

Strengthening the Australian health care system - can research help?

Professor Kathy Eagar

Director

Australian Health Services Research Institute


8th NSW Rural Health & Research Congress, Lismore, October 2019

1

Overview

- ◆ How good is the Australian health care system?
- ◆ Introduction to health services research
- ◆ A couple of examples of research undertaken by the Australian Health Services Research Institute (AHSRI)
- ◆ Can health services research help solve real life problems facing the Australian health system?



2



The Sydney Morning Herald
SATURDAY, JUNE 29, 1957

CRISIS IN THE HOSPITALS

The State Government has And the presumption of re-
good reason to be dismayed curring debt, combined with
by the huge debts incurred the belief that retailers will
by our public hospitals, not, in the last resort, cut off
though it can hardly be more supplies, has created a hand
so than the unfortunate credi- to mouth attitude on the part
tors who have been bearing of both hospital administra-
the burden of unpaid bills tions and Government alike.
with considerable forbear- The result is that the annual
ance. That the hospitals have allocation of revenue has
been living beyond their ceased to bear any serious
means for years is common relation to actual needs.
knowledge. But that they The fact must be faced
should have been obliged, for that at present there is just
whatever reasons, to conduct not enough money being
their financial affairs on the spent to produce an efficient
calculated assumption of a and solvent hospital service.
And so long as the mechan-



**“The fact must
be faced that at
present there is
just not enough
money being
spent to produce
an efficient and
solvent hospital
service”**
June 29, 1957

3

Pressure on the health system is real

- ◆ ‘Unless alternatives are developed, it will be necessary to open at least 300 new beds in NSW each year to keep up with predicted growth in demand’. The implications are severe:
 - in 1971-72 health represented 15% of the total NSW budget
 - by 2007-08 this had increased to 28%
 - at this rate, funding for health will consume the entire State budget by 2033.”

Ref: NSW Audit Office 2008, p.2

4

Snapshot of Population Health Challenges



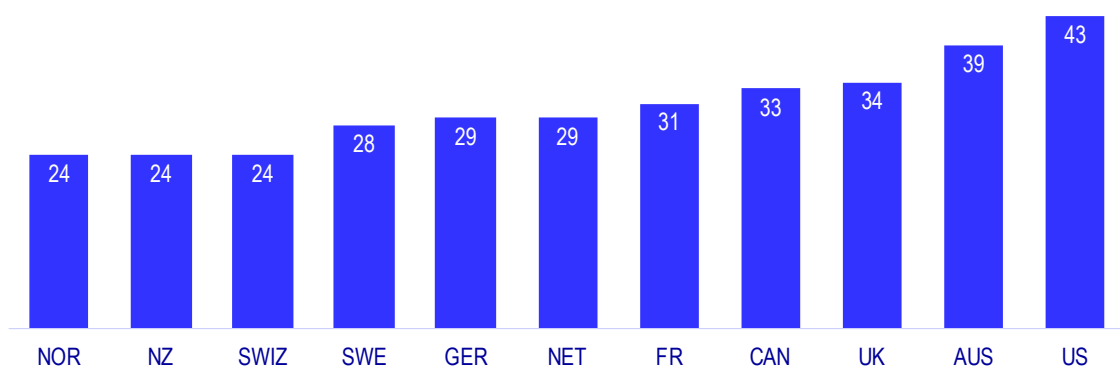
Percent of adults reporting:	Multiple chronic conditions*	Experiencing emotional distress in past year they couldn't cope with alone	Unable to do daily activities or work full-time because of health
AUS	15	20	12
NETH	14	19	19
UK	14	17	15
SWIZ	15	21	13
NZ	16	21	15
NOR	16	20	23
GER	17	7	15
FRA	18	12	24
SWE	18	24	22
CAN	22	27	20
US	28	26	21

* Chronic conditions asked about were: 1) joint pain or arthritis; 2) asthma or chronic lung disease; 3) diabetes; 4) heart disease; 5) hypertension.

