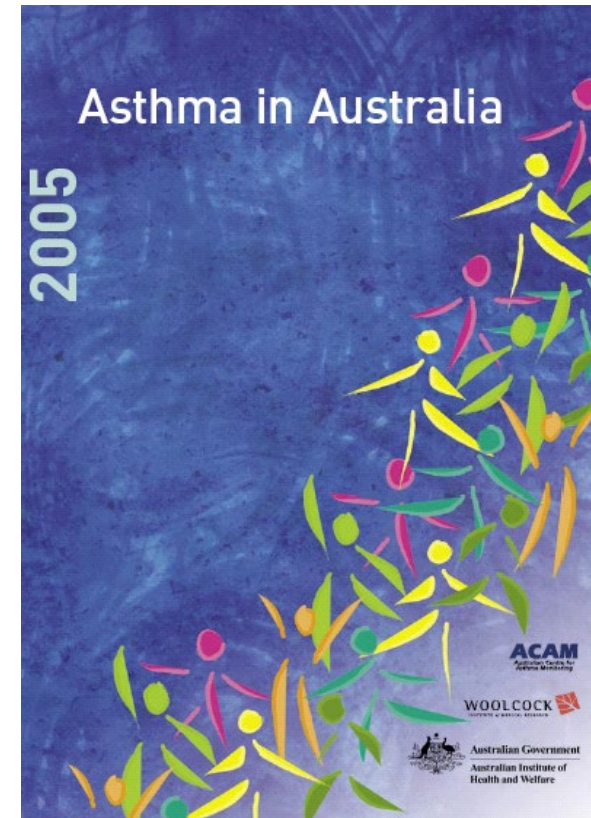


Asthma in Australia 2005

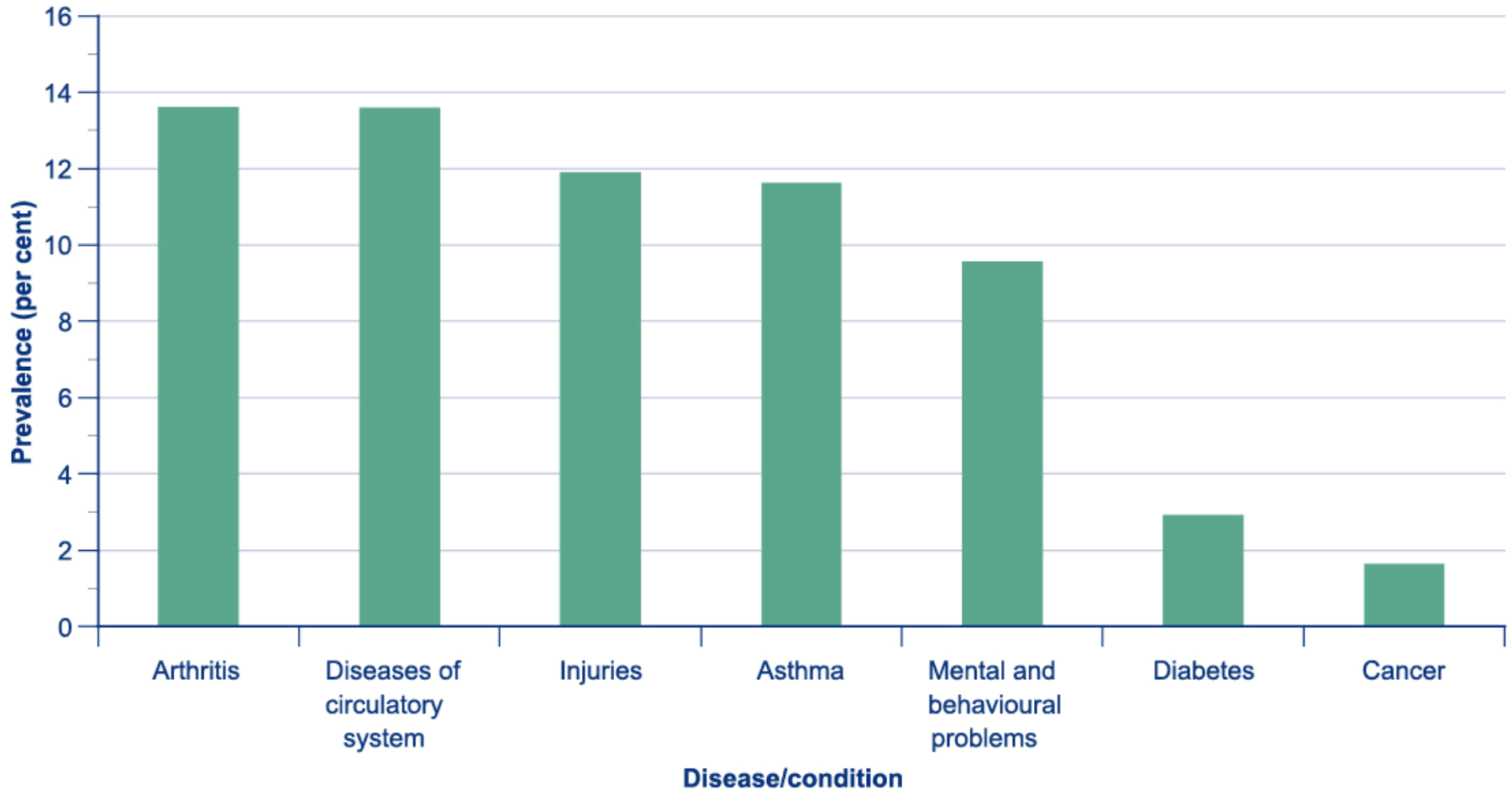
**Australian Centre for
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Asthma in Australia 2005

Chapter 1 Introduction

Prevalence of National Health Priority Area diseases all ages, Australia, 2001



Source: ABS National Health Survey 2001.



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Disease/condition

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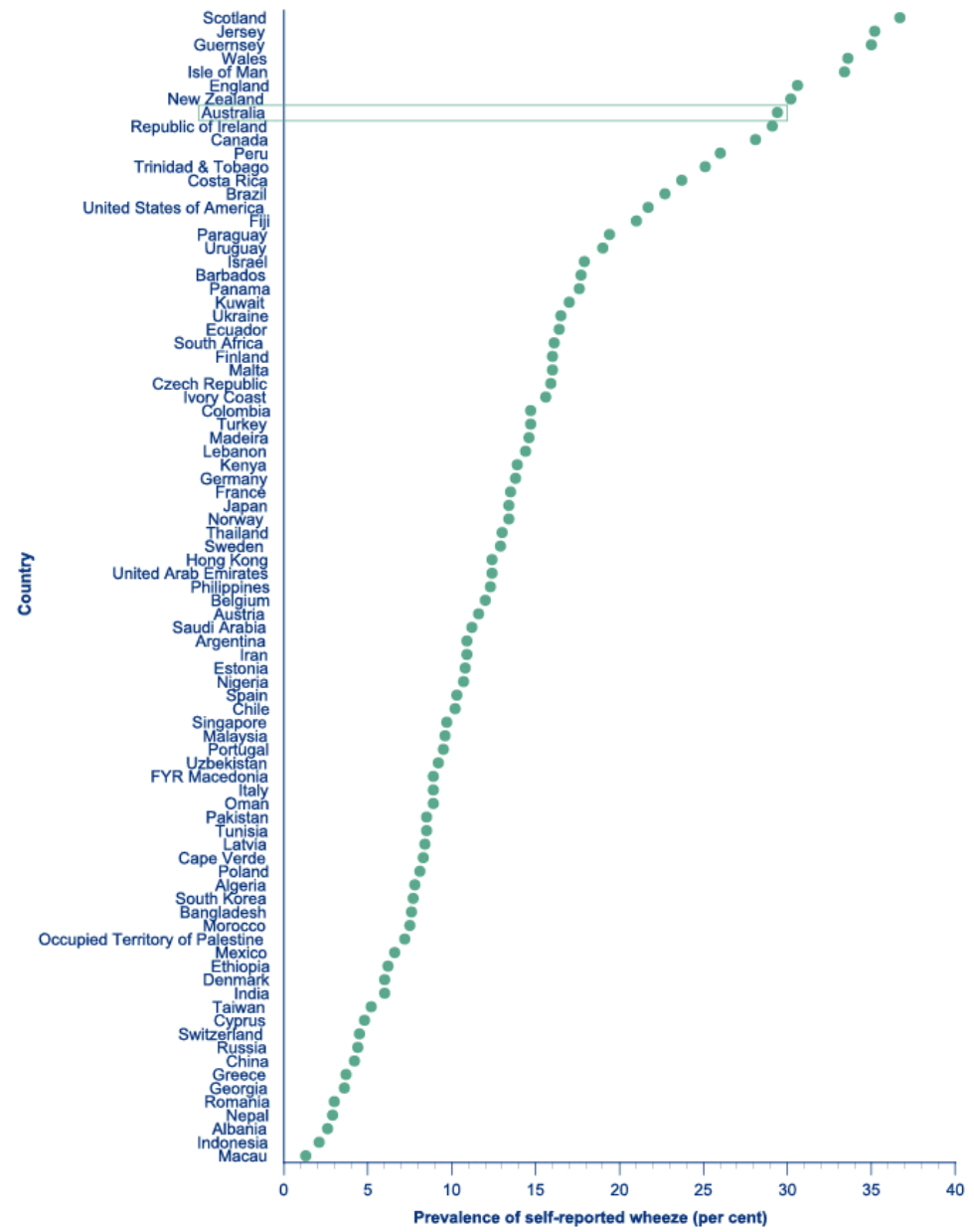
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Asthma in Australia 2005

Chapter 2 Asthma in children

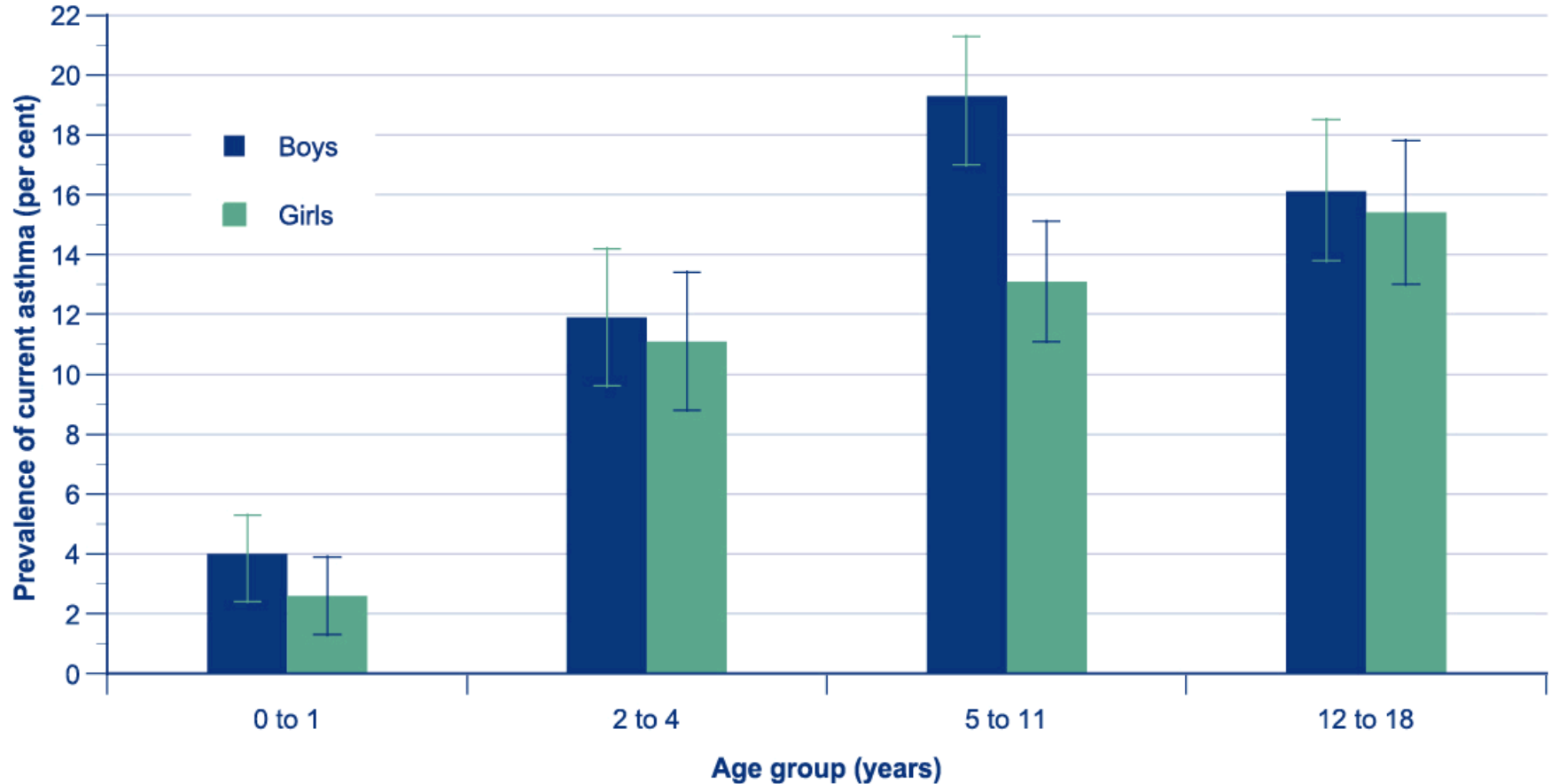
World ranking for the percentage of children with self-reported wheeze age 13 to 14 years



Source: GINA 2004 (reproduced with permission).

Prevalence of current asthma

by age group and sex, children aged 0 to 18 years, Australia, 2001



Source: ABS National Health Survey 2001.



