AUSTRALIAN COMMISSION ON SAFETY AND QUALITY IN HEALTH CARE

Women's health and maternity

The Second Australian Atlas of Healthcare Variation

2017





The Australian Atlas of Healthcare Variation series



AUSTRALIAN COMMISSION
ON SAFETY AND QUALITY IN HEALTH CARE



Interactive Atlas Platform

The Australian Atlas of Healthcare Variation

Mapping variation is an invaluable tool for understanding how our healthcare system is providing care. The Australian Atlas of Healthcare Variation series illuminates variation by mapping use of health care according to where people live. Each Atlas identifies specific achievable actions for exploration and quality improvement.

Healthcare Variation - what does it tell us?

Some variation is expected and associated with need-related factors such as underlying differences in the health of specific populations, or personal preferences. However, the weight of evidence in Australia and internationally suggests that much of the variation documented in the Atlas is likely to be unwarranted. Understanding this variation is critical to improving the quality, value and appropriateness of health care.

The Second Australian Atlas of Healthcare Variation data set specifications are available at METeOR

The First Australian Atlas of Healthcare Variation data set specifications are available at METeOR

Interactive Atlas



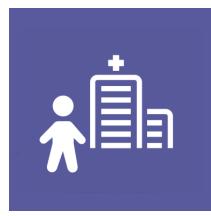






Second Australian Atlas of Healthcare Variation

Examines variation nationally in 18 clinical items, grouped into 4 themes









Chronic disease and infection

- Chronic obstructive pulmonary disease (COPD)
- Heart failure
- Cellulitis
- Kidney and urinary tract infections
- Diabetes complications

Cardiovascular conditions

- Acute myocardial infarction
- Atrial fibrillation

Women's health and maternity

- Hysterectomy
- **Endometrial ablation**
- Cervical loop excision or cervical laser ablation
- Vaginal deliveries with third or fourth degree perineal tear
- Caesarean section, ages 20 to 34 years

Surgical interventions

- Knee replacement
- Lumbar spinal decompression
- Lumbar spinal fusion
- Laparoscopic cholecystectomy
- Appendicectomy
- Cataract surgery





Australian Commission on Safety and Quality in Health Care

- Australian Government agency
- Leads & coordinates national improvements in safety & quality of health care based on best available evidence
- Works in partnership with patients, consumers, clinicians, managers, policy makers & health care organisations
- Aims to ensure that the health system is sustainable, better informed, supported & organised to deliver safe & high quality care





Inside this toolkit

- Why does variation matter?
- How is variation measured in the Atlas?
- How is variation presented in the Atlas?
- Women's health and maternity: key findings
- Conclusion
- Further resources.





Why does variation matter?

- Large variations in healthcare use have been documented by researchers around the world for many years
- A proportion of this variation is termed 'unwarranted'
- Unwarranted variation:
 - is unrelated to patient need or preference
 - may signal inappropriate care
 - may signal ineffective use of resources
- It raises questions about appropriateness of care, health system efficiency, equity and access
- Can highlight opportunities for further investigation and for the health system to improve.





How is variation measured in the Atlas?

- Healthcare use is mapped by residence of patient (not location of the healthcare provider)
- Location of residence mapped to Statistical Area Level 3 (SA3)
- Data are age- and sex-standardised
- Data sources used:
 - National Hospital Morbidity Database (NHMD)
 - National Perinatal Data Collection (NPDC)
- Data analysis and extraction performed by the Australian Institute of Health and Welfare (AIHW).





How is variation presented in the Atlas?

- Data are presented in maps and graphs
- For items where there were small numbers, three years of data have been presented
- Statistical Area Level 3 data is presented for:
 - state and territory analysis
 - remoteness and socioeconomic disadvantage
- State and territory level data is presented for:
 - Aboriginal and Torres Strait Islander Australian status
 - public and private patient funding status.





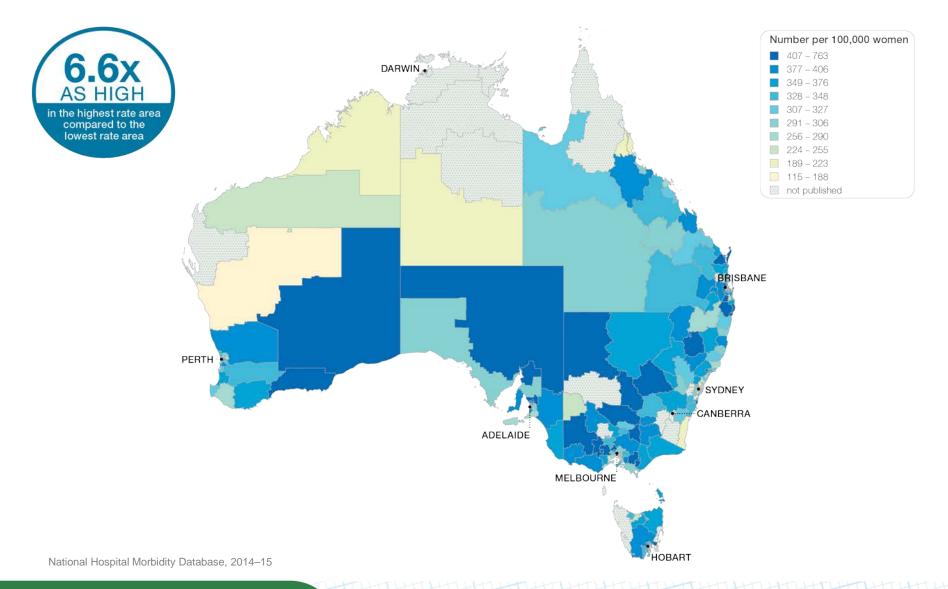
Women's health and maternity key findings

Data item	Range across SA3s per 100,000 women	Times difference	Times difference excluding top and bottom 10%	Number over one year
3.1 Hysterectomy	115 to 763	6.6	2.1	27,586
Hospitalisations, women aged 15 years and over				
Data item	Range across SA3s per 100,000 women	Times difference	Times difference excluding top and bottom 10%	Number over 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 SA3s 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	1.5	75,018
Data item	Range across SA3s 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



