

State Summary

Western Australia

Paediatric health

Antibiotics dispensing in children
9 years and under

Lowest
SA3 rate
per 100,000

35,930

Highest
SA3 rate
per 100,000

121,012

Rate
per 100,000

87,662

National rate
per 100,000

96,721

Proton pump inhibitor medicines dispensing
1 year and under

N/A

N/A

4,042

3,628

Gastrointestinal investigations and treatments

Proton pump inhibitor medicines dispensing
18 years and over

Lowest
SA3 rate
per 100,000

43,023

Highest
SA3 rate
per 100,000

119,093

Rate
per 100,000

95,806

National rate
per 100,000

105,294

Colonoscopy hospitalisations
all ages

1,420*

3,969

3,051

2,881

Gastroscopy hospitalisations
all ages

946

2,452

2,031

1,931

Thyroid investigations and treatments

Thyroid stimulating hormone tests
18 years and over

Lowest
SA3 rate
per 100,000

20,515*

Highest
SA3 rate
per 100,000

32,010

Rate
per 100,000

25,988

National rate
per 100,000

28,742

Thyroid function tests
18 years and over

6,425

14,919

12,324

12,116

Neck ultrasound
18 years and over

618

1,339

1,125

1,606

Thyroidectomy hospitalisations
18 years and over

38

91

66

62

Cardiac tests

Cardiac stress tests and imaging†
18 years and over

Lowest
SA3 rate
per 100,000

1,318*

Highest
SA3 rate
per 100,000

4,170

Rate
per 100,000

3,012

National rate
per 100,000

4,575

Stress echocardiography
18 years and over

129

1,440

920

1,491

Myocardial perfusion scans
18 years and over

86

372

206

384

Standard echocardiography
18 years and over

1,785*

5,149

3,167

4,599

† exercise ECG, stress echocardiography, myocardial perfusion scans, computed tomography coronary arteries

Asterisks (*) indicate rates that are considered more volatile than other published rates and should be interpreted with caution. These rates are excluded from the calculation of the difference between the highest and lowest SA3 rates in Australia.

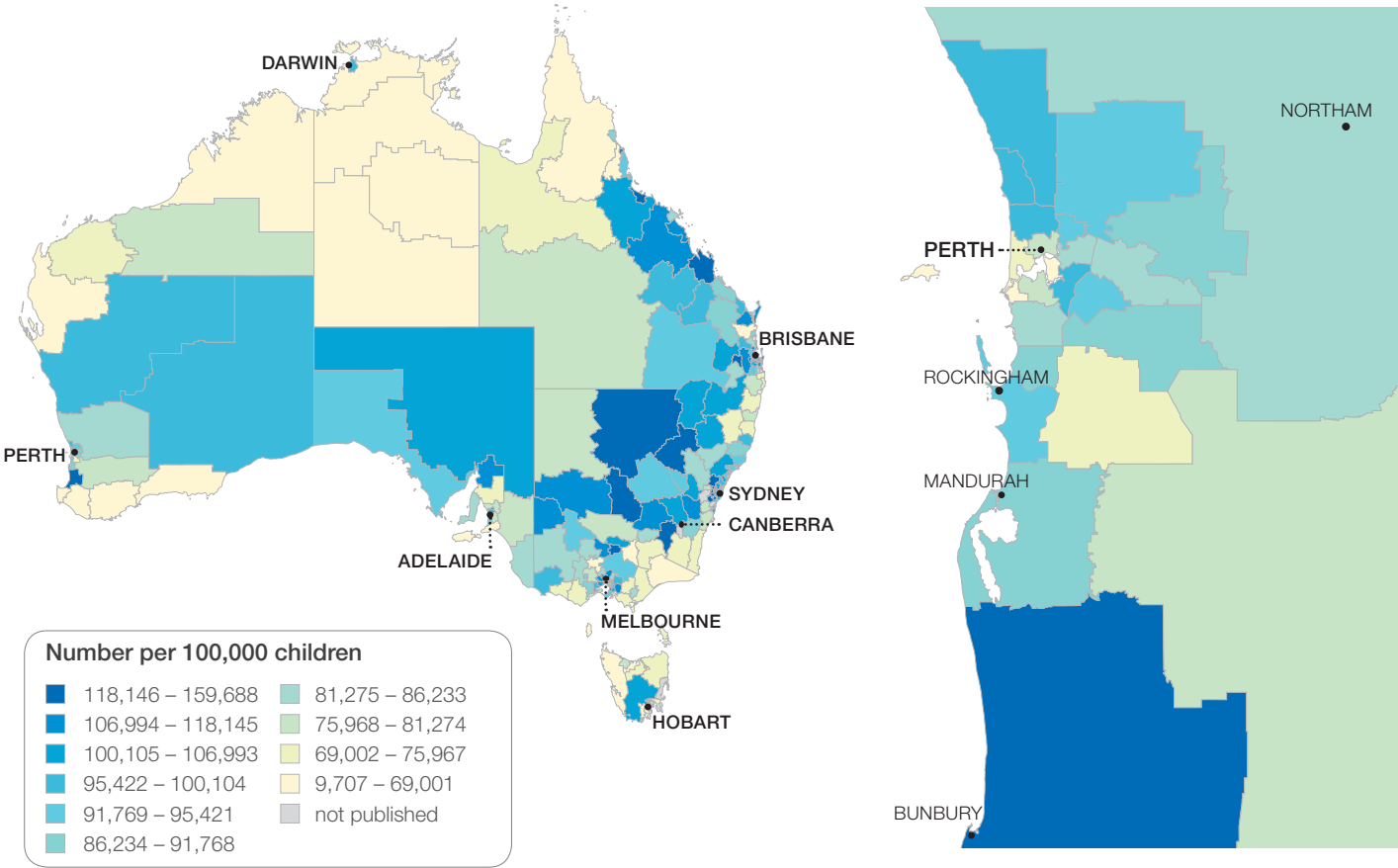
Antibiotics dispensing in children

9 years and under

Western Australia

Number of PBS prescriptions dispensed for antibiotics per 100,000 children aged 9 years and under, age and sex standardised, by Statistical Area Level 3 (SA3) of patient residence, 2016–17

Nationally, the rate was **16.5 times as high** in the area with the highest rate compared to the area with the lowest rate.



State	Rate	Lowest SA3 rate	Highest SA3 rate	Prescriptions	Patients
New South Wales	101,950	66,391	159,688	1,023,567	469,118
Victoria	93,018	57,562	136,694	738,699	349,345
Queensland	102,339	48,065	142,207	664,062	303,366
Western Australia	87,662	35,930	121,012	302,588	146,159
South Australia	94,312	58,958	115,504	196,083	91,140
Tasmania	71,472	48,730	101,857	44,699	22,570
Australian Capital Territory	96,447	82,273	109,733	52,890	24,364
Northern Territory	69,015	9,707	119,885	26,240	12,152
Australia	96,721	9,707	159,688	3,053,315	1,420,363

Variation in Western Australia

In Western Australia, the lowest rate for antibiotics dispensing in children was in **Kimberley** (35,930 PBS prescriptions per 100,000 people) and the highest rate was in **Bunbury** (121,012 PBS prescriptions per 100,000 people).

Lowest rate areas Of the 10 lowest SA3 rates nationally, **three areas** were in Western Australia.