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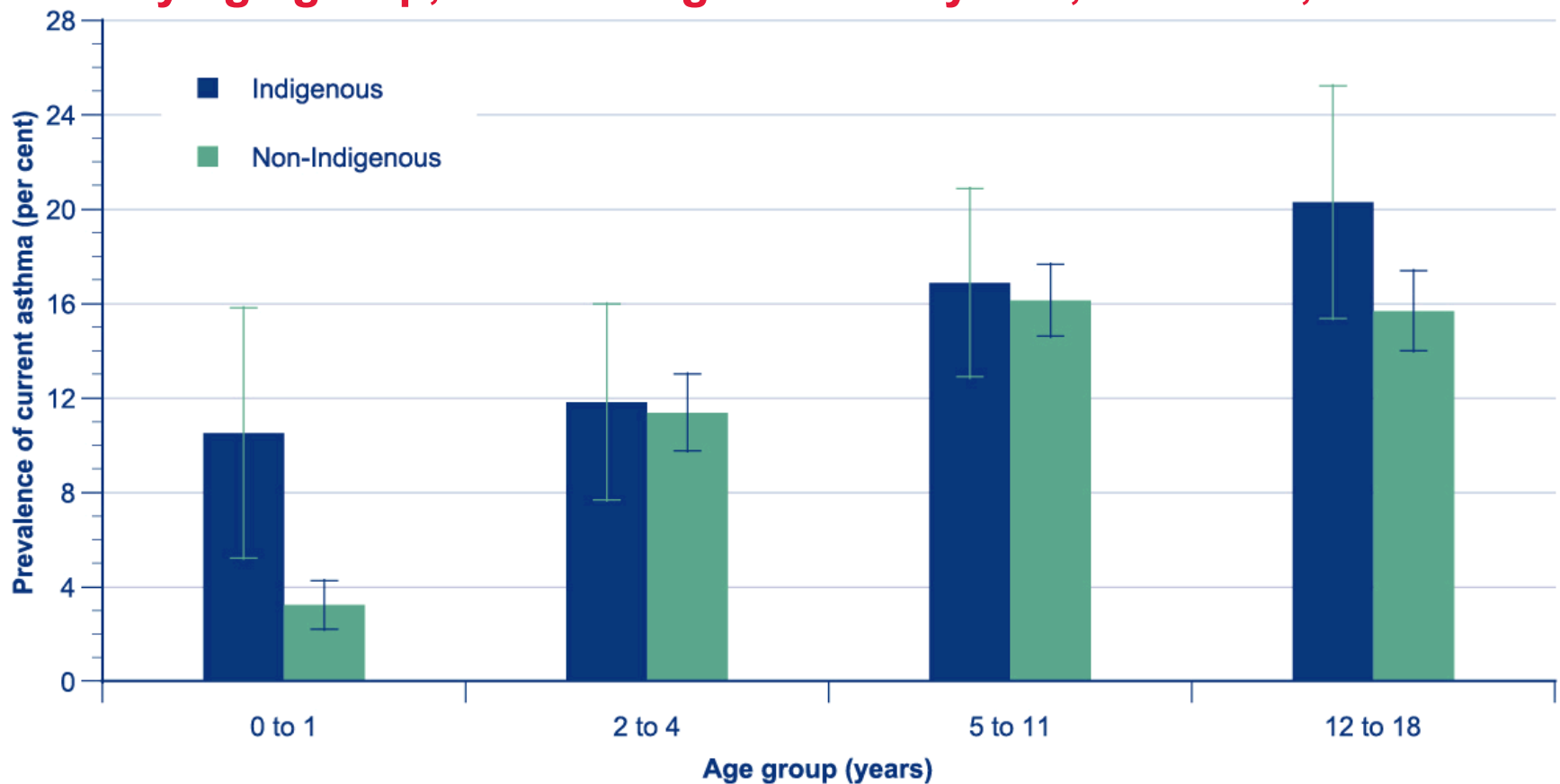
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Prevalence of current asthma by Indigenous status

by age group, children aged 0 to 18 years, Australia, 2001



Source: ABS National Health Survey 2001.



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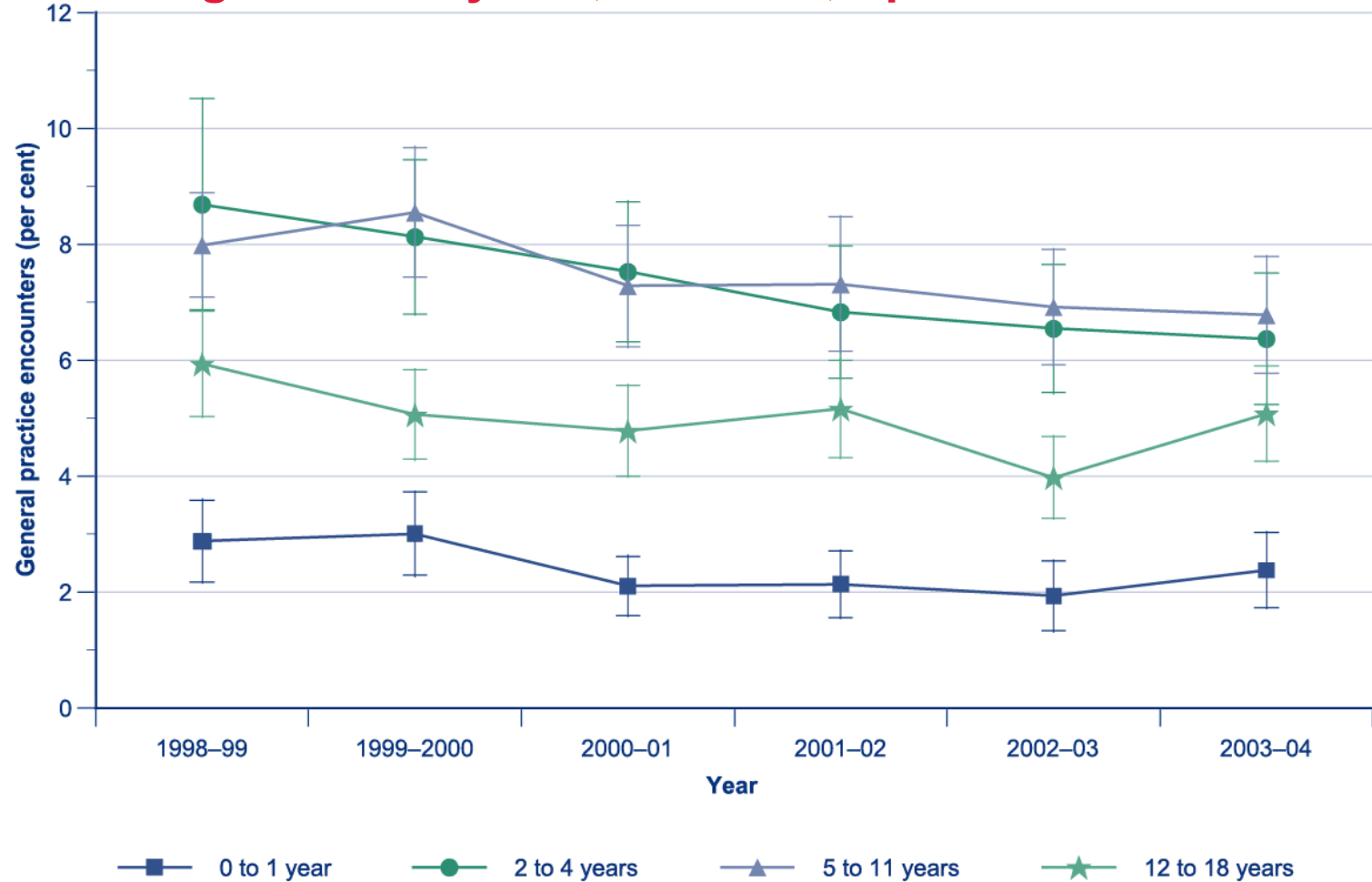
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Proportion of general practice encounters for asthma by age

children aged 0 to 18 years, Australia, April 1998 to March 2004



Source: BEACH Survey of General Practice.



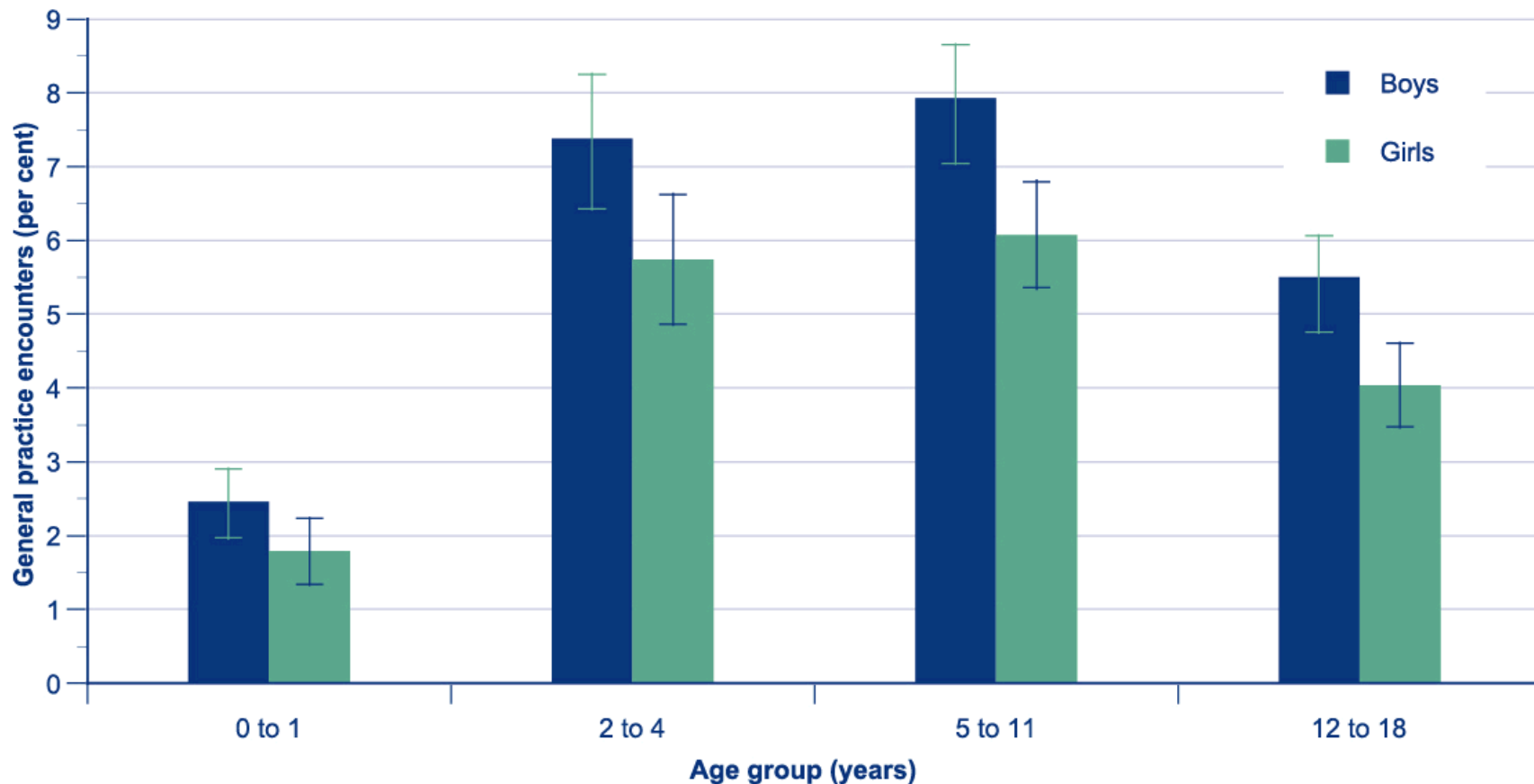
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Proportion of general practice encounters for asthma by age and sex

children aged 0 to 18 years, Australia, April 2001 to March 2004



Source: BEACH Survey of General Practice.



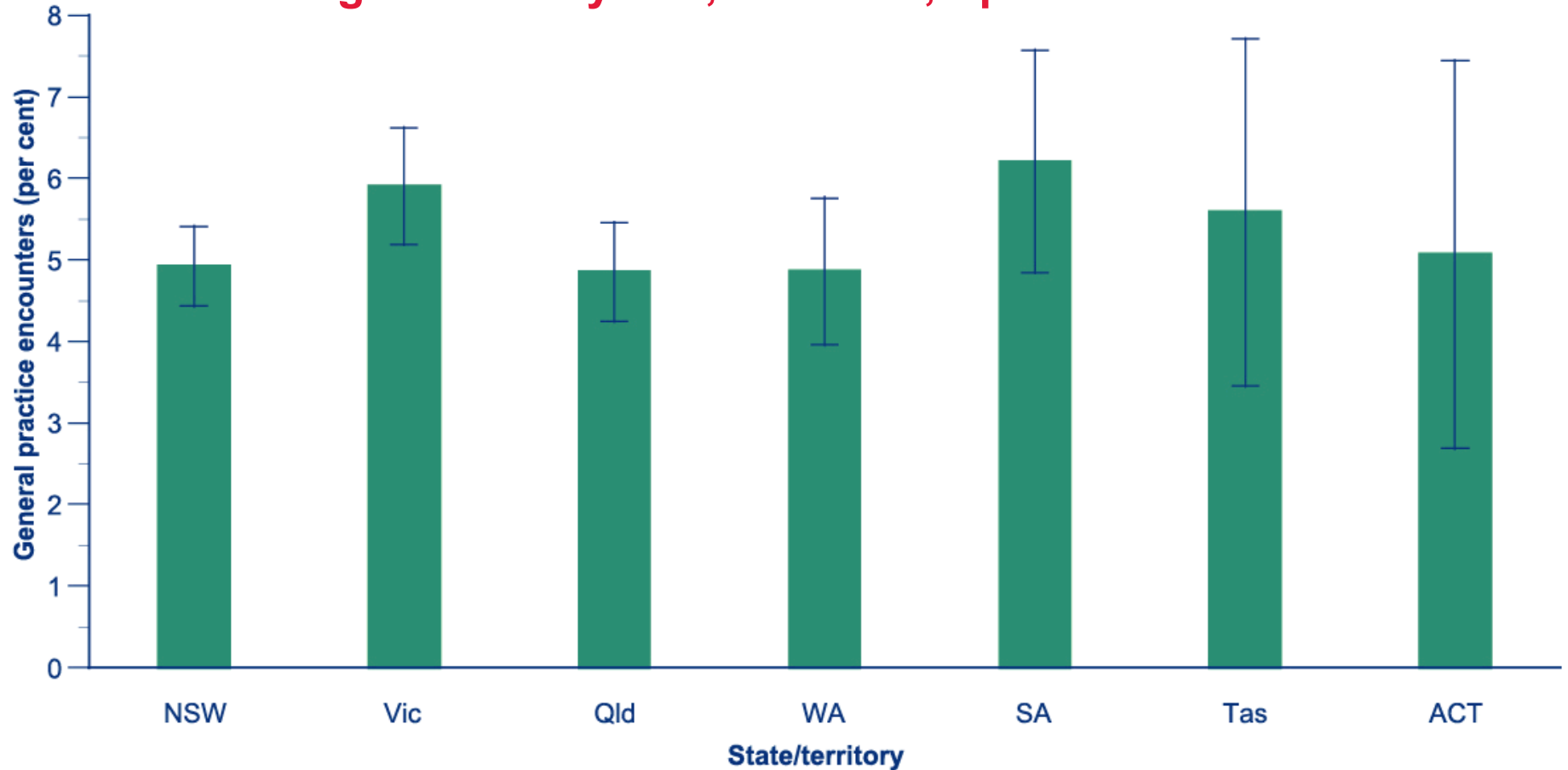
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Proportion of general practice encounters for asthma by state and territory

children aged 0 to 18 years, Australia, April 2001 to March 2004



Source: BEACH Survey of General Practice.



