## Research and Research Translation 101







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#### What is research translation?

Defined by The World Health Organization (WHO) as:

'the synthesis, exchange, and application of knowledge by relevant stakeholders to accelerate the benefits of global and local innovation in strengthening health systems and improving people's health.'<sup>1</sup>

Also known as 'knowledge transfer', 'knowledge translation' or 'research implementation'.

Taking guidelines, policies, procedures, and things we have learnt from research, quality activity and service evaluation and putting it to <u>contextual</u> real-world practice in a <u>sustainable</u> way.

#### The spectrum of activity

Research	Quality	Service evaluation
Tests a hypothesis or	Uses what we know to	Determining the value of
aims to create new	monitor or improve the	a service
knowledge	quality of a service	- Process evaluation
e.g. RCT, designed on a	e.g. Audit, changing	(Are there ways to
scientific framework,	treatment format	improve on the way a
rigour		service is delivered?)
		- Impact evaluation (is
		what we are putting in
		place effective?)

#### Large spectrum

Single case review Journal club Medical record audi Literature searching Survey – patients/sta

## Core business

RCT ental research considerations

## Getting started

#### Key steps

Discuss idea with clinical supervisors/manager/peers

- Feasibility
- Align with current priorities /values of the department/organisation?
- Is it being trialled elsewhere (even another organisational department)?

Engage your research translation coordinator (if available)

Develop a PI/ECO

Visit the literature and current guidelines –

- Has your question been answered?
- Can it be translated?

Identify key stakeholders

### How do I know what my question is?<sup>2</sup>

P – Population

The people impacted by your research/QI activity/research translation.

I – Intervention\*

What treatment or intervention will you introduce? E.g. medication

**E** – **Exposure**\*

The condition/element the population are exposed to. E.g. bushfire smoke

**C** – **C**omparison

What you will compare the intervention or exposure to.

O – Outcomes

What you will measure and what your outcomes will be.

\*Intervention and Exposure are interchangeable

- 2 minute activity develop your PI/ECO
- P Population

People undergoing radical prostatectomy

I – Intervention

Pre-operative pelvic floor muscle training

**C** – **C**omparison

Post-operative pelvic floor muscle training only

O – Outcomes Post-op urinary incontinence

#### Reviewing the literature

Developing a search strategy -Medical/clinical librarian (take chocolates)

- What do we **know**? (Google scholar, Cochrane, etc.).
- What are the **gaps**? What don't we know?
- Are we *translating*, *expanding* on or *generating a new* idea?
- Which **context** interests me?
- What questions do I have? Or what is **THE** question?

Your research question

Make it specific and detailed

What is the best treatment for cancer?

Do people with prostate cancer who participate in pelvic floor muscle training prior to radical prostatectomy have improved post-surgical urinary incontinence outcomes compared with those who perform post-operative exercises only?

#### Develop your own question (2 minutes)

Do people with prostate cancer who participate in pelvic floor muscle training prior to radical prostatectomy have improved post-surgical urinary incontinence outcomes compared with those who perform post-operative exercises only?

## Engaging your team

Setting	Individuals	Level of engagement <sup>3</sup>
<ul> <li>Outer:</li> <li>Government agencies</li> <li>Council</li> <li>Professional organisations</li> <li>Special interest groups</li> <li>Universities</li> </ul>	E.g. Bill Smith	Inform Consult
<ul> <li>Suppliers</li> <li>Inner:</li> <li>Executives</li> </ul>	E.g.: Jane Peters	Involve Collaborate Empower
<ul> <li>Managers</li> <li>Clinical staff</li> <li>Finance</li> <li>Consumers</li> </ul>		

#### iap2 public participation spectrum

developed by the international association for public participation

	INFORM	CONSULT	INVOLVE	COLLABORATE	EMPOWER
PUBLIC PARTICIPATION GOAL	To provide the public with balanced and objective information to assist them in understanding the problems, alternatives and/or solutions.	To obtain public feedback on analysis, alternatives and/or decision.	To work directly with the public throughout the process to ensure that public issues and concerns are consistently understood and considered.	To partner with the public in each aspect of the decision including the development of alternatives and the identification of the preferred solution.	To place final decision-making in the hands of the public.
PROMISE TO THE PUBLIC	We will keep you informed.	We will keep you informed, listen to and acknowledge concerns and provide feedback on how public input influenced the decision.	We will work with you to ensure that your concerns and issues are directly reflected in the alternatives developed and provide feedback on how public input influenced the decision.	We will look to you for direct advice and innovation in formulating solutions and incorporate your advise and recommendations into the decisions to the maximum extent possible.	We will implement what you decide.
EXAMPLE TOOLS	<ul><li>Fact sheets</li><li>Websites</li><li>Open houses</li></ul>	<ul> <li>Public comment</li> <li>Focus groups</li> <li>Surveys</li> <li>Public meetings</li> </ul>	<ul><li>Workshops</li><li>Deliberate polling</li></ul>	<ul> <li>Citizen Advisory committees</li> <li>Consensus- building</li> <li>Participatory decision-making</li> </ul>	<ul> <li>Citizen juries</li> <li>Ballots</li> <li>Delegated decisions</li> </ul>

# Who's on your team?

#### 5 minute exercise

Source: IAP2 (2007)<sup>3</sup>

#### Protocol

A document that outlines what you intend to do:

- Safeguards the safety and well-being of participants
- Describes the aims, objectives and associated procedures
- A "manual" or "action plan"<sup>4</sup>

Required for QA and ethics submissions

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## Research training/experience opportunities

- Stepping into Research
- Supporting Translation of Research in Rural and Regional areas emerging researcher training program
- Research mentors
- Involvement in existing projects
  - Literature searching
  - Protocol development
  - Data collection/extraction
  - Data analysis
  - Abstract screening for systematic reviews
- Higher degree research

#### Key messages

- Research does not need to be big and scary!
- Defining your question is important
- Don't reinvent the wheel
- **DO NOT** shoulder it alone
  - Managers/peers
  - Research translation coordinators
  - Librarians
  - Stakeholders
  - Ethics office

# Thank you

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