SA3 area	Rate	Prescriptions
Kimberley	35,930	2,319
Esperance	50,215	1,125
Augusta - Margaret River - Busselton	54,387	4,029

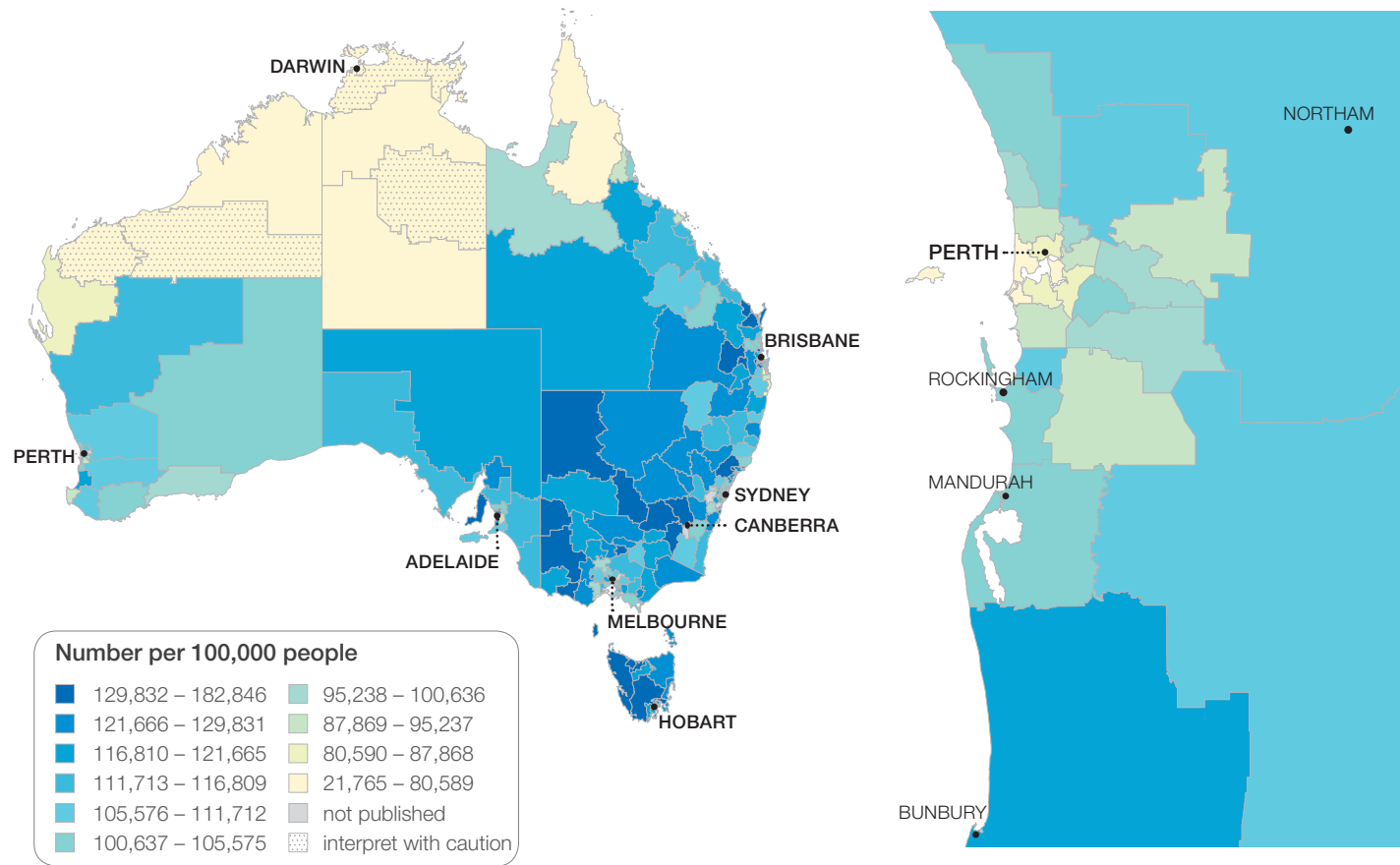
Highest rate areas Of the 10 highest SA3 rates nationally, **none** were in Western Australia.

Proton pump inhibitor medicines dispensing
18 years and over

Western Australia

Number of PBS prescriptions dispensed for proton pump inhibitor medicines per 100,000 people aged 18 years and over, age and sex standardised, by Statistical Area Level 3 (SA3) of patient residence, 2016–17

Nationally, the rate was **5.0 times as high** in the area with the highest rate compared to the area with the lowest rate.



State	Rate	Lowest SA3 rate	Highest SA3 rate	Prescriptions	Patients
New South Wales	105,543	66,462	145,767	7,159,289	994,065
Victoria	104,408	71,488	136,475	5,482,136	779,812
Queensland	108,660	67,992	147,767	4,384,675	609,569
Western Australia	95,806	43,023	119,093	1,948,629	290,178
South Australia	109,527	80,589	138,226	1,770,298	237,069
Tasmania	127,993	96,691	172,780	646,894	82,852
Australian Capital Territory	97,312	80,420	182,846*	288,088	41,108
Northern Territory	63,230	21,765*	82,423	83,684	14,550
Australia	105,294	34,489	172,780	21,768,718	3,050,104

Variation in Western Australia

In Western Australia, the lowest rate for proton pump inhibitor medicines dispensing was in **Kimberley** (43,023 PBS prescriptions per 100,000 people) and the highest rate was in **Bunbury** (119,093 PBS prescriptions per 100,000 people).

Lowest rate areas Of the 10 lowest SA3 rates nationally, **three areas** were in Western Australia.

SA3 area	Rate	Prescriptions
Kimberley	43,023	8,465
East Pilbara	52,214*	5,883
West Pilbara	54,586*	7,170

Highest rate areas Of the 10 highest SA3 rates nationally, **none** were in Western Australia.

Dotted areas and asterisks (*) indicate rates that are considered more volatile than other published rates and should be interpreted with caution. These rates are excluded from the calculation of the difference between the highest and lowest SA3 rates in Australia.
Sources: AIHW analysis of Pharmaceutical Benefits Scheme data and ABS Estimated Resident Population 30 June 2016.

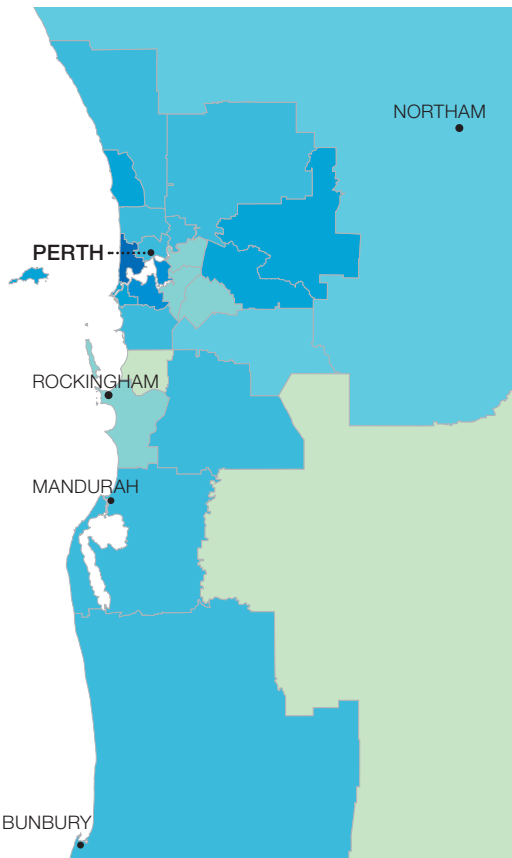
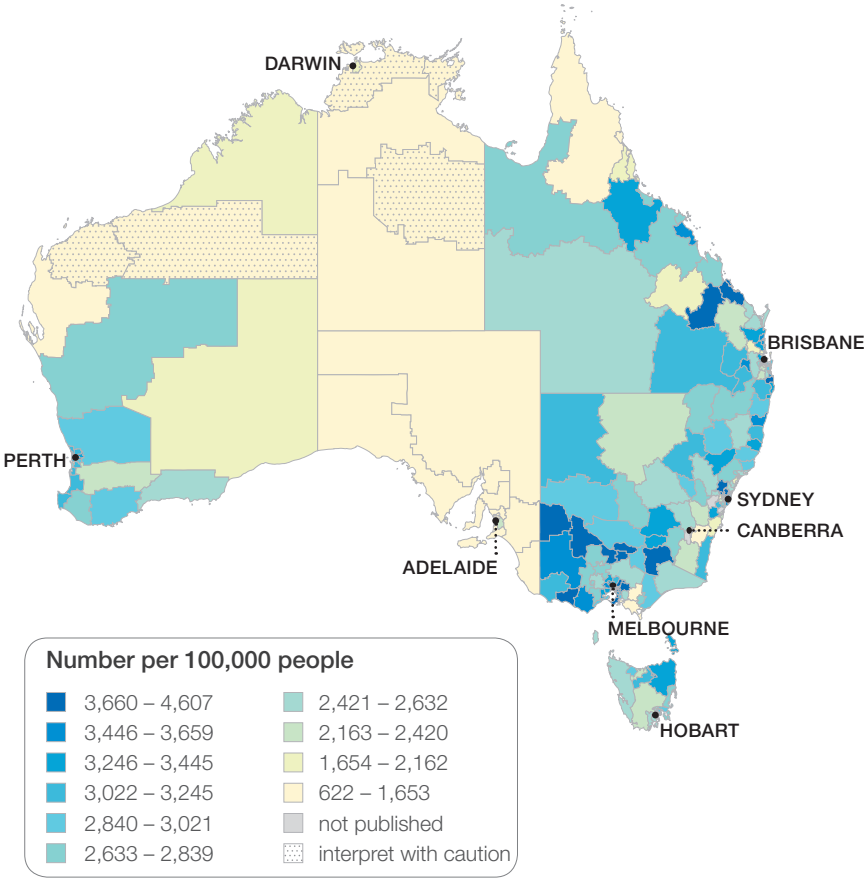
Colonoscopy hospitalisations

all ages

Western Australia

Number of hospitalisations for colonoscopy per 100,000 people of all ages, age and sex standardised, by Statistical Area Level 3 (SA3) of patient residence, 2016–17

Nationally, the rate was **7.4 times as high** in the area with the highest rate compared to the area with the lowest rate.