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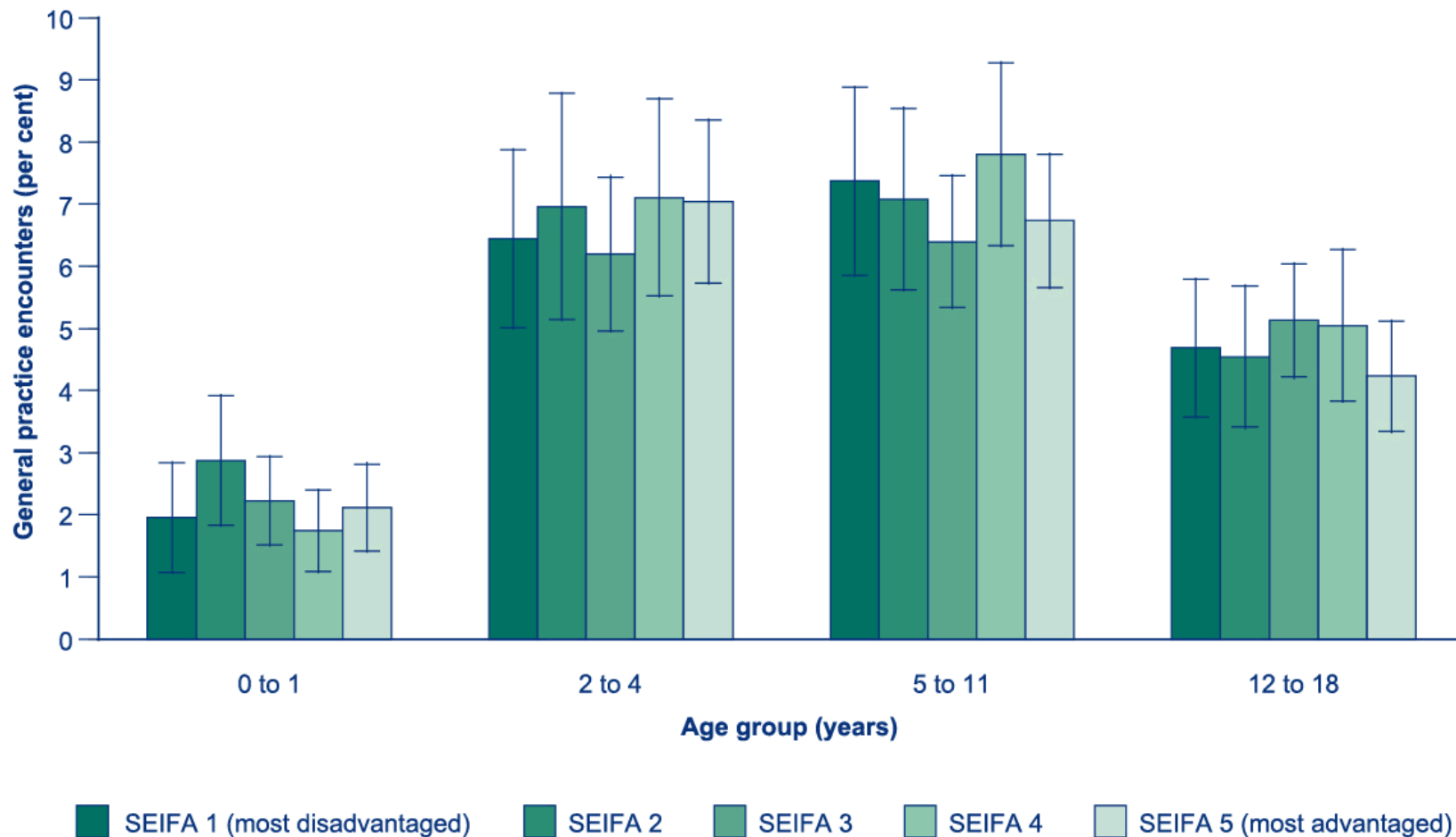
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Proportion of general practice encounters for asthma by age & socioeconomic status

children aged 0 to 18 years, Australia, April 2001 to March 2004



Source: BEACH Survey of General Practice.



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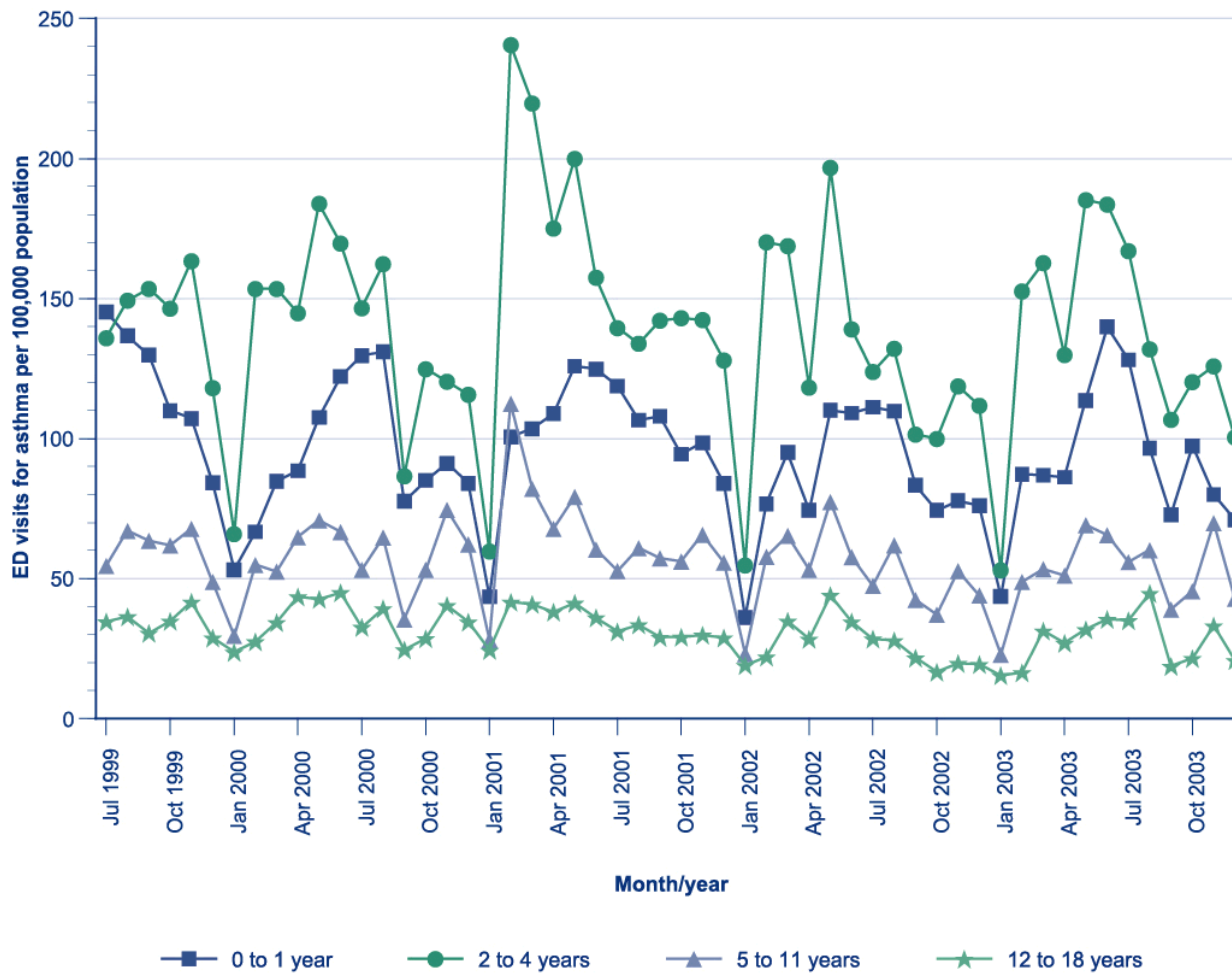
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ED visits for asthma

per 100,000 population, by month and age

children aged 0 to 18 years, NSW and Vic, Jul 1999 to Dec 2003



Sources: NSW EDDC (HOIST); VEMD; ABS.



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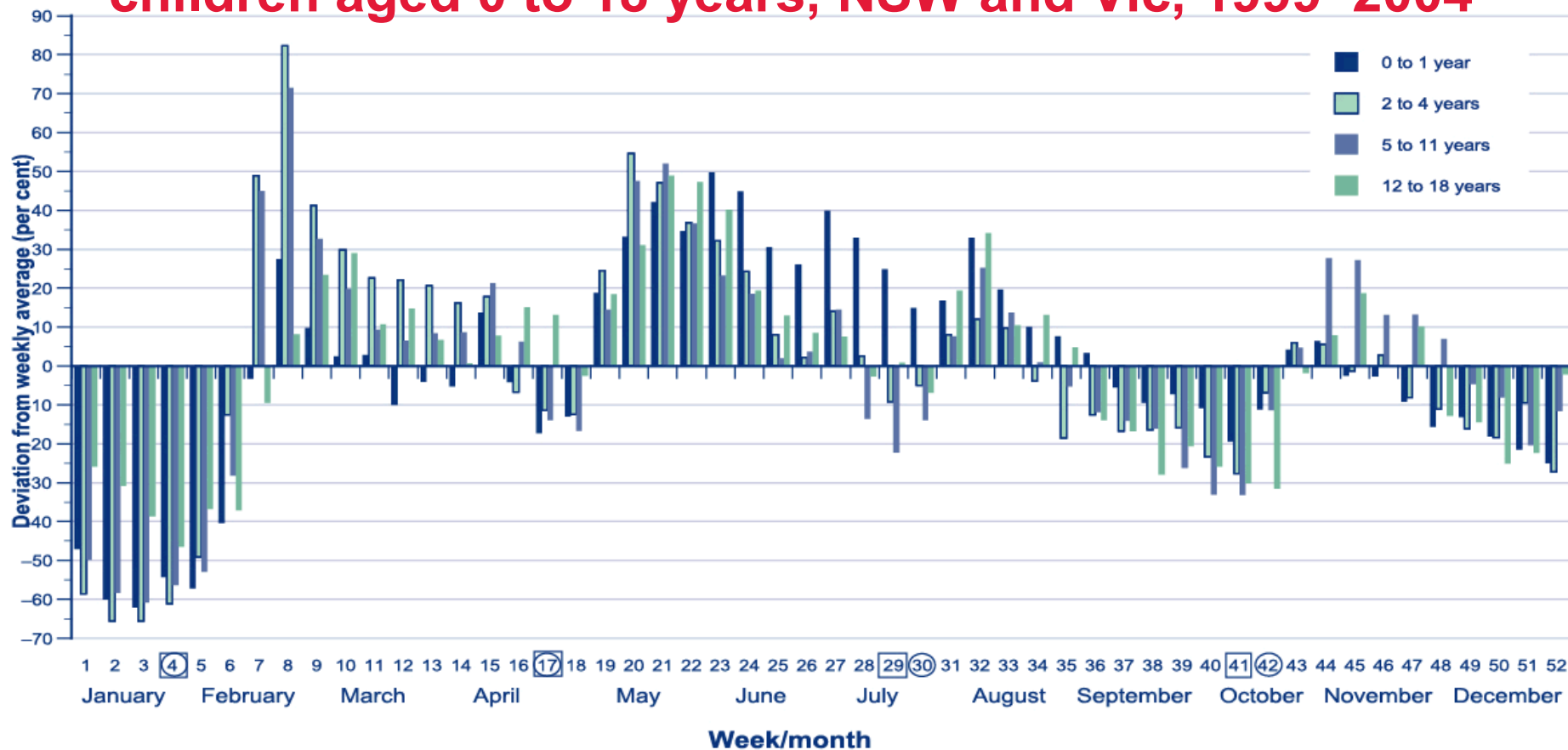
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Average weekly deviation from average number of ED visits for asthma children aged 0 to 18 years, NSW and Vic, 1999–2004



Sources: NSW EDDC (HOIST); VEMD.



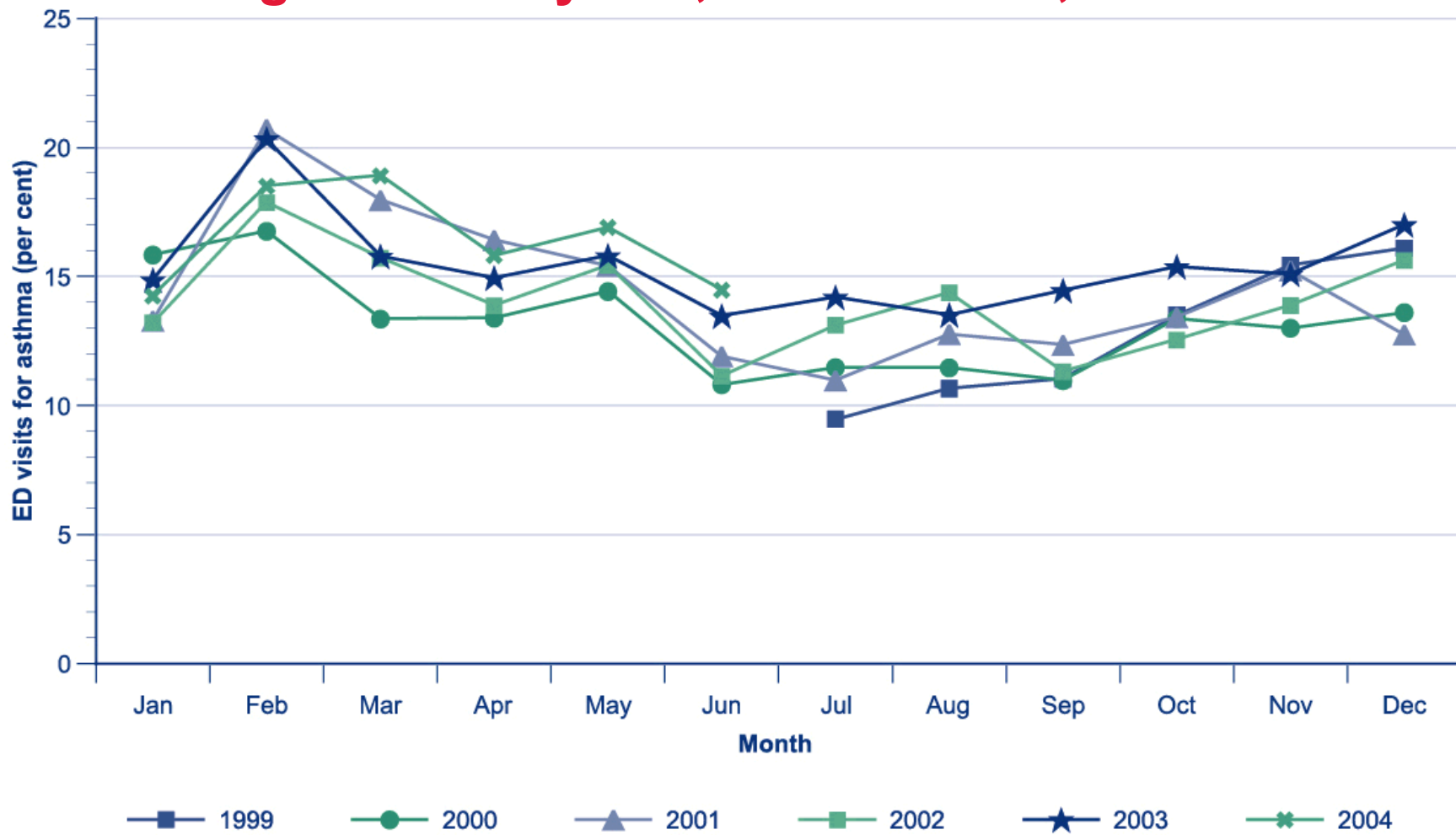
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Monthly per cent of ED visits for asthma that were for severe asthma

children aged 0 to 18 years, NSW and Vic, Jul '99 to Jun '04



Sources: NSW EDDC (HOIST); VEMD.



