

Achievements in the land downunder

**Dr Diane Watson** 

Chief Executive Officer, Bureau of Health Information

September 2018



### Purpose

- Describe Australian examples where information on clinical variation has informed interventions to reduce unwarranted care
  - Underuse
  - Discretionary care
  - Unnecessary care
  - Poor outcomes of care
- Describe the levers for changed being used to reduce unwarranted variation

### Purpose

- Describe Australian examples where information on clinical variation has informed interventions to reduce unwarranted care
  - Underuse
  - Discretionary care
  - Unnecessary care
  - Poor outcomes of care
- Describe the levers for changed being used to reduce unwarranted variation

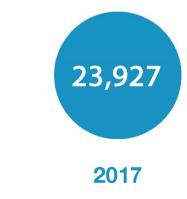
# **MEASLES CASES**

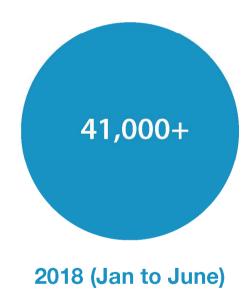
in the WHO European Region

5,273

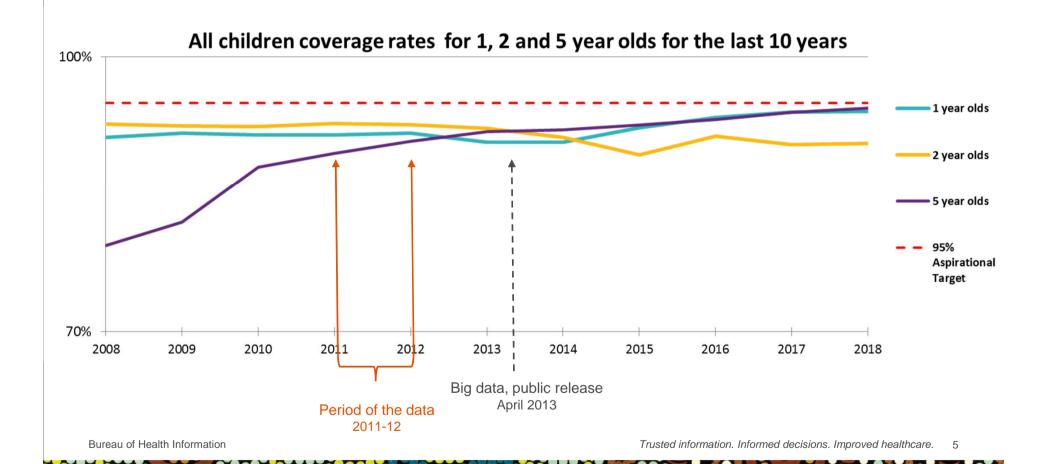
2016







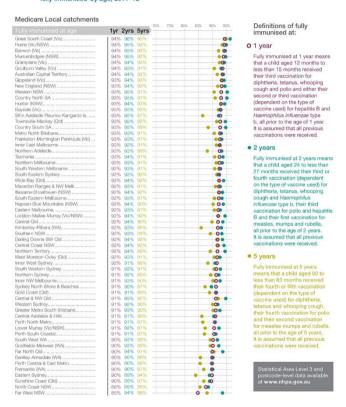
Bureau of Health Information



In 2013 Australia's National Health Performance Authority named 30 local communities where:

- 85% or less of 1, 2 or 5 year children who were not been fully immunised and, accordingly, at risk of being exposed to contagious diseases such as measles and whooping cough
- Among all 5 year olds, 23 of 61 catchments recorded less than 90% fully immunised. This was a much larger number of catchments than for all children aged 1 year (two out of 61 catchments) and 2 years (three out of 61 catchments)
- Percentages of Aboriginal and Torres Strait Islander children fully immunised were lower than for all children.

