

The Second Australian Atlas of Healthcare Variation: what does it tell us?

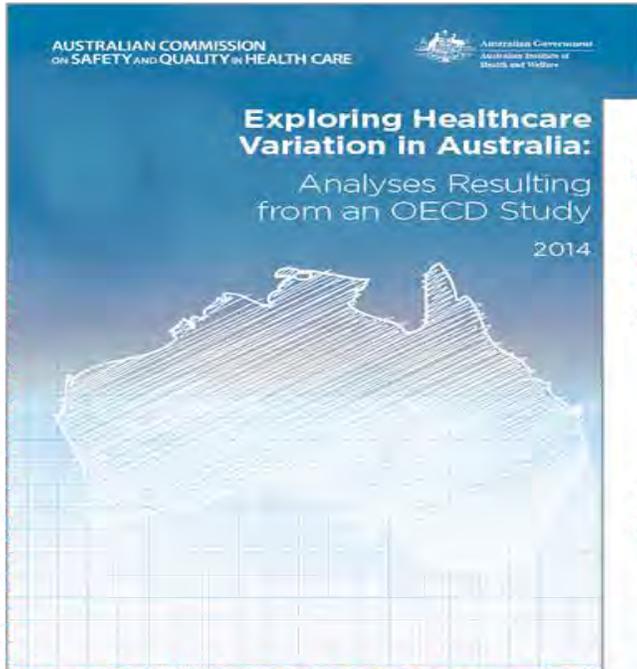
Queensland Clinical Senate

30 November 2017

Conjoint Professor Anne Duggan

Senior Medical Advisor

The Australian Atlas of Healthcare Variation series





DIABETES COMPLICATIONS



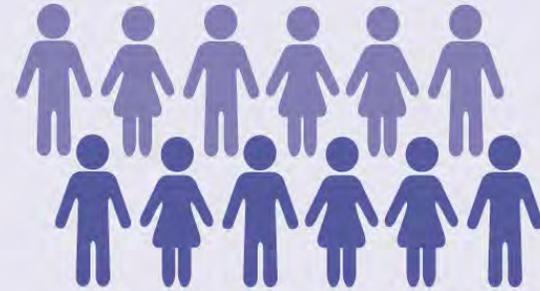
2014-2015

43,737

hospitalisations



12x



THE RATE OF HOSPITALISATIONS FOR DIABETES COMPLICATIONS WAS **12X TIMES AS HIGH** IN SOME AREAS COMPARED TO OTHERS

♀♀ HYSTERECTOMY

Hospitalisations 15 years and over



WOMEN IN
REGIONAL AREAS
ARE MUCH MORE
LIKELY TO HAVE A
HYSTERECTOMY

AGE-STANDARDISED RATE PER
100,000 WOMEN (2014-2015)



Major
cities



Inner
regional



Outer
regional



Remote

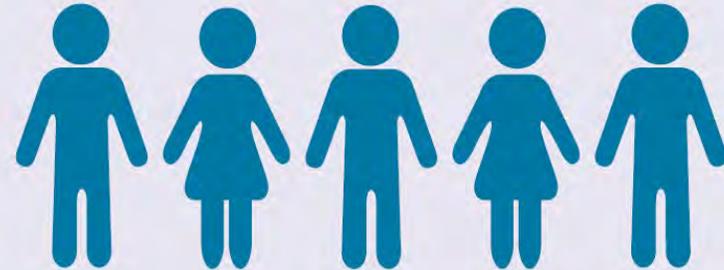


ABORIGINAL AND TORRES STRAIT ISLANDER AUSTRALIANS



Aboriginal and Torres Strait Islander Australians have **up to five times** the rate of hospitalisations for some chronic diseases than other Australians

5x



(2014-2015)

AUSTRALIAN COMMISSION
ON SAFETY AND QUALITY IN HEALTH CARE

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Chronic disease and infection: Potentially preventable hospitalisations



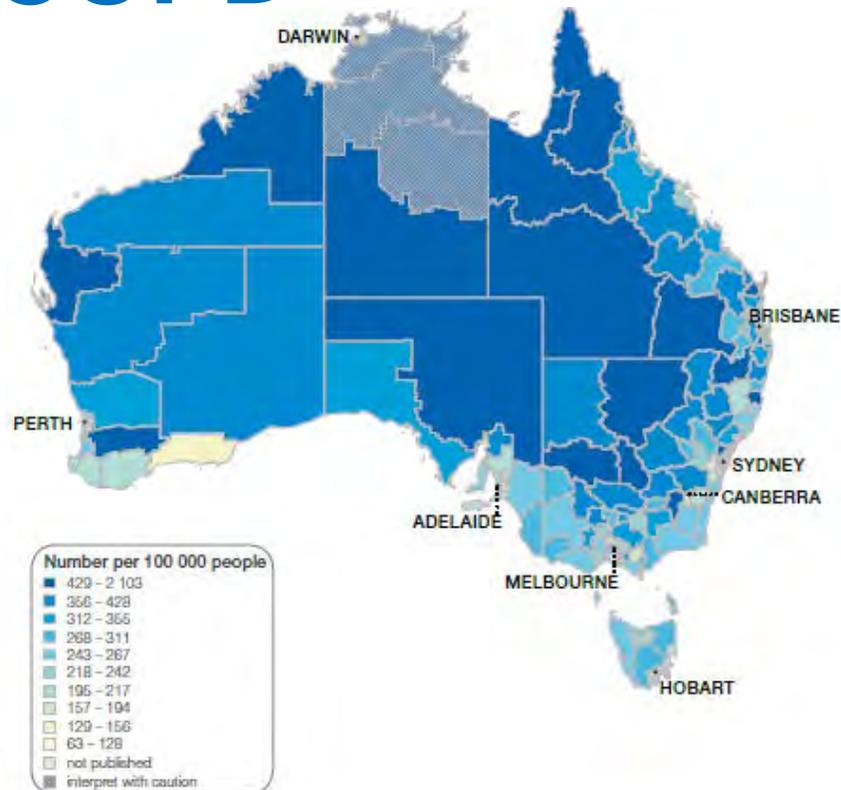
Chronic disease and infection: potentially preventable hospitalisations