5

EXPERIENCES OF HIGH-NEED OLDER ADULTS

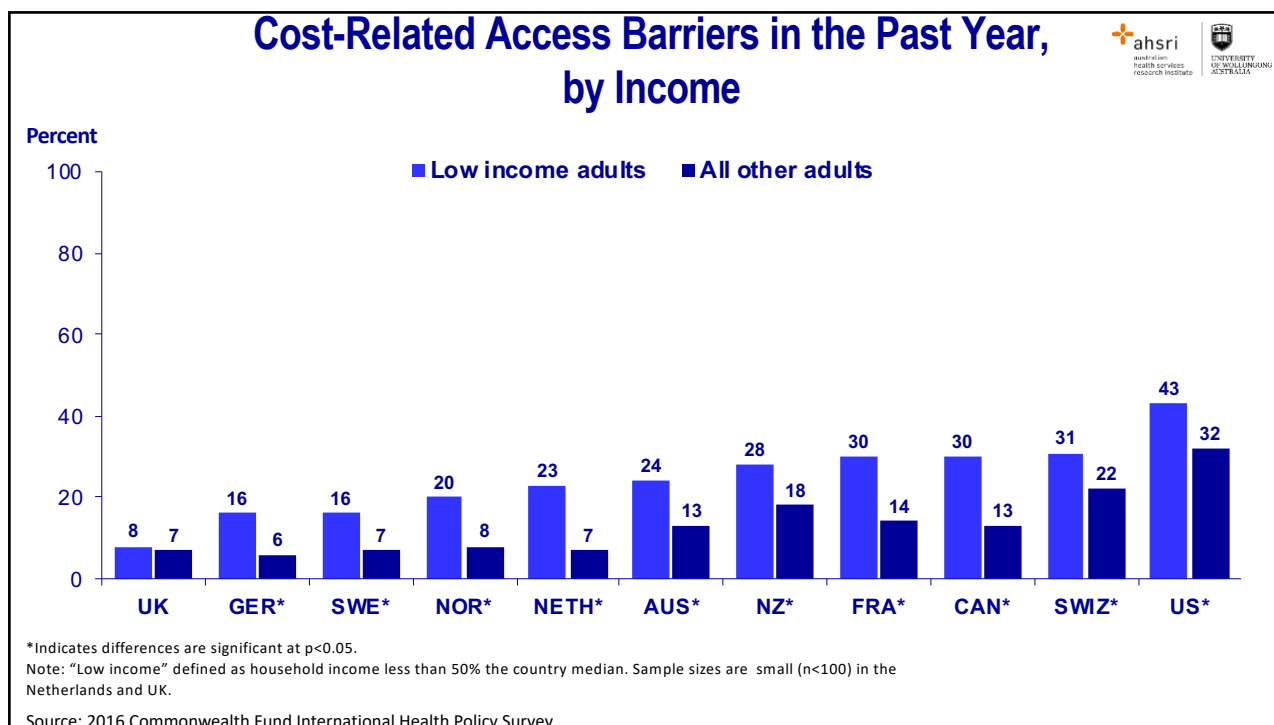
Percent of Older Adults with 'High-needs' (%)



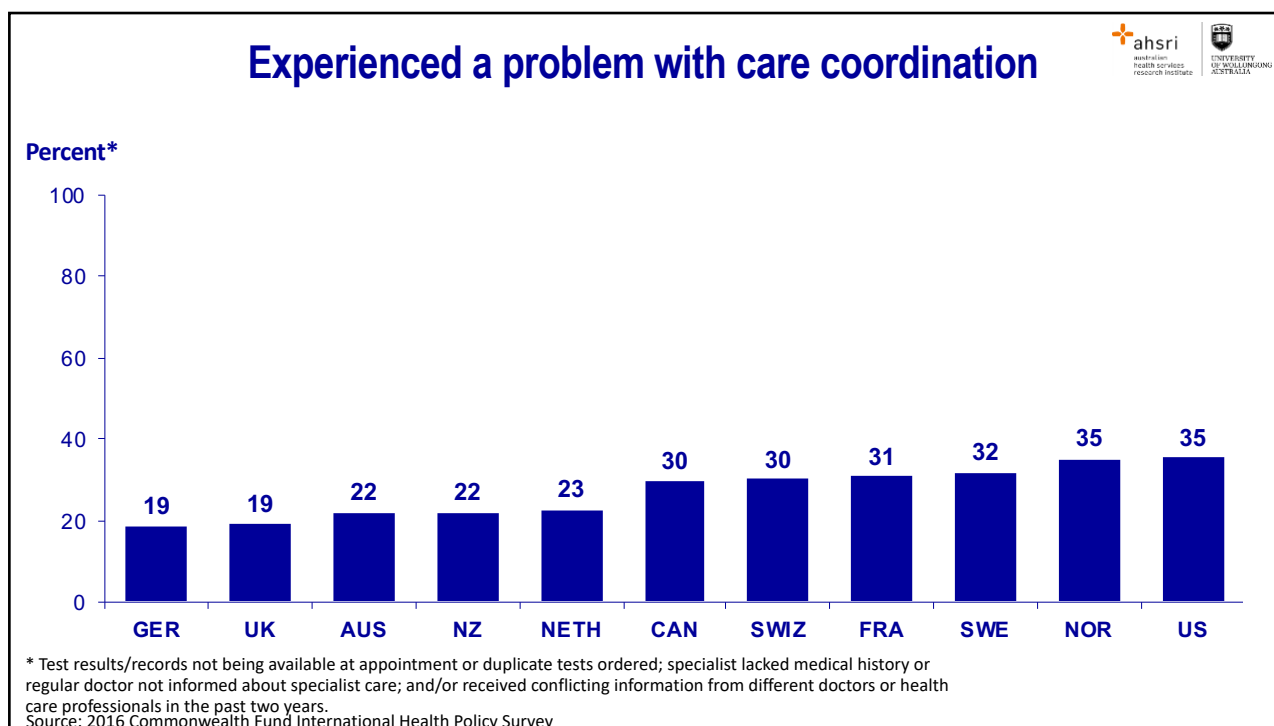
Source: 2017 Commonwealth Fund International Health Policy Survey of Older Adults
High-need definition: Percent of older adults with either three or more chronic conditions or functional limitations.

