Disinvestment in Australia OSTEBA 25 years with Euroscan

Bilbao October 2017

Prof Brendon Kearney

Disinvestment

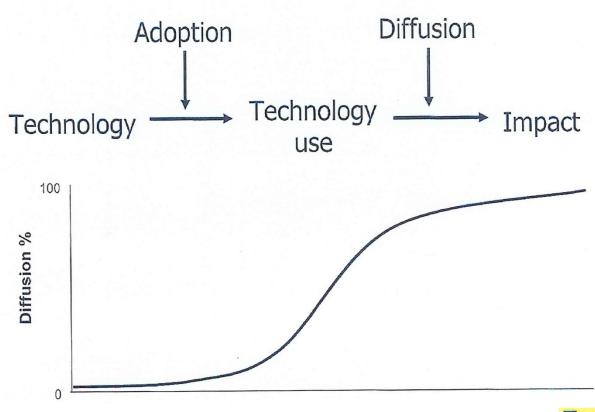
Disinvestment relates to the process of withdrawing health resources, either partially or completely, from existing healthcare practices (including procedures, devices, diagnostics, programmes and pharmaceuticals) that are deemed to deliver no or low health gain for their cost, and are thus not efficient health care resource allocations. Released resources can then be reinvested in clinical practices and technologies that deliver safe and effective healthcare for all patients, therefore representing efficient health resource allocation

The HTA sequence

General **Effectiveness** Safety and **Translational** Basic clinical use and costefficacy biomedical research effectiveness research Pragmatic trials Primary data collection Horizon-scanning & early awareness Reviews Cochrane reviews











Life cycle of technology

- Future technology technology not yet developed
- Emerging technology technology prior to adoption
- New technology technology in the phase of adoption
- Accepted technology technology in general use
- Obsolete technology technology that should be taken out of use



Passive Disinvestment and natural attrition

Many interventions become outmoded

e.g. Diagnostic ERCP

Epoetin β

Pegfilgastrin

Tonsillectomy

Appendicectomy

Active Disinvestment

Active strategies used in a more directive approach to reduce the practice of unnecessary, ineffective, inefficient or harmful interventions

Review of Medicare Benefits Schedule

More than 5000 items

- often no descriptors
- mostly no HTA

Remove obsolete items

Review high cost/volume items e.g. Colonoscopy
Coronary artery stenting

Comprehensive and ongoing

Choosing Wisely Australia

5 years30 organisations

- Medical colleges
- Societies Medical
 - Nursing
 - Pharmacy

Choosing Wisely Australia

More than 300 recommendations
Information for Clinicians and Patients
Established 5 years
Operated by NPS medicine wise
Funded by Australian Government
First annual meeting 2017
Evaluation planned
Hospital involvement

Health PACT

Technology Briefs designed to Change practice Tavi Renal nerve denervation **IVC** filters IV canulae in antibiotic use Mitraclip Bioresorbable stents Gynaecological mesh Pulmonary stents

State Health Department And based HTA committees

All states and New Zealand have Active programmes

- e.g. Auckland hospital
 - Catheter ablation for AF
 - Grommots

Pharmaceutical Benefits Scheme

Use of biosimilars generics

Limited expenditure growth to 1%

Hepatitis C – Public health QALY of \$14,000

PBS Costs

↑ by 13% from 1994 to 2005

 2005
 2.7%

 2006
 4.3%

 2007
 9.4%

 2008
 9.2%

 2009
 9.3%

 2010
 5.7%

Reduced since then by use of

- generics
- biosimilars
- but funding new high cost drugs

QALY

Used in PBAC assessments

No set amount

Can vary widely

PBAC

HPV Vaccine

High Qualy

Population Health approach

- reduction in cervical cancer and precursor lesions
- changes to cervical cancer screening programme

PBAC

Hepatitis C

- Industry submitted to PBAC for listing
- Request for approx \$3 billion dollars
- PBAC looks at Population Health approach to eliminate Hepatitis C from Australia
- Currently 230,000 patients
- PBAC Qualy assessed at \$15000
- PBAC/Health negotiates with industry to fund all drugs and genotypes
- 10 year agreement for approx. \$1 billion
 - Volume vs. price
 - risk for Government and Industry
- 30,000 treated in first six months
- Generic scheme ceased
- Associated public health programme