Data item	Range across SA3s per 100,000 people	Times difference	Times difference excluding top and bottom 10%	Number over one year
1.1 COPD	63 to 990	15.7	3.3	66,250
1.2 Heart failure	90 to 632	7.0	2.1	55,511
1.3 Cellulitis	102 to 1,262	12.4	2.9	59,466
1.4 Kidney/ urinary tract infections	140 to 899	6.4	2.2	73,277
1.5 Diabetes complications	52 to 601	11.6	2.8	43,737

National Hospital Morbidity Database , 2014–15



COPD



Number of hospitalisations per 100 000 people, age and sex standardised, 2014-15

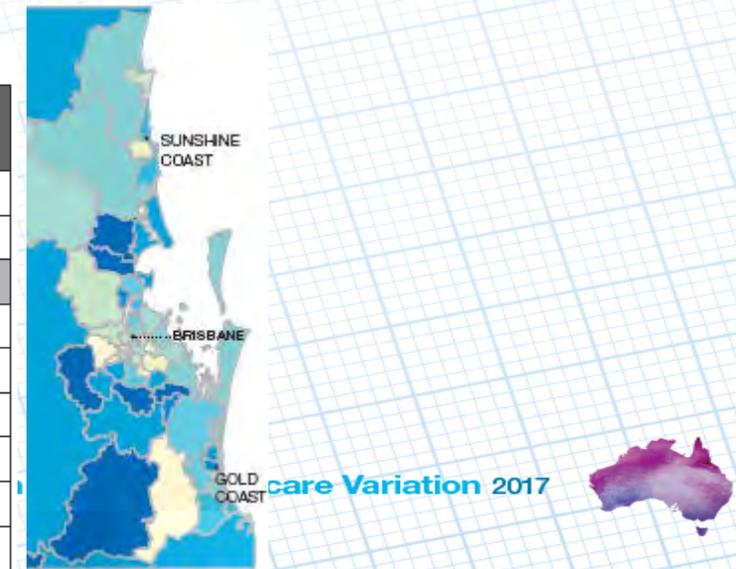
State/Territory	Rate	Lowest SA3 rate	Highest SA3 rate	Number of hospitalisations
New South Wales	242	72	965	22 072
Victoria	217	85	421	14 882
Queensland	286	63	631	14 846
Western Australia	203	71	679	5 352
South Australia	259	74	663	5 799
Tasmania	204	89	312	1 438
Australian Capital Territory	193	121	271	700
Northern Territory	619	142*	2 103*	1 001
Australia	244	63	990	66 250

Of the 10 lowest rates nationally, two were in Queensland.

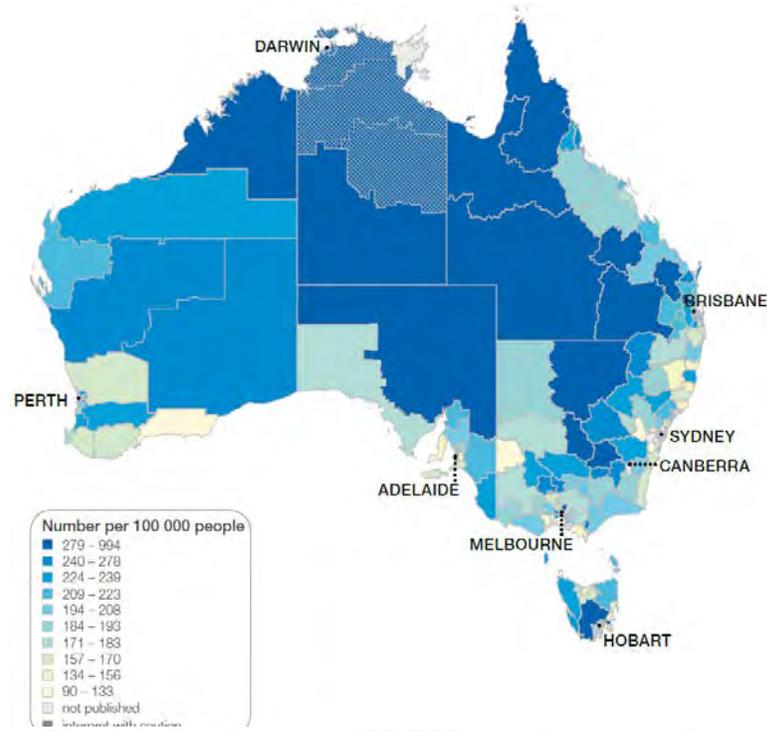
SA3	Rate	No. of hospitalisations
Sherwood - Indooroopilly	63	32
Kenmore - Brookfield - Moggill	92	45

Of the 10 highest rates nationally, one was in Queensland.