State	Rate	Lowest SA3 rate	Highest SA3 rate	Hospitalisations
New South Wales	2,814	1,389	4,607	242,070
Victoria	3,371	878	4,579	225,764
Queensland	2,851	1,172	3,797	150,784
Western Australia	3,051	1,420*	3,969	82,217
South Australia	1,814	1,117	2,674	37,203
Tasmania	2,885	2,198	3,488	18,529
Australian Capital Territory	1,144	622	1,743	4,557
Northern Territory	1,860	952*	2,146	3,833
Australia	2,881	622	4,607	765,411

Variation in Western Australia

In Western Australia, the lowest rate for colonoscopy hospitalisations was in **East Pilbara** (1,420* hospitalisations per 100,000 people) and the highest rate was in **Cottesloe - Claremont** (3,969 hospitalisations per 100,000 people).

Lowest rate areas Of the 10 lowest SA3 rates nationally, **none** were in Western Australia.

Highest rate areas Of the 10 highest SA3 rates nationally, **none** were in Western Australia.

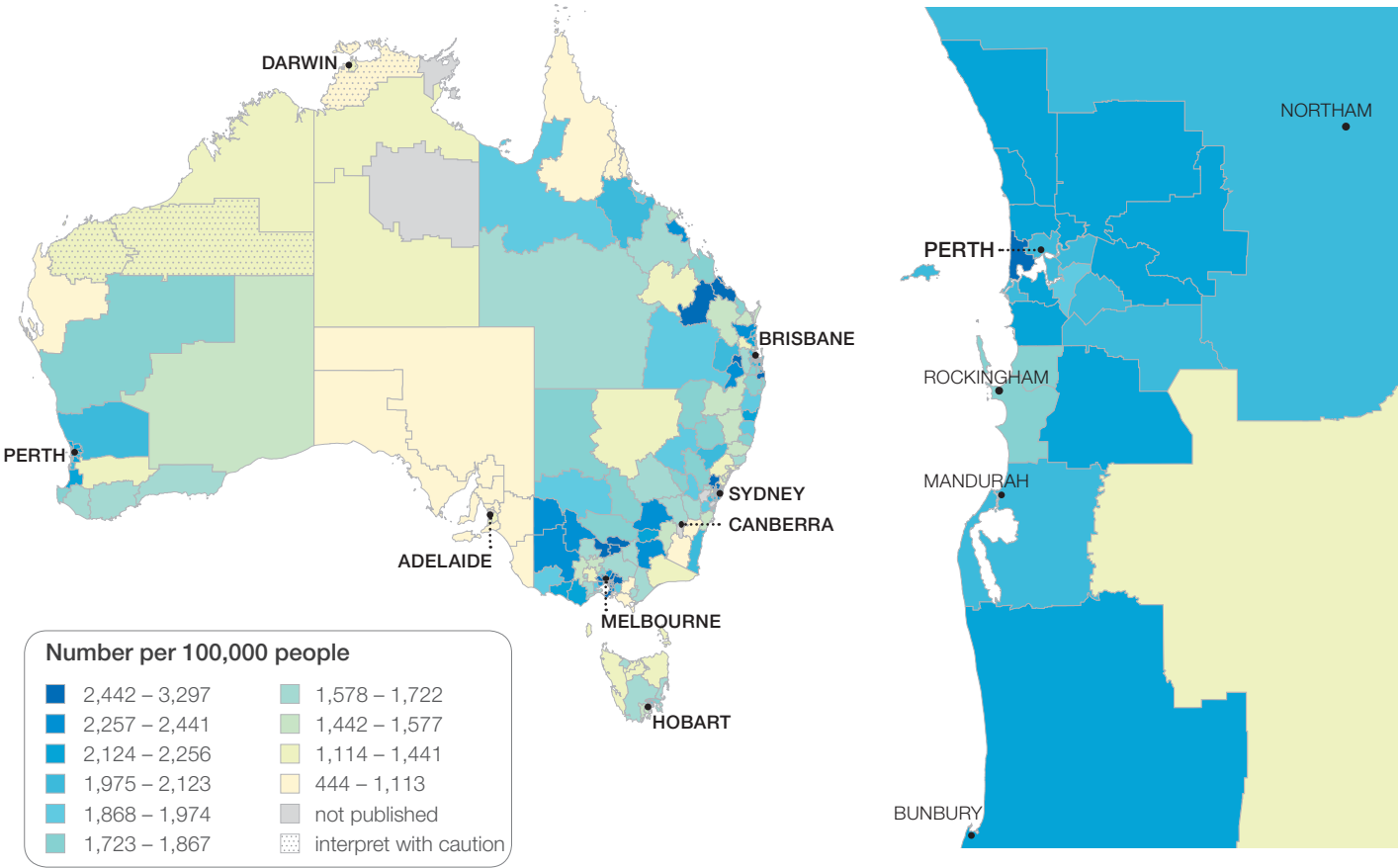
Gastroscopy hospitalisations

all ages

Western Australia

Number of hospitalisations for gastroscopy per 100,000 people of all ages, age and sex standardised, by Statistical Area Level 3 (SA3) of patient residence, 2016–17

Nationally, the rate was **7.4 times as high** in the area with the highest rate compared to the area with the lowest rate.



State	Rate	Lowest SA3 rate	Highest SA3 rate	Hospitalisations
New South Wales	1,903	737	3,297	161,454
Victoria	2,259	625	3,142	149,455
Queensland	1,927	632	2,750	100,437
Western Australia	2,031	946	2,452	54,039
South Australia	1,211	602	1,675	24,009
Tasmania	1,618	1,233	1,921	10,077
Australian Capital Territory	701	444	1,019	2,784
Northern Territory	1,355	990*	1,659	2,822
Australia	1,931	444	3,297	505,544

Variation in Western Australia

In Western Australia, the lowest rate for gastroscopy hospitalisations was in **Gascoyne** (946 hospitalisations per 100,000 people) and the highest rate was in **Cottesloe - Claremont** (2,452 hospitalisations per 100,000 people).

Lowest rate areas Of the 10 lowest SA3 rates nationally, **none** were in Western Australia.

Highest rate areas Of the 10 highest SA3 rates nationally, **none** were in Western Australia.

Dotted areas and asterisks (*) indicate rates that are considered more volatile than other published rates and should be interpreted with caution. These rates are excluded from the calculation of the difference between the highest and lowest SA3 rates in Australia.
Sources: AIHW analysis of National Hospital Morbidity Database and ABS Estimated Resident Population 30 June 2016.
 Australian Commission on Safety and Quality in Health CareThe Third Australian Atlas of Healthcare Variation