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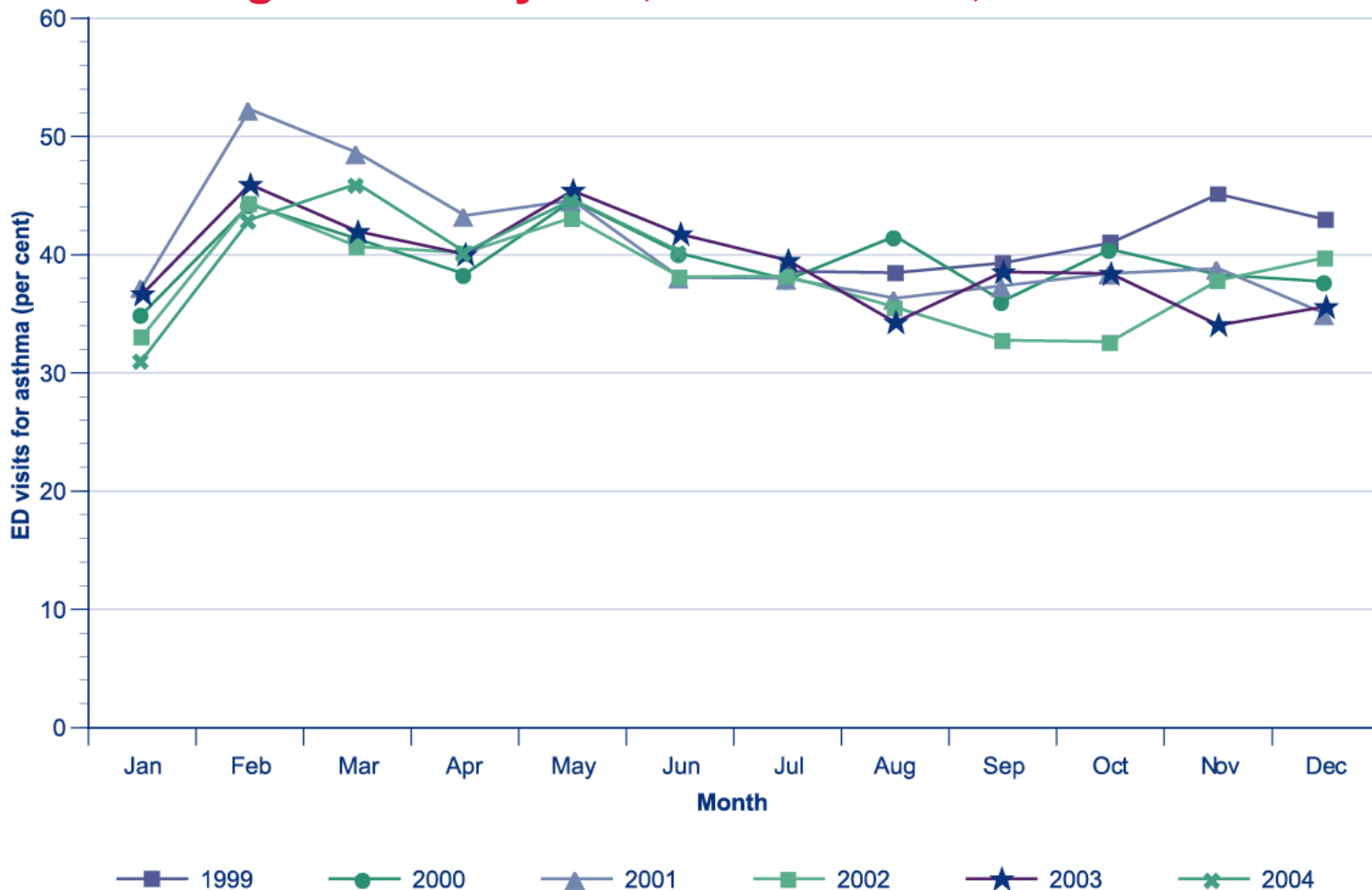
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Monthly per cent of ED visits for asthma that resulted in admission to hospital

children aged 0 to 18 years, NSW and Vic, Jul '99 to Jun '04



Sources: NSW EDDC (HOIST); VEMD.



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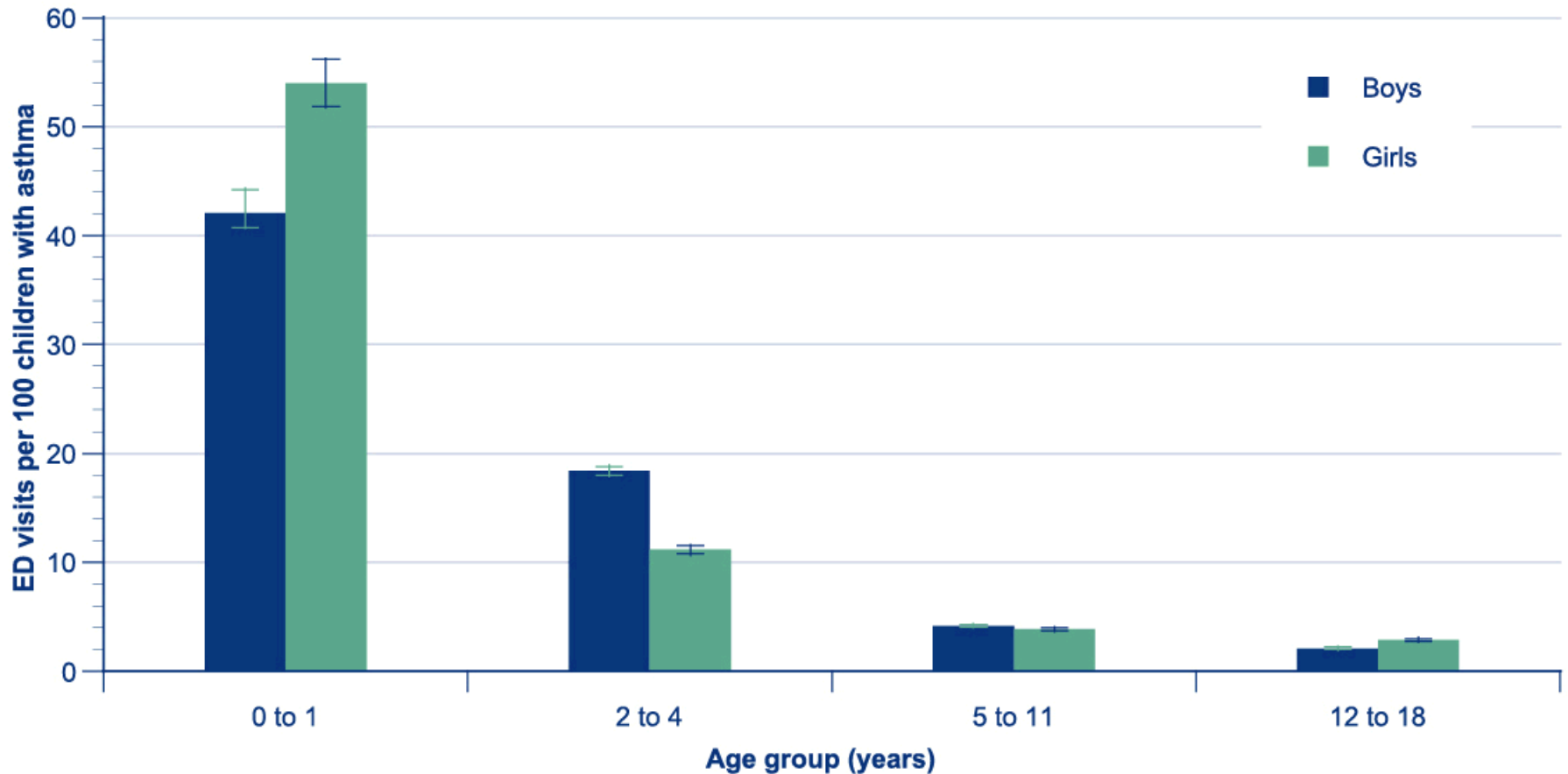
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ED visits for asthma

per 100 children with asthma by age & sex

children aged 0 to 18 years, NSW and Vic, 1999–2004



Sources: NSW EDDC (HOIST); VEMD; ABS National Health Survey 2001.



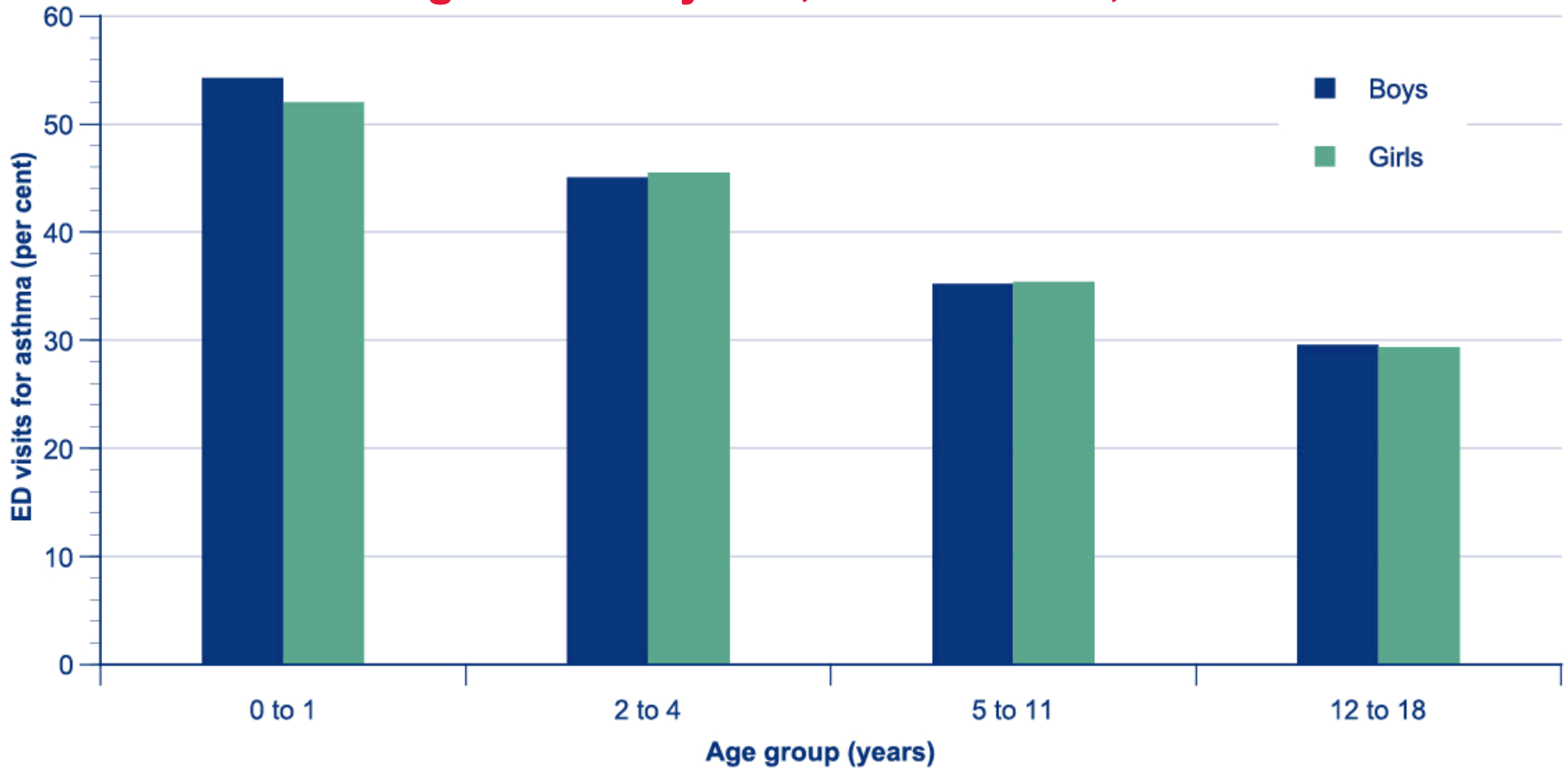
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ED visits for asthma resulting in admission to hospital by age & sex

children aged 0 to 18 years, NSW and Vic, 1999–2004



Sources: NSW EDDC (HOIST); VEMD.