SA3	Rate	No. of hospitalisations
Far North	631	148



Heart Failure



Number of hospitalisations per 100 000 people, age and sex standardised, 2014-15

State/Territory	Rate	Lowest SA3 rate	Highest SA3 rate	Number of hospitalisations
New South Wales	181	90	437	17 394
Victoria	201	98	338	14 580
Queensland	210	94	424	10 997
Western Australia	201	117	632	5 355
South Australia	187	106	284	4 536
Tasmania	177	96	326	1 295
Australian Capital Territory	169	134	259	614
Northern Territory	344	210	994*	572
Australia	196	90	632	55 511

Of the 10 lowest rates nationally, two were in Queensland.

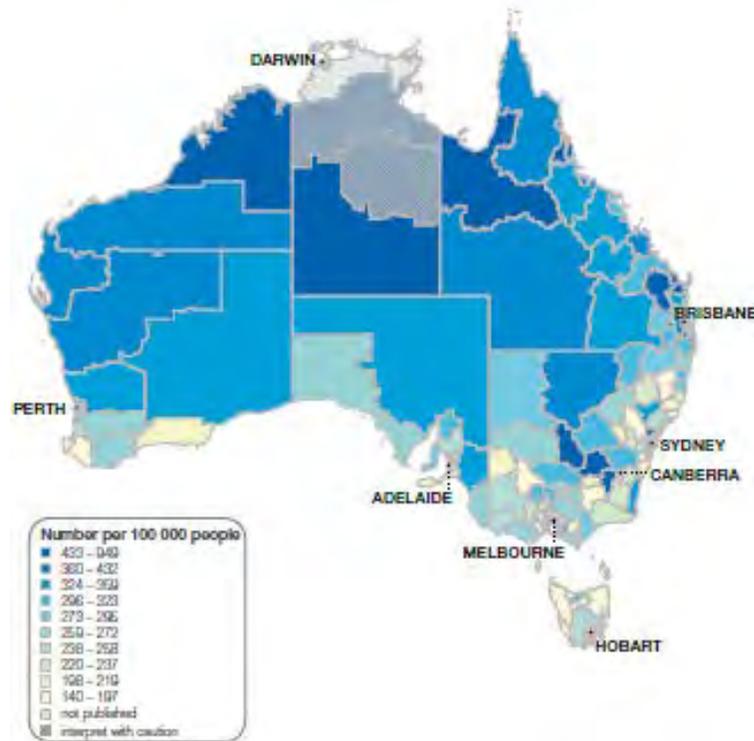
SA3	Rate	No. of hospitalisations
Sherwood - Indooroopilly	94	48
Surfers Paradise	107	58

Of the 10 highest rates nationally, two were in Queensland.

SA3	Rate	No. of hospitalisations
Port Douglas - Daintree	424	50
Outback - South	358	86



Kidney and Urinary Tract Infection



Of the 10 lowest rates nationally, none were in Queensland.

Of the 10 highest rates nationally, six were in Queensland.

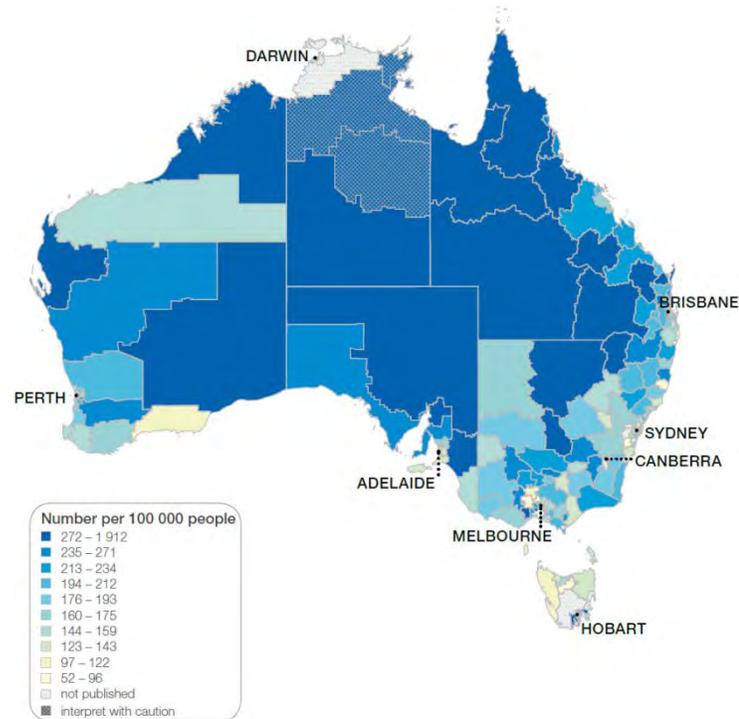
SA3	Rate	No. of hospitalisations
Loganlea - Carbrook	543	308
Beaudesert	533	82
Mudgeeraba - Tallebudgera	530	159
Tablelands (East) - Kuranda	523	234
Outback - North	517	125
Springwood - Kingstori	516	388

Number of hospitalisations per 100 000 people, age and sex standardised, 2014-15

State/Territory	Rate	Lowest SA3 rate	Highest SA3 rate	Number of hospitalisations
New South Wales	259	157	514	22 088
Victoria	248	140	407	16 002
Queensland	380	194	543	18 720
Western Australia	286	158	899	7 365
South Australia	276	161	345	5 602
Tasmania	214	144	328	1 301
Australian Capital Territory	249	207	282	930
Northern Territory	411	204*	949*	766
Australia	286	140	899	73 277



Diabetic complications



Of the 10 lowest rates nationally, one was in Queensland.