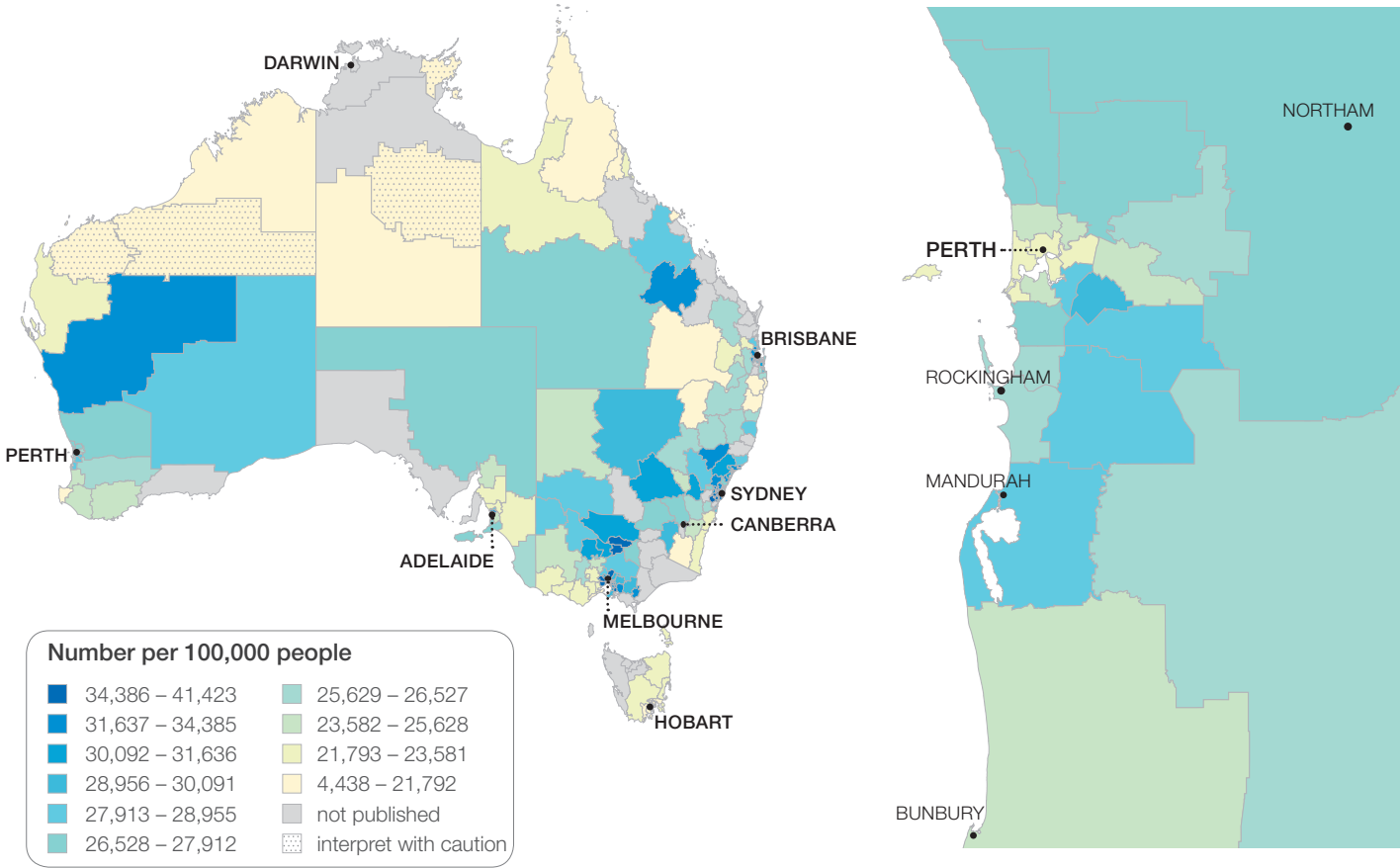
Thyroid stimulating hormone tests

18 years and over

Western Australia

Number of MBS-subsidised services for thyroid stimulating hormone tests per 100,000 people aged 18 years and over, age and sex standardised, by Statistical Area Level 3 (SA3) of patient residence, 2016–17

Nationally, the rate was **2.6 times as high** in the area with the highest rate compared to the area with the lowest rate.



State	Rate	Lowest SA3 rate	Highest SA3 rate	Services
New South Wales	30,640	17,456	40,814	1,906,486
Victoria	29,899	21,613	40,033	1,471,039
Queensland	27,712	15,735	34,270	1,055,392
Western Australia	25,988	20,515*	32,010	514,853
South Australia	27,176	22,765	31,987	386,639
Tasmania	20,106	18,037	22,417	87,638
Australian Capital Territory	25,920	22,024	41,423*	79,354
Northern Territory	23,145	18,119*	29,270	37,837
Australia	28,742	15,735	40,814	5,539,805

Variation in Western Australia

In Western Australia, the lowest rate for thyroid stimulating hormone tests was in **West Pilbara** (20,515* MBS services per 100,000 people) and the highest rate was in **Mid West** (32,010 MBS services per 100,000 people).

Lowest rate areas Of the 10 lowest SA3 rates nationally, **none** were in Western Australia.

Highest rate areas Of the 10 highest SA3 rates nationally, **none** were in Western Australia.

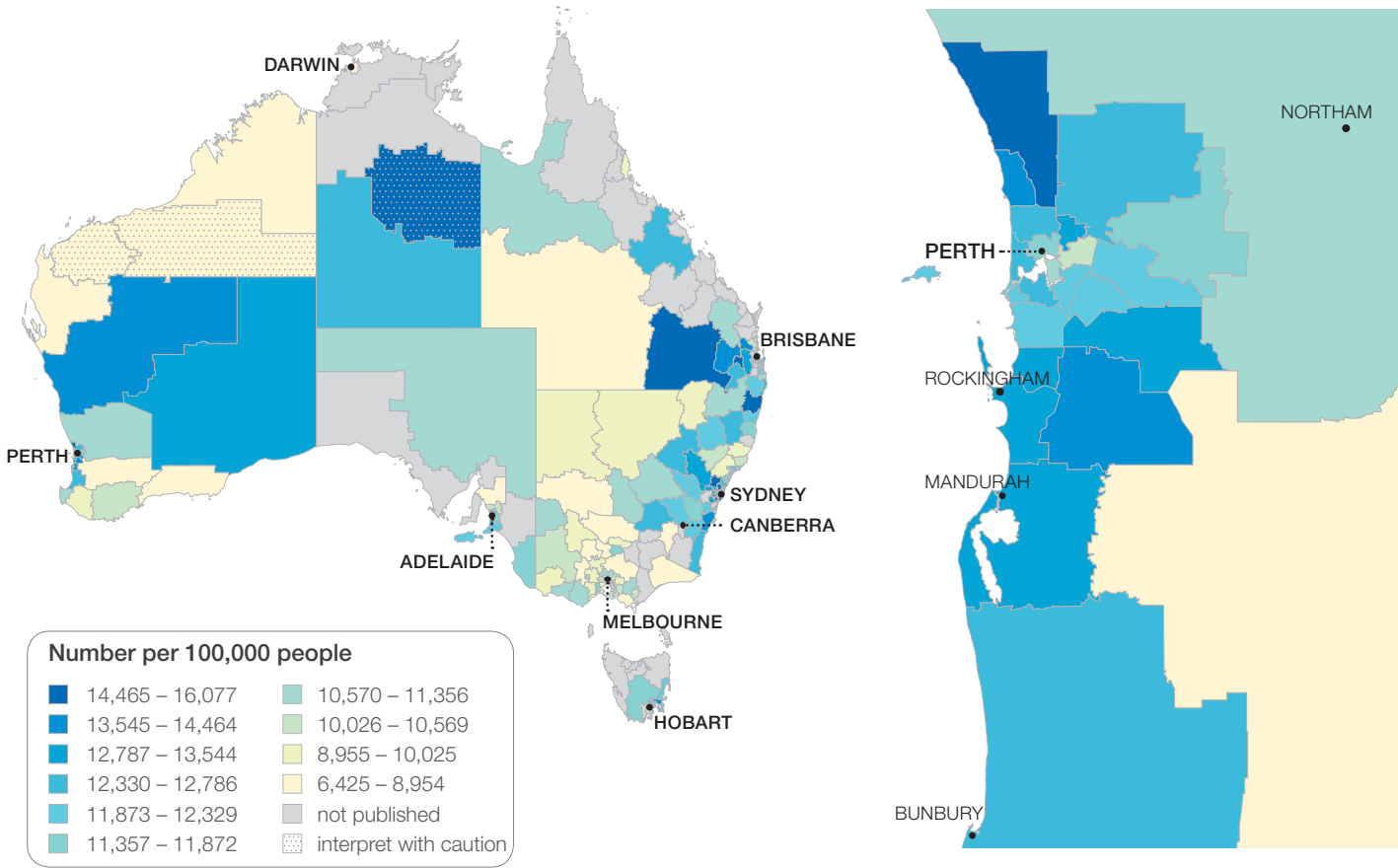
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Sources: AIHW analysis of Medicare Benefits Schedule data and ABS Estimated Resident Population 30 June 2016.

Thyroid function tests
18 years and over

Western Australia

Number of MBS-subsidised services for thyroid function tests per 100,000 people aged 18 years and over, age and sex standardised, by Statistical Area Level 3 (SA3) of patient residence, 2016–17

Nationally, the rate was 2.5 times as high in the area with the highest rate compared to the area with the lowest rate.