Figure 3: Percentages of all children' in each of 61 Medicare Local catchments that are fully immunised by age, 2011-12

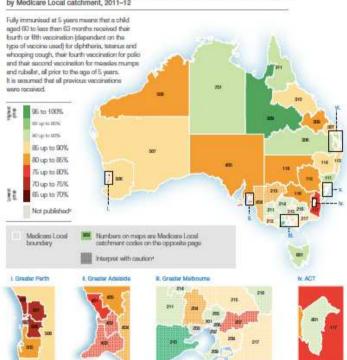


#### Children aged 5 years who were fully immunised, 2011-12

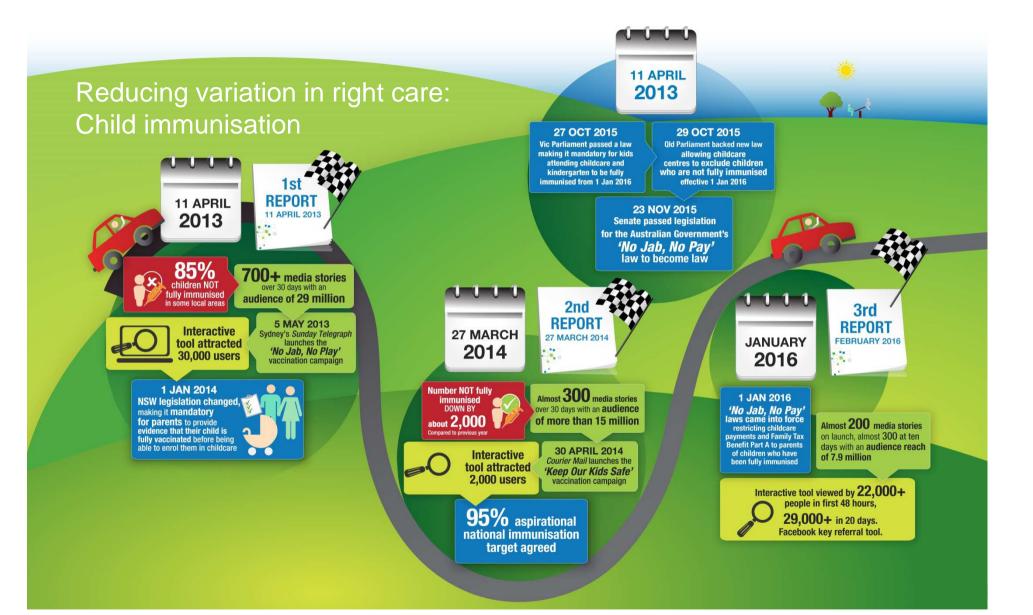
Percentages of children aged 5 years fully immunised, by Medicare Local catchment, 2011-12 Fully immunised at 5 years means that a child aged 60 to less than 63 months received their fourth or fifth vaccination (dependent on the type of vaccine used) for diphtheria, totanus and whooping cough, their fourth veccination for police and their second vaccination for measles mumps and rubelity, all prior to the age of 5 years. It is assumed that all previous vaccinations wore recover! 95 to 100% MO up to MOW 85 up to 90% 80 up to 85% 75 up to 80% Medicare Local III Numbers on maps are Medicare Local catchment codes on the opposite page boundary

#### Aboriginal and Torres Strait Islander children aged 5 years who were fully immunised, 2011-12

Percentages of Aboriginal and Torres Strait Islander children aged 5 years fully immunised, by Medicare Local catchment, 2011-12



Bureau of Health Information



#### Cognitive and competitive levers

- Public reporting of 1, 2 & 5 year olds (small area) with resultant media campaign in 2013
- Aspirational national immunisation target agreed (95%) in 2015

#### Normative, coercive and structural

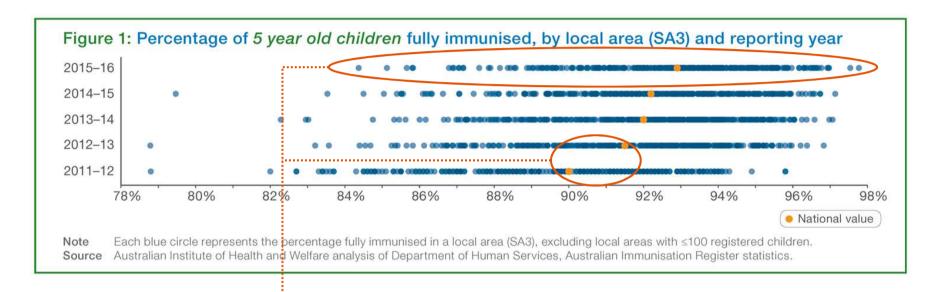
- Change in legislation & regulations (No jab, no play) from 2014 to 2016 across states
- Change in family benefits policy (No jab, No pay) in 2016
- Performance Agreements with Primary Health Networks in 2015