SA3	Rate	No. of hospitalisations
Brisbane Inner - West	52	28

Of the 10 highest rates nationally, four were in Queensland.

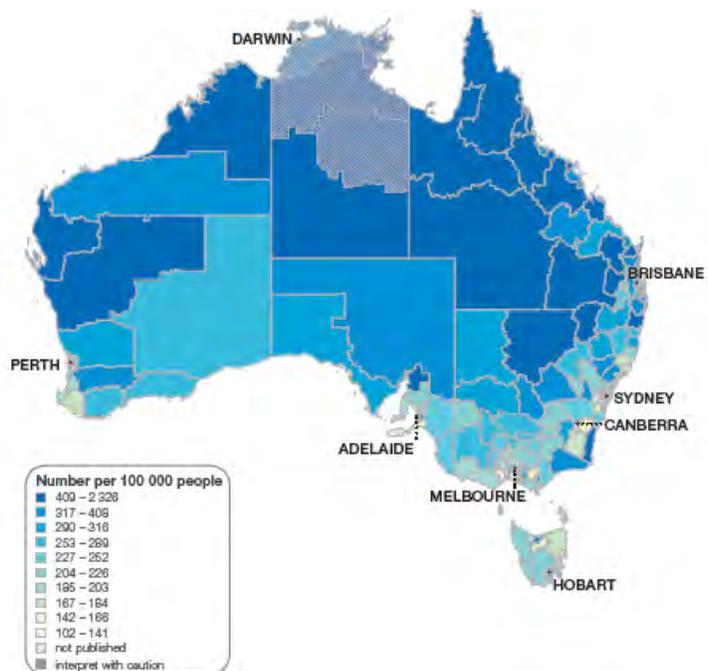
SA3	Rate	No. of hospitalisations
Outback - North	601	181
Far North	542	164
Outback - South	453	95
Tablelands (East) - Kuranda	407	181

Number of hospitalisations per 100 000 people, age and sex standardised, 2014–15

State/Territory	Rate	Lowest SA3 rate	Highest SA3 rate	Number of hospitalisations
New South Wales	141	52	310	11 660
Victoria	173	72	395	10 968
Queensland	205	52	601	10 120
Western Australia	186	99	408	4 892
South Australia	190	78	473	3 714
Tasmania	190	86	333	1 119
Australian Capital Territory	118	85	140	443
Northern Territory	307	167	1 912*	643
Australia	173	52	601	43 737



Cellulitis



Of the 10 lowest rates nationally, one was in Queensland.

SA3	Rate	No. of hospitalisations
Sherwood - Indooroopilly	122	68

Of the 10 highest rates nationally, four were in Queensland.

SA3	Rate	No. of hospitalisations
Far North	1 131	341
Innisfail - Cassowary Coast	922	341
Outback - South	802	165
Tablelands (East) - Kuranda	717	297

Number of hospitalisations per 100 000 people, age and sex standardised, 2014-15

State/Territory	Rate	Lowest SA3 rate	Highest SA3 rate	Number of hospitalisations
New South Wales	221	112	693	18 340
Victoria	187	102	329	11 787
Queensland	325	122	1 131	15 871
Western Australia	203	104	1 262	5 274
South Australia	224	133	476	4 433
Tasmania	229	102	628	1 314
Australian Capital Territory	177	111	226	670
Northern Territory	540	313	2 326*	1 210
Australia	237	102	1 262	59 466



International Comparison



ANTIMICROBIALS

Number of prescriptions dispensed



2013-2014
30,355,539



PER 1,000 PEOPLE



1199

Australia



842

United States



642

Canada

AUSTRALIAN COMMISSION
ON SAFETY AND QUALITY IN HEALTH CARE

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How

do other OECD countries?

ASTHMA AND COPD HOSPITAL ADMISSIONS	
Age-sex standardised rate per 100 000 population	
OECD	236
Australia	371 
Austria	330 
Belgium	286 
Canada	247 
Chile	99 
Czech Republic	193 
Denmark	333 
Estonia	137 
Finland	184 
France	150 
Germany	284 
Greece	- 
Hungary	428 
Iceland	223 
Ireland	411 
Israel	259 
Italy	64 
Japan	58 
Korea	309 
Latvia	341 
Luxembourg	186 
Mexico	96 
Netherlands	202 
New Zealand	363 
Norway	261 
Poland	234 
Portugal	74 
Slovak Republic	238 
Slovenia	146 
Spain	234 
Sweden	184 
Switzerland	138 
Turkey	414 
United Kingdom	303 
United States	262 

Source: OECD Health Statistics 2017.