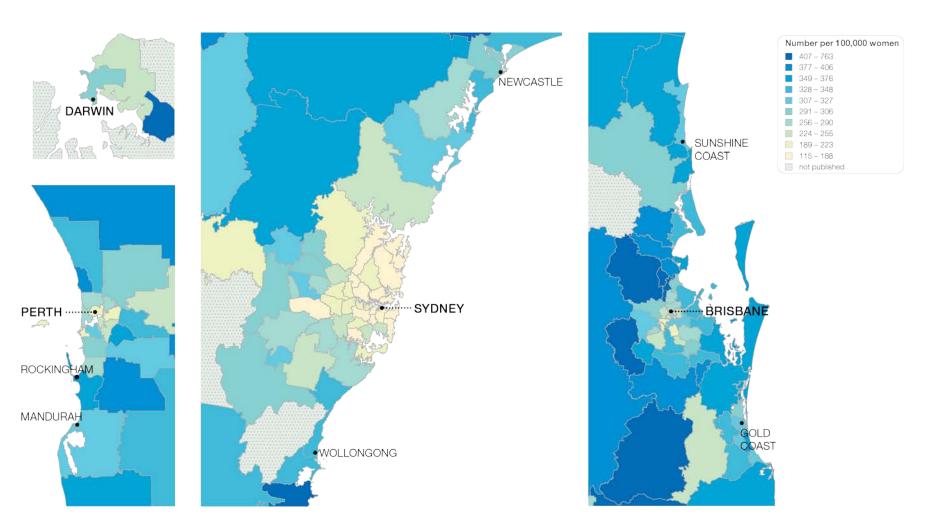




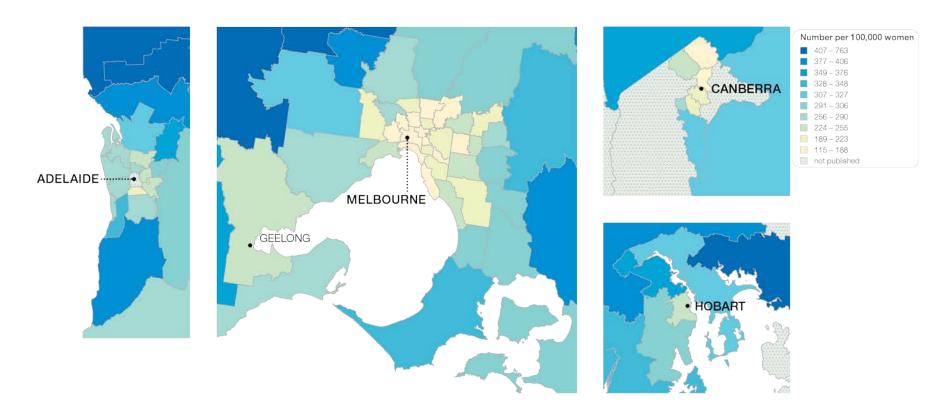






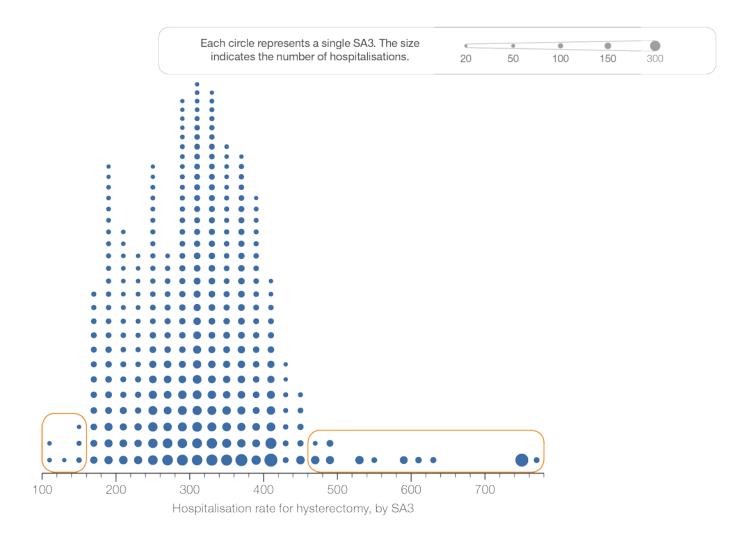










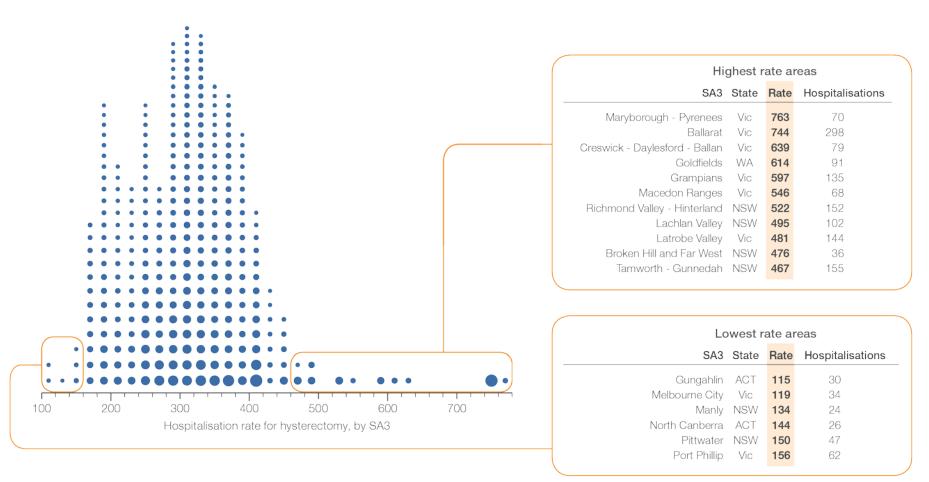








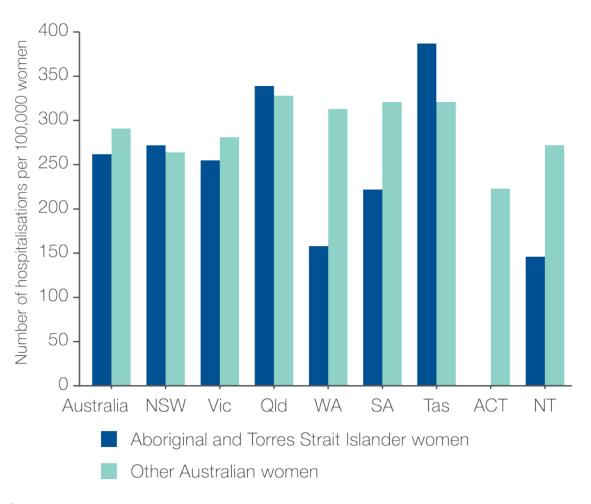








Aboriginal and Torres Strait Islander status

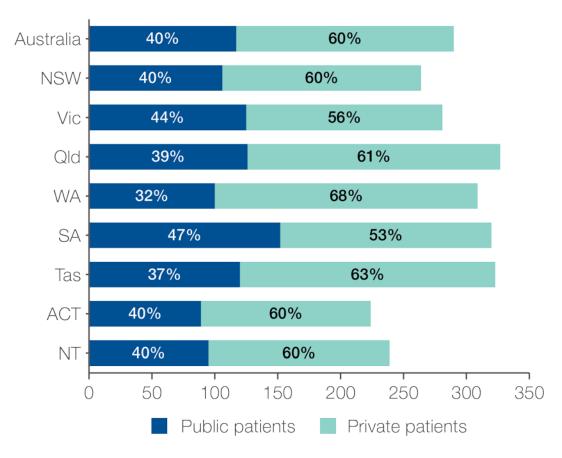








Patient funding status



Number of hospitalisations per 100,000 women

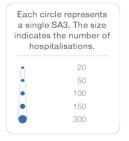


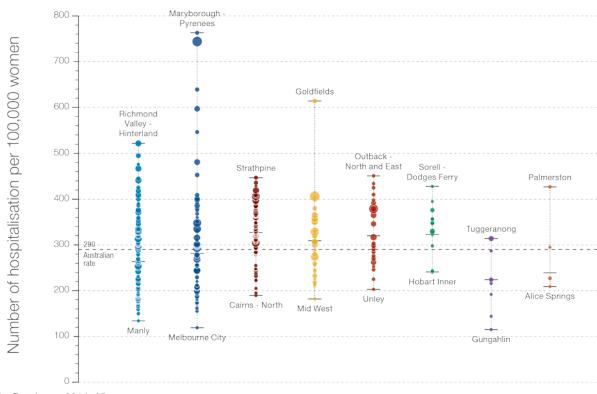




State and territory





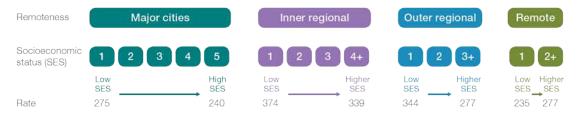


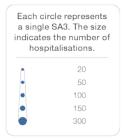