Genotype	No Previous Tr	eatment (naïve)	Previously Received Treatment (experienced)		
	No cirrhosis	With cirrhosis	No cirrhosis	With cirrhosis	
1 a/b	Ledipasvir/sofosbuvir (8 or 12 Weeks)	Ledipasvir/sofosbuvir (12 Weeks) or Sofosbuvir and Peg-Interferon alfa-2a/ribavirin (12 weeks)	Ledipasvir/sofosbuvir (12 Weeks) or Sofosbuvir and Peg-Interferon alfa-2a/ribavirin (12 weeks)	Ledipasvir/sofosbuvir (24 Weeks) or Sofosbuvir and Peg-Interferon alfa-2a/ribavirin (12 weeks)	
1 a/b	Daclatasvir and sofosbuvir (12 weeks)	Daclatasvir and sofosbuvir and ribavirin (12 weeks) or Daclatasvir and sofosbuvir (24weeks)	Daclatasvir and sofosbuvir (12 or 24 weeks)	Daclatasvir and sofosbuvir and ribavirin (12 weeks) or Daclatasvir and sofosbuvir (24weeks)*	
1a	Paritaprevir-ritonavir, ombitasvir, dasabuvir and ribavirin (12 weeks)	Paritaprevir-ritonavir, ombitasvir, dasabuvir and ribavirin (12 weeks)	Paritaprevir-ritonavir, ombitasvir, dasabuvir and ribavirin (12 weeks)	Paritaprevir-ritonavir, ombitasvir, dasabuvir and ribavirin (12 or 24 weeks)	
1b*	Paritaprevir-ritonavir, ombitasvir and dasabuvir (12 weeks)	Paritaprevir-ritonavir, ombitasvir and dasabuvir (12 weeks)	Paritaprevir-ritonavir, ombitasvir and dasabuvir (12 weeks)	Paritaprevir-ritonavir, ombitasvir and dasabuvir (12 weeks)	
2	Sofosbuvir and ribavirin (12 weeks)	Sofosbuvir and ribavirin (12 weeks)	Sofosbuvir and ribavirin (12 weeks)	Sofosbuvir and ribavirin (12 weeks)	
3	Daclatasvir and sofosbuvir (12 weeks) or Sofosbuvir and ribavirin (24 weeks)	Daclatasvir and sofosbuvir (24weeks) or Sofosbuvir and ribavirin (24 weeks)	Daclatasvir and sofosbuvir (12 weeks) or Sofosbuvir and ribavirin (24 weeks)	Daclatasvir and sofosbuvir (24 weeks) or Sofosbuvir and ribavirin (24 weeks)	

Australian Safety and Quality Commission

2nd Atlas of variation in Healthcare 2017

Developed Chronic disease management programs COPD

Heart Failure

Diabetes

Data item	Range across local areas' per 100,000	Times difference	Times difference excluding top and bottom 10%	Number ove one yea	
1.1 Chronic obstructive pulmonary disease	63 to 990	15.7	3.3	66,250	
Hospitalisations, all ages				•	
1.2 Heart failure	90 to 632	7.0	2.1	55,511	
Hospitalisations, all ages	7		Sant I	00,011	
1.3 Cellulitis	102 to 1,262	12.4	2.9	59,466	
Hospitalisations, all ages			2.0	39,400	
1.4 Kidney and urinary tract infections	140 to 899	6.4	2.2	73,277	
Hospitalisations, all ages					
1.5 Diabetes complications	52 to 601	11.6	2.8	43,737	
Hospitalisations, all ages			2.0	40,101	

[^] Statistical Area 3

Data item	Range across local areas [^] per 100,000	Times difference	Times difference excluding top and bottom 10%	Number over one year
2.1 Acute myocardial infarction	105 to 905	8.6	2.6	32,388
Hospitalisations, people aged 35–84 years			*	
2.2 Atrial fibrillation	192 to 740	3.9	1.7	58,608
Hospitalisations, people aged 35 years and over				

[^] Statistical Area 3

Recommendations

- 2a. State and territory health departments to examine variation in the timeliness and access of patients to appropriate investigations and interventions for suspected acute myocardial infarction.
- 2b. The Commission to develop a clinical care standard on the management of atrial fibrillation.

