Global Advances in Research Translation for Hospitals Aug 2020

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"The ARCH" Academic Research Collaborative in Health

A Health Research and Translation Centre

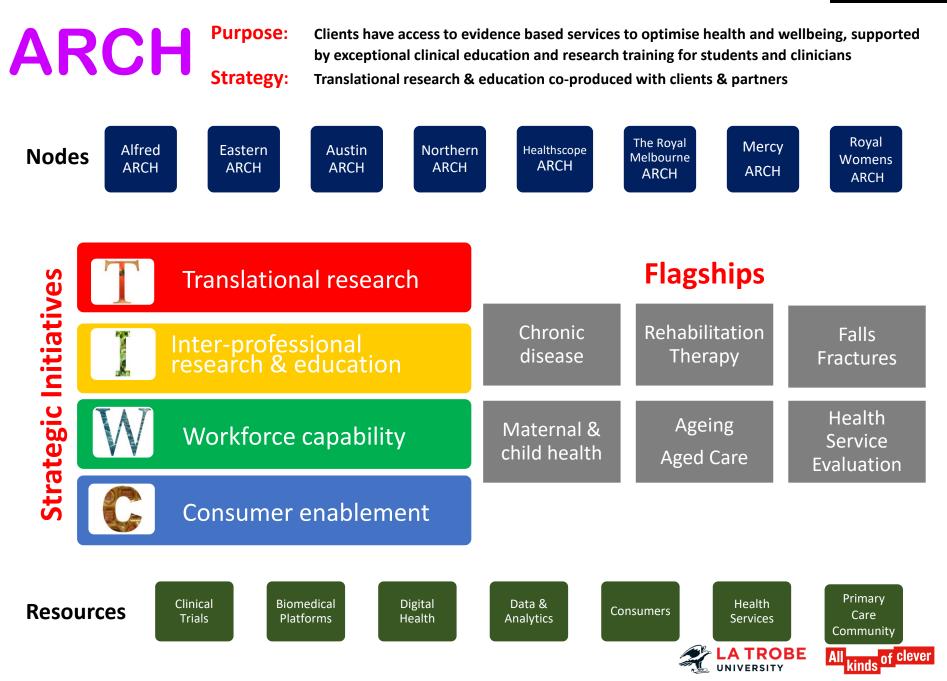




Academic Research Collaborative in Health What is the ARCH?

- The ARCH is a health research translation centre
- The ARCH is all about partnerships that deliver better care to Australians.
- The ARCH model promotes close ties between research, clinical education, workforce training, clinical practice and consumer engagement.
- The AIM is high quality, evidence-based, science-led healthcare, with our partners.





ARCH Research Translation is Integral



- The ARCH adopts an Implementation Science Framework to co-produce research with our partners and consumers.
- Our translational research pipeline starts with co-production of the research questions, research design, methodology and implementation of projects with stakeholders. Together we interpret and disseminate the results, ensuring that the findings quickly reach intended end-users.



Global Research Translation Pipelines

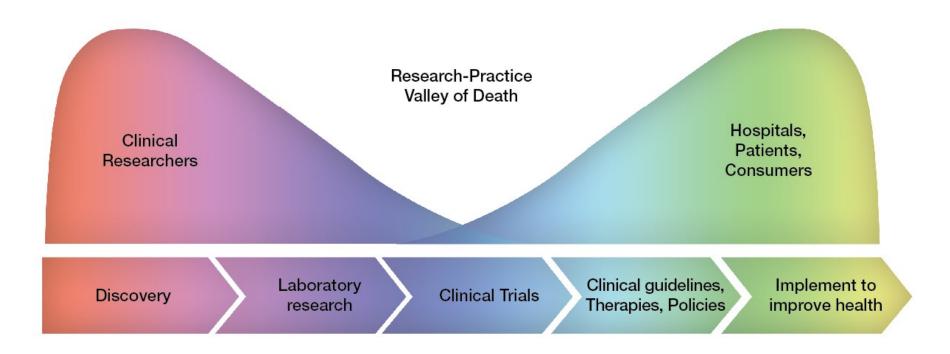
Key Constructs:

- Ecosystems of Evidence
- Learning Health Systems
- Consumer Focussed, Co-Produced Research



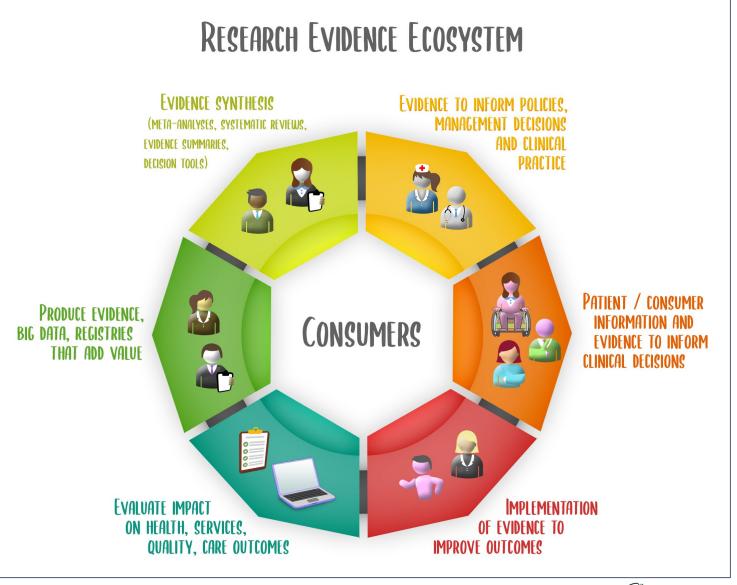
Historical & Contemporary Models

Historical: Linear Models of Research Translation





Contemporary: Ecosystems of Evidence



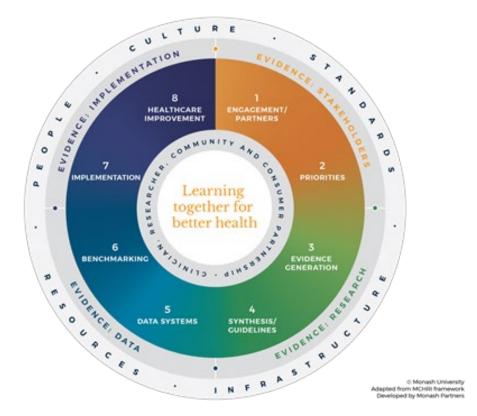


Meg Morris

Global Learning Health Systems

An example of contemporary ecosystems of evidence are Learning Health Systems

LHS are healthcare systems promoting knowledge generation and translation, so knowledge can be quickly embedded into clinical practice to enable continuous improvements in care, safety, quality and efficiency.



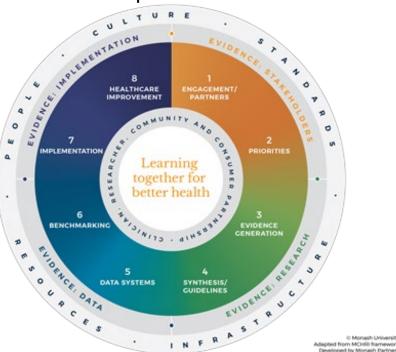
Monash Partners Learning Health System



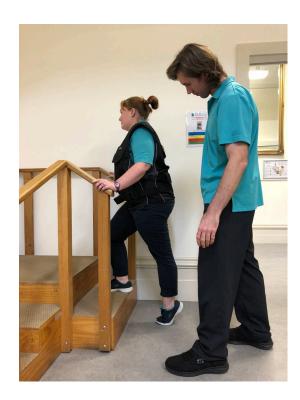
Monash Partners Learning Health System

- Inner Wheel: Co-produced research with all stakeholders patients, clinicians, researchers, policy makers to enable "Learning together for better health"
- <u>Middle layer:</u> is about connecting Evidence Stakeholders, to conduct Evidence Research, Evidence Data And then Evidence Implementation. This involves:
 - 1. Partnership engagement
 - 2. Priority Setting
 - 3. Evidence Generation
 - 4. Synthesis/Guidelines
 - 5. Data Systems
 - 6. Benchmarking
 - 7. Implementation
 - 8. Healthcare Improvement
- <u>Outer Rim</u>: Is the Ecosystem Environment: People, Culture, Regulation, Infrastructure, Resources