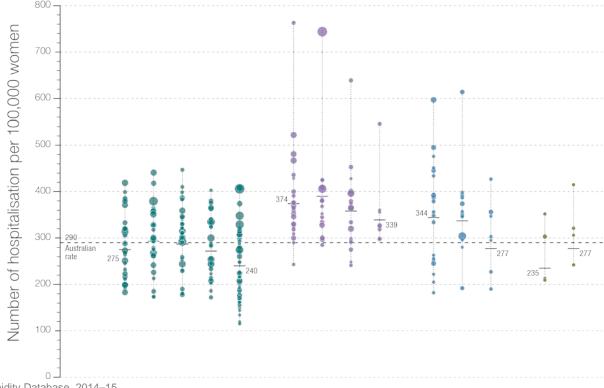




Remoteness and socioeconomic status



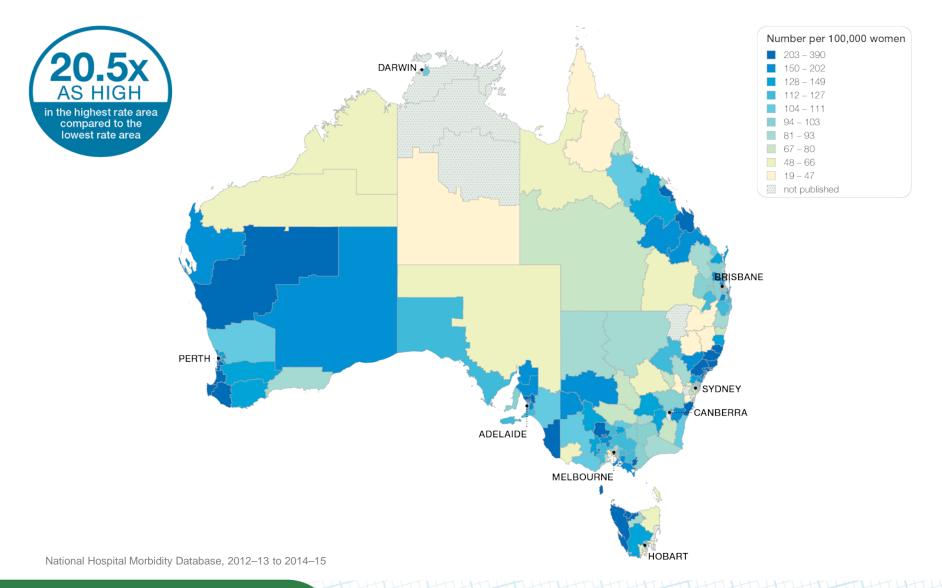






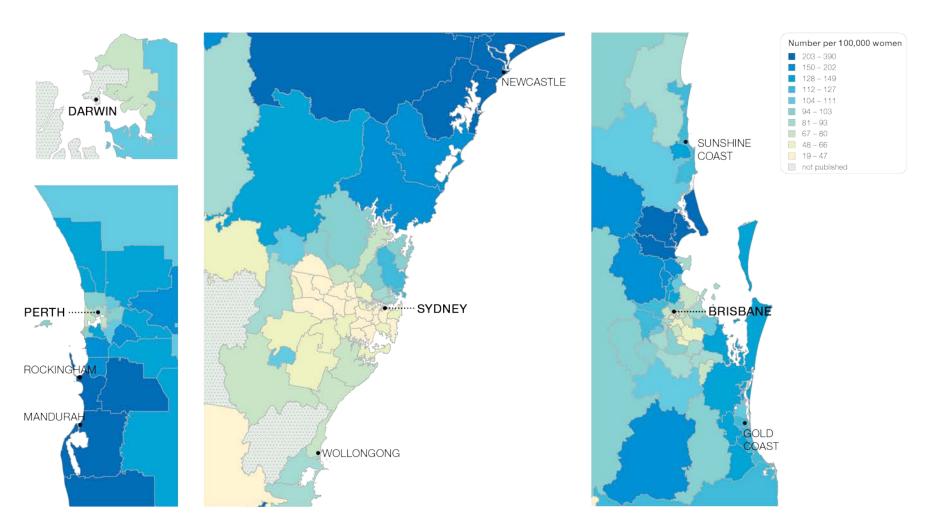






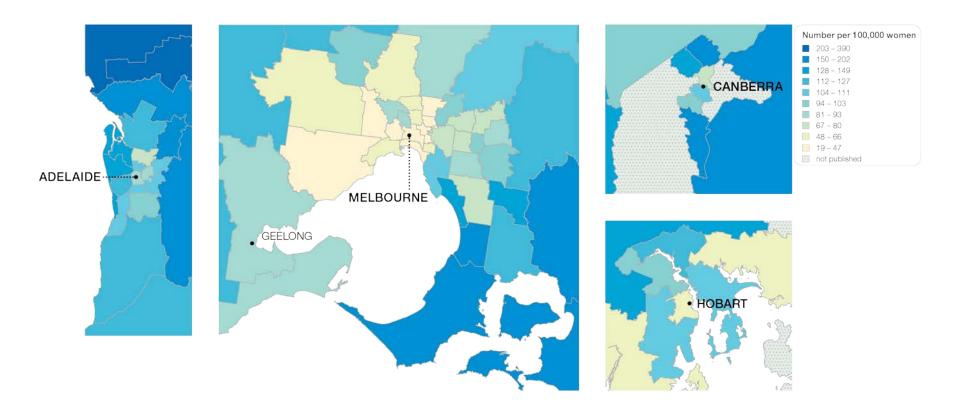








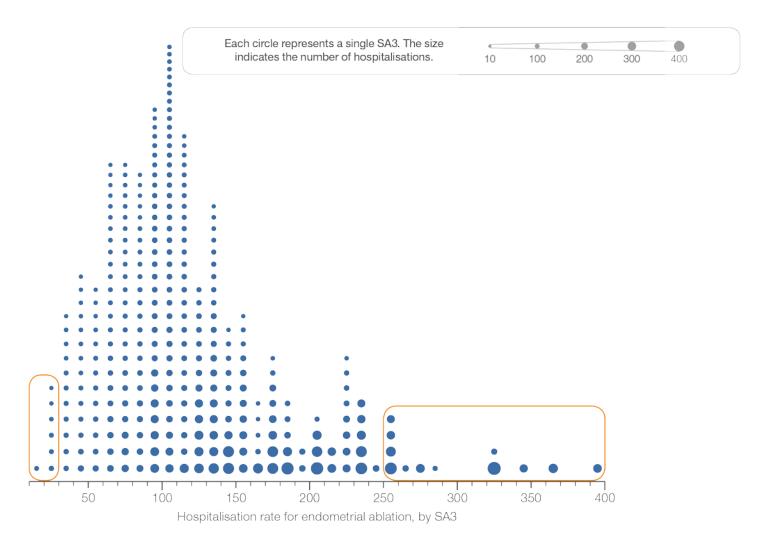








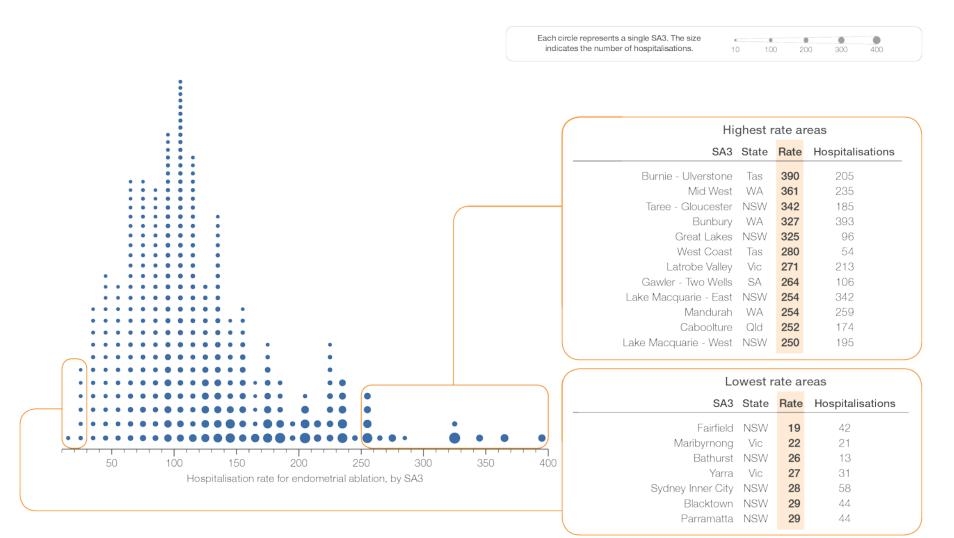










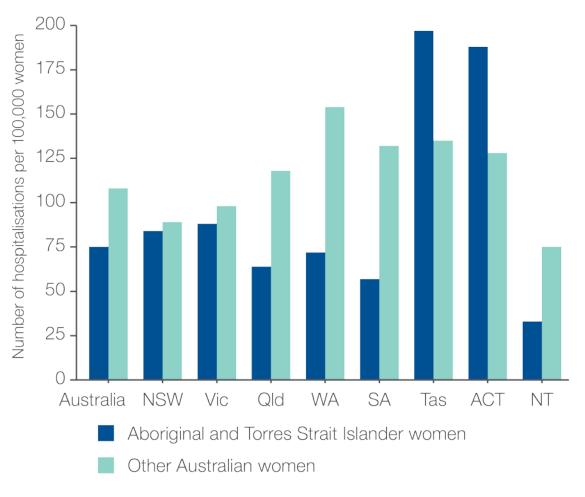








Aboriginal and Torres Strait Islander status

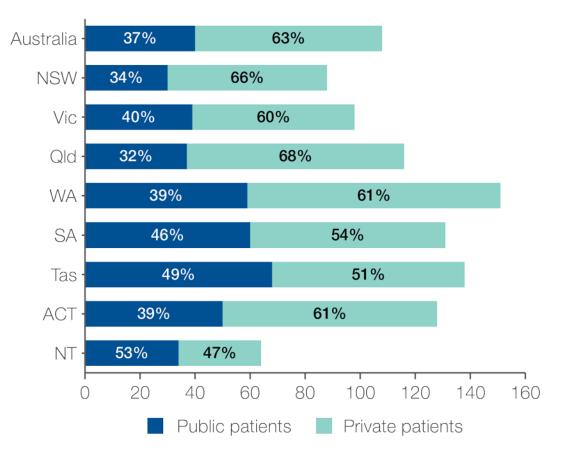








Patient funding status



Number of hospitalisations per 100,000 women

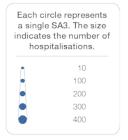


