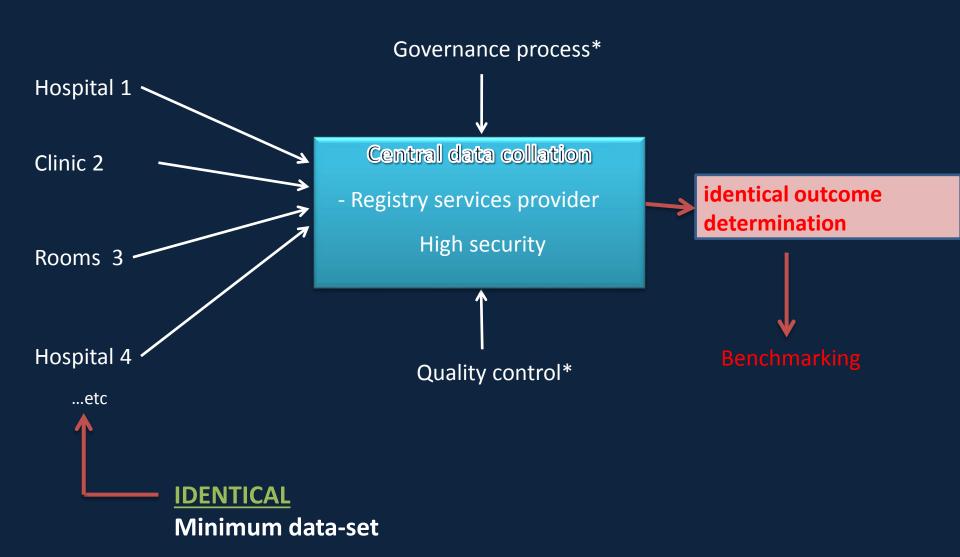


South Australian Impact

- ANZDATA (Renal dialysis & transplantation)
 - Steve McDonald, Alex Disney, Tim Mathew
- AOANJRR (Joint replacement)
 - Steve Graves, Phil Ryan
- Breast Device
 - Rod Cooter
- National Prostate Cancer Registry
 - Kim Moretti , David Roder



Typical clinical registry



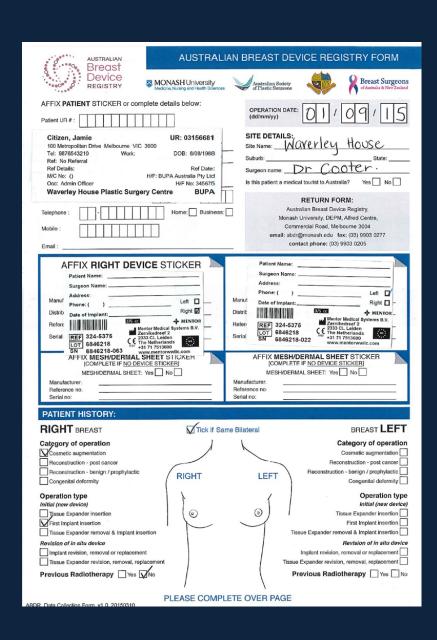


Typical data-entry screen

Provides data-spine

Ideally auto-populated

Incorporated into work-flow





Opt-out ethics

Opting in for opt-out consent

A place for opt-out consent in the National statement on ethical conduct in human research

n most human research, potential participants are provided with detailed information so that they can make a fully informed choice about whether to participate in the project. The requirement for explicit consent reflects the value that our society places on individual autonomy.