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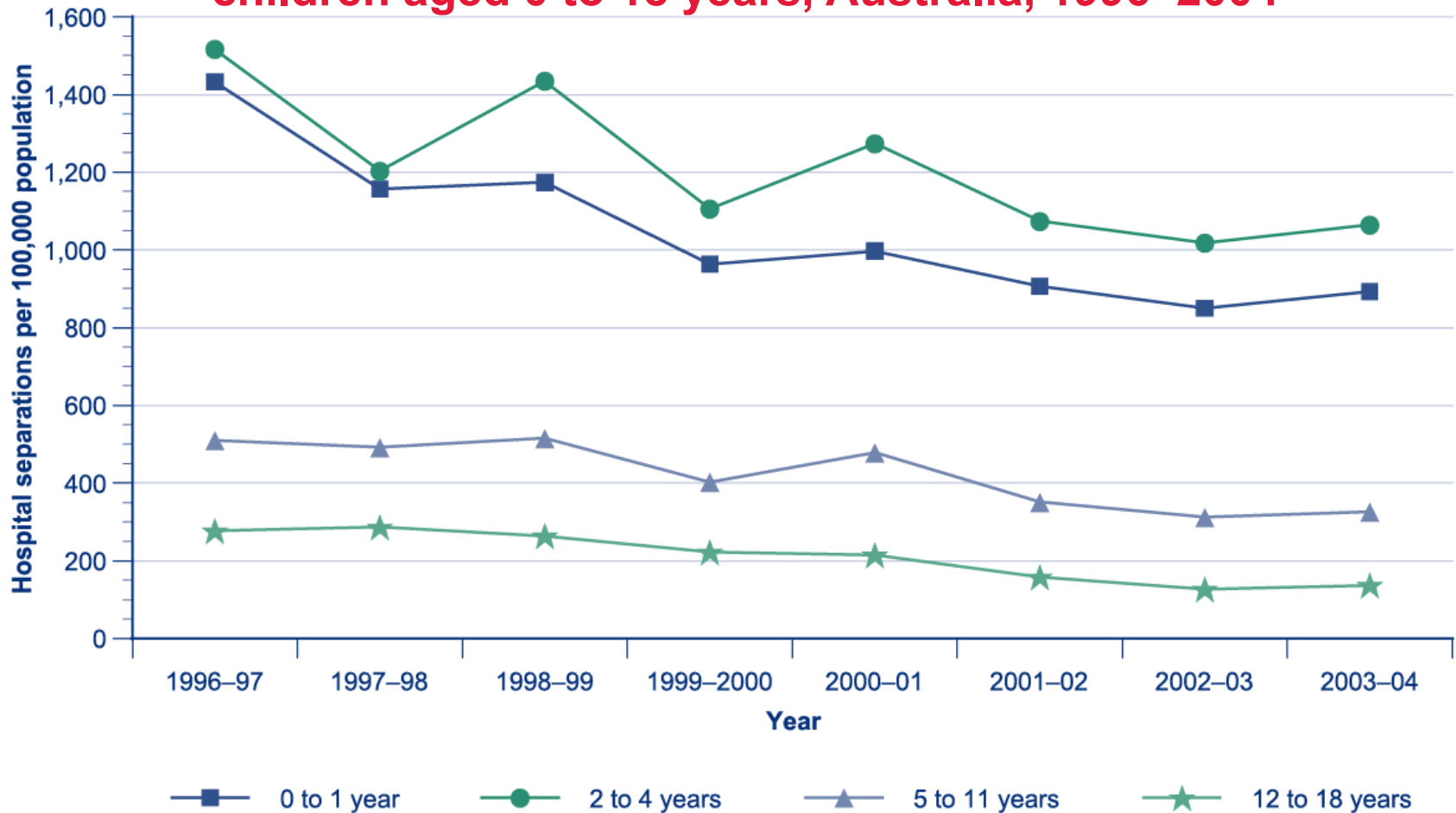
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Hospital separations for asthma per 100,000 population

children aged 0 to 18 years, Australia, 1996–2004



Sources: AIHW NHMD; ABS.

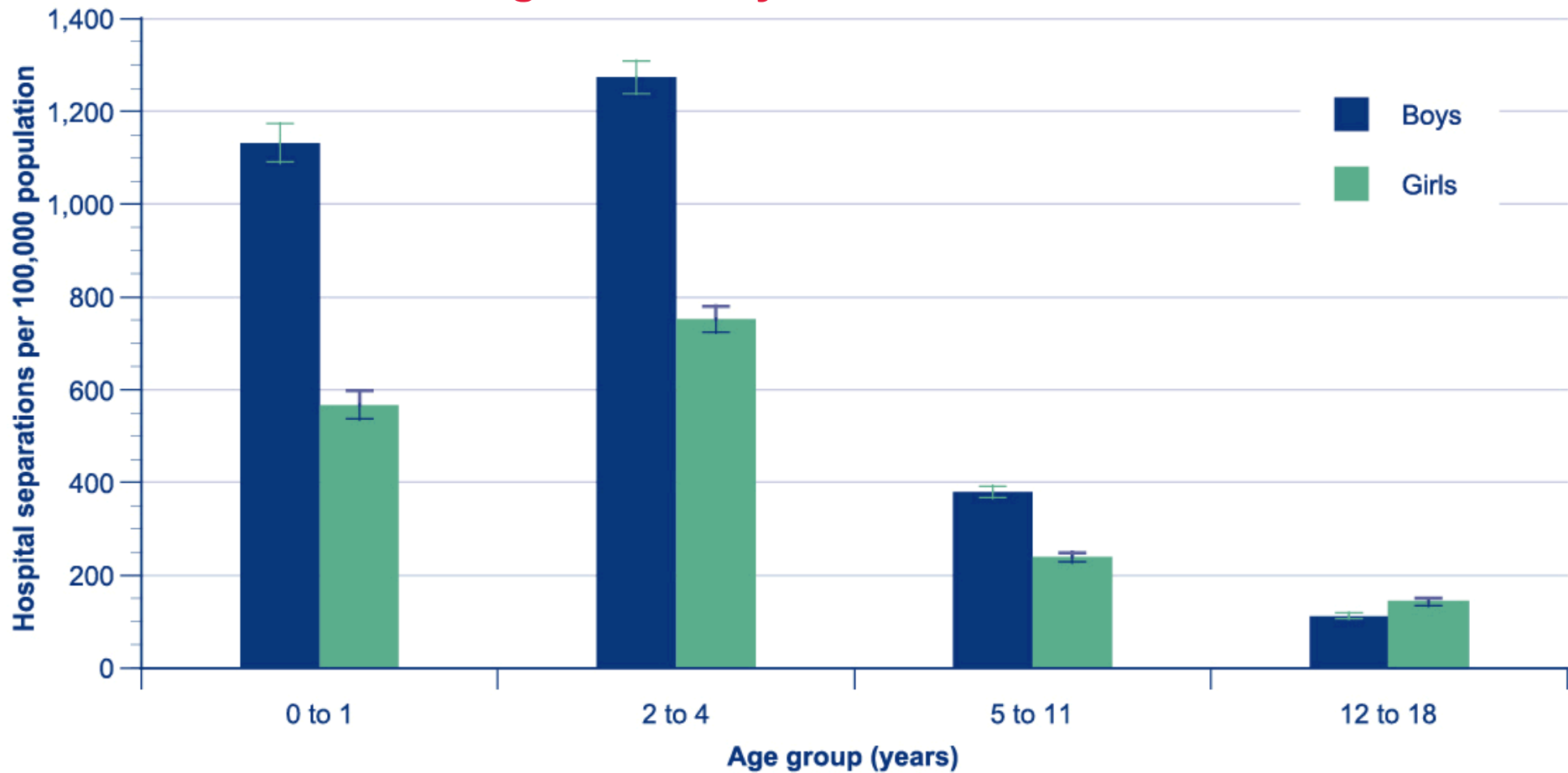


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Hospital separations for asthma per 100,000 population by age & sex children aged 0 to 18 years ,Australia, 2002–03



Sources: AIHW NHMD; ABS.



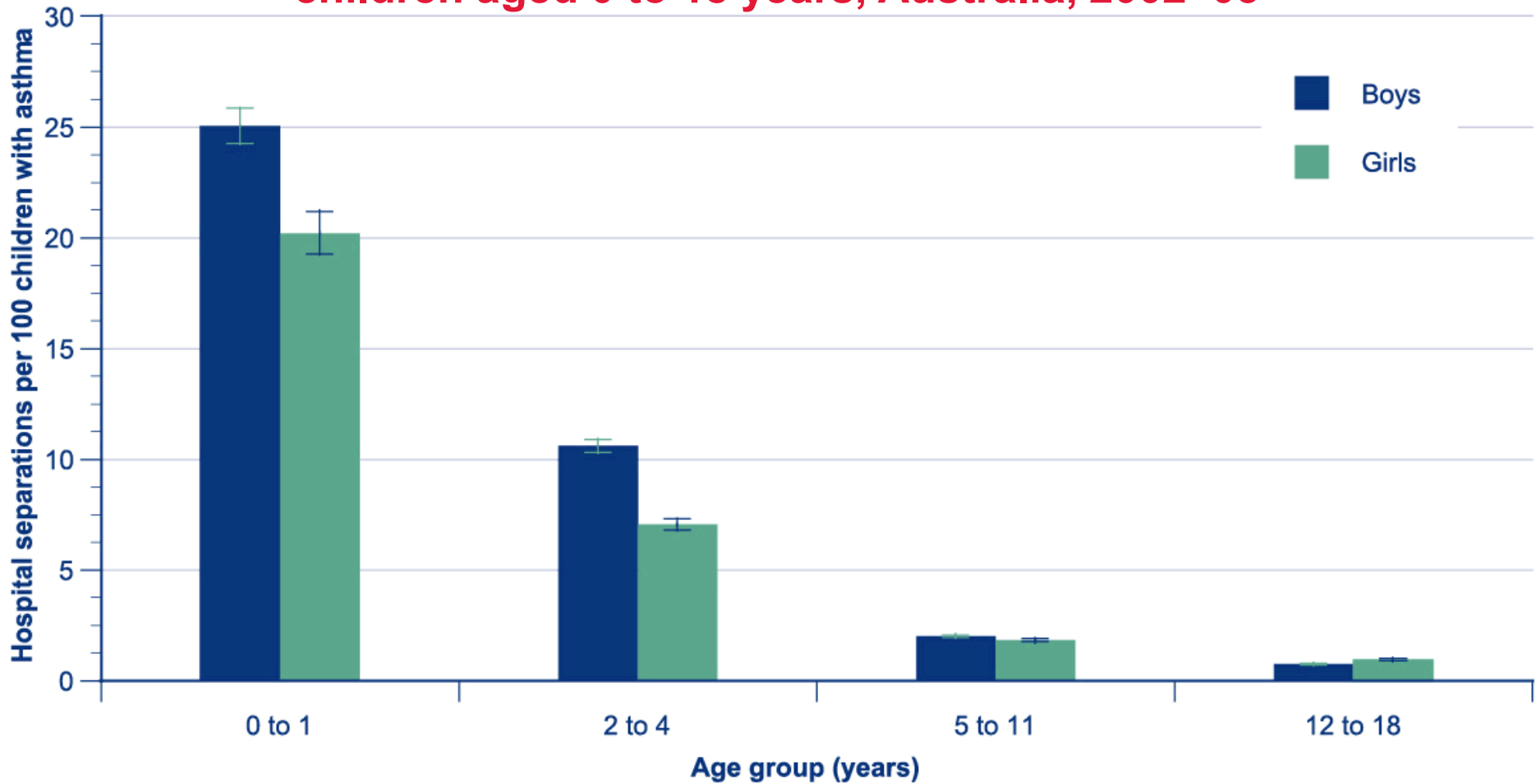
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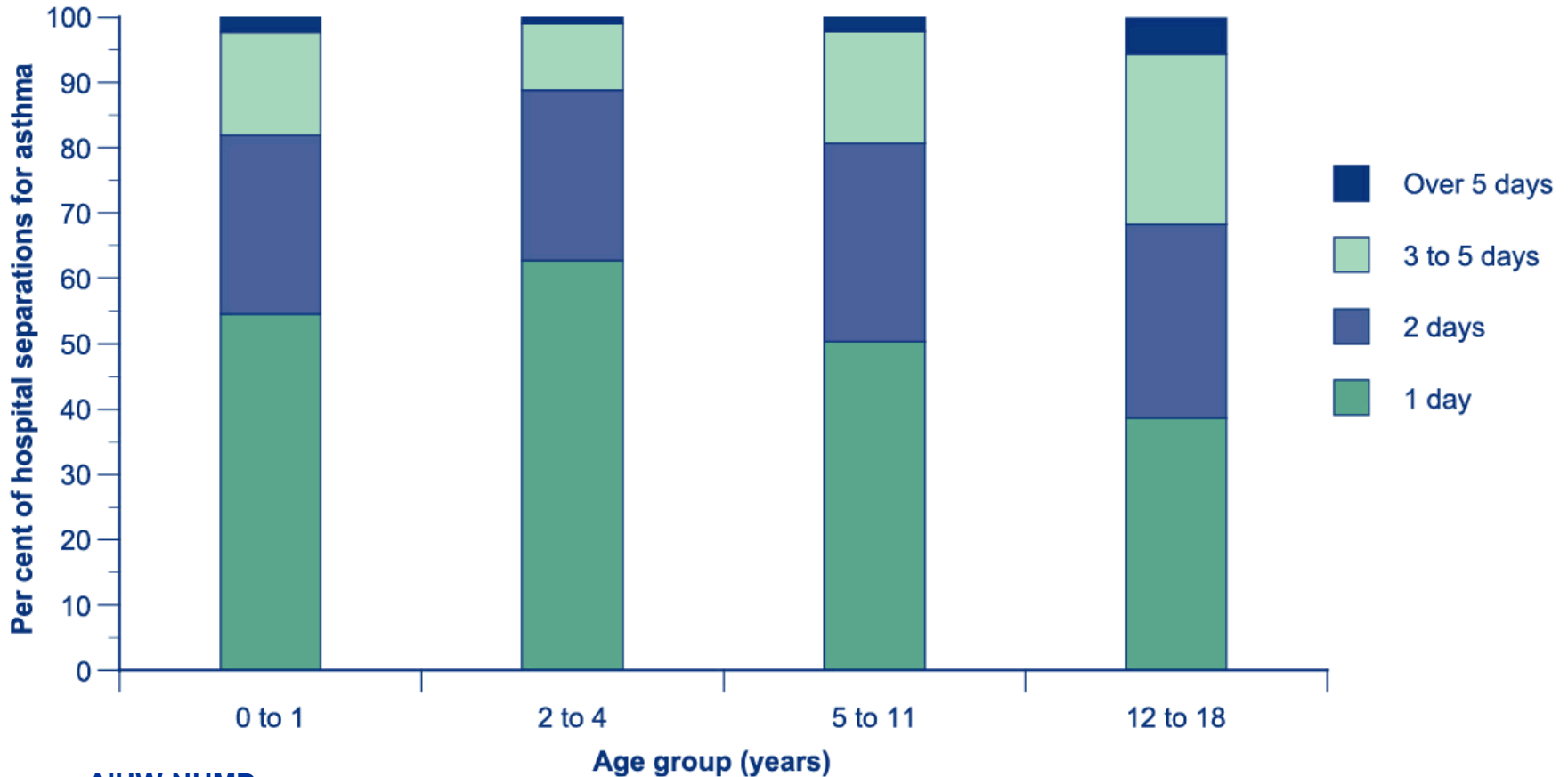
Hospital separations for asthma per 100 children with asthma by age & sex

children aged 0 to 18 years, Australia, 2002–03



Sources: AIHW NHMD; ABS National Health Survey 2001.