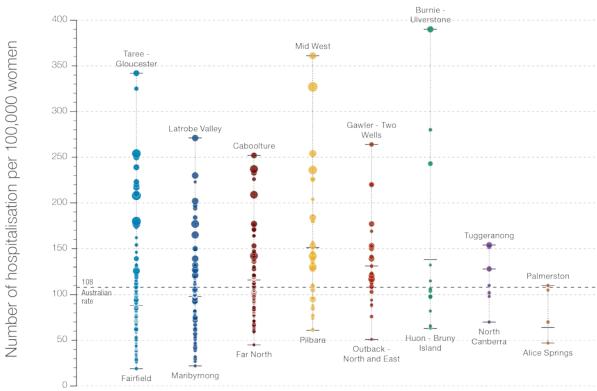




State and territory





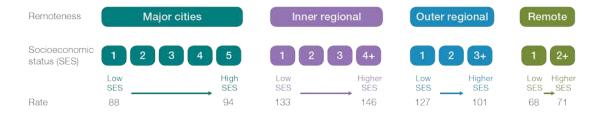


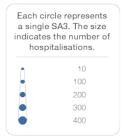


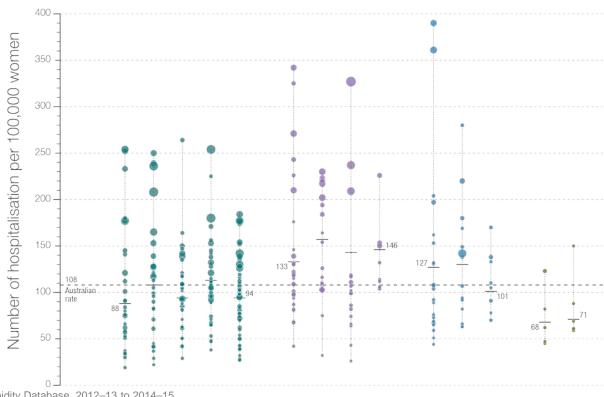




Remoteness and socioeconomic status



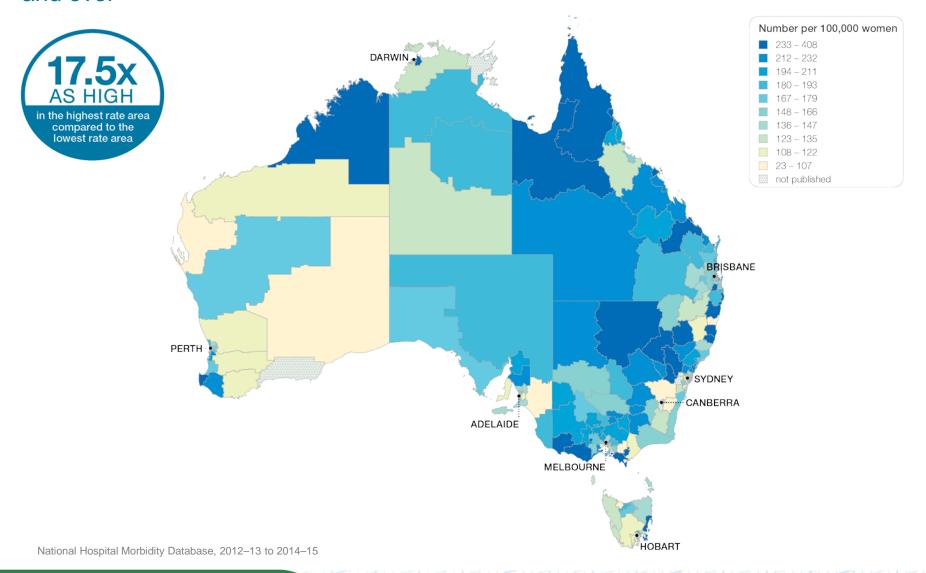






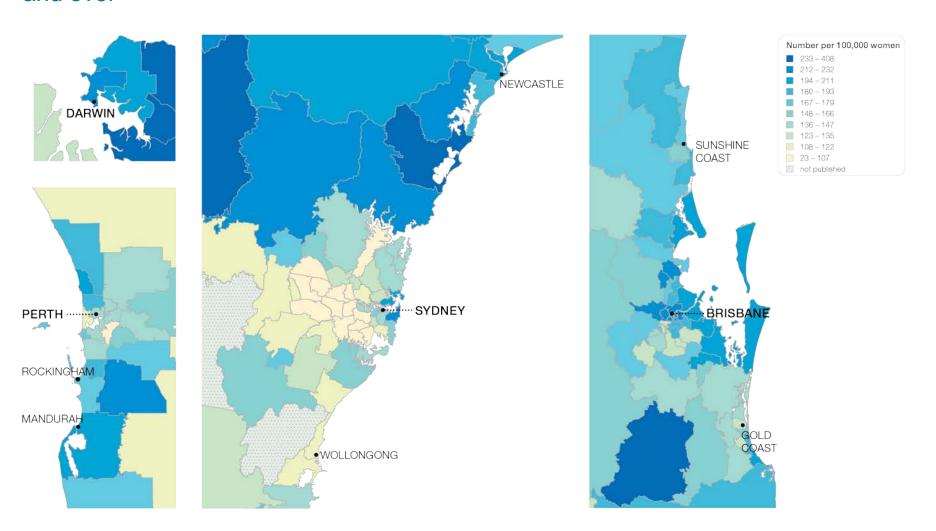




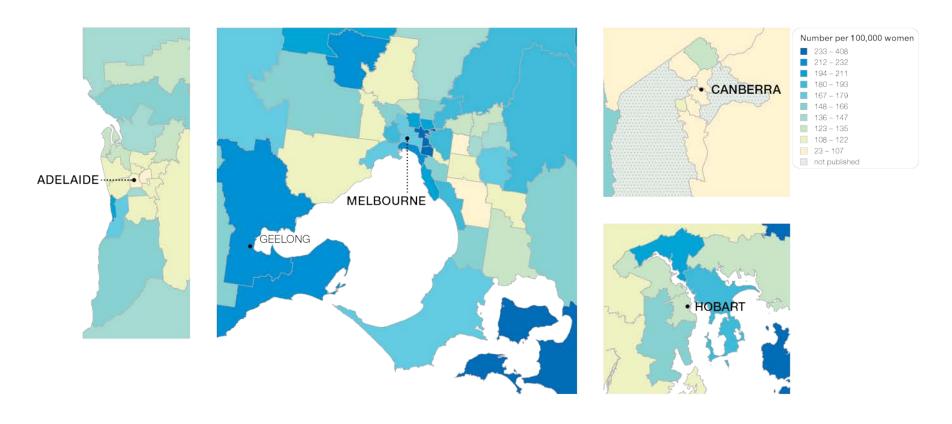










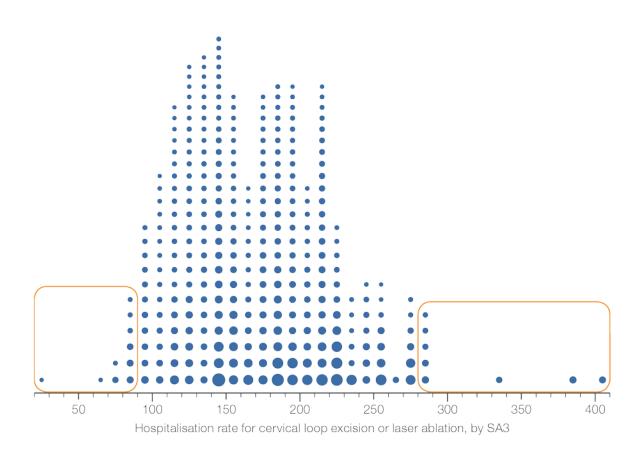












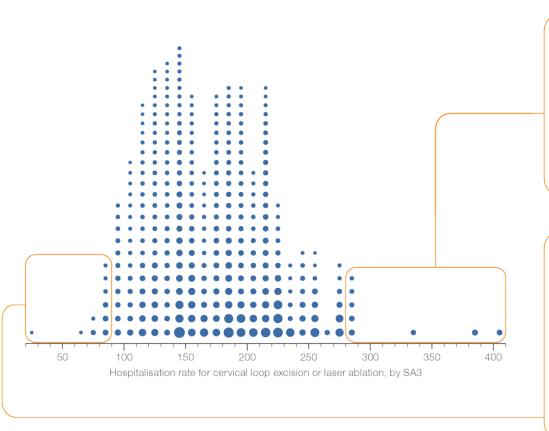






Each circle represents a single SA3. The size indicates the number of hospitalisations.