#### Supportive levers

- Information for parents, educators and health professionals
- Decision support tools for parents



### The result: Increased use of right care, reduction in variation



Reducing variation and increasing the national rate: Largest gain from commencement of public reporting and resultant media campaign in 2012-13. Subsequent gains related to changes to public health policy (No Jab, No Play) and social policy (No Jab, No Pay), establishment of an aspirational target (95%) and continued annual reporting of immunisation rates across small areas.

### The result: Increased use of right care, reduction in variation

In 2012-13 2/31 Primary Health Networks areas had rates above the National target of 95% for fully immunised children (5 year olds).

In 2015-16 3/31 Primary Health Network areas had rates above the National Target of 95% for fully immunised children (5 year olds).

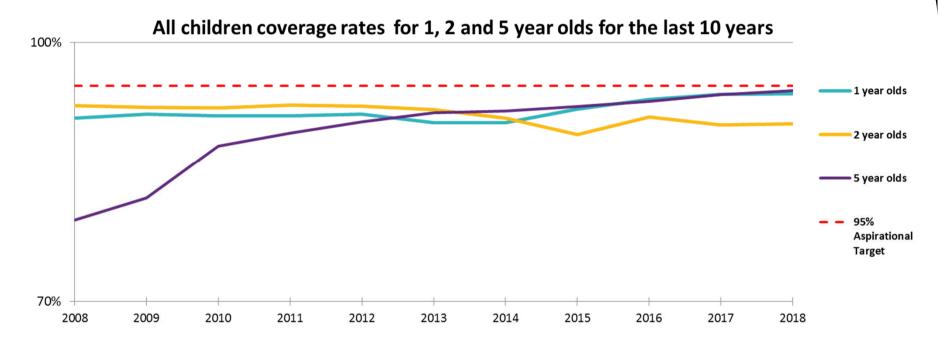
..... (see figure)

In 2016-17 10/31 Primary Health Networks areas had rates above the National target of 95% for fully immunised children (5 vear olds) (data available online).

By March 2018 17/31 Primary Health Network areas had rates above the National Target of 95% for fully immunised **children** (**5 year olds**) (data available online)

by Primary Health Network area, 2012–13 to 2015–16				
Primary Health Network area	2012-13	2013-14	2014-15	2015-10
Western NSW	94.0	94.3	95.6	96.1
Murrumbidgee (NSW)	93.7	95.0	95.7	96.0
Hunter New Eng. & Cent. Coast (NSW)	93.9	94.5	94.8	95.4
Gippsland (Vic)	94.2	93.4	93.5	94.9
South Eastern NSW	93.1	93.9	93.5	94.7
Nepean Blue Mountains (NSW)	92.9	93.3	94.0	94.7
Western Queensland	92.2	94.5	92.9	94.4
Western Victoria	93.8	93.6	93.5	94.2
Murray (Vic & part NSW)	92.7	93.2	93.5	94.2
Northern Queensland	92.7	93.2	93.7	94.1
South Western Sydney (NSW)	92.5	93.0	93.8	94.0
Darling Downs & West Moreton (Qld)	93.0	93.2	93.3	94.0
Tasmania	92.9	92.7	92.6	93.8
Country WA	91.2	92.3	92.0	93.6
Australian Capital Territory	92.3	92.7	93.2	93.5
Country SA	92.0	92.5	91.7	93.4
North Western Melbourne (Vic)	92.4	92.5	92.5	93.2
Eastern Melbourne (Vic)	92.1	92.4	92.4	93.2
Western Sydney (NSW)	91.7	92.2	92.4	93.0
Brisbane North (Qld)	92.0	92.7	93.0	92.9
South Eastern Melbourne (Vic)	92.1	91.7	92.1	92.6
Brisbane South (Qld)	91.0	92.2	92.0	92.3
Northern Territory	90.9	91.4	92.4	91.9
Adelaide (SA)	90.4	90.4	90.5	91.9
Cent. Qld, Wide Bay & Sunshine Coast	90.8	91.6	91.0	91.6
Central & Eastern Sydney (NSW)	89.4	90.1	90.8	91.5
Northern Sydney (NSW)	89.0	89.9	90.4	91.3
Gold Coast (Qld)	89.3	90.1	90.7	90.8
Perth South (WA)	88.6	88.9	90.0	90.8
Perth North (WA)	89.2	89.1	90.3	90.6
North Coast (NSW)	88.0	88.7	89.2	90.3
National	91.5	92.0	92.2	92.9