6

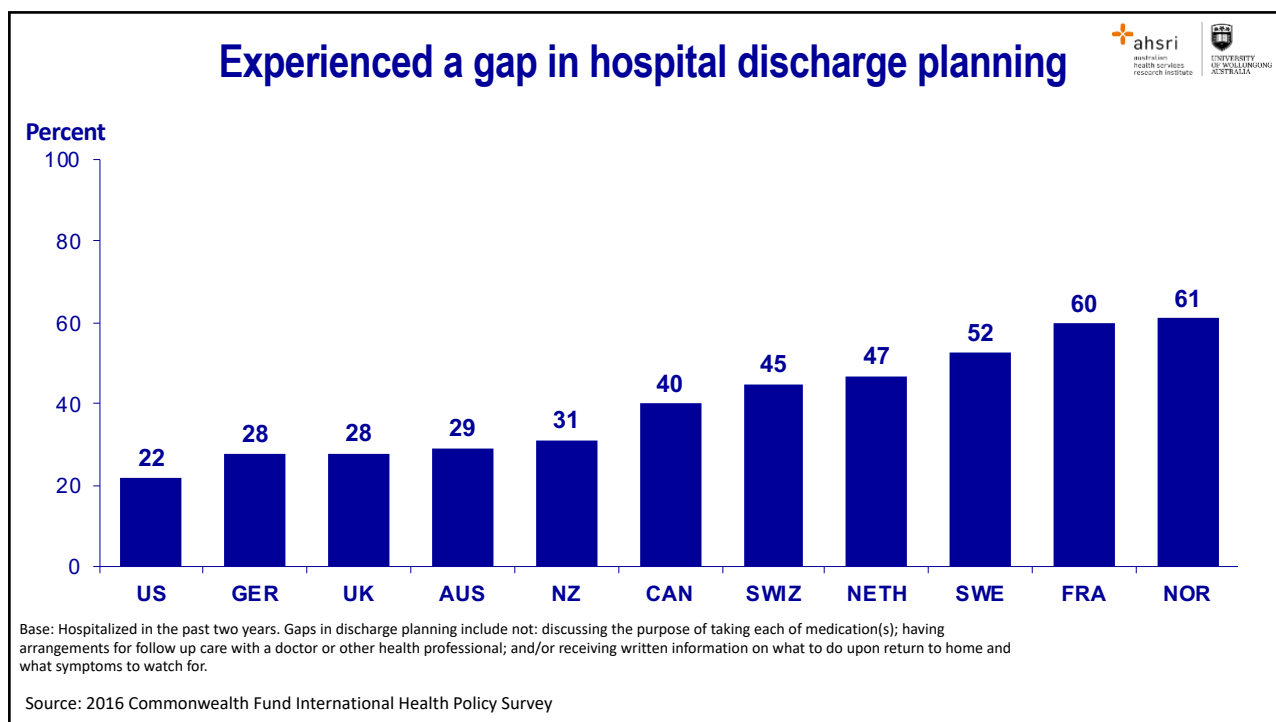
6



7



8



9

By international standards...

- ◆ Australia is doing OK (mostly a bit above average)
- ◆ But not as well as we used to
 - because of massive increases in co-payments and user pays
- ◆ And not as well as we could be doing
- ◆ Population ageing and increasing community expectations will keep the pressure on the system going forward
 - Without serious reform, we will look back on 2019 as the 'good old days' 😊

10

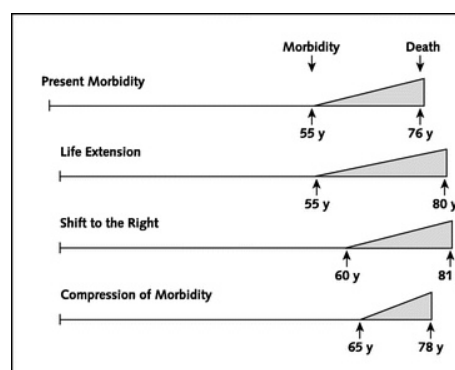
Increased investment in prevention won't help (much)

The 'Compression of Morbidity'

11

Prevention and the *Compression of Morbidity*

- ◆ First proposed in 1980
- ◆ The economic justification for investment in prevention
- ◆ If we can postpone the age of onset of 'chronic infirmity', the burden of lifetime illness can be compressed into a shorter period before death
- ◆ But the evidence points to a shift to the right:
 - As populations age, they become increasingly infirm and consume an ever-larger proportion of healthcare costs



Fries JF. Measuring and monitoring success in compressing morbidity. *Annals of Internal Medicine*. 139 (5 Pt 2):455-9, 2003 Sep 2.

12



What is health services research?