Relative frequency of length of stay for asthma by age children aged 0 to 18 years, Australia, 2002–03



Source: AIHW NHMD.

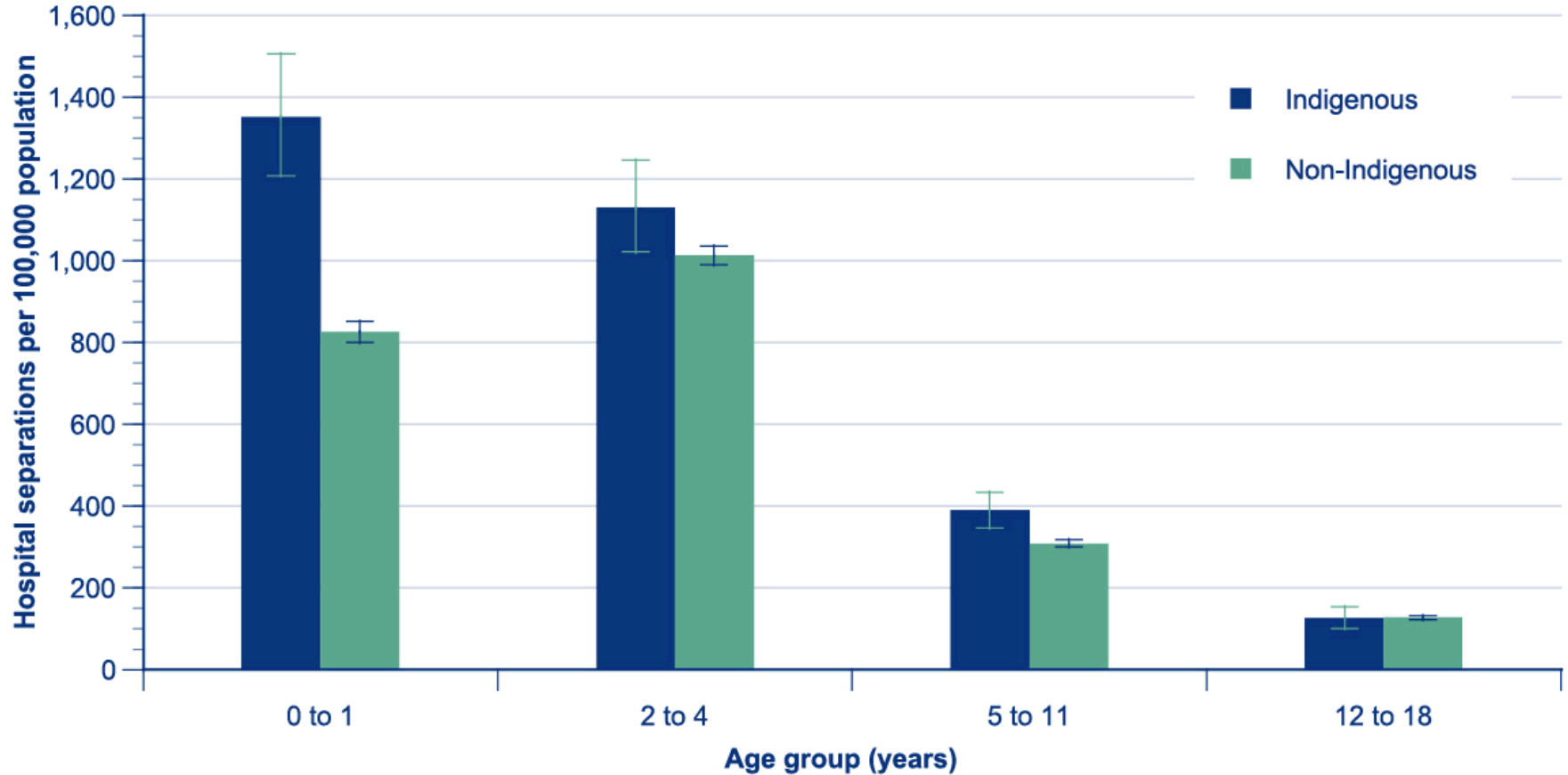


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Hospital separations for asthma per 100,000 population by Indigenous status children aged 0 to 18 years, Australia, 2002–03



Sources: AIHW NHMD; ABS.



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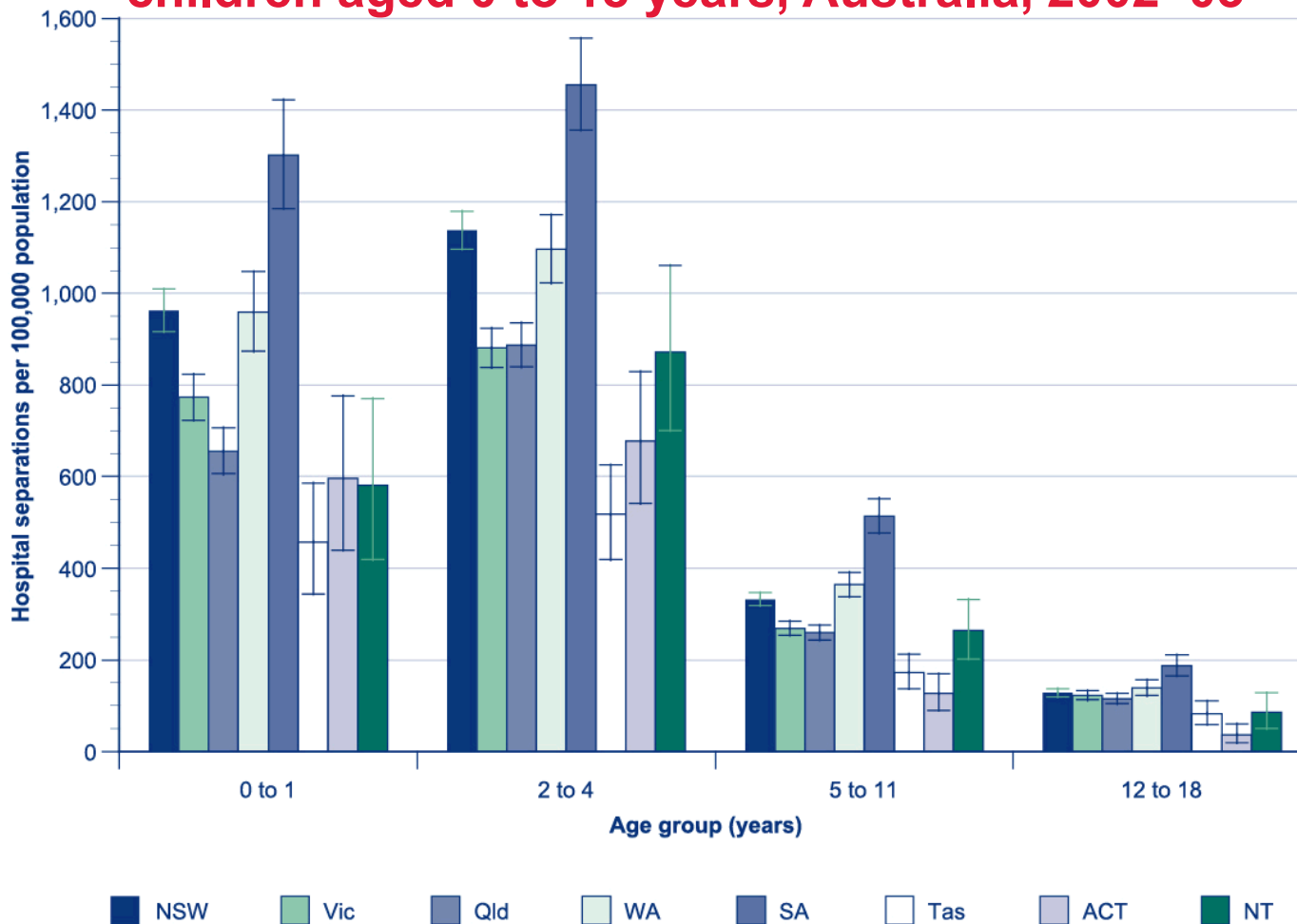
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Hospital separations for asthma per 100,000 population by age, state & territory

children aged 0 to 18 years, Australia, 2002–03



Sources: AIHW NHMD; ABS.



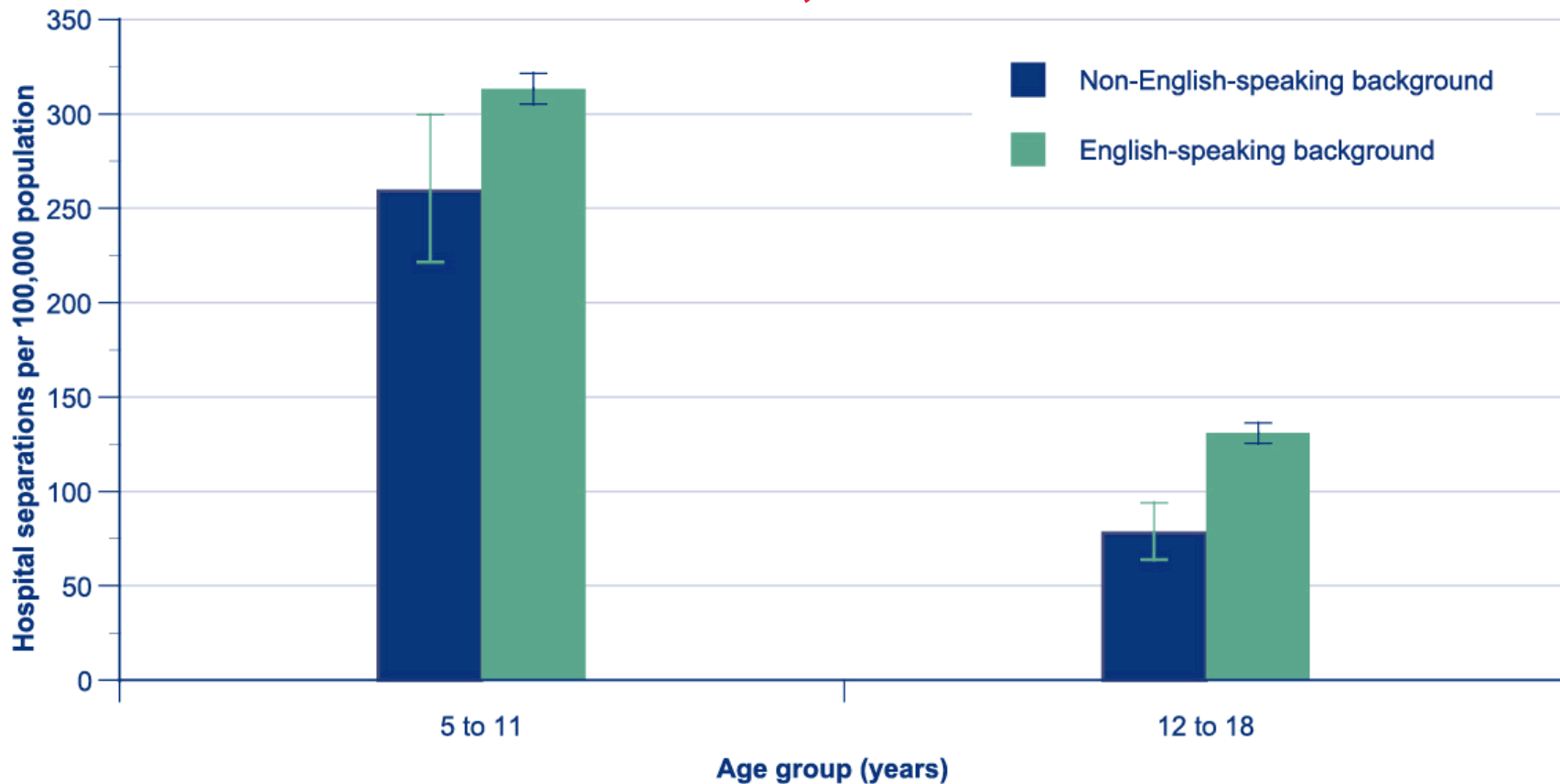
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Hospital separations for asthma by English-speaking vs non-English-speaking background

per 100,000 population, by age group, children aged 0 to 18 years, Australia, 2002–03



Sources: AIHW NHMD; ABS.



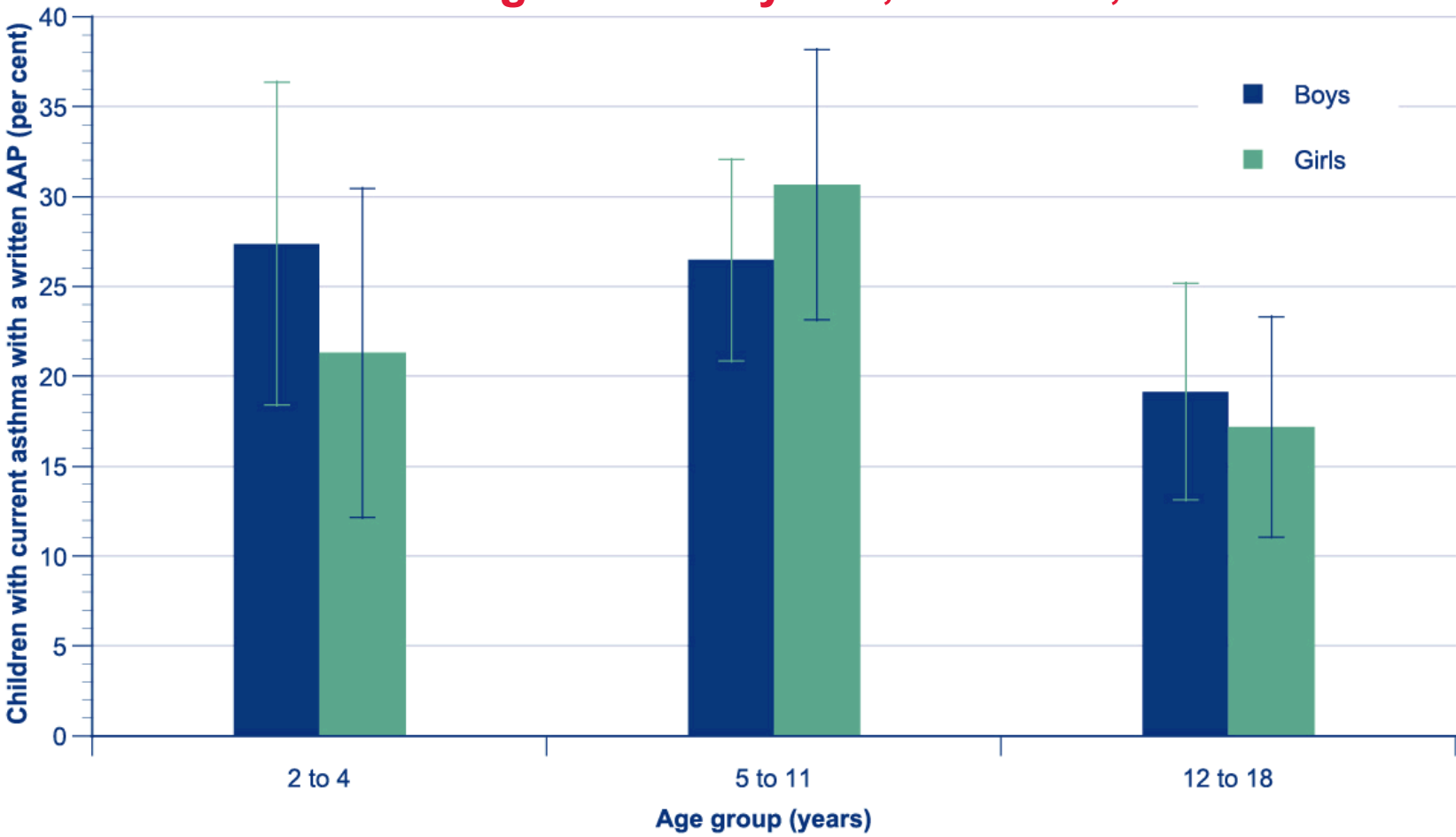
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Proportion with current asthma with a written asthma action plan (AAP) by age & sex children aged 2 to 18 years, Australia, 2001