4. Surgical interventions

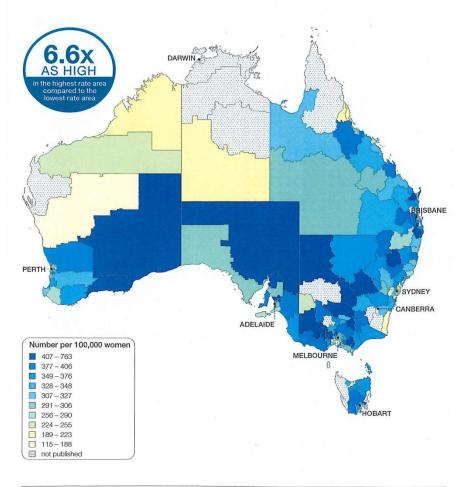
Data item	Range across local areas' per 100,000	Times difference	Times difference excluding top and bottom 10%	Number over one year
4.1 Knee replacement	128 to 507	4.0	1.9	52,039
Hospitalisations, people aged 18 years and over				
(See table below for 4.2 and 4.3)				
4.4 Laparoscopic cholecystectomy	89 to 392	4.4	2.0	49,874
Hospitalisations, all ages				
4.5 Appendicectomy	103 to 360	3.5	1.7	40,752
Hospitalisations, all ages			×	
4.6 Cataract surgery	835 to 3,279	3.9	1.6	245,797
Hospitalisations, people aged 40 years and over				
Data item	Range across local areas' per 100,000	Times difference	Times difference excluding top and bottom 10%	Number over three years
4.2 Lumbar spinal decompression	30 to 156	5.2	. 2.0	44,169
Hospitalisations, people aged 18 years and over				
4.3 Lumbar spinal fusion	10 to 69	6.9	2.5	14,746
Hospitalisations, people aged 18 years and over				

[^] Statistical Area 3

			·	
Data item	Range across local areas [^] per 100,000	Times difference	Times difference excluding top and bottom 10%	Number ove one yea
3.1 Hysterectomy	115 to 763	6.6	2.1	27,58
Hospitalisations, women aged 15 years and over				
Data item	Range across local areas' per 100,000	Times difference	Times difference excluding top and bottom 10%	Number ove three years
3.2 Endometrial ablation	19 to 390	20.5	4.2	28,606
Hospitalisations, women aged 15 years and over				
3.3 Cervical loop excision cervical laser ablation	23 to 408	17.7	2.1	43,920
Hospitalisations, women aged 15 years and over				
Data item	Range across local areas [^] per 1,000 selected women	Times difference	Times difference excluding top and bottom 10%	Number over three years
3.4 Caesarean section, selected women aged 20–34 years	147 to 438	3.0	i.5	75,018
Data item	Range across local areas [^] per 1,000 vaginal births	Times difference	Times difference excluding top and bottom 10%	Number over three years
3.5 Third- and fourth-degree perineal tears, all vaginal births	6 to 71	11.8	2.9	18,463
				

Hysterectomy hospitalisations 15 years and over

Figure 3.4: Number of hospitalisations for hysterectomy per 100,000 women aged 15 years and over, age standardised, by Statistical Area Level 3 (SA3), 2014-15: Australia map





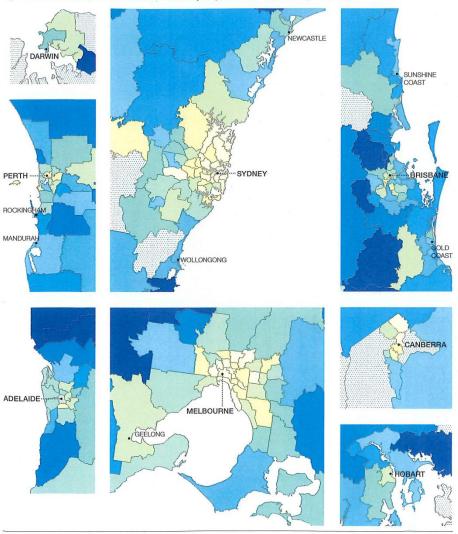
Rates are age standardised to the Australian female population in 2001.

Rates are based on the number of hospitalisations in public and private hospitals (numerator) and women in the geographic area (denominator). Analysis is based on the patient's area of usual residence, not the place of hospitalisation.