Investigating wicked problems, finding practical solutions and deriving lessons relevant to policy

13

Health Services Research (HSR)

- ◆ Multidisciplinary research that aims to improve the health services patients receive
- ◆ The audience for HSR includes not only other academics but also patients, providers, managers and politicians
 - creating important opportunities for partnerships and funding and
 - blurring the usual academic distinction between ‘investigator-driven’ and ‘priority-driven’ research

14

Health Services Research (HSR)



- ◆ applied rather than 'basic' research
- ◆ many dimensions: better quality, safer care, better accessibility, improved efficiency and better outcomes
- ◆ differs from single-discipline research in that it seeks to understand these dimensions from multiple perspectives using mixed methods
- ◆ the focus on services distinguishes HSR from other health research such as epidemiology, clinical research and population health research

15

Current issues in the media keeping Chief Executives up at night



- ◆ Identify three contemporary **health service** issues:
 - keeping your Chief Executive up at night
 - where better evidence could help with decision-making
- ◆ Identify at least one way to bring together and align researchers and the health service to collaborate on this issue

16



Australian Health Services Research Institute (AHSRI)

A health services research and policy institute of the
Sydney Business School, Faculty of Business,
University of Wollongong

17

AHSRI Research Centres

- ◆ Centre for Health Service Development (CHSD)
- ◆ National Casemix and Classification Centre (NCCC)
- ◆ Centre for Health Research Illawarra Shoalhaven Population (CHRISP)
- ◆ Australasian Rehabilitation Outcomes Centre (AROC)
- ◆ electronic Persistent Pain Outcomes Collaboration (ePPOC)
- ◆ Palliative Care Outcomes Collaboration (PCOC)
- ◆ Ngarruwan Ngadju First Peoples' Health and Wellbeing Research Centre

18

Some examples of our research questions

- ◆ How to measure patient outcomes in chronic disease?
- ◆ What is the best funding model for residential aged care?
- ◆ Is text messaging an effective method of delivering mental health crisis services?
- ◆ Why do patients go to an Emergency Department rather than to a GP?
- ◆ How do palliative care patient outcomes compare in hospital and at home?

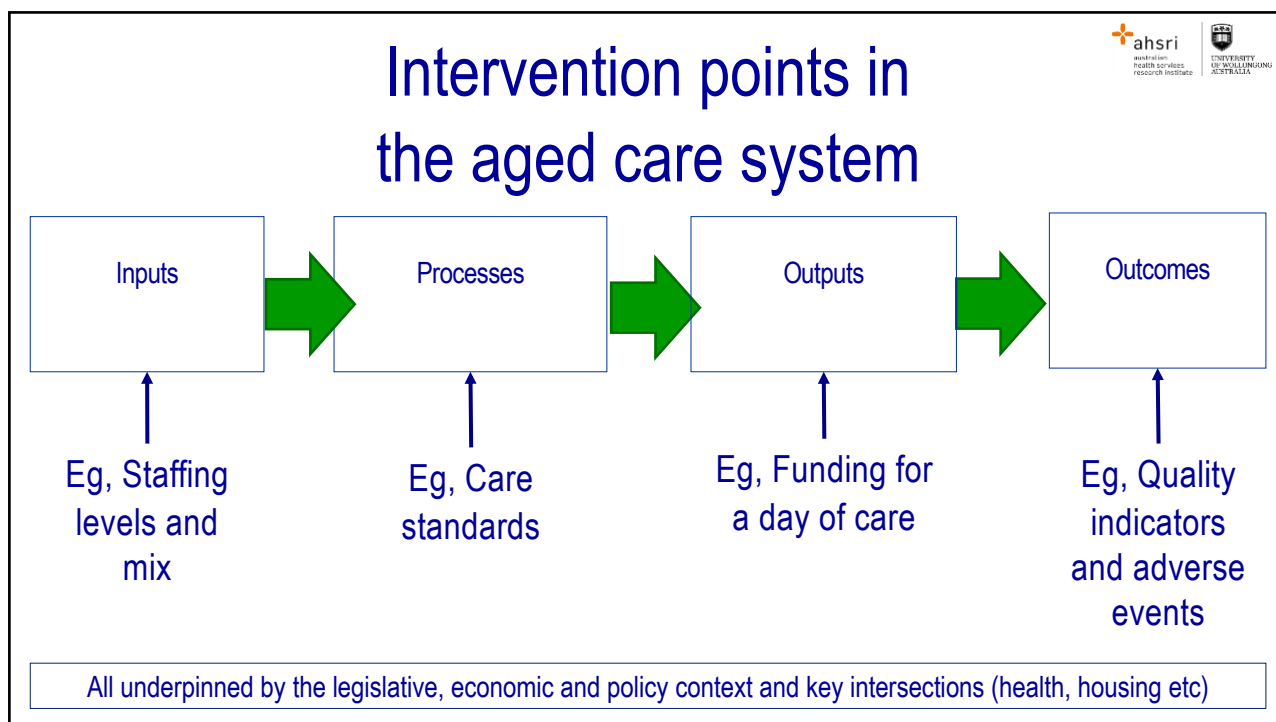
19



What research help?