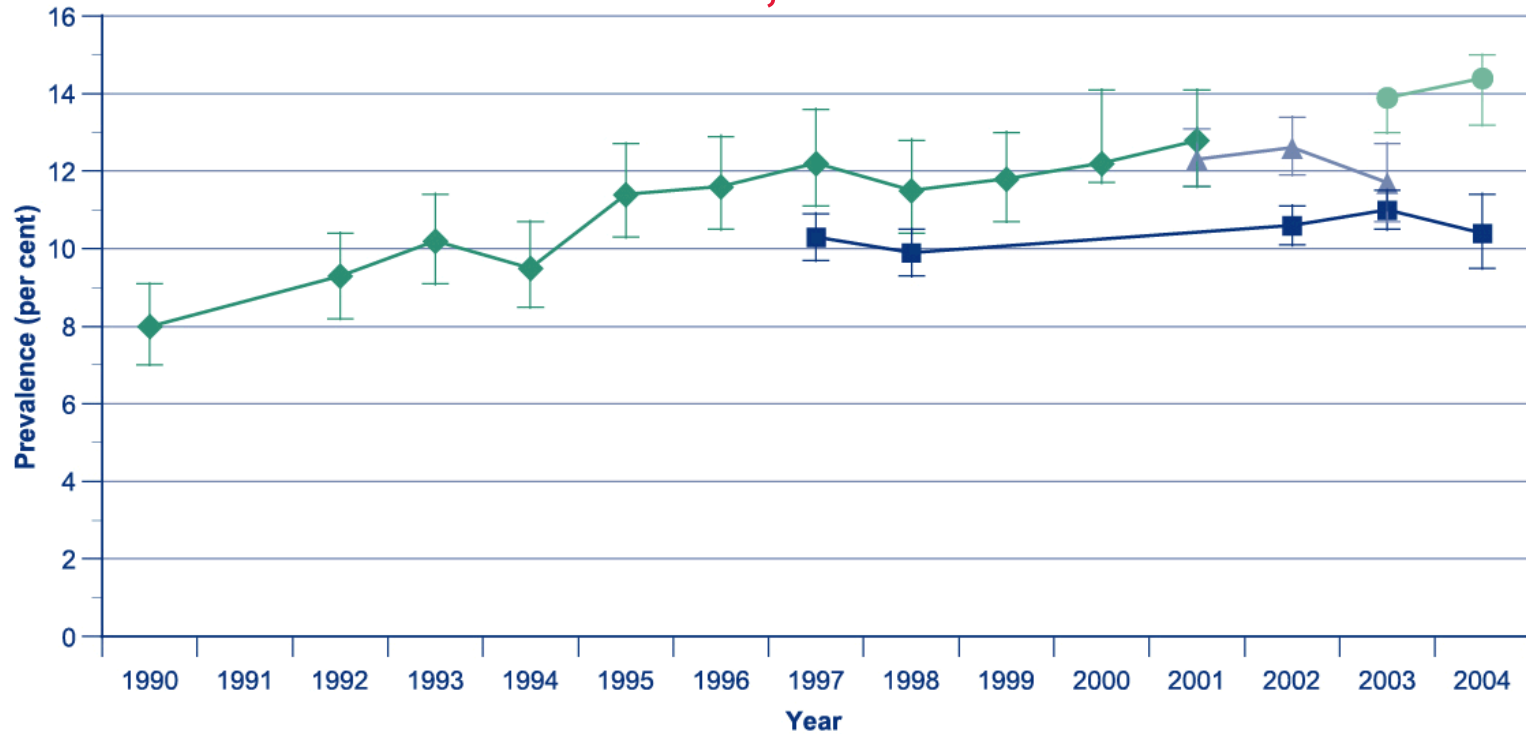
Source: ABS National Health Survey 2001.

Asthma in Australia 2005

Chapter 3 Prevalence

Prevalence of current asthma, adults

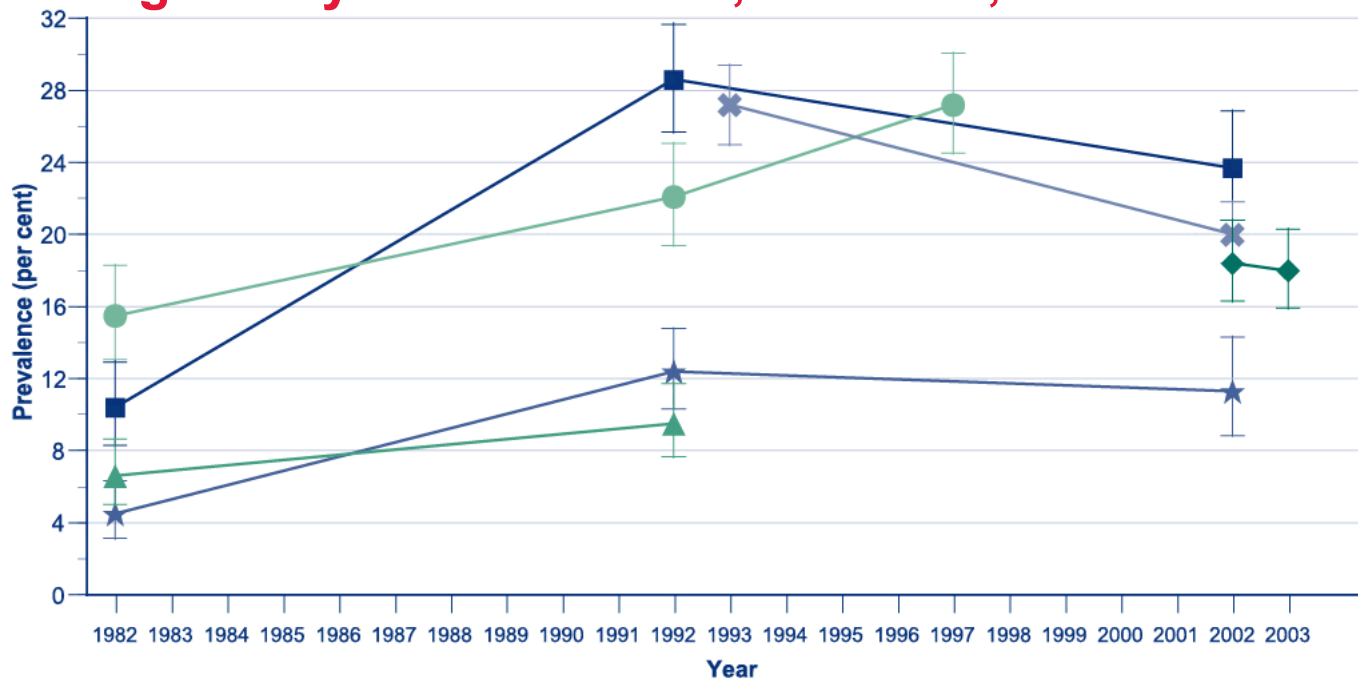
Australia, 1990–2004



- Ever diagnosed + symptoms or treatment (NSW, age 16 years and over)
- Ever diagnosed + symptoms or treatment (SA, age 16 years and over)
- ▲ Ever diagnosed + symptoms (Victoria, age 18 years and over)
- ◆ Ever diagnosed + still have asthma (SA, Omnibus age 15 years and over)



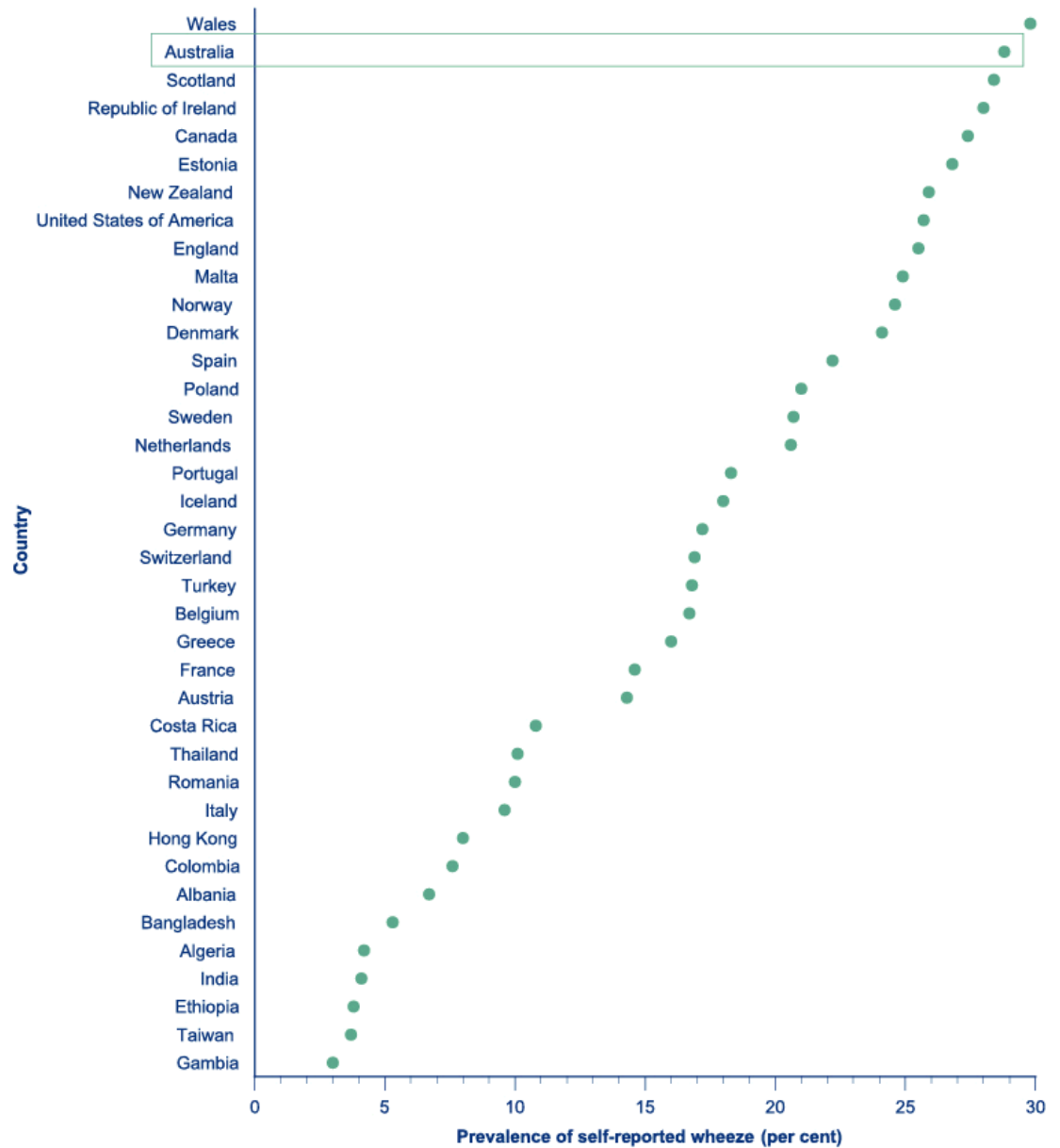
Prevalence of current asthma, children aged 15 years and under, Australia, 1982–2004



- Recent wheeze (Belmont, NSW)
- Recent wheeze (Wagga Wagga, NSW)
- ✕ Current wheeze (Melbourne, Vic)
- ◆ Ever diagnosed + symptoms or treatment (SAMMS, age 2 to 15 years)
- ★ Recent wheeze + AHR (Belmont, NSW)
- ▲ Recent wheeze + AHR (Wagga Wagga, NSW)



World ranking for the percentage of adults with self-reported wheeze in previous 12 months age 20 to 44 years



Source: GINA 2004 (reproduced with permission).