The ARCH is a Learning Health System within an Ecosystem of Evidence





Healthcare Evidence Ecosystems

- Cartabellotta et al: Biannual International Conference for Evidence-based Healthcare Teachers and Developers in Sicily.
- Ecosystems of evidence promote efficiency of knowledge generation, synthesis & translation. The "non-nonliving" elements include scientific evidence generated according to rules, standards, and frameworks associated with the generation, synthesis, and translation of findings to end-users.
- The "living" elements are the people creating and using the evidence, and the environment (social, cultural, economic, and political).





THE ECOSYSTEM OF EVIDENCE

Global challenges for the future

9th International Conference for EBHC Teachers and Developers 8th Conference of the International Society for EBHC Taormina, 6th-9th November 2019

#EBHC2019



Ecosystem: Tools For Translating Knowledge

Clinical Guidelines

Evidence Summaries

Policy Briefs

Data Summaries,

Registries

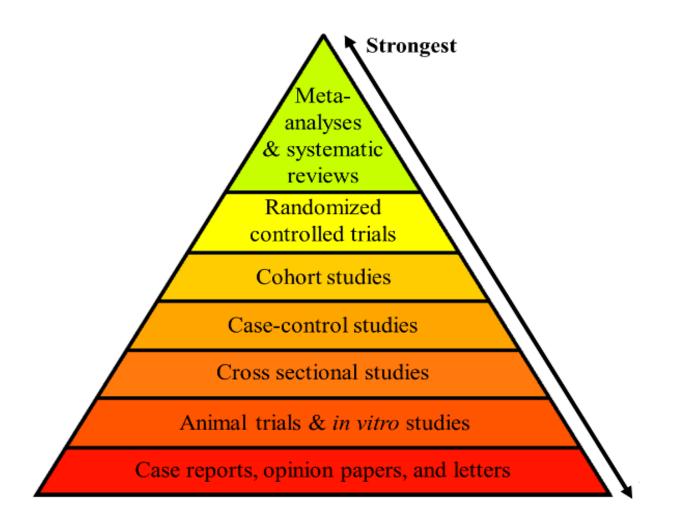
Meta-analyses,

Systematic Reviews

Clinician Decision Aids

Social Media, Apps & Websites

Clinical Research Evidence Hierarchy



Monash Partners with Permission

Tools to move evidence to decision making

- Data from RCTs and other research methodologies into implementation settings.
- GRADE (Grading of Recommendations Assessment, Development and Evaluation) a way to rank the quality of evidence and recommendations arising from the impact of intervention trials
- CERQual (Confidence in the Evidence from Reviews of Qualitative research): determines the confidence of evidence from qualitative research reviews
- DECIDE (Tools for decision making and dissemination) project to develop and evaluate strategies for disseminating and supporting the uptake of guidelines by decision makers in clinical practice and policy
- The INAHTA Product Type (IPT) Multi-lingual recognition and classification of health technology products, including HTA reports and rapid reviews used to inform decisions about the registration of health technologies for use.