For further detail about the methods used, please refer to the Technical Supplement,

Sources: AlHW analysis of National Hospital Morbidity Database 2014–15 and ABS Estimated Resident Population 30 June 2014.

Figure 3.5: Number of hospitalisations for hysterectomy per 100,000 women aged 15 years and over, age standardised, by Statistical Area Level 3 (SA3), 2014-15: capital city area maps



Rates are age standardised to the Australian female population in 2001.

Rates are based on the number of hospitalisations in public and private hospitals (numerator) and women in the geographic area (denominator).

Analysis is based on the patient's area of usual residence, not the place of hospitalisation.

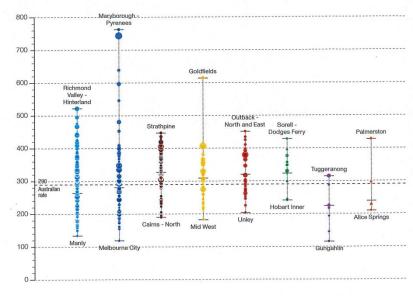
For further detail about the methods used, please refer to the Technical Supplement.

Sources: AllHW analysis of National Hospital Morbidity Database 2014-15 and ABS Estimated Resident Population 30 June 2014.

Hysterectomy hospitalisations 15 years and over

Figure 3.6: Number of hospitalisations for hysterectomy per 100,000 women aged 15 years and over, age standardised, by Statistical Area Level 3 (SA3), state and territory, 2014–15







Motoe.

Notes:
Rates are age standardised to the Australian female population in 2001.

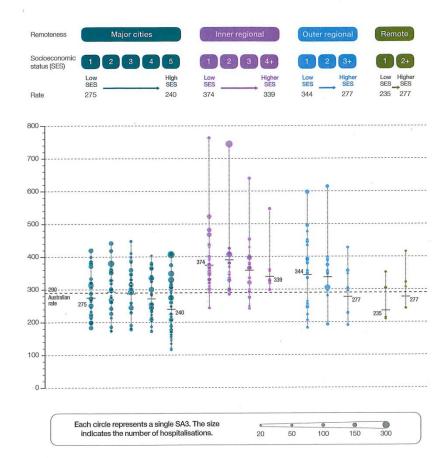
Rates are based on the number of hospitalisations in public and private hospitals (numerator) and women in the geographic area (denominator).

Analysis is based on the patient's area of usual residence, not the place of hospitalisation.

For further detail about the methods used, please refer to the Technical Supplement.

Sources: AIHW analysis of National Hospital Morbidity Database 2014–15 and ABS Estimated Resident Population 30 June 2014.

Figure 3.7: Number of hospitalisations for hysterectomy per 100,000 women aged 15 years and over, age standardised, by Statistical Area Level 3 (SA3), remoteness and socioeconomic status, 2014–15



Notes

Rates are age standardised to the Australian female population in 2001.

Rates are age standardised to the Australian letriale population in 2001.

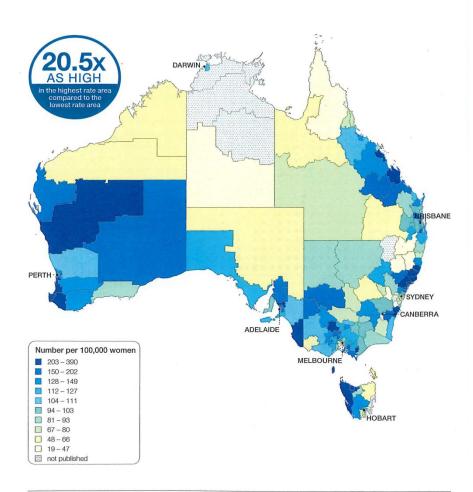
Rates are based on the number of hospitalisations in public and private hospitals (numerator) and women in the geographic area (denominator).

Analysis is based on the patient's area of usual residence, not the place of hospitalisation. For further detail about the methods used, please refer to the Technical Supplement.

Sources: AlHW analysis of National Hospital Morbidity Database 2014–15 and ABS Estimated Resident Population 30 June 2014.

