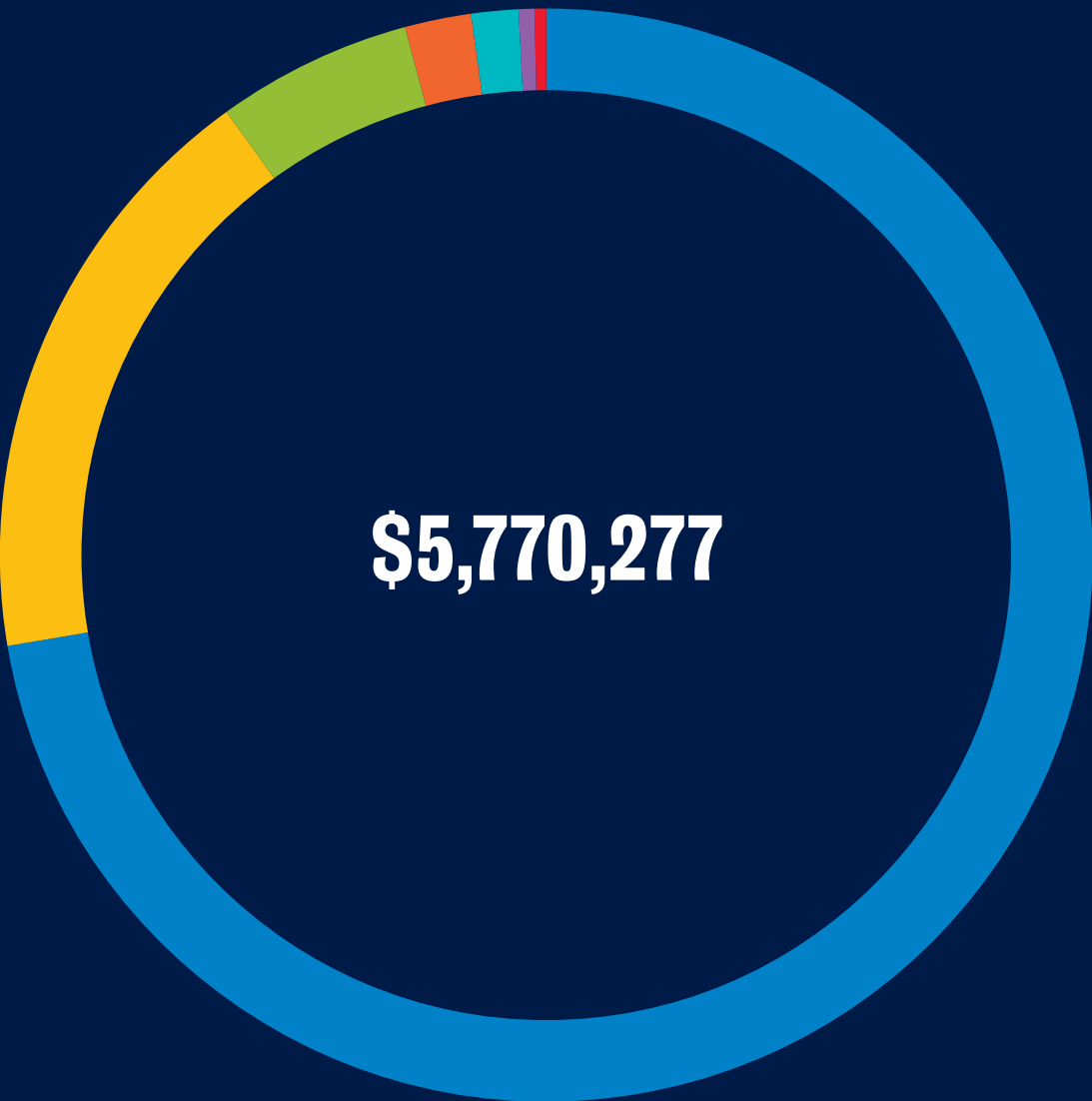
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