 Better than OECD average

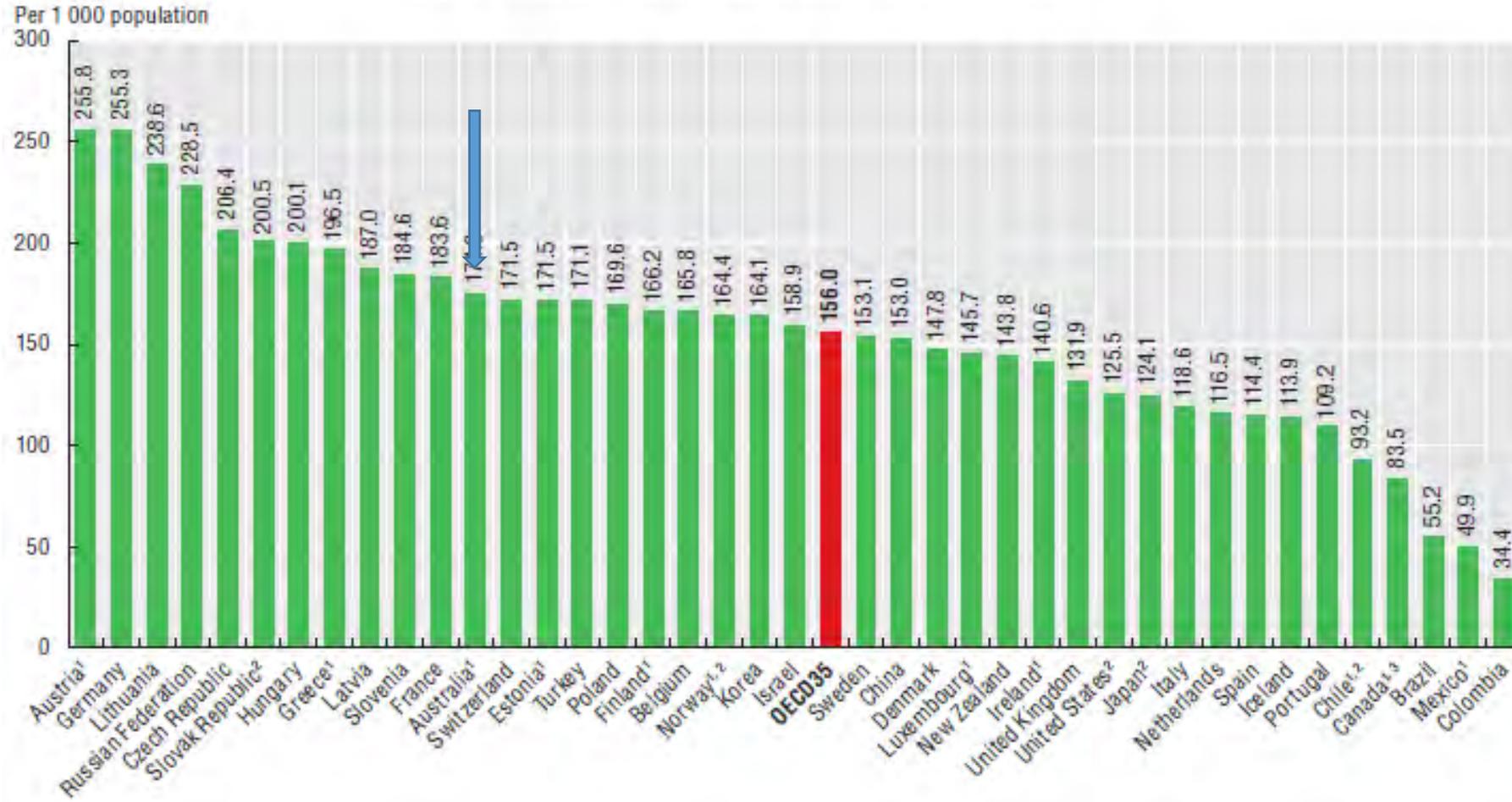
 Close to OECD average

 Worse than OECD average

- Missing data

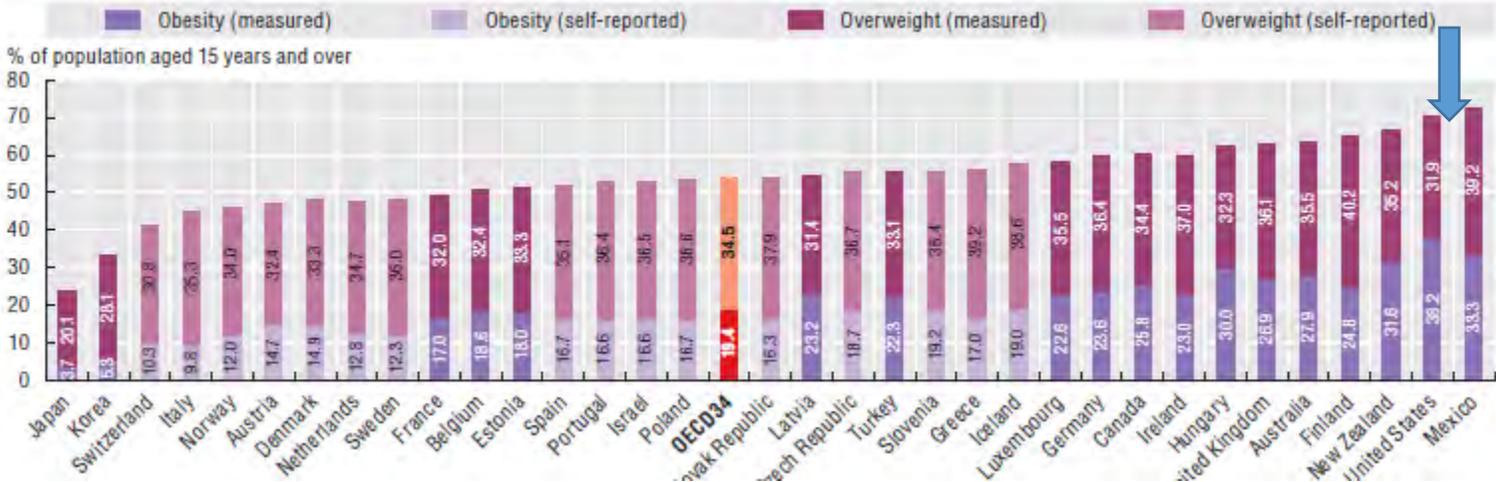
OECD hospital discharges (rate per 1,000 population)