State	Rate	Lowest SA3 rate	Highest SA3 rate	Services
New South Wales	13,234	7,531	16,077	824,854
Victoria	10,105	7,487	12,214	500,080
Queensland	12,892	8,732	15,273	492,076
Western Australia	12,324	6,425	14,919	243,925
South Australia	12,027	8,749	13,074	173,540
Tasmania	11,978	10,317	13,917	53,280
Australian Capital Territory	13,866	13,211	15,983	42,246
Northern Territory	8,868	7,470*	16,038*	13,879
Australia	12,116	6,425	16,077	2,344,089

Variation in Western Australia
In Western Australia, the lowest rate for thyroid function tests was in Gascoyne (6,425 MBS services per 100,000 people) and the highest rate was in Wanneroo (14,919 MBS services per 100,000 people).

Lowest rate areas Of the 10 lowest SA3 rates nationally, four areas were in Western Australia.

SA3 area	Rate	Services
Gascoyne	6,425	459
Esperance	7,634	1,005
East Pilbara	8,051*	1,166
Kimberley	8,230	1,861

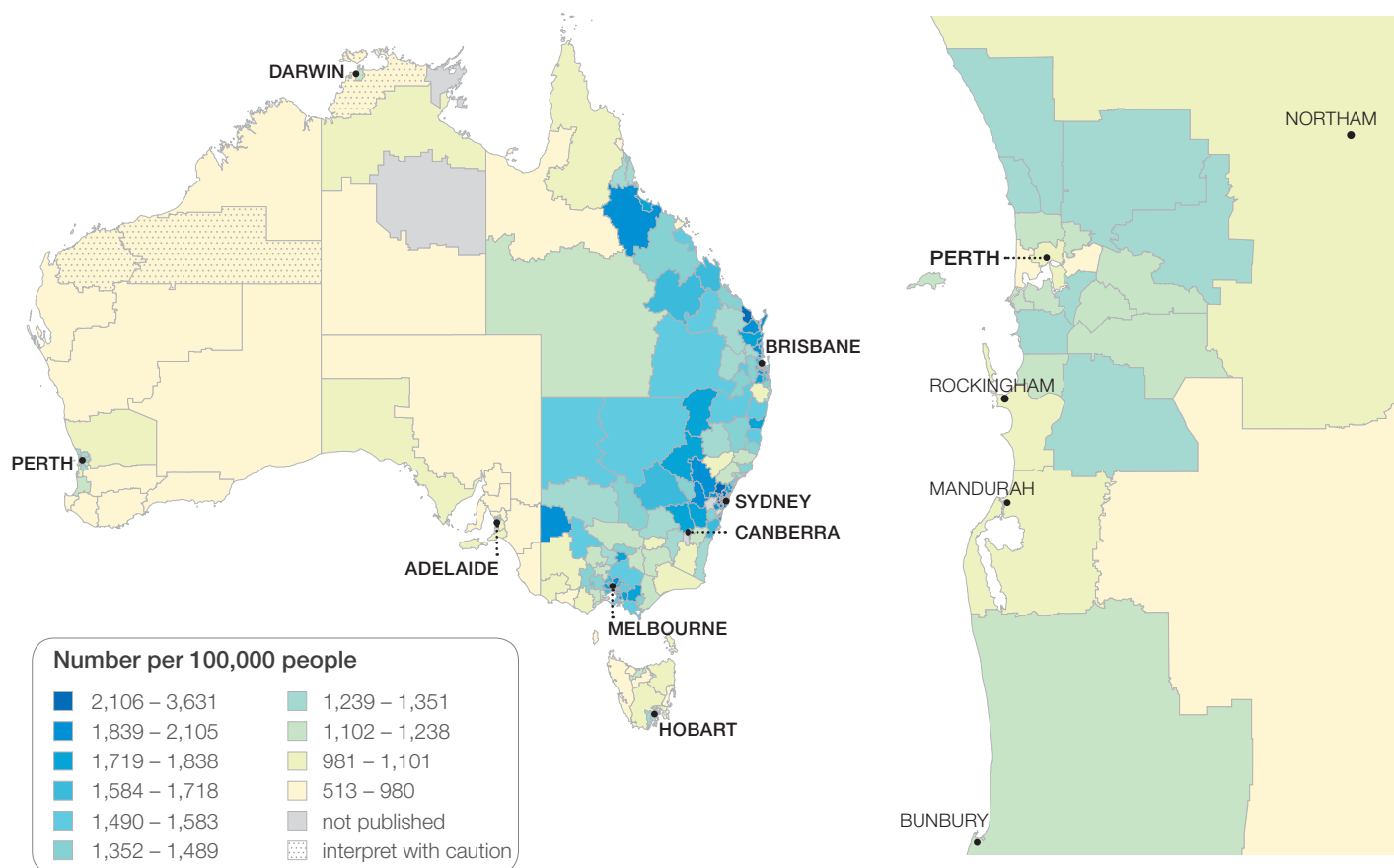
Highest rate areas Of the 10 highest SA3 rates nationally, none were in Western Australia.

Neck ultrasound 18 years and over

Western Australia

Number of MBS-subsidised services for neck ultrasound per 100,000 people aged 18 years and over, age and sex standardised, by Statistical Area Level 3 (SA3) of patient residence, 2016–17

Nationally, the rate was **5.6 times as high** in the area with the highest rate compared to the area with the lowest rate.



State	Rate	Lowest SA3 rate	Highest SA3 rate	Services
New South Wales	1,946	995	2,893	120,072
Victoria	1,570	980	2,288	76,831
Queensland	1,650	896	2,205	63,006
Western Australia	1,125	618	1,339	22,211
South Australia	1,103	682	1,390	15,501
Tasmania	1,037	798	1,281	4,547
Australian Capital Territory	1,449	1,238	3,631*	4,444
Northern Territory	983	513	1,340	1,615
Australia	1,606	513	2,893	308,247

Variation in Western Australia

In Western Australia, the lowest rate for neck ultrasound was in **Esperance** (618 MBS services per 100,000 people) and the highest rate was in **Joondalup** (1,339 MBS services per 100,000 people).

Lowest rate areas Of the 10 lowest SA3 rates nationally, **five areas** were in Western Australia.

SA3 area	Rate	Services
Esperance	618	78
Gascoyne	687	52
Wheat Belt - South	708	128
West Pilbara	738*	143
East Pilbara	751*	117

Highest rate areas Of the 10 highest SA3 rates nationally, **none** were in Western Australia.

Dotted areas and asterisks (*) indicate rates that are considered more volatile than other published rates and should be interpreted with caution. These rates are excluded from the calculation of the difference between the highest and lowest SA3 rates in Australia.

Sources: AIHW analysis of Medicare Benefits Schedule data and ABS Estimated Resident Population 30 June 2016.