Figure 4: Immunication rates for 5 year old children



By March 2018 17/31 Primary Health Network areas had rates above the National Target of 95% for fully immunised children for 5 year olds and 12/31 Primary Health Networks had rates above the National Target of 95% for fully immunised children for 1 year olds (data available online)

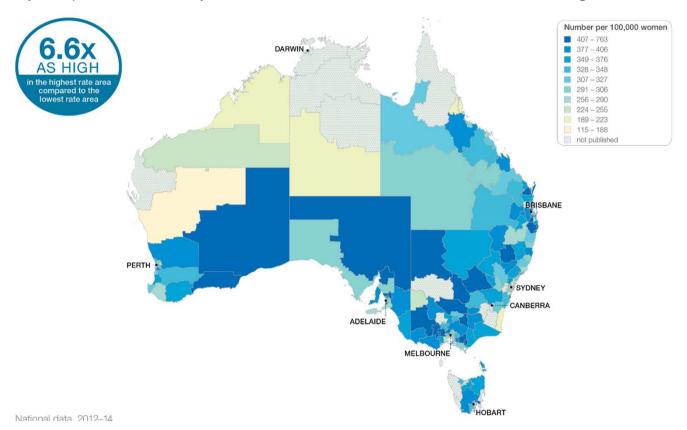
Bureau of Health Information

### Purpose

- Describe Australian examples where information on clinical variation has informed interventions to reduce unwarranted care
  - Underuse
  - Discretionary care
  - Unnecessary care
  - Poor outcomes of care
- Describe the levers for changed being used to reduce unwarranted variation

# Discretionary: The case of hysterectomy

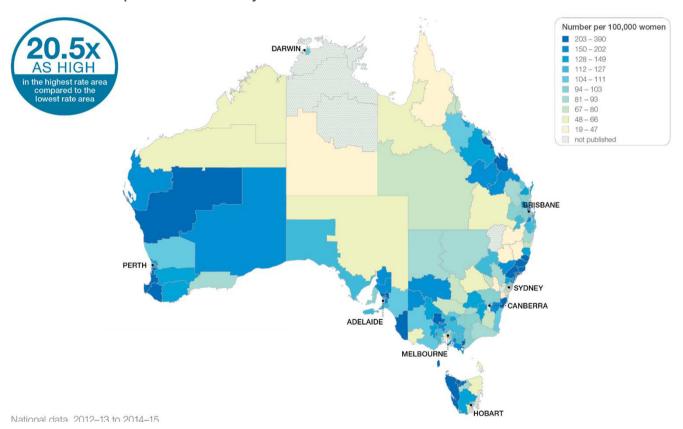
Hysterectomy hospitalisations 15 years and over, Australian rate is one of the highest in OECD



Bureau of Health Information

# Discretionary: The case of endometrial ablation

Endometrial ablation hospitalisations 15 years and over



Bureau of Health Information

### Discretionary care, increasing use of appropriate care

#### Cognitive and competitive levers

Public reporting of rates across small areas nationally in 2015

#### Normative and structural recommendations

Changes to advanced training programs for health professionals, change to the national fee-for-service schedule item descriptors to align with Clinical Care Standard, require women to be offered clinically appropriate treatment according to the Clinical Care Standard before put on surgical wait lists