9.10. Hospital discharges, 2015 (or nearest year)



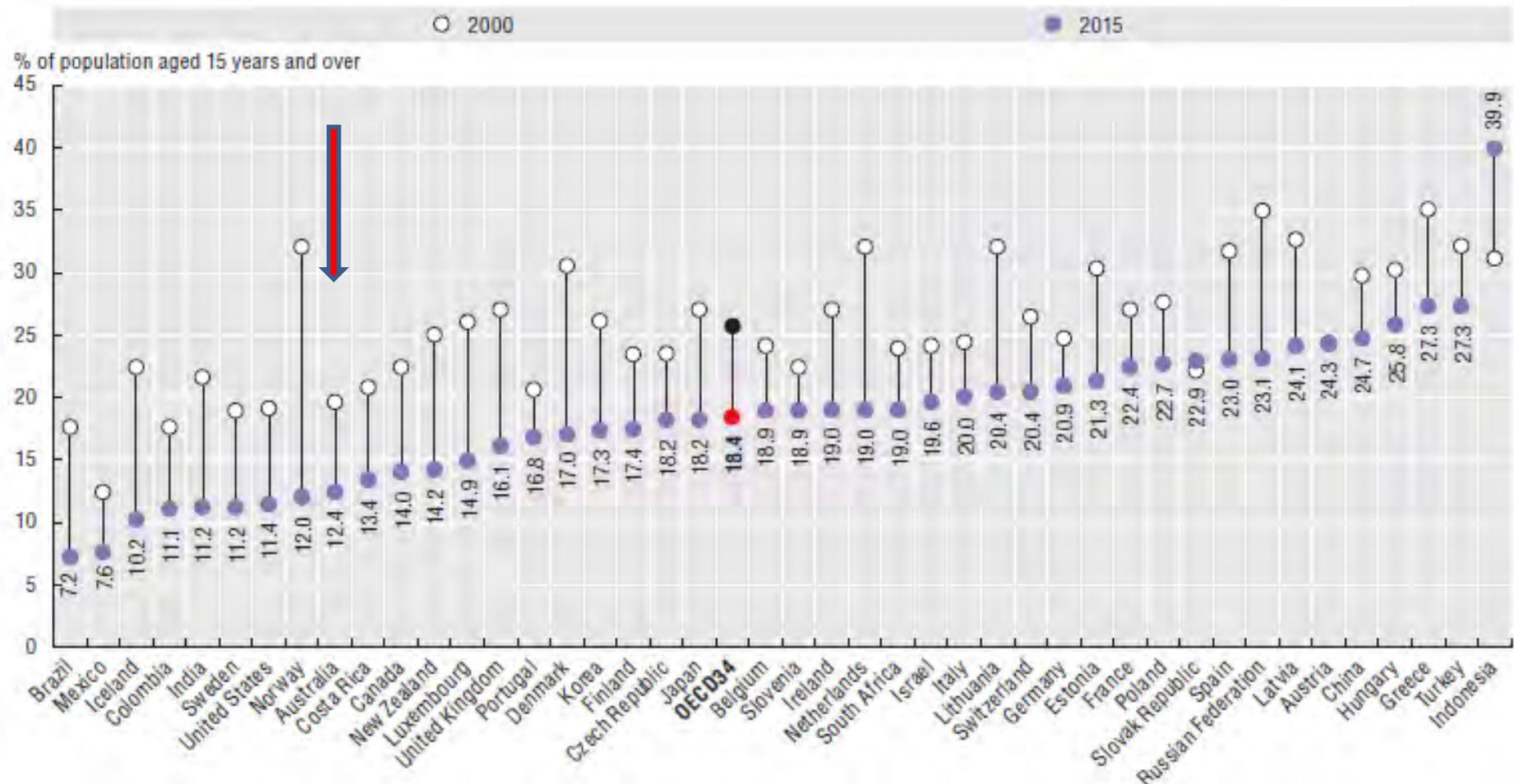
Source: OECD Health Statistics 2017.

Prevalence of overweight and obese among OECD countries (percentage of population)



Source: OECD Health Statistics 2017.