6	0	0	•		
10	125	250	375	550	



Hig	Highest rate areas				
SA3	State Rate		Hospitalisations		
Lithgow - Mudgee	NSW	408	177		
Bathurst	NSW	383	188		
Outback - North	Qld	330	141		
Port Macquarie	NSW	288	194		
Palmerston	NT	287	123		
Bourke - Cobar - Coonamble	NSW	287	78		
Cairns - North	Qld	283	170		
Far North	Qld	282	105		

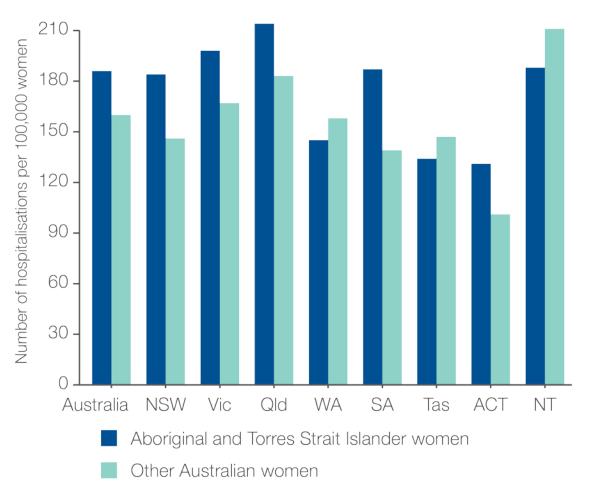
Lo	Lowest rate areas					
SA3	State	Rate	Hospitalisations			
Goldfields	WA	23	14			
Woden	ACT	67	26			
Carlingford	NSW	70	52			
Merrylands - Guildford	NSW	77	137			
Dandenong	Vic	81	175			
Parramatta	NSW	81	155			
Coffs Harbour	NSW	82	63			
Goulburn - Yass	NSW	82	56			
Auburn	NSW	85	86			
Strathfield - Burwood - Ashfield	NSW	88	180			







Aboriginal and Torres Strait Islander status

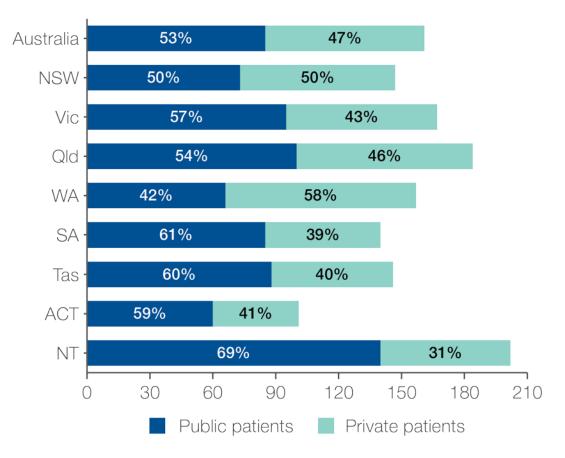








Patient funding status



Number of hospitalisations per 100,000 women

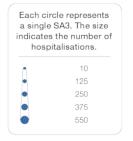


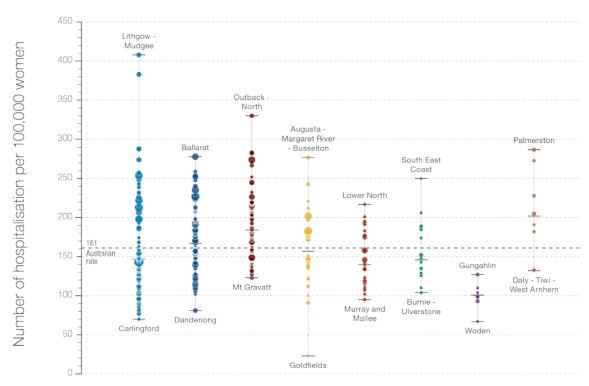




State and territory

	NSW	Vic	Qld	WA	SA	Tas	ACT	NT
Highest rate	408	278	330	277	217	250	127	287
- State/territory	147	167	184	157	140	146	101	202
- Lowest rate	70	81	123	23	95	104	67	132
No. hospitalisations	s 12,772	11,630	10,064	4,780	2,605	774	504	623







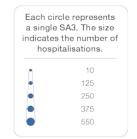


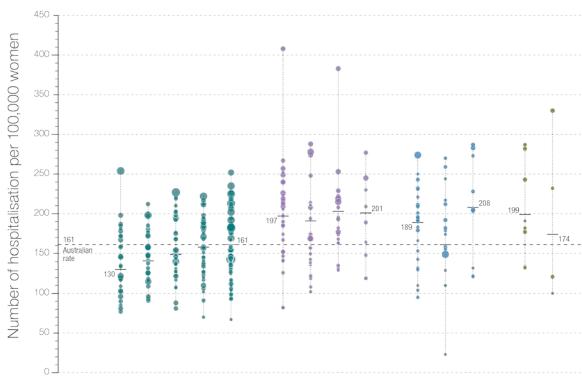


3.3 Cervical loop excision or cervical laser ablation hospitalisations 15 years and over

Remoteness and socioeconomic status







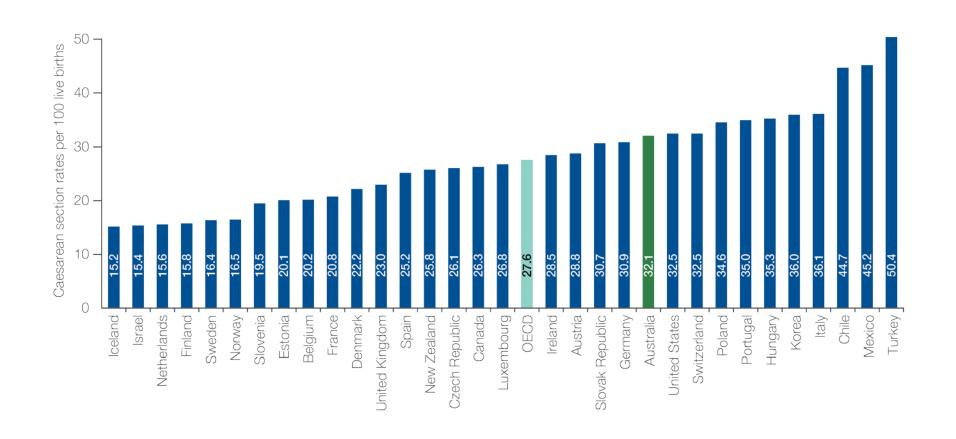
National Hospital Morbidity Database, 2012–13 to 2014–15







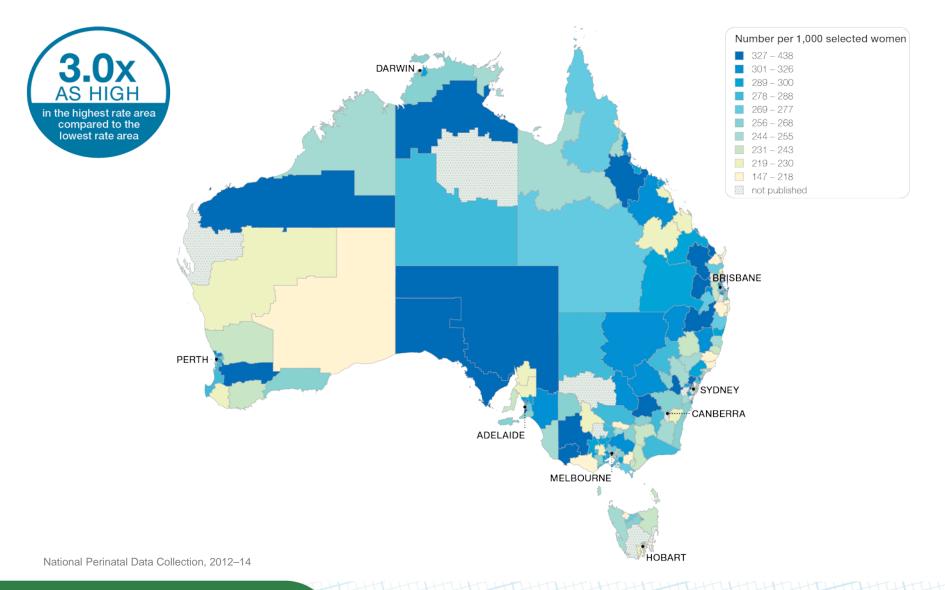
Caesarean section rates per 100 live births, 2013 (or nearest year), OECD Health at a Glance 2015



Source: Organisation for Economic Co-operation and Development. Health at a glance 2015: health care activities. Paris: OECD; 2015.