Endometrial ablation hospitalisations 15 years and over

Figure 3.11: Number of hospitalisations for endometrial ablation per 100,000 women aged 15 years and over, age standardised, by Statistical Area Level 3 (SA3), 2012-13 to 2014-15: Australia map





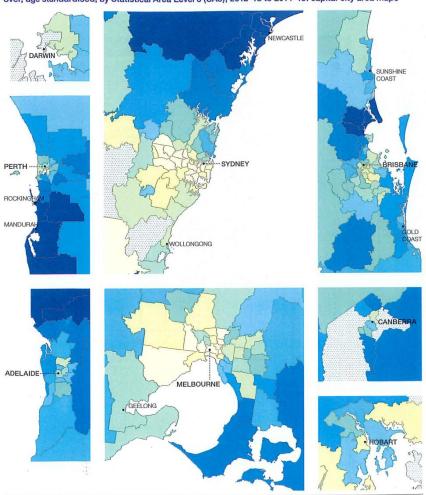
Rates are age standardised to the Australian female population in 2001.

Rates are based on the number of hospitalisations in public and private hospitals (numerator) and women in the geographic area (denominator). Analysis is based on the patient's area of usual residence, not the place of hospitalisation.

For further detail about the methods used, please refer to the Technical Supplement.

Sources: All-W analysis of National Hospital Morbidity Database 2012–15 and ABS Estimated Resident Population 30 June 2012 to 2014.

Figure 3.12: Number of hospitalisations for endometrial ablation per 100,000 women aged 15 years and over, age standardised, by Statistical Area Level 3 (SA3), 2012-13 to 2014-15: capital city area maps



Rates are age standardised to the Australian female population in 2001.

Rates are based on the number of hospitalisations in public and private hospitals (numerator) and women in the geographic area (denominator). Analysis is based on the patient's area of usual residence, not the place of hospitalisation.

For further detail about the methods used, please refer to the Technical Supplement.

Sources: All-IW analysis of National Hospital Morbidity Database 2012–15 and ABS Estimated Resident Population 30 June 2012 to 2014.

Endometrial ablation hospitalisations 15 years and over

Figure 3.13: Number of hospitalisations for endometrial ablation per 100,000 women aged 15 years and over, age standardised, by Statistical Area Level 3 (SA3), state and territory, 2012-13 to 2014-15



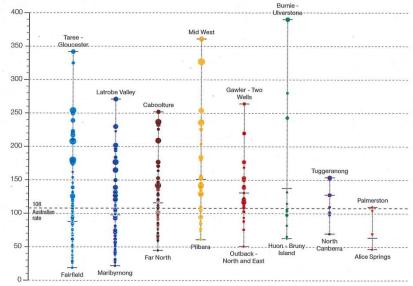
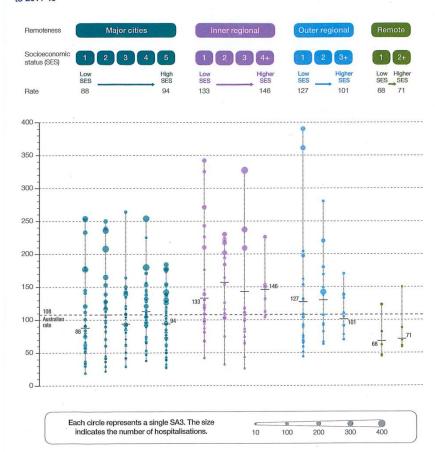




Figure 3.14: Number of hospitalisations for endometrial ablation per 100,000 women aged 15 years and over, age standardised, by Statistical Area Level 3 (SA3), remoteness and socioeconomic status, 2012-13 to 2014-15



Rates are age standardised to the Australian female population in 2001.

Rates are based on the number of hospitalisations in public and private hospitals (numerator) and women in the geographic area (denominator).

Analysis is based on the patient's area of usual residence, not the place of hospitalisation.

For further detail about the methods used, please refer to the Technical Supplement.

Sources: AlHW analysis of National Hospital Morbidity Database 2012-15 and ABS Estimated Resident Population 30 June 2012 to 2014.

Rates are age standardised to the Australian female population in 2001.

Rates are based on the number of hospitalisations in public and private hospitals (numerator) and women in the geographic area (denominator).

Analysis is based on the patient's area of usual residence, not the place of hospitalisation. For further detail about the methods used, please refer to the Technical Supplement.

Sources: AIHW analysis of National Hospital Morbidity Database 2012-15 and ABS Estimated Resident Population 30 June 2012 to 2014.