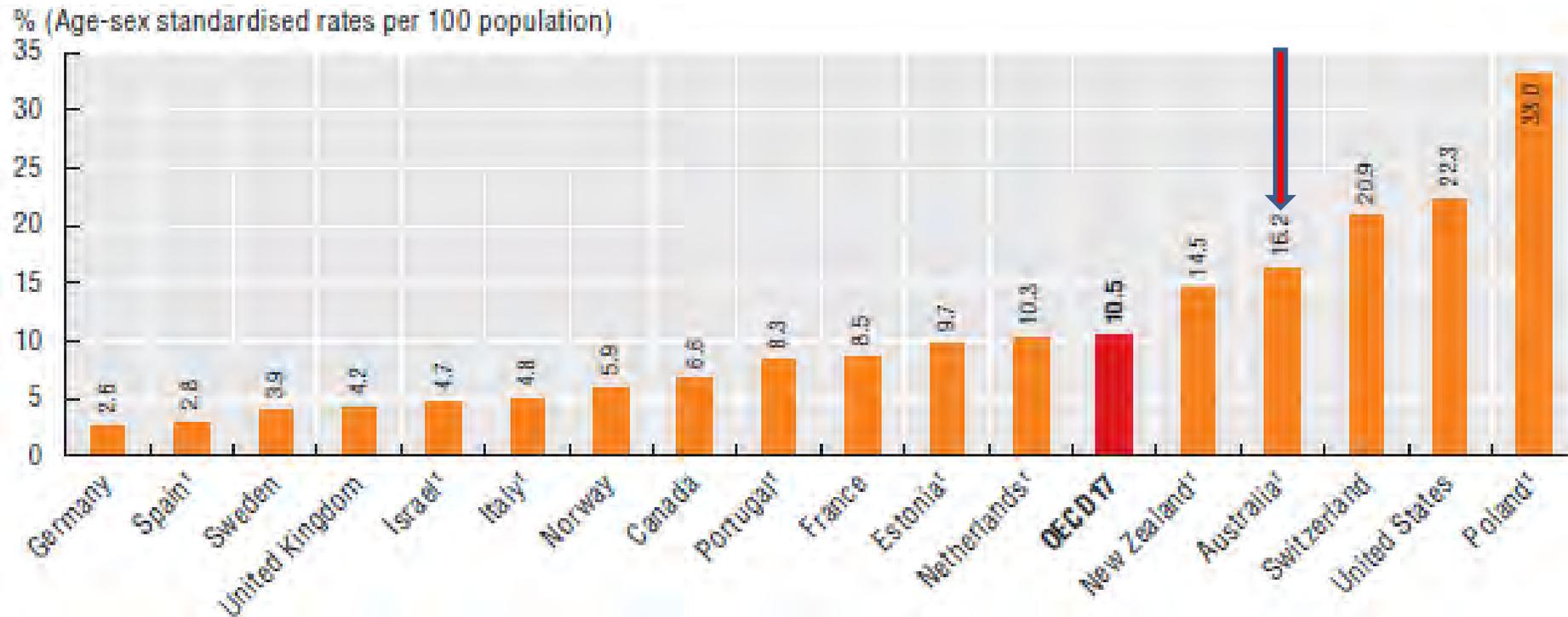
Adult smoking rates 2000 and 2015



Source: Commonwealth Fund International Health Policy Survey 2016 and other national sources.