Aged Care as an example

20



21



22

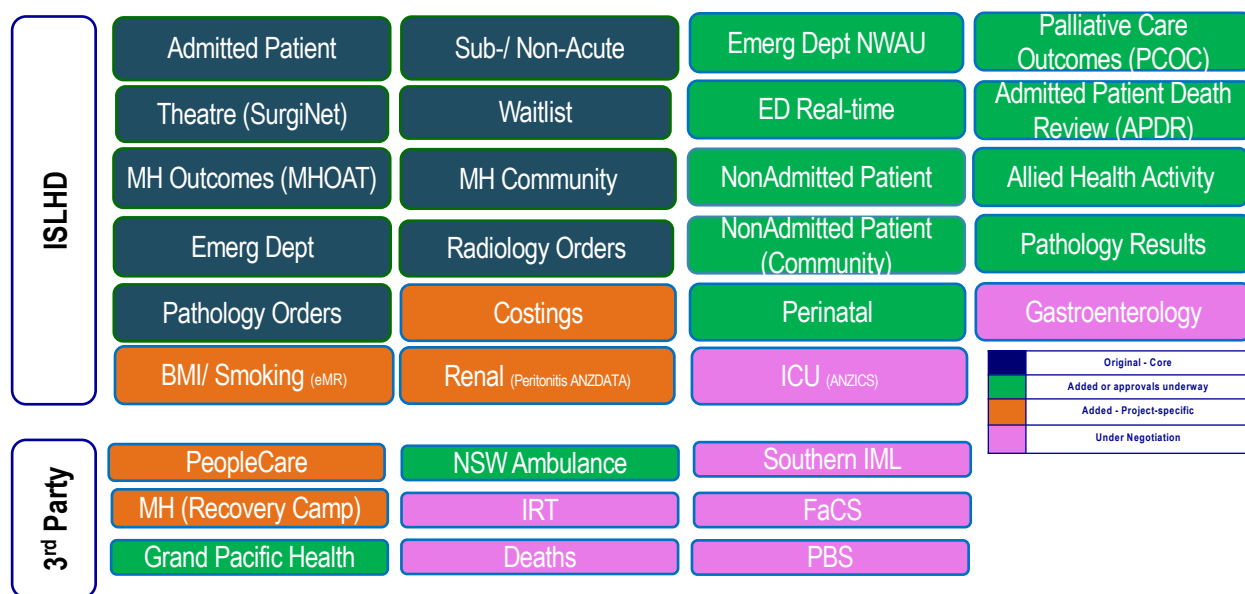
The partnership



- ◆ Research partnership – Illawarra Shoalhaven Local Health District (ISLHD) & AHSRI, University of Wollongong (UOW)
 - Centre for Health Research Illawarra Shoalhaven Population (CHRISP) is the team
 - Illawarra Health Information Platform (IHIP) is a powerful stand alone IT system
- ◆ Core business of the partnership is:
 - Provide access to high quality health data
 - Build capacity for research and development
 - Undertake research
 - ▼ Population health, health services and clinical research
 - Translate research findings into policy and practice

23

IHIP Data Sets



24

CHRISP 2016-19



Approved Projects	33 (12 completed)
Brief Reports	23
Conference Presentations & invited speaker presentations	71
Journal articles	14
Research Cafes/Meet and Greet	77
Grants	13
Student supervision (HDR & Undergraduate)	12 HDR; 9 other (10 completions)
Mentoring (ISLHD Research Central staff)	4
Translational Research Workshops	5

25

Ethics and other approvals



- ◆ ISLHD/ UOW ethics approval to establish non-identifiable health databank & records linkage system, plus linkage protocols
- ◆ With that approval in place, simplified processes for:
 - Individual projects
 - Linkage of third party data
- ◆ Make it easier for clinicians to undertake research as part of their routine work
- ◆ But significant bureaucratic and cultural issues at both Ministry and LHD levels had to be overcome

26

A case study

ED Frequent Flyers

27

Frequent ED attenders

Context

Perception that:

1. Emergency

Departments are clogged by large numbers of patients who don't need to attend and