#### Supportive levers

- Clinical Care Standards for health professionals in 2018
- Decision support tools for women in 2018



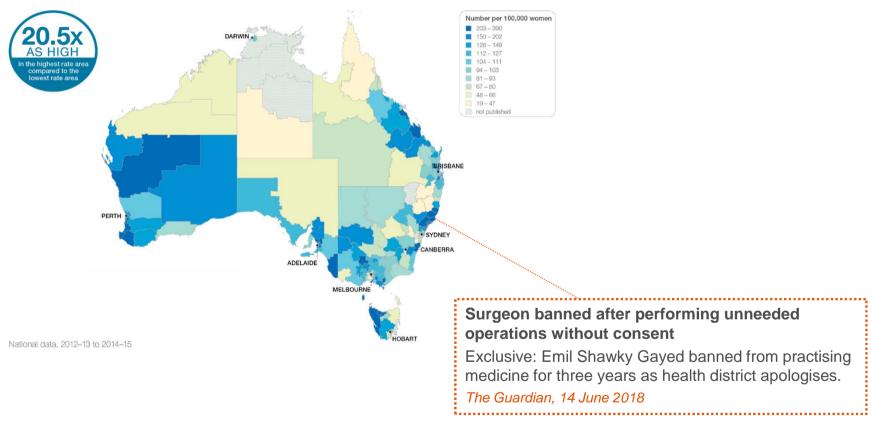
Formative

M

Normative

# Discretionary: The case of endometrial ablation

Endometrial ablation hospitalisations 15 years and over



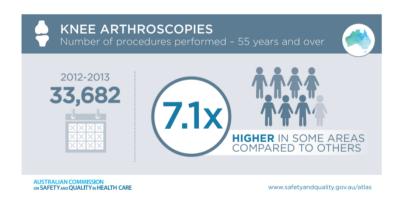
### Purpose

- Describe Australian examples where information on clinical variation has informed interventions to reduce unwarranted care
  - Underuse
  - Discretionary care
  - Unnecessary care
  - Poor outcomes of care
- Describe the levers for changed being used to reduce unwarranted variation

# Unnecessary care: The case of knee arthroscopies

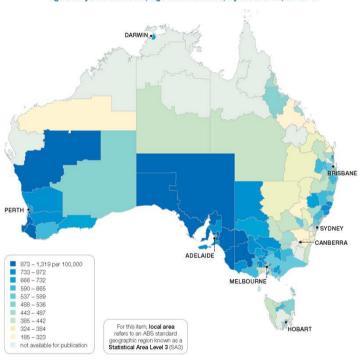
#### In 2015 ACSOHC and NHPA named local communities where:

33,682 knee arthroscopies are performed despite evidence the procedure is of limited value for people with osteoarthritis



#### Knee arthroscopy hospital admissions 55 years and over

Figure 30: Number of knee arthroscopy admissions to hospital per 100,000 people aged 55 years and over, age standardised, by local area, 2012-13



# Unnecessary care: The case of knee arthroscopies

#### In NSW

8,700 knee arthroscopies are performed despite evidence the procedure is of limited value for people with osteoarthritis

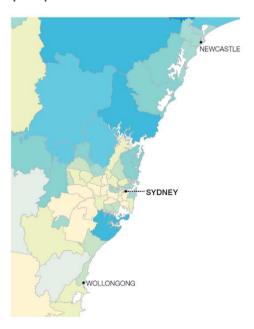
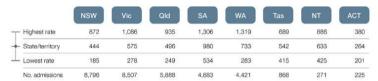
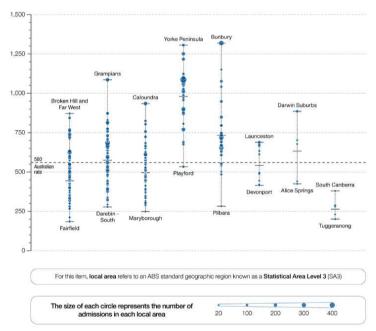