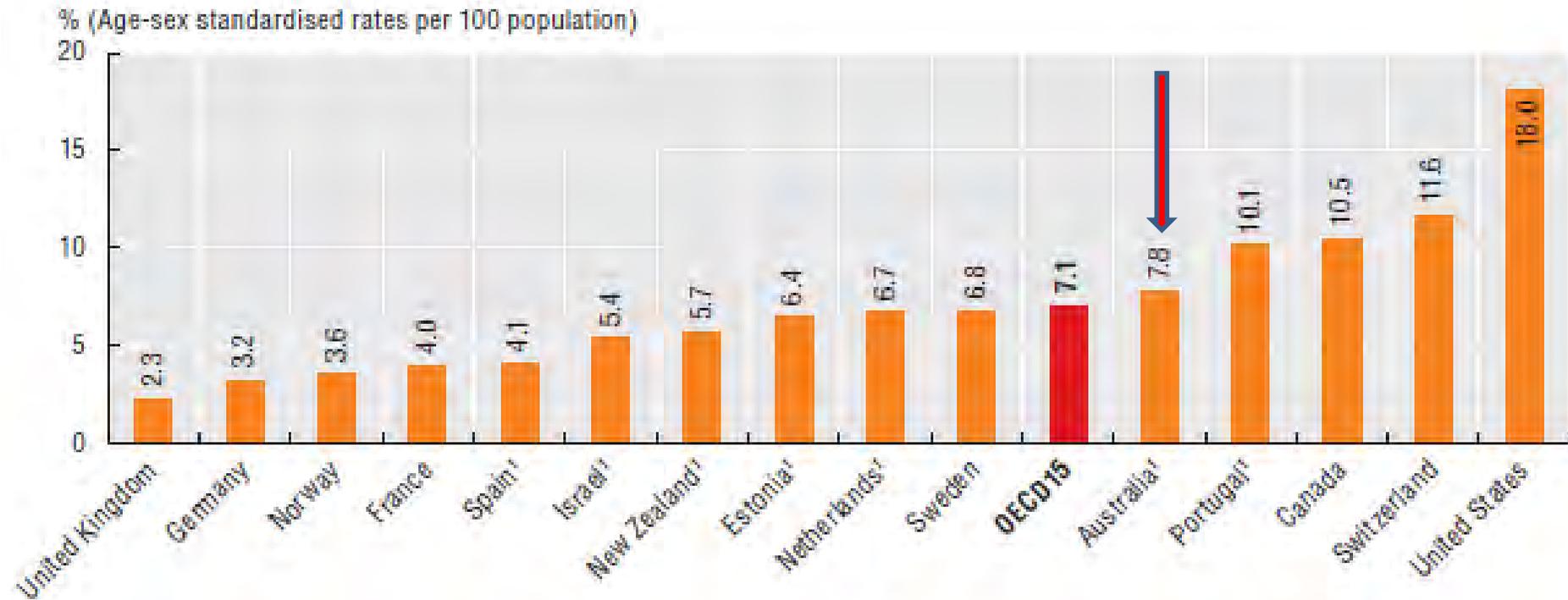


Consultations skipped due to cost (2016 or nearest year)



Source: Commonwealth Fund International Health Policy Survey 2016 and other national sources.

Prescribed medicines skipped due to cost (2016 or nearest year)



Source: Commonwealth Fund International Health Policy Survey 2016 and other national sources.

Unmet Care needs due to cost by income level 2006



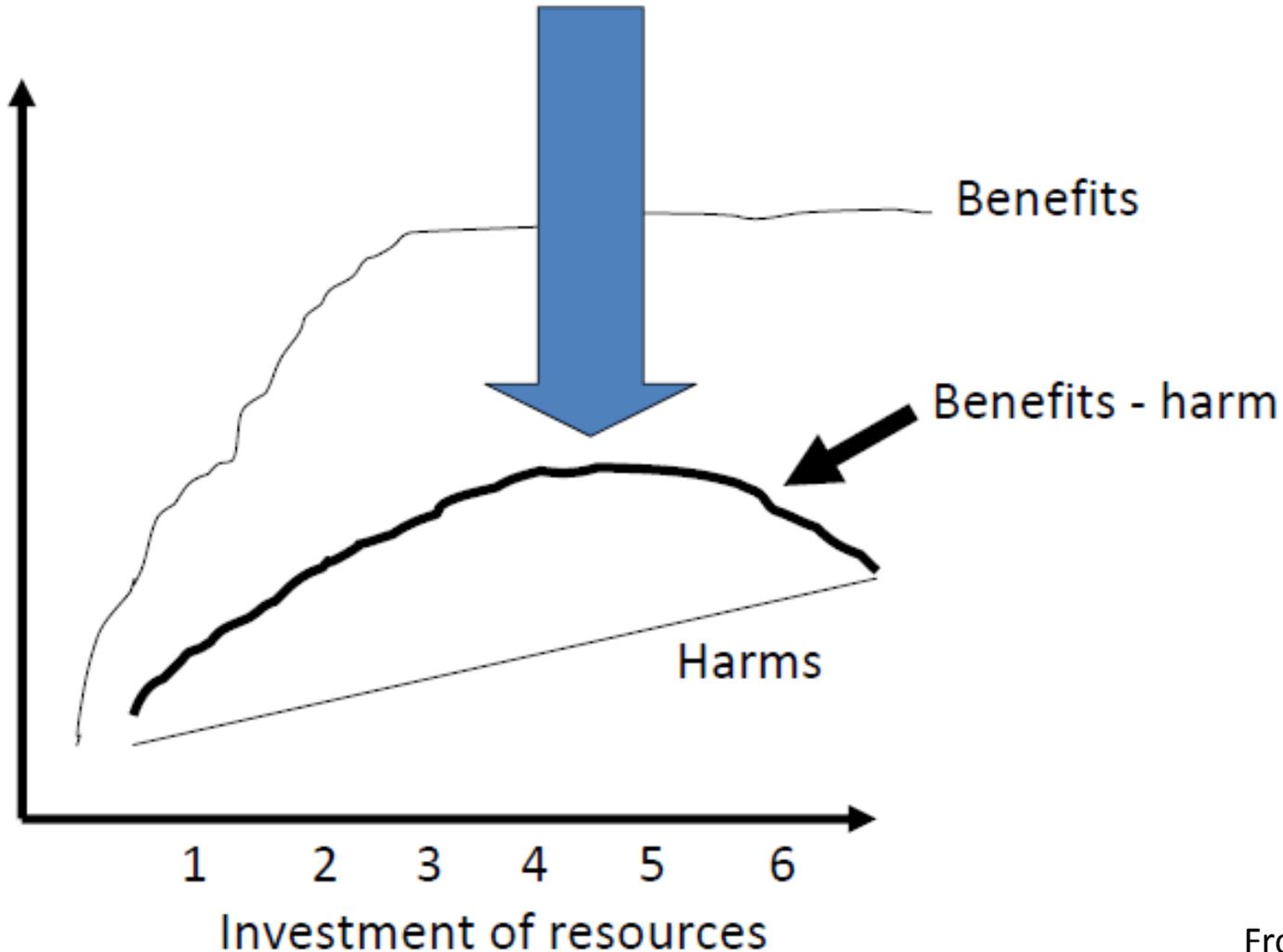


A good map is worth a thousand words...it produces a thousand words:
it raises doubts, ideas. It poses new questions, and it forces you to look for new answers.

Moretti F. *Atlas of the European novel 1800-1900*. London: Verso, 1998.

Questions?

Point of optimality: after a certain level of investment health gain may decline





Over 150 individuals and organisations consulted