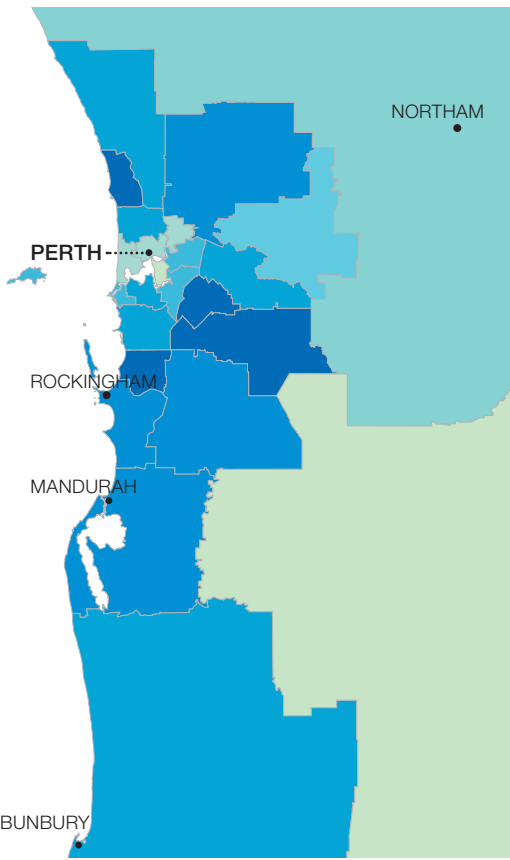
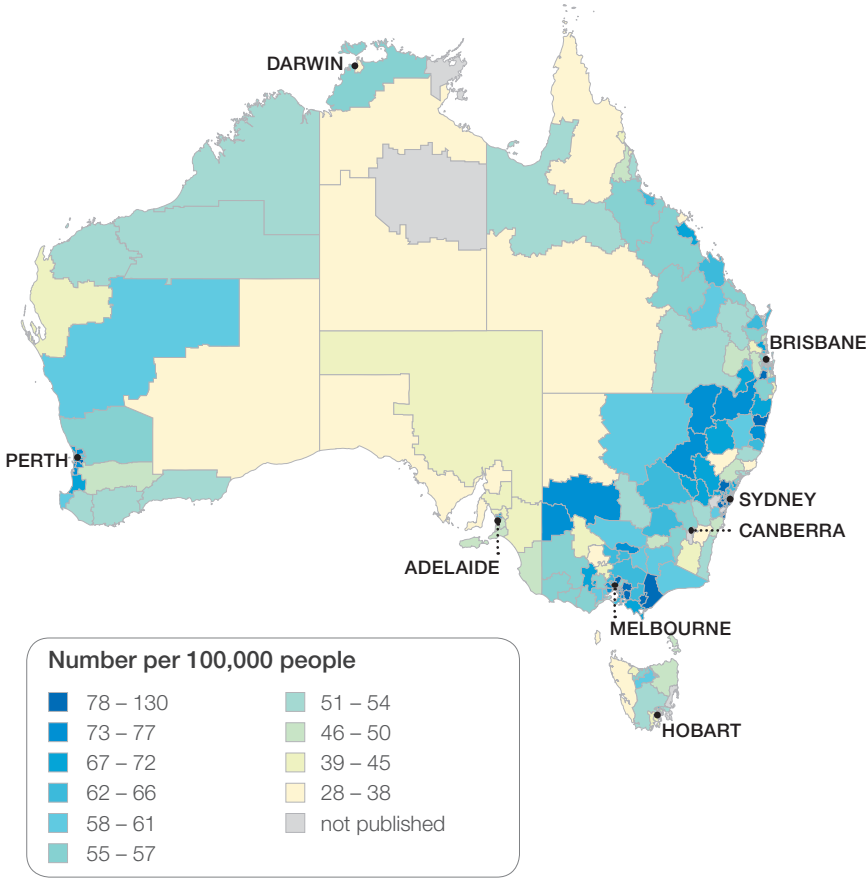
Thyroidectomy hospitalisations

18 years and over

Western Australia

Number of hospitalisations for thyroidectomy per 100,000 people aged 18 years and over, age and sex standardised, by Statistical Area Level 3 (SA3) of patient residence, 2014–15 to 2016–17

Nationally, the rate was **4.6 times as high** in the area with the highest rate compared to the area with the lowest rate.



State	Rate	Lowest SA3 rate	Highest SA3 rate	Hospitalisations
New South Wales	68	29	104	12,485
Victoria	65	36	130	9,388
Queensland	55	28	101	6,217
Western Australia	66	38	91	3,879
South Australia	46	29	69	1,926
Tasmania	48	32	62	621
Australian Capital Territory	42	33	49	380
Northern Territory	45	31	60	222
Australia	62	28	130	35,166

Variation in Western Australia

In Western Australia, the lowest rate for thyroidectomy hospitalisations was in **Goldfields** (38 hospitalisations per 100,000 people) and the highest rate was in **Kwinana** (91 hospitalisations per 100,000 people).

Lowest rate areas Of the 10 lowest SA3 rates nationally, **none** were in Western Australia.

Highest rate areas Of the 10 highest SA3 rates nationally, **one area** was in Western Australia.

SA3 area	Rate	Hospitalisations
Kwinana	91	69

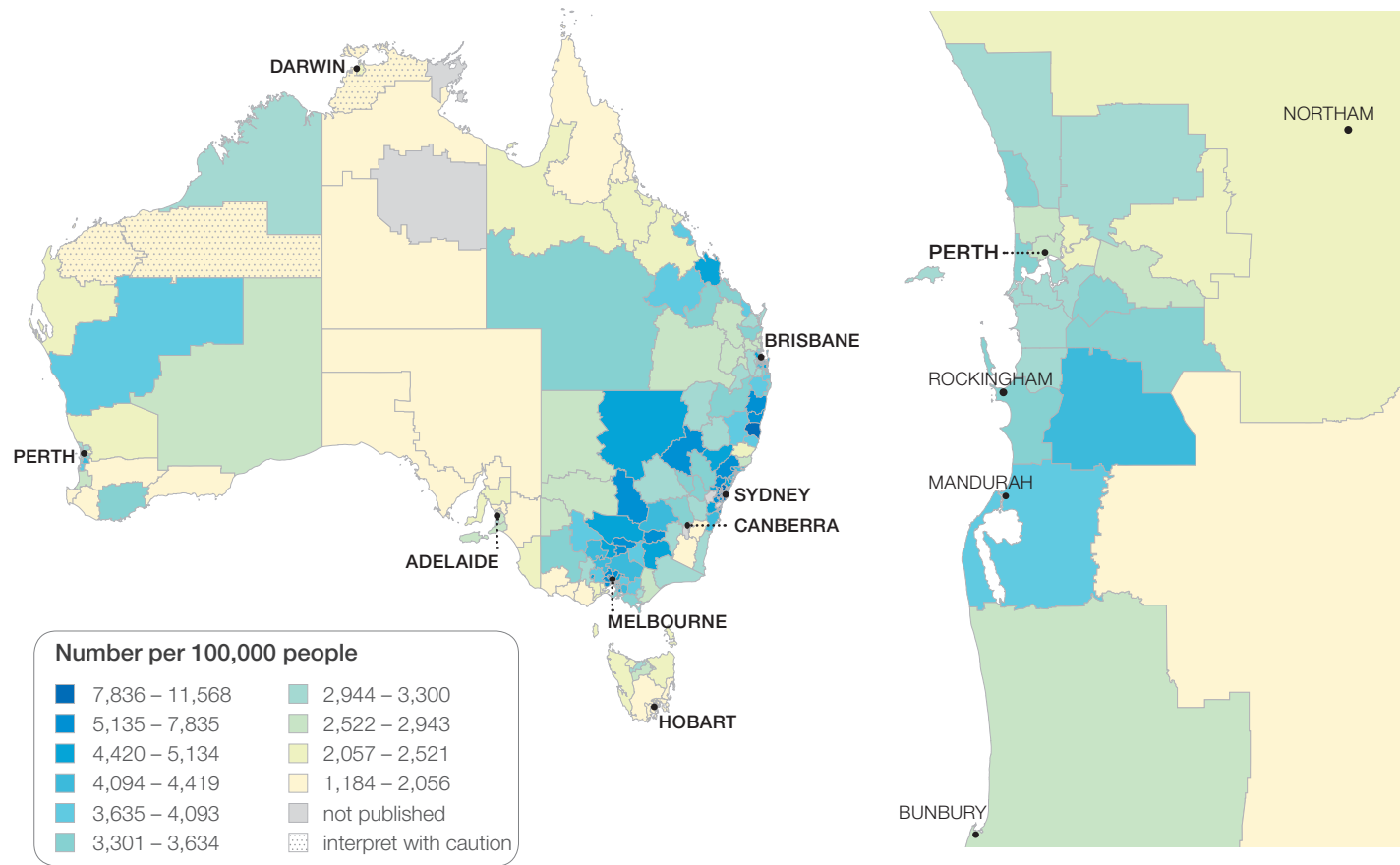
Cardiac stress tests and imaging

18 years and over

Western Australia

Number of MBS-subsidised services for cardiac stress tests and imaging per 100,000 people aged 18 years and over, age and sex standardised, by Statistical Area Level 3 (SA3) of patient residence, 2016–17

Nationally, the rate was **9.8 times as high** in the area with the highest rate compared to the area with the lowest rate.



State	Rate	Lowest SA3 rate	Highest SA3 rate	Services
New South Wales	6,673	1,547	11,568	444,753
Victoria	4,268	1,923	7,376	216,856
Queensland	3,597	1,583	5,430	145,791
Western Australia	3,012	1,318*	4,170	62,080
South Australia	2,661	1,184	3,363	41,745
Tasmania	2,289	1,511	2,994	11,552
Australian Capital Territory	2,370	2,259	2,782	7,125
Northern Territory	2,450	1,269	3,451	3,739
Australia	4,575	1,184	11,568	933,727

Variation in Western Australia

In Western Australia, the lowest rate for cardiac stress tests and imaging was in **East Pilbara** (1,318* MBS services per 100,000 people) and the highest rate was in **Serpentine - Jarrahdale** (4,170 MBS services per 100,000 people).