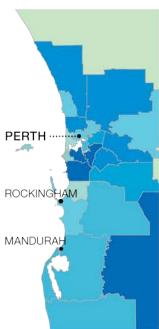


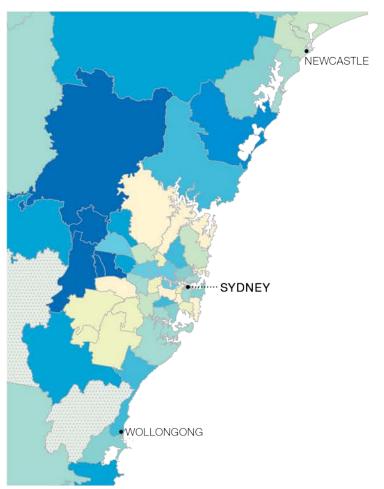


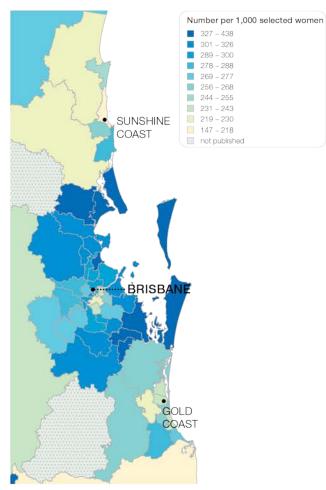




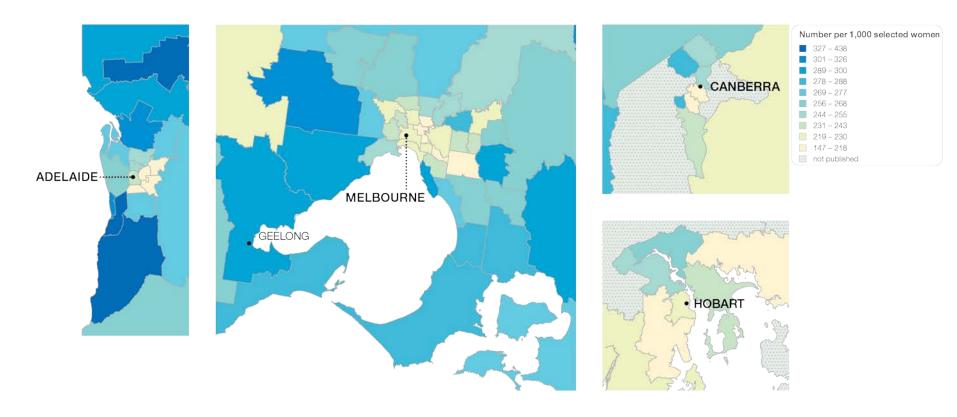






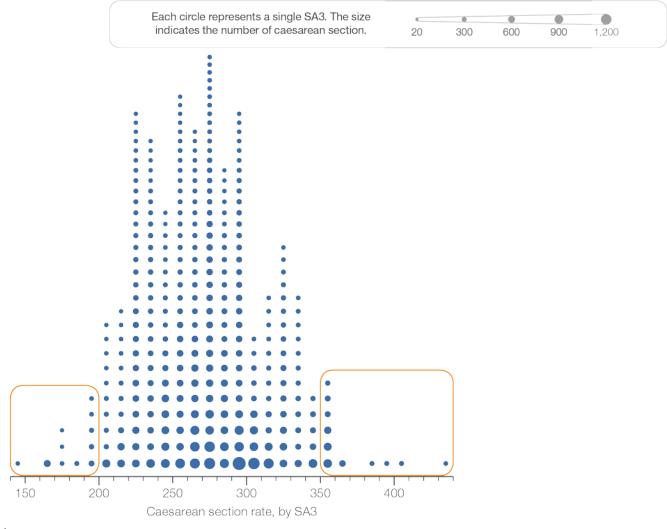








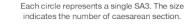




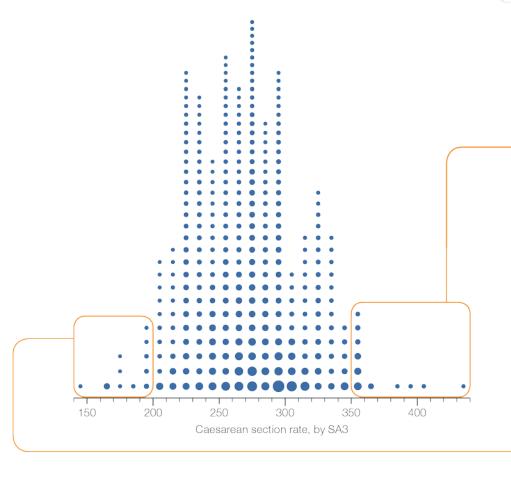












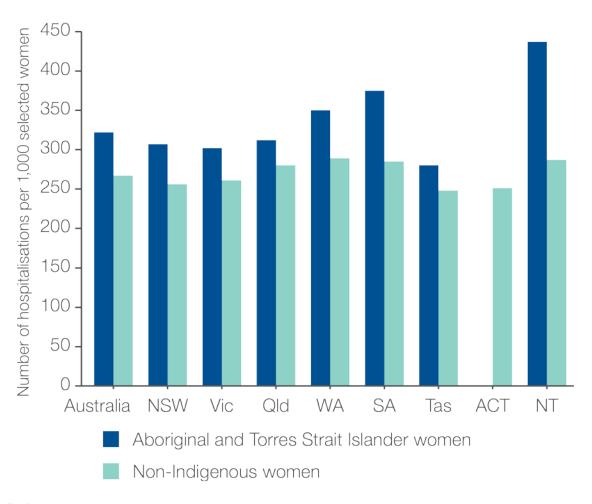
Highest rate areas						
SA3	State	Rate	Caesarean section			
Bribie - Beachmere	Qld	438	73			
Outback - North and East	SA	400	116			
Glenelg - Southern Grampians	Vic	393	112			
Inverell - Tenterfield	NSW	389	109			
Wagga Wagga	NSW	364	322			
Marion	SA	358	423			
Cleveland - Stradbroke	Qld	358	242			
Richmond - Windsor	NSW	357	152			
Cockburn	WA	356	506			
St Marys	NSW	351	239			
Penrith	NSW	350	599			

Lov	vest ra	ate ar	eas
SA3	State	Rate	Caesarean section
Baw Baw	Vic	147	62
Fairfield	NSW	168	376
Port Douglas - Daintree	Qld	170	20
Stonnington - East	Vic	173	78
Great Lakes	NSW	177	33
Goldfields	WA	188	114
Yarra	Vic	190	233
Richmond Valley - Coastal	NSW	192	131
Norwood - Payneham - St Peters	SA	192	83
Marrickville - Sydenham - Petersham	NSW	193	170
Taree - Gloucester	NSW	198	69
,			