2.LHDs can prevent them attending

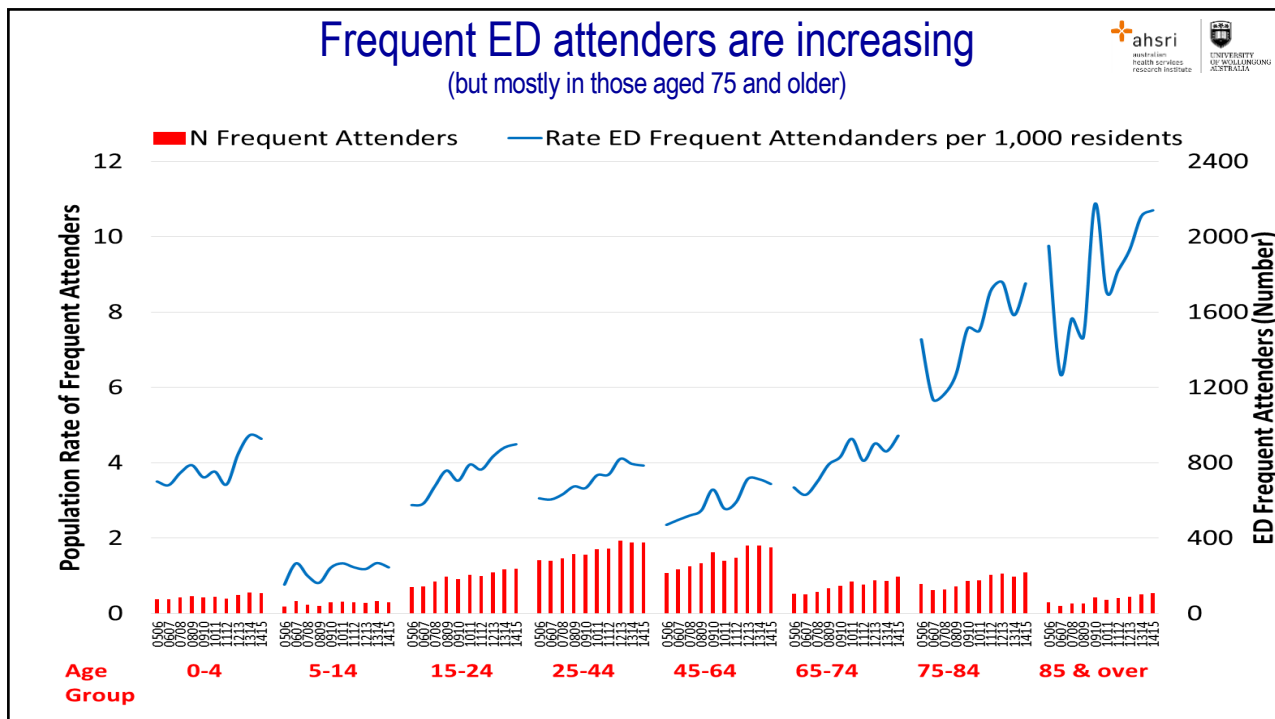
Aims:

- Describe longitudinal trends, including whether frequent attenders remain frequent attenders (most studies cross-sectional)
- Describe demographic, clinical profile of ISLHD frequent attenders
- Identify risk factors

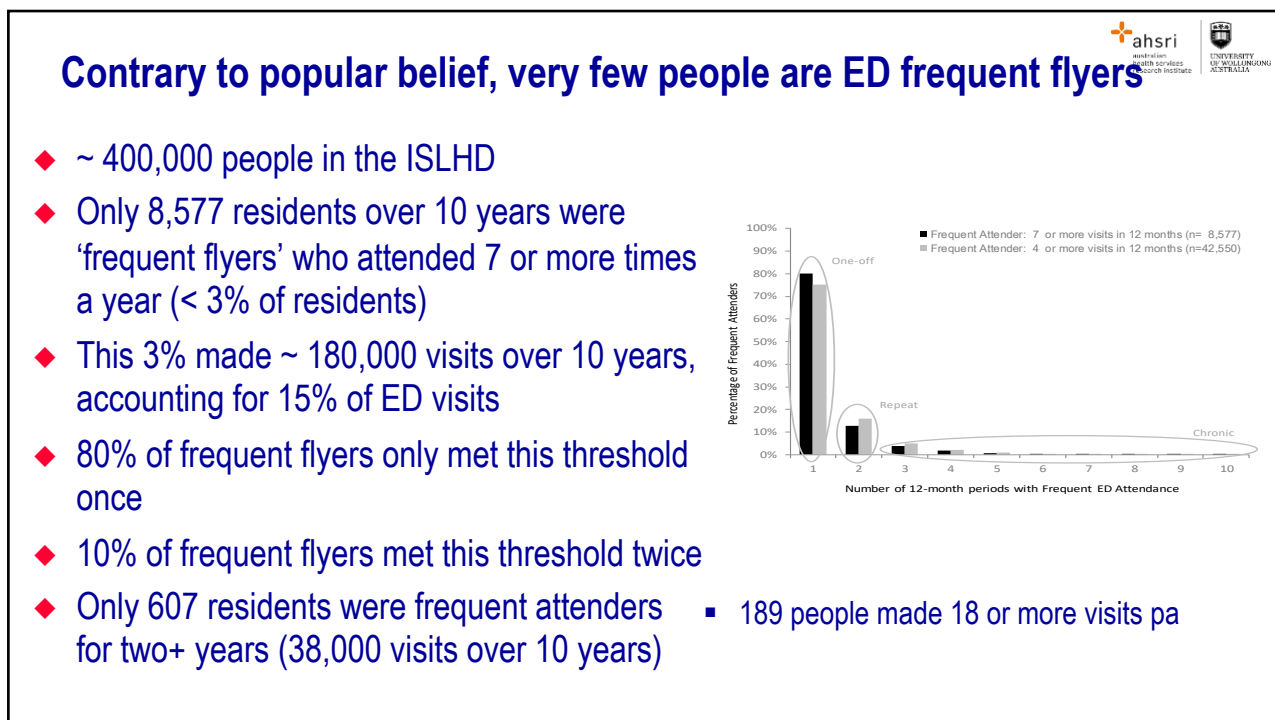
Methods:

- Retrospective longitudinal analysis of 10 years (05/06-15/16) of ED presentations to ISLHD EDs
- Frequent = 7+ visits to any ISLHD ED in 12-month window

28

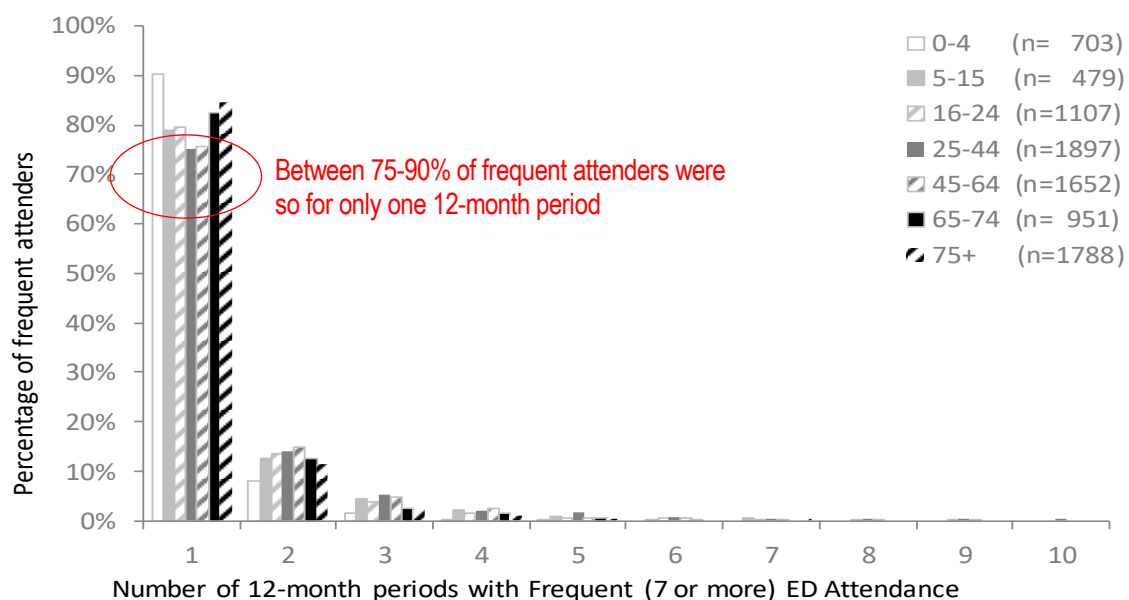


29



30

The pattern is consistent across age groups



31

Risk factors

- ◆ Male, not insured, Aboriginal, low triage, low socio-economic
 - Social determinants, not health conditions
- ◆ Chronic frequent flyers – mental health, 25-44 year olds, no partner

32

Research translation implications



- ◆ One size solutions to reducing unnecessary ED attendances will not work
- ◆ Need targeted ED diversion strategies for different age groups and for different social needs
- ◆ Strategies are required outside ED, not in it

33

Open access

Research



BMJ Open Here one year, gone the next? Investigating persistence of frequent emergency department attendance: a retrospective study in Australia

Luise Lago,¹ Victoria Westley-Wise,^{1,2} Judy Mullan,¹ Kelly Lambert,¹
Rebekah Zingel,³ Thomas Carrigan,⁴ Wayne Triner,⁴ Kathy Eagar⁵

To cite: Lago L, Westley-Wise V, Mullan J, *et al.* Here one year, gone the next? Investigating persistence of frequent emergency department attendance: a retrospective study in Australia. *BMJ Open* 2019;9:e027700. doi:10.1136/bmjopen-2018-027700

► Prepublication history and additional material for this paper are available online. To view these files, please visit

ABSTRACT

Objectives Patients are presenting to emergency departments (EDs) with increasing complexity at rates beyond population growth and ageing. Intervention studies target patients with 12 months or less of frequent attendance. However, these interventions are not well targeted since most patients do not remain frequent attenders. This paper quantifies temporary and ongoing frequent attendance and contrasts risk factors for each group.

Design Retrospective population-based study using 10 years of longitudinal data.