Lowest rate areas Of the 10 lowest SA3 rates nationally, **two areas** were in Western Australia.

SA3 area	Rate	Services
East Pilbara	1,318*	189
West Pilbara	1,351*	231

Highest rate areas Of the 10 highest SA3 rates nationally, **none** were in Western Australia.

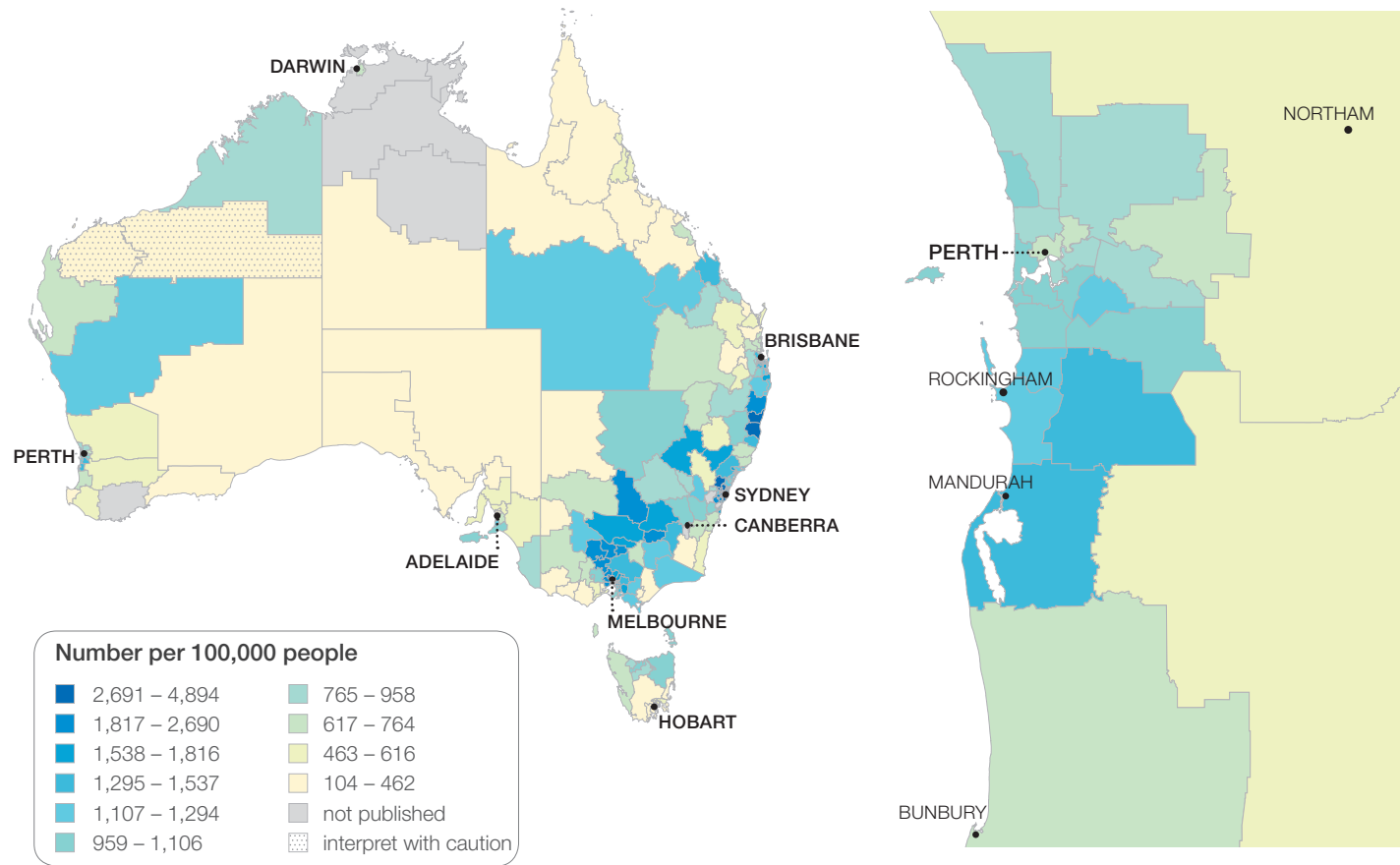
Stress echocardiography

18 years and over

Western Australia

Number of MBS-subsidised services for stress echocardiography per 100,000 people aged 18 years and over, age and sex standardised, by Statistical Area Level 3 (SA3) of patient residence, 2016–17

Nationally, the rate was **47.1 times as high** in the area with the highest rate compared to the area with the lowest rate.



State	Rate	Lowest SA3 rate	Highest SA3 rate	Services
New South Wales	2,265	399	4,894	150,723
Victoria	1,465	265	2,835	73,863
Queensland	1,014	252	1,871	41,160
Western Australia	920	129	1,440	18,942
South Australia	747	104	1,254	11,782
Tasmania	749	370	1,085	3,774
Australian Capital Territory	731	600	913	2,214
Northern Territory	698	457	912	1,042
Australia	1,491	104	4,894	303,525

Variation in Western Australia

In Western Australia, the lowest rate for stress echocardiography was in **Goldfields** (129 MBS services per 100,000 people) and the highest rate was in **Serpentine - Jarrahdale** (1,440 MBS services per 100,000 people).

Lowest rate areas
Of the 10 lowest SA3 rates nationally, **four areas** were in Western Australia.

SA3 area	Rate	Services
Goldfields	129	32
East Pilbara	227*	34
West Pilbara	235*	42
Esperance	248	40

Highest rate areas
Of the 10 highest SA3 rates nationally, **none** were in Western Australia.

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Sources: AIHW analysis of Medicare Benefits Schedule data and ABS Estimated Resident Population 30 June 2016.

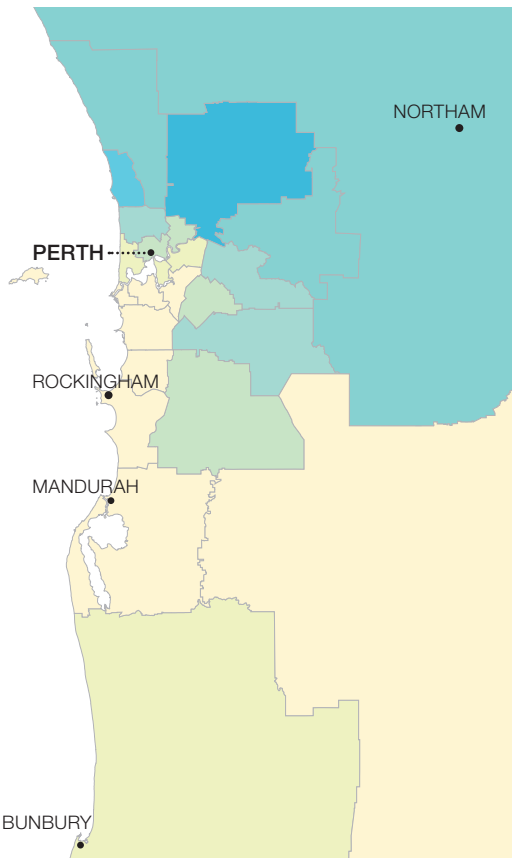
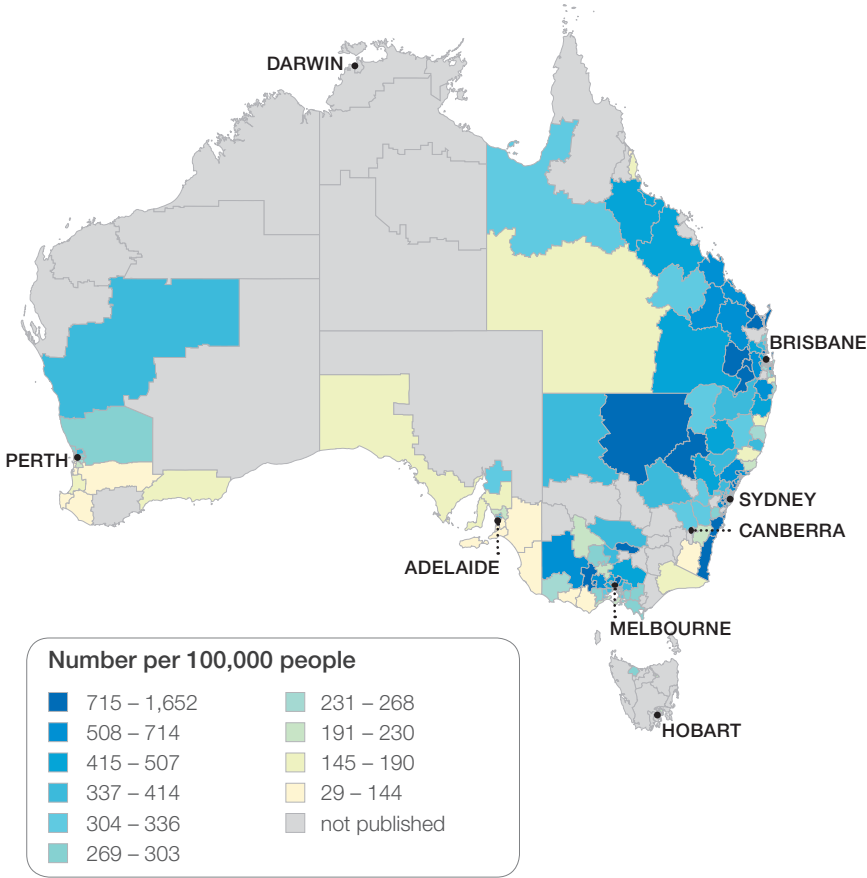
Myocardial perfusion scans