Gough, D., Davies, P., Jamtvedt, G. *et al.* Evidence Synthesis International (ESI): Position Statement. *Syst Rev* **9**, 155 (2020). <u>https://doi.org/10.1186/s13643-020-01415-5</u>



Evidence Ecosystems: "Living Elements"

- The people creating and using the evidence
- The health and social care environment (social, cultural, economic, and political) enabling evidence to be co-created and disseminated to consumers





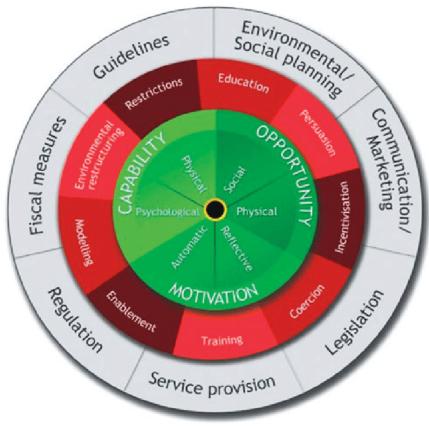
Evidence Ecosystems: "Living Elements" People: Behaviour Change

Michies Behaviour Change Model

Centre: "Behaviour System" Clinician Capability, Motivation, Opportunity to adopt evidence

Middle: Intervention Functions: Education, Training, Modelling, Restrictions, Coercion... to adopt EBP

Outer: Policy Categories. Regulations, Legislation, Service Models, Guidelines etc.

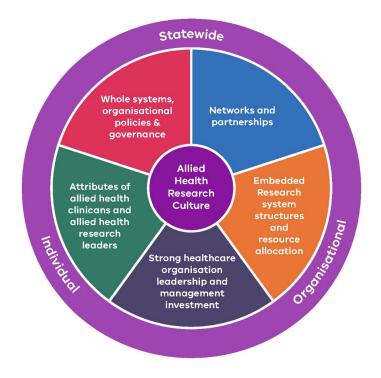


Michie et al. Implementation Science 2011, 6:42



Evidence Ecosystems: Environment cultural, social, economic, and political

Example: Victorian Allied Health Research Framework



https://www2.health.vic.gov.au/health-workforce/ allied-health-workforce/allied-health-research



A Culture of Evidence Based Practice Slade, Philp, Morris 2018

Focus groups, expert consensus meetings, rapid review literature

- Sustainable change requires health research policies, regulation, governance and organizational structures that support and value evidence-based practice
- The research capability, receptivity and literacy of healthcare leaders and managers are key to successful research capability and capacity building
- Organisational factors that facilitate a research culture include dedicated staff research positions, time allocation, mentoring and infrastructure
- Individual attributes of clinicians motivation, research skills

Frameworks for embedding a research culture in allied health practice: <u>Health Research Policy and Systems</u>, 2018





Evidence Ecosystems: Culture



https://www2.health.vic.gov.au/health-workforce/ allied-health-workforce/allied-health-research



Global Research Translation Pipelines

Key Constructs:

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Patient / Consumer Expectations

- Consumer / patient expectations of healthcare are rapidly changing.
- Many people with health conditions want to be directly involved in the planning, conduct, and reporting of clinical research. They want research to be with or by members of the public rather than done "for them" or "to them" <u>https://www.peopleinresearch.org/publicinvolvement</u>
- Healthcare agencies, consumer groups and community organisations can have major influence, as shown by the AllTrials alliance <u>http://www.alltrials.net</u> calling for every clinical trial to be registered and evidence summaries to be published for every clinical research project.





The ARCH Exemplifies a Global Advance in Research Translation for Hospitals

Please visit our WEBSITE

Business Strategy

https://www.latrobe.edu.au/she/arch



Transforming health and wellbeing

Our partnerships are delivering better healthcare outcomes to Australians.

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About us >

Health Care Doctor Hospital Pharmacist Nurse

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MEDICAL

Please join our Webinar series

Sept 23 10 am Prof Leeanne Carey

Synchronous (Live) A network of sites and 'upskilled' therapists to deliver best-practice stroke rehabilitation of the arm

Asynchronous

- 1. "Open Access Research Data: How to Use an Open Access Repository" Thomas Shafee
- 2. "Open Access Research Data: Sensitive data safety and deidentification" Hannah Buttery

Contact: Robert Macmahon <u>r.macmahon@latrobe.edu.au</u>