Strengths and limitations of this study

- Our unique, longitudinal data platform has enabled this study on long-term patterns of attendance to all emergency departments (EDs) within a single geographic region by frequent attenders over 10 years.
- We considered long-term frequent attendance patterns, which allowed for patients discontinuing frequent attendance and resuming later on.
- We contrasted sociodemographic and risk factors for temporary versus ongoing frequent attendance

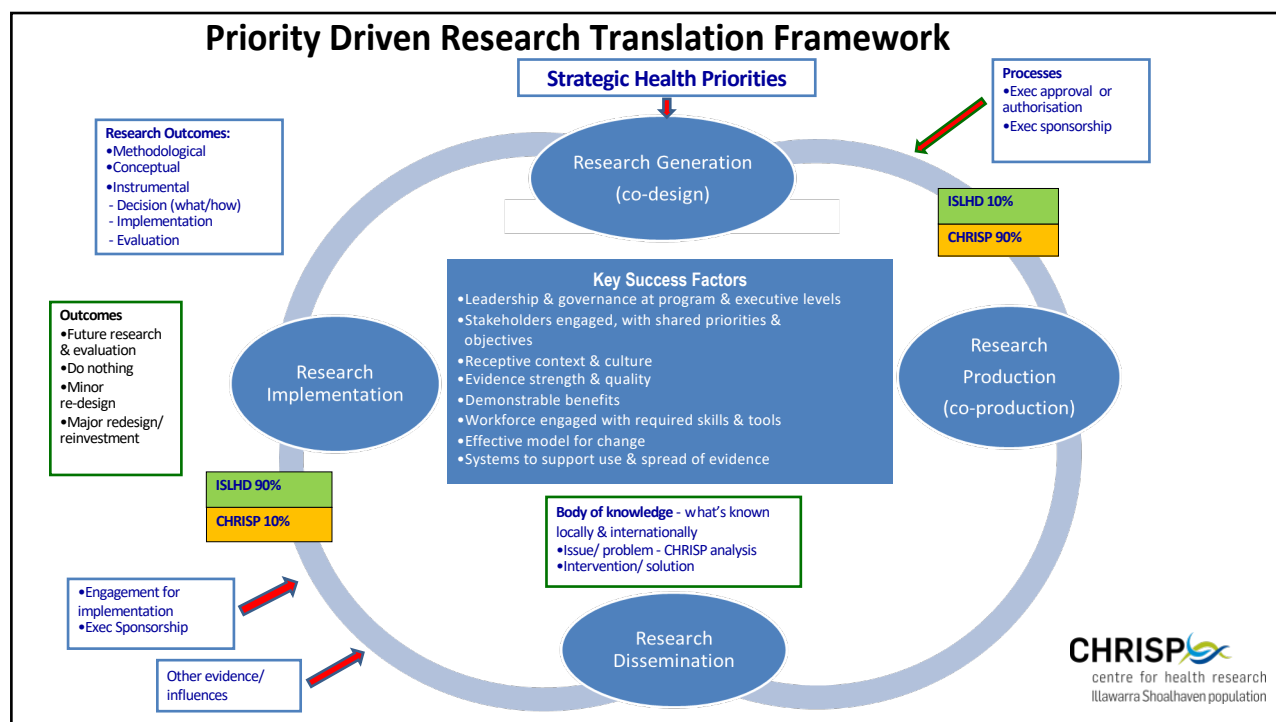
34

CHRISP Research Translation Model V1: hospital readmissions as an example



	What factors contribute to avoidable hospital readmissions?	Which factors are amenable to intervention? What can we change? How do we implement changes? How do we evaluate it?
Consumers (patients, families, carers, communities)		
Providers (clinicians, professional societies and health care organisations)		
Health system (policies, governance, funding, structures and processes, networks, relationships)		

35



36

Four phases


- ◆ Research generation
- ◆ Research production
- ◆ Research dissemination
- ◆ Research translation

37

Key Success Factors

- ◆ Leadership & governance at program & executive levels
- ◆ Stakeholders engaged, with shared priorities & objectives
- ◆ Receptive context & culture
- ◆ Evidence strength & quality
- ◆ Demonstrable benefits
- ◆ Workforce engaged with required skills & tools
- ◆ Effective model for change
- ◆ Systems to support use & spread of evidence

38



Can health services research help
solve real life problems facing the
Australian health system?

A: Yes, but...

39

But...

- ◆ Health care is really important and there are many other influences on the health system than just research evidence
 - health care is a 'strife of interests'
- ◆ Even when the evidence is accepted, translating evidence into policy and practice is difficult to achieve (eg, hand washing)

40

A strife of interests

- ◆ 3 key stakeholders
 - payers/governments (different values at different times)
 - clinicians (different values at different times)
 - community/consumers (different values at different times)
- ◆ Positive change only occurs when at least two of these three agree

Sidney Sax S. 1984 A Strife of Interests, Allen and Unwin, Sydney.

41

Conclusion

- ◆ HSR can help with real life problems facing the Australian health system but only when:
 - the research is multidisciplinary
 - health decision-makers can articulate the problem they want to solve
 - researchers know how to blur the usual academic distinction between 'investigator-driven' and 'priority-driven' research
 - there is a coherent stream of research, not just reactive
 - researchers work in partnerships with:
 - ▼ policy makers and/or
 - ▼ providers and/or
 - ▼ consumers

and can get any two
of them to agree

42