Aboriginal and Torres Strait Islander status

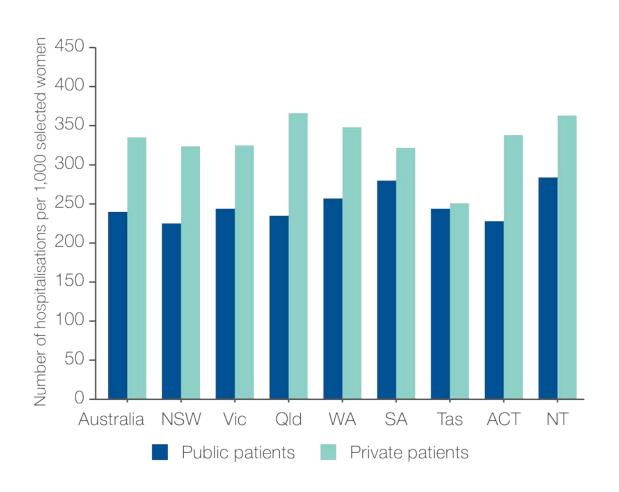








Patient funding status



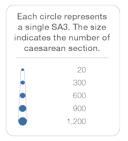


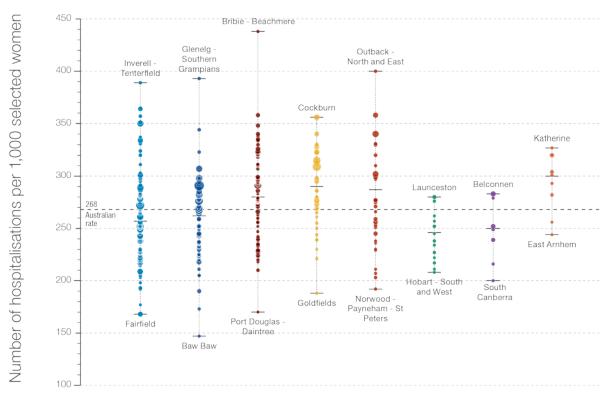




State and territory

		NSW	Vic	Qld	WA	SA	Tas	ACT	NT
	Highest rate	389	393	438	356	400	280	283	327
	State/territory	257	262	280	290	287	246	250	300
	Lowest rate	168	147	170	188	192	208	200	244
	Caesarean section	23,645	18,837	14,828	8,922	5,177	1,111	1,379	927