18 years and over

Western Australia

Number of MBS-subsidised services for myocardial perfusion scans per 100,000 people aged 18 years and over, age and sex standardised, by Statistical Area Level 3 (SA3) of patient residence, 2016–17

Nationally, the rate was **57.0 times as high** in the area with the highest rate compared to the area with the lowest rate.



State	Rate	Lowest SA3 rate	Highest SA3 rate	Services
New South Wales	485	144	1,652	33,155
Victoria	385	121	1,041	20,196
Queensland	418	71	1,033	17,112
Western Australia	206	86	372	4,227
South Australia	182	29	486	2,953
Tasmania	248	199	302	1,292
Australian Capital Territory	241	186	313	700
Northern Territory	193	n.p.	n.p.	262
Australia	384	29	1,652	79,905

Variation in Western Australia

In Western Australia, the lowest rate for myocardial perfusion scans was in **Kwinana** (86 MBS services per 100,000 people) and the highest rate was in **Swan** (372 MBS services per 100,000 people).

Lowest rate areas Of the 10 lowest SA3 rates nationally, **three areas** were in Western Australia.

SA3 area	Rate	Services
Kwinana	86	n.p.
Fremantle	95	34
Manjimup	96	26

Highest rate areas Of the 10 highest SA3 rates nationally, **none** were in Western Australia.

The number of services is not published for Kwinana for confidentiality reasons.
Sources: AIHW analysis of Medicare Benefits Schedule data and ABS Estimated Resident Population 30 June 2016.

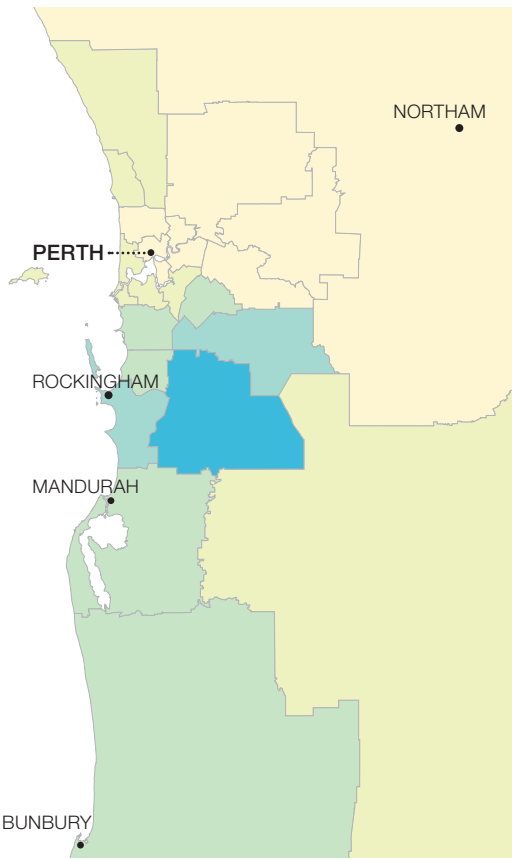
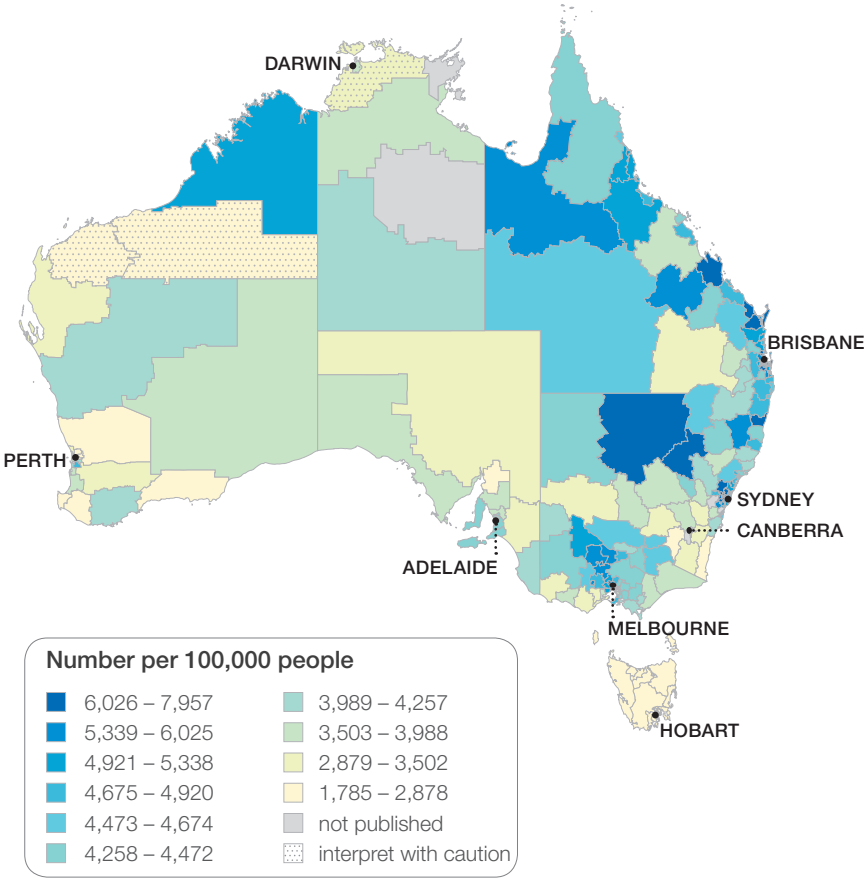
Standard echocardiography

18 years and over

Western Australia

Number of MBS-subsidised services for standard echocardiography per 100,000 people aged 18 years and over, age and sex standardised, by Statistical Area Level 3 (SA3) of patient residence, 2016–17

Nationally, the rate was **3.5 times as high** in the area with the highest rate compared to the area with the lowest rate.



State	Rate	Lowest SA3 rate	Highest SA3 rate	Services
New South Wales	5,309	2,628	7,957	359,202
Victoria	4,316	3,010	6,320	224,211
Queensland	5,016	3,365	7,051	200,703
Western Australia	3,167	1,785*	5,149	64,222
South Australia	4,250	2,783	4,843	68,247
Tasmania	2,624	2,329	2,890	13,211
Australian Capital Territory	2,902	2,765	3,111	8,590
Northern Territory	4,499	3,307*	5,048	6,582
Australia	4,599	2,279	7,957	945,056

Variation in Western Australia

In Western Australia, the lowest rate for standard echocardiography was in **East Pilbara** (1,785* MBS services per 100,000 people) and the highest rate was in **Kimberley** (5,149 MBS services per 100,000 people).

Lowest rate areas Of the 10 lowest SA3 rates nationally, **seven areas** were in Western Australia.

SA3 area	Rate	Services
East Pilbara	1,785*	203
West Pilbara	1,906*	248
Mundaring	2,279	865
Bayswater - Bassendean	2,335	1,670
Belmont - Victoria Park	2,375	1,293
Swan	2,390	2,054
Esperance	2,396	352

Highest rate areas Of the 10 highest SA3 rates nationally, **none** were in Western Australia.

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Sources: AIHW analysis of Medicare Benefits Schedule data and ABS Estimated Resident Population 30 June 2016.