MD, PhD, FRACP, Chief Executive Officer

Cancer Council Australia, Sydney, NSW. ian.olver@cancer.org.au

Governance delays still a major cause of delay

Systematic outcome measurement:

The most difficult challenge

- Personal contact with standard script
 - Eg letters or SMS x 2, then phone
- 'Systematic' clinical review
- Record linkage for longer term surveillance
- Information sought
 - Disease specific questions
 - Quality of life
 - Flags for further follow-up

Epidemiological principles

Applicable to registries

No "cherry picking"

report all or report none report before outcomes have occurred

Near complete follow-up

incomplete follow-up risks bias

Statistical risk adjustment

Distinguishing operator vs device Accounting for factors beyond control

Contrasts

within the registry eg different devices or across similar registries



Victorian Prostate Cancer REgistry







Victorian Prostate Cancer
Clinical Registry

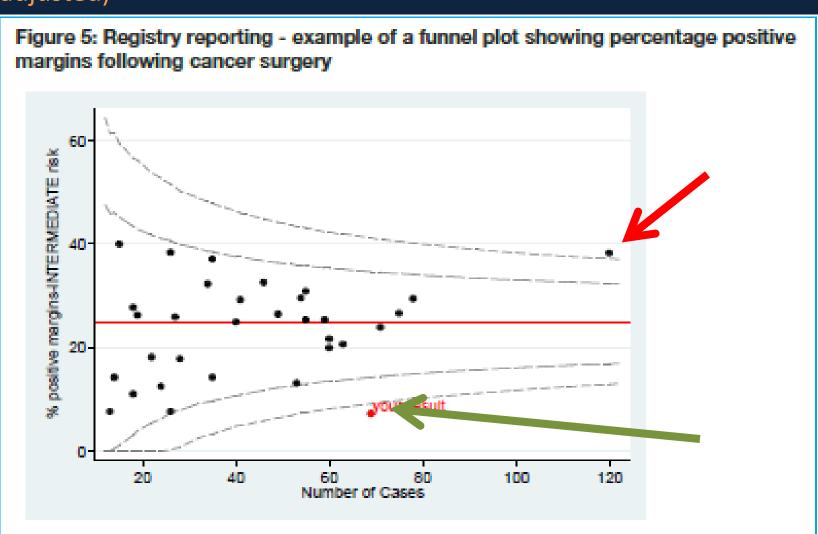


- From 2009
- Covers ~80% Victoria, includes >12 000 men
- Linked to private clinicians and health services
- Opt-out consent (2% opt-off)
- Small dataset, from data-managers not clinicians
- Regular feedback reports
- Includes Delphi derived quality indicators
- Indicators: include proportion of very low-risk men ("PRIAS-eligible") having no active treatment and riskadjusted positive surgical margin rate

Evans et al MJA 2016

Outcome benchmarking reports

(Risk adjusted)

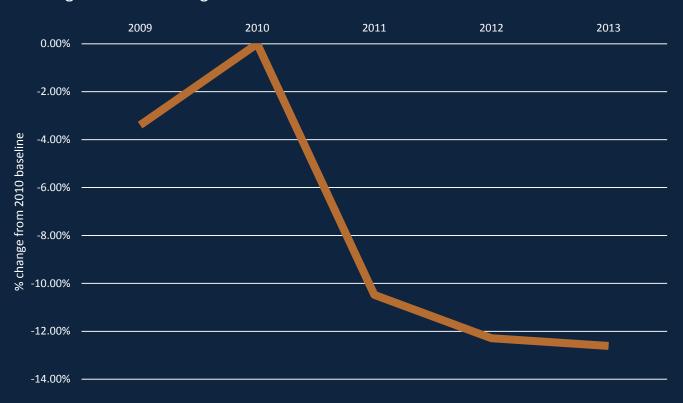


NOTE: EARLY RECOGNITION OF PROBLEMS

Positive Surgical Margins



Change in Positive Margin Rates over time



12% reduction in rate of positive surgical margins (pT2 organ confined) since 2010

Reduction in Low Risk Men having active Treatment







Rates of change in compliance with PRIAS guidelines are greater in hospitals that are early contributors to the registry compared to later adopters.



Monash Public Health

Who values the information?



Clinical Registries:

Who values the information? And for what?