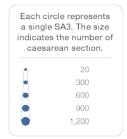


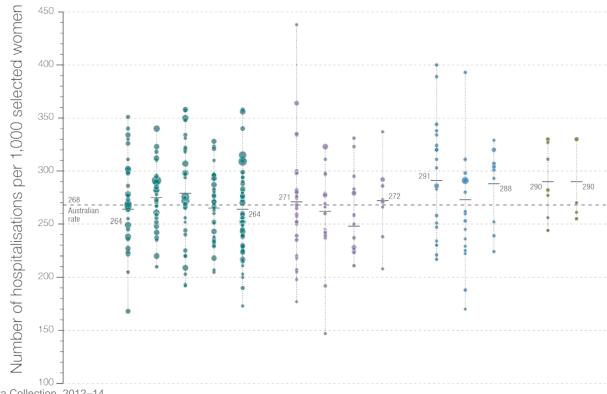




Remoteness and socioeconomic status



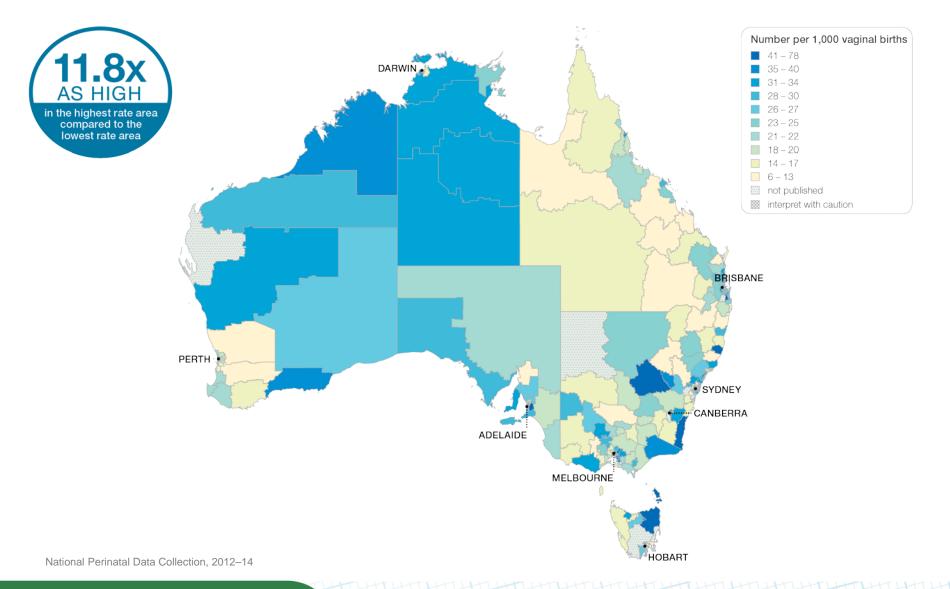






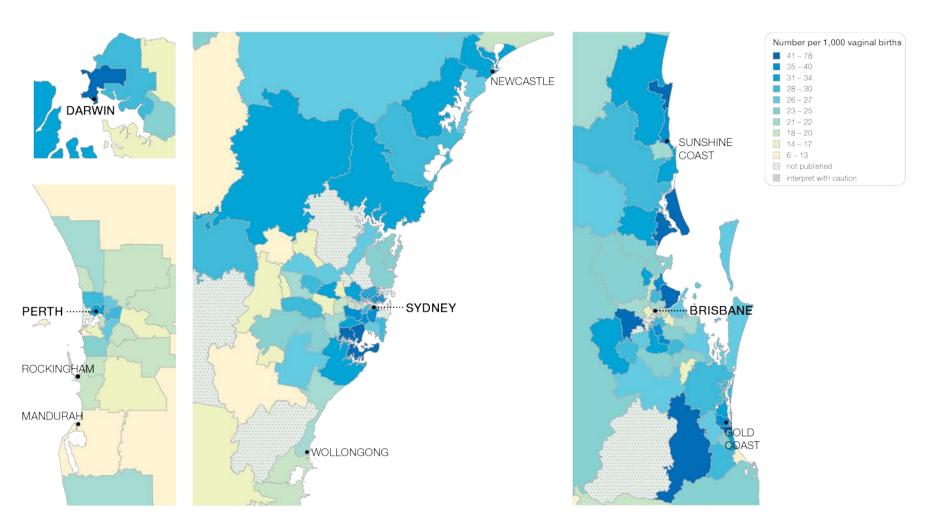




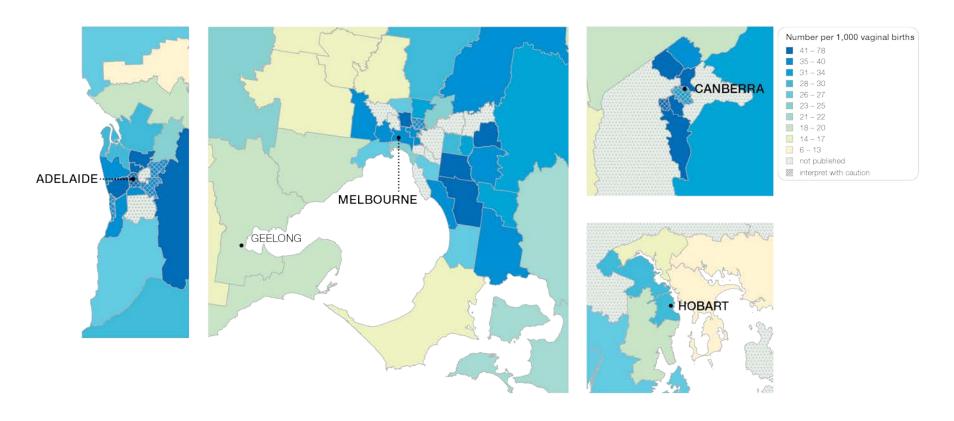






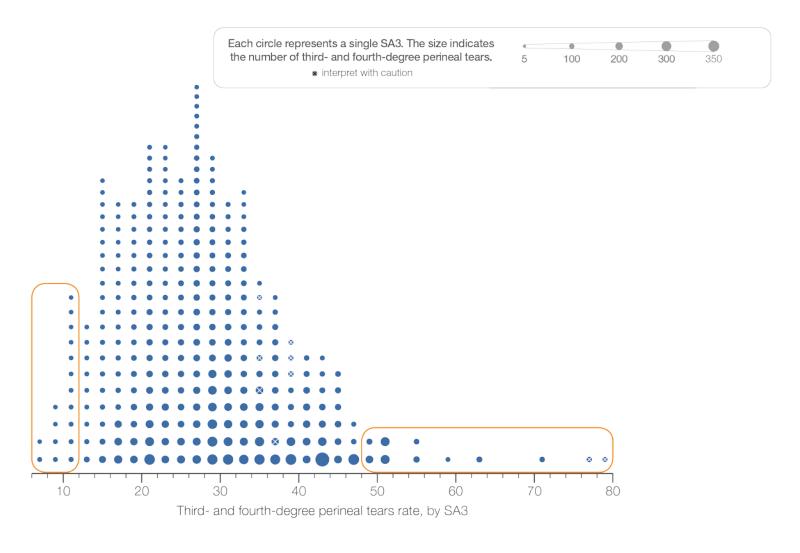










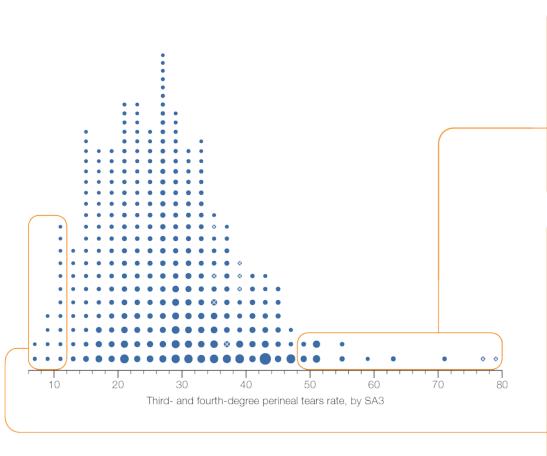












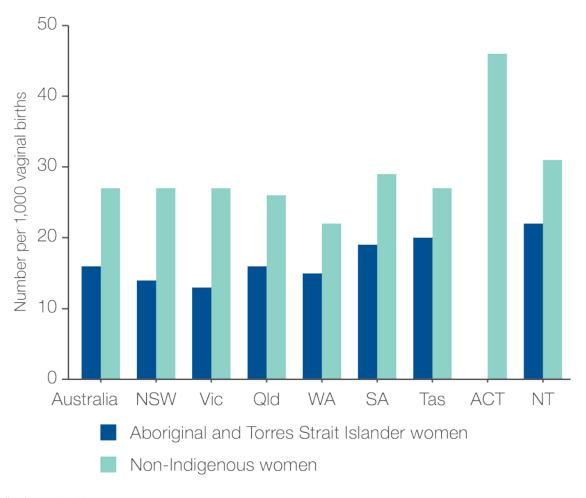
Hi	Highest rate areas					
SA3	State	Rate	Perineal tears			
Adelaide City	SA	78*	22			
Weston Creek	ACT	76*	34			
Surfers Paradise	Qld	71	38			
Woden	ACT	62	53			
Gold Coast Hinterland	Qld	59	15			
Cairns - North	Qld	55	66			
North East	Tas	54	42			
Hurstville	NSW	51	159			
Monash	Vic	51	157			
Tuggeranong	ACT	49	113			
Adelaide Hills	SA	49	54			

Lowest rate areas					
SA3	State	Rate	Perineal tears		
Mandurah	WA	6	19		
Inverell - Tenterfield	NSW	6	5		
Coolangatta	Qld	8	8		
Wheat Belt - South	WA	8	7		
Central Highlands	Qld	9	18		
Outback - North	Qld	9	16		
Dubbo	NSW	10	25		
Darling Downs (West) - Maranoa	Qld	10	15		
Upper Murray exc. Albury	NSW	10	12		
Sorell - Dodges Ferry	Tas	10	6		
Mid North	SA	10	5		
Wheat Belt - North	WA	11	20		
Taree - Gloucester	NSW	-11	19		
Bowen Basin - North	Qld	11	18		
Wollondilly	NSW	11	11		
Maryborough	Qld	11	9		
Maryborough - Pyrenees	Vic	11	6		





Aboriginal and Torres Strait Islander status

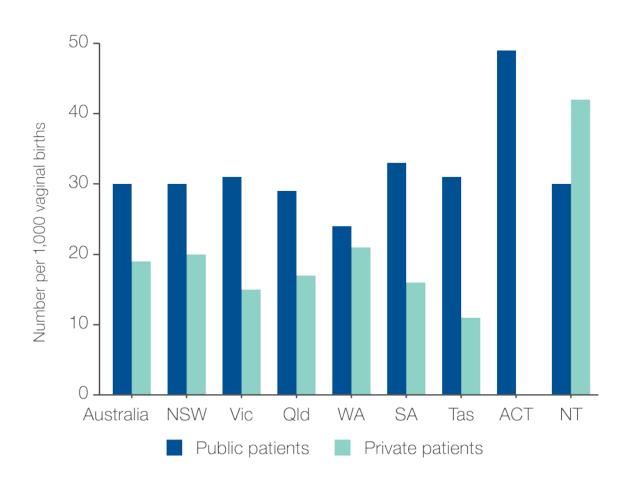








Patient funding status



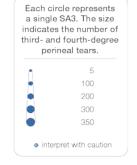


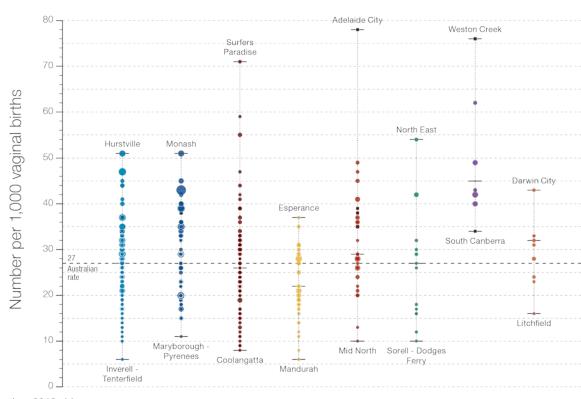




State and territory



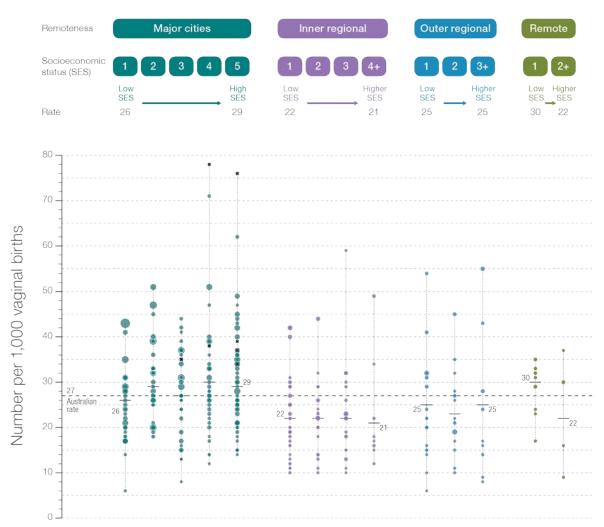








Remoteness and socioeconomic status



Each circle represents a single SA3. The size indicates the number of third- and fourth-degree perineal tears.

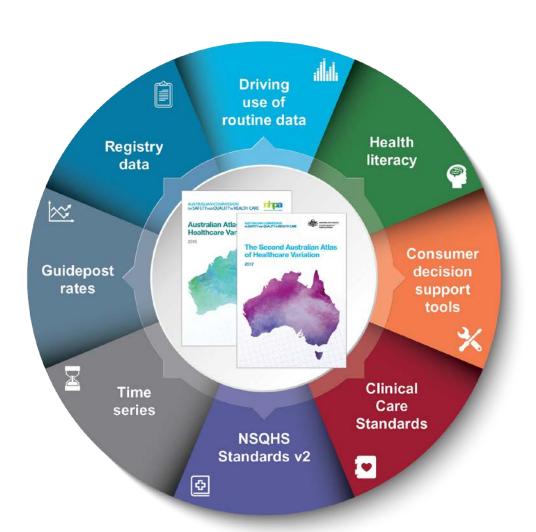
5
100
200
300
350

interpret with caution





Promoting appropriate care



Explore variation

Identify unwarranted variation

Address unwarranted variation





Further resources

- Explore the data further using the interactive Atlas at <u>www.safetyandquality.gov.au/atlas/</u>
- Please send any queries to atlas@safetyandquality.gov.au



AUSTRALIAN COMMISSION ON SAFETY AND QUALITY IN HEALTH CARE

The Second Australian Atlas of Healthcare Variation

2017