Figure 31: Number of knee arthroscopy admissions to hospital per 100,000 people aged 55 years and over, age standardised, by local area, state and territory, 2012-13





Bureau of Health Information

### Unnecessary care, increasing use of appropriate care

#### Cognitive and competitive levers

Public reporting of rates across small areas nationally in 2015

#### Formative and structural recommendations

- Changes to advanced training programs for health professionals regarding the management of knee pain
- Remove knee arthroscopy from the national fee-for-service schedule for this group

#### Supportive levers

- Clinical Care Standards for osteoarthritic knee pain in 2017
- Decision support tools for patients in 2017



# Unnecessary care: The case of knee arthroscopy

#### Cognitive and structural levers

- In 2011, a clinical governance process was introduced in Southwestern Sydney Local Hospital District requiring department head approval within hospitals for knee arthroscopy surgery for patients aged 50 years or older. Additionally, a letter was written to all primary care providers in the Local Hospital District explaining evidence against knee arthroscopy in this group and against unnecessary investigations.
- At the same time, international evidence was mounting in relation to the effectiveness of knee arthroscopy for this patient group.



### The result

Southwestern Sydney Local Health District, public hospitals

Private hospitals in the same district

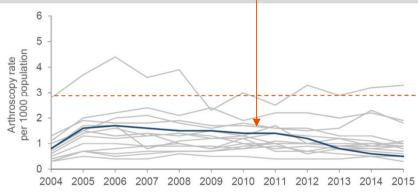
Knee arthroscopy demand rate for age 50+ by districts, (a) public and (b) private, between 2004 and 2015

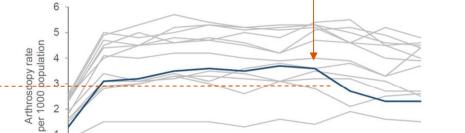
b

2004

2004-2014

Arthroscopy rate by district of residence, public hospital provision only, a 2004-2015





Arthroscopy rate by district of residence, private hospital provision only,



- South Western Sydney LHD
- Other districts

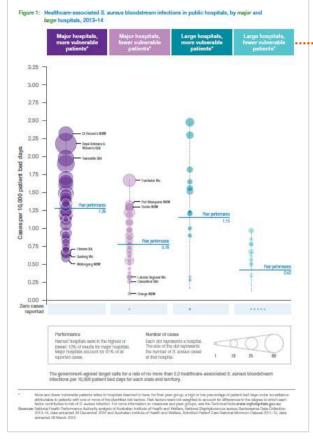
2005 2006 2007 2008 2009 2010 2011 2012 2013 2014

### Purpose

- Describe Australian examples where information on clinical variation has informed interventions to reduce unwarranted care
  - Underuse
  - Discretionary care
  - Unnecessary care
  - Poor outcomes of care
- Describe the levers for changed being used to reduce unwarranted variation