- Benchmarking
- Appropriateness of care/accountability
- Variation**
- Planning, trend analysis
- Access to care
- Credentialing
- Drug & device safety
- Clinical research

Who values the information?

Government

Hospitals (public & private)

Clinicians

Insurers

Professional societies

Drug & device manufacturers

Lack of data: Breast Implants

- Dow Corning 1984-1992
 - Implant brand erroneously linked to chronic disease
 - 132 law suits costing Dow Corning \$3.2 billion resulting in bankruptcy



- PIP April 2010
 - Non medical grade silicone
 - Total Australian sales ~13,000



- Anaplastic Large Cell Lymphoma 2010
 - a low but increased risk of ALCL

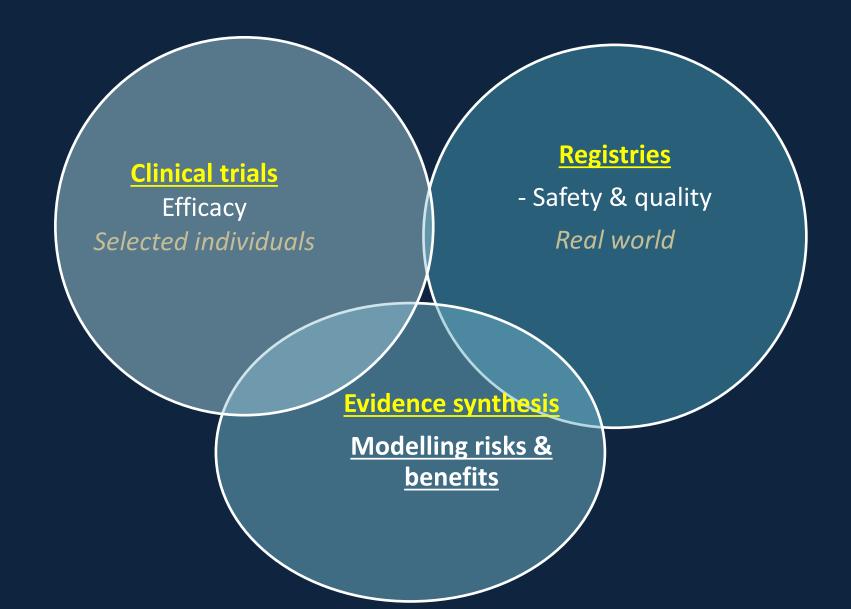




Registries, clinical trials, evidence synthesis and modelling



Trials, registries & modelling





Future challenges

- More complex that appreciated
- Participation largely voluntary
- Require substantial infrastructure
- Data & ethics burdens
- No personal & device identifiers
- No systematic approach to:
 - Governance
 - Resourcing
 - Data
 - Legal
- Potential multiplicity (rail gauge issue)







Australian developments

- ACSQHC 'Operating Principles for Clinical Quality Registries"
 & "Framework for Australian Clinical Quality Registries
- NHMRC endorsement of opt-out consent in certain settings
- Industry or charity funding of key registries in cancer, trauma
 & heart disease. Industry funding of AOANJRR
- Commonwealth funding for breast, cardiac and bariatric registries. State funding for others
- Consulting for cost-effectiveness & prioritisation

Summary

- Provide clinically credible benchmarking
- Priority is: high impact, high cost defined episodes
- Data of value for multiple stakeholders
- Challenges in ethics, governance, funding models
- Rapid developments overseas, especially Europe & US
- Increasing levers to encourage participation



Acknowledgements

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A/Prof Jeremy Milla Prof Chris Reid

Prof Rowan Walker

Cancer Clinical Quality Registry Program Transfusion & Blood Product Registries

Trauma & Burns Registry program

Bariatric Registry Program

Victorian Cardiac Arrest Registry

Victorian Cardiac Procedures Registry

Victorian Prostate Cancer Registry

Australian Cardiac Surgery Database

Victorian Renal Diseases Registry

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