### Poor outcomes: Healthcare-associated SAB infections





Peer groups based on risk of infection

Bureau of Health Information

150 less

cases in

2 years

Dec 2015





June 2015









Aug 2015





May 2016







Apr 2017









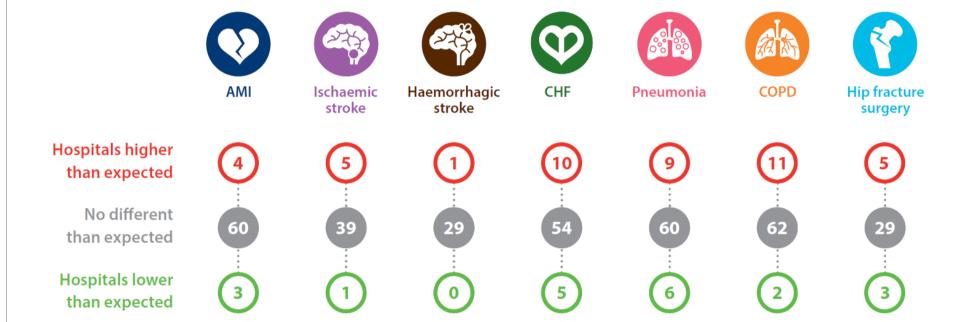






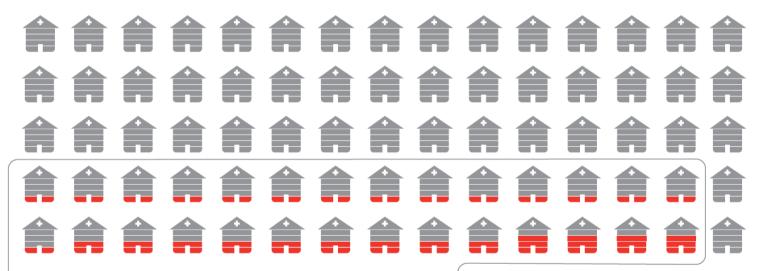


NSW public hospitals 30-day mortality results, by condition, NSW, July 2012 – June 2015



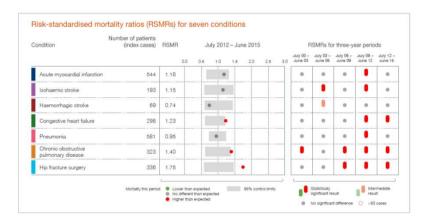
30-day mortality, concentration of outlier results across hospitals, NSW, July 2012 – June 2015 Among 75 referral, major and district hospitals, between July 2012 and June 2015:

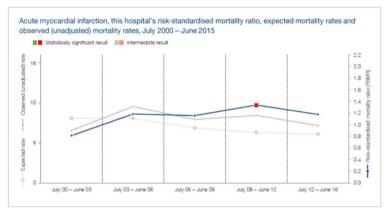
47 hospitals had no 'higher than expected' results

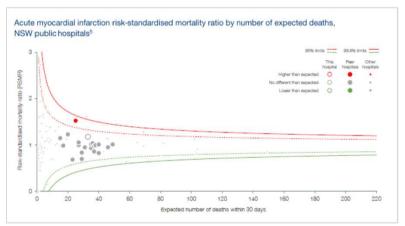


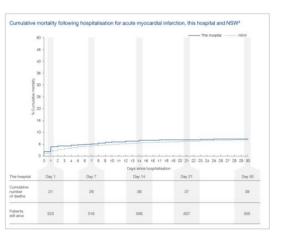
- 15 hospitals had higher than expected mortality for 1 condition
- 9 hospitals had higher than expected mortality for 2 conditions
- 4 hospitals had higher than expected mortality for 3 conditions

#### Example hospital profile

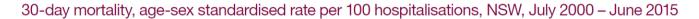


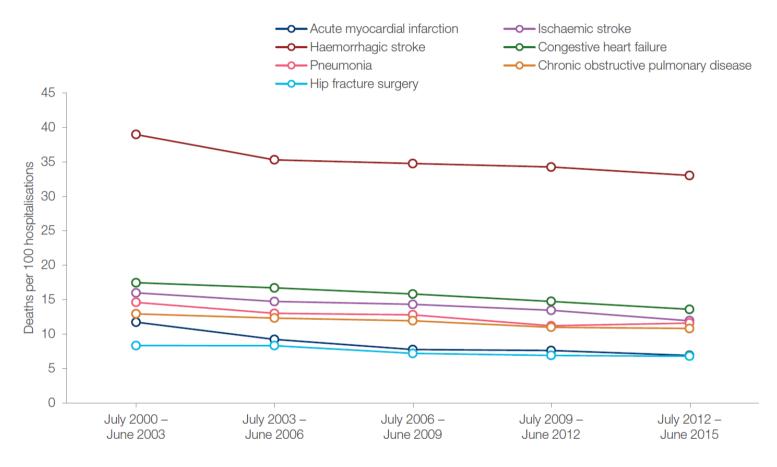






Bureau of Health Information





Bureau of Health Information

# Thank you

Diane.Watson@health.nsw.gov.au



Providing the community, healthcare professionals and policy makers with information that enhances visibility of the performance of the health system in NSW, in order to inform actions to improve healthcare and strengthen accountability.