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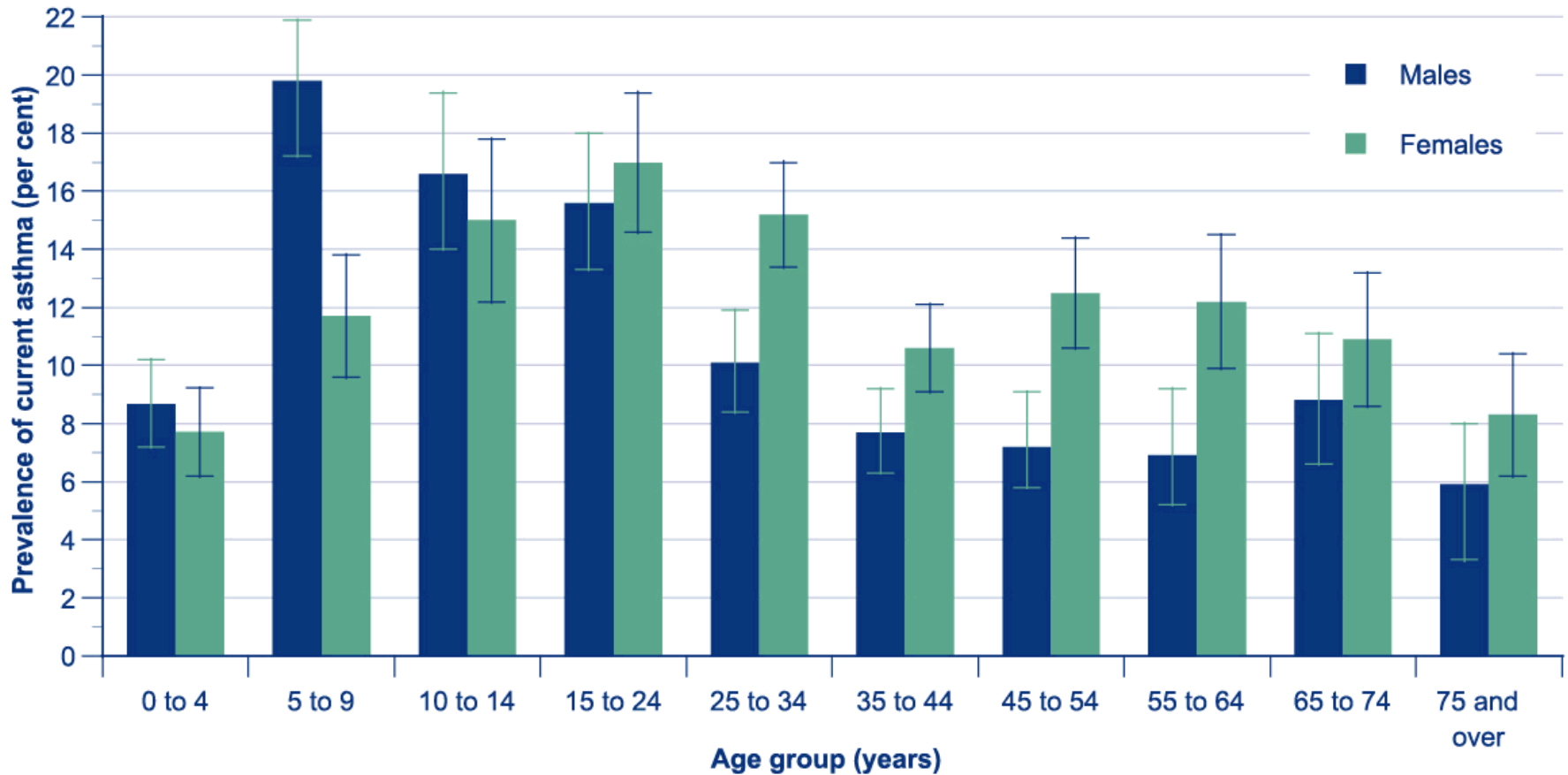
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Prevalence of current asthma by age & sex

Australia, 2001



Source: ABS National Health Survey 2001.



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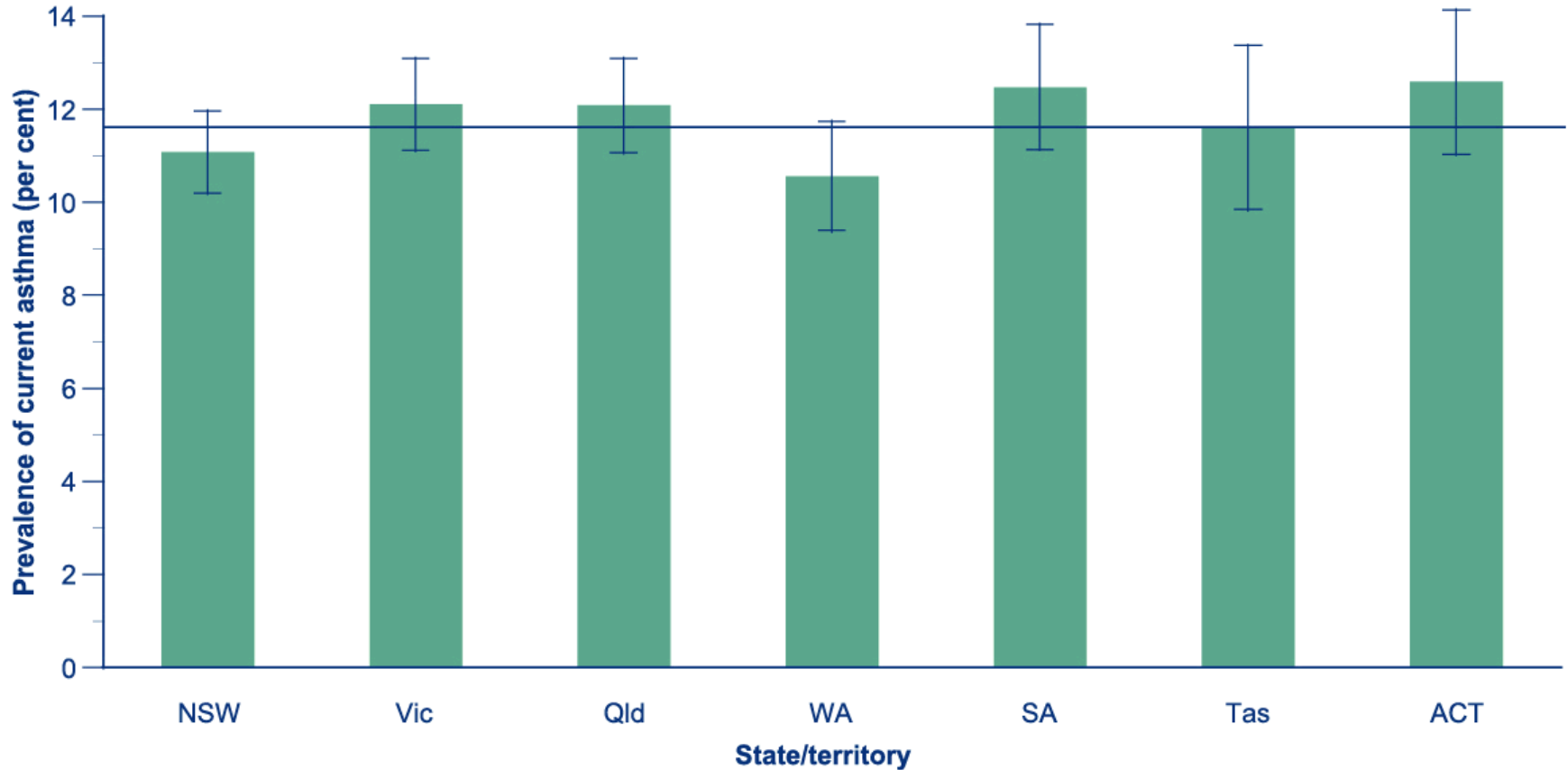
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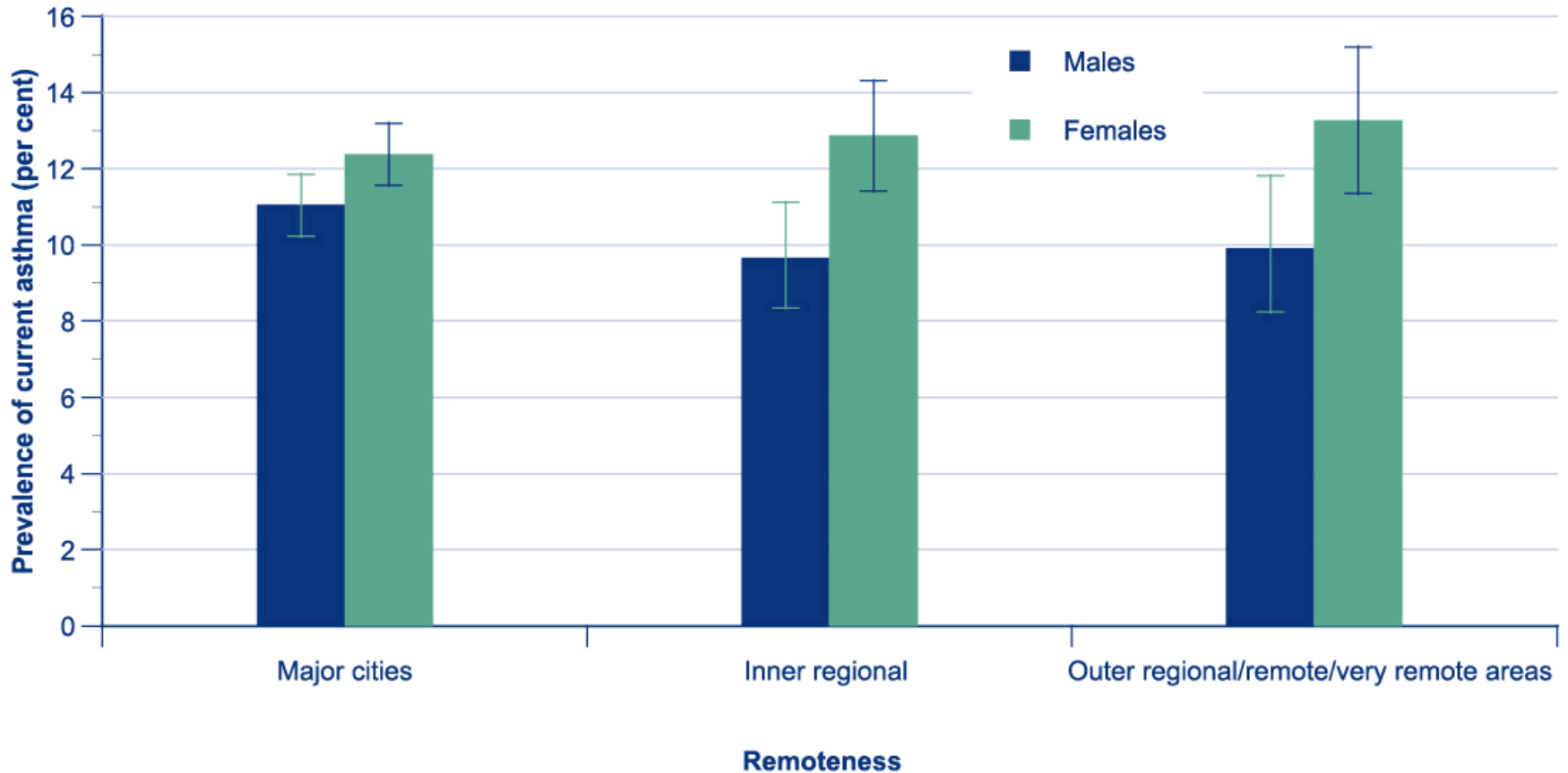
Prevalence of current asthma by state and territory

all ages, Australia, 2001



Source: ABS National Health Survey 2001.

Prevalence of current asthma by sex and remoteness Australia, 2001



Source: ABS National Health Survey 2001.



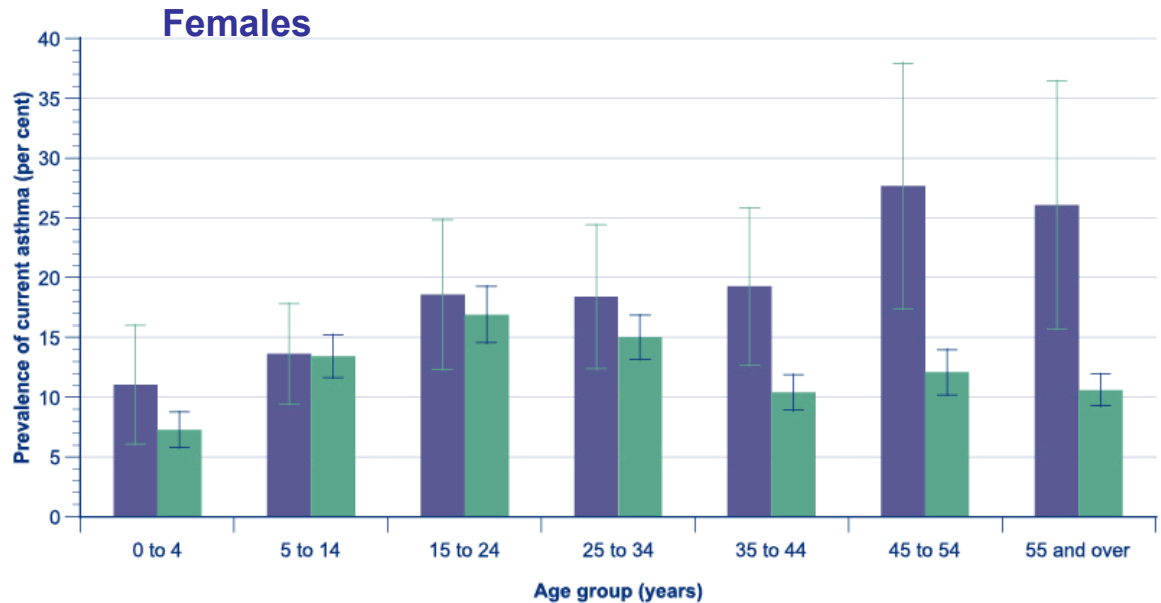
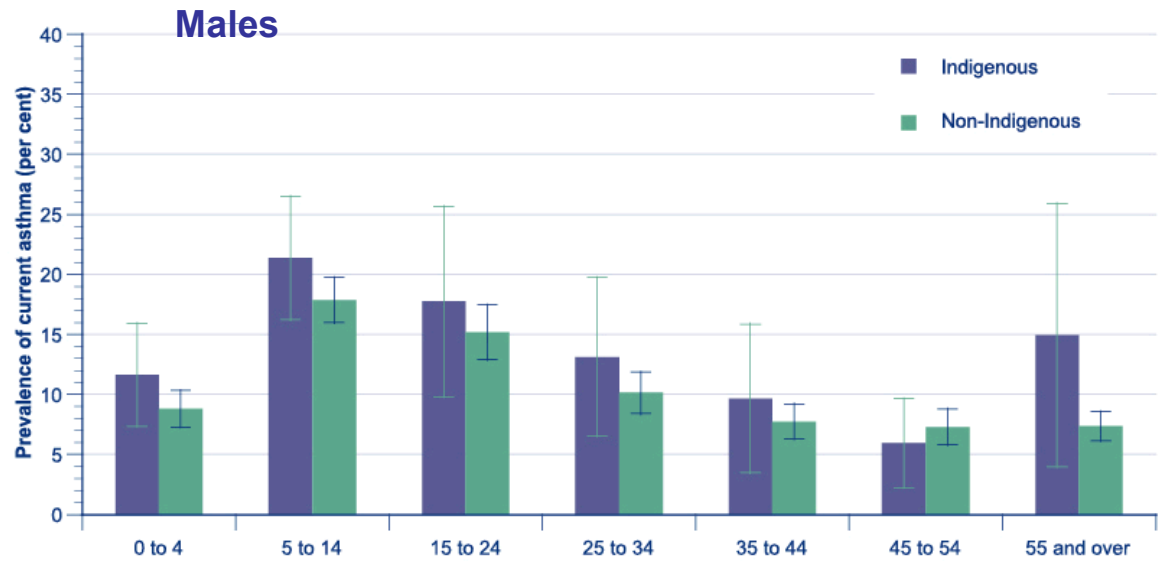
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Prevalence of current asthma by age, sex and Indigenous status Australia, 2001



Source: ABS National Health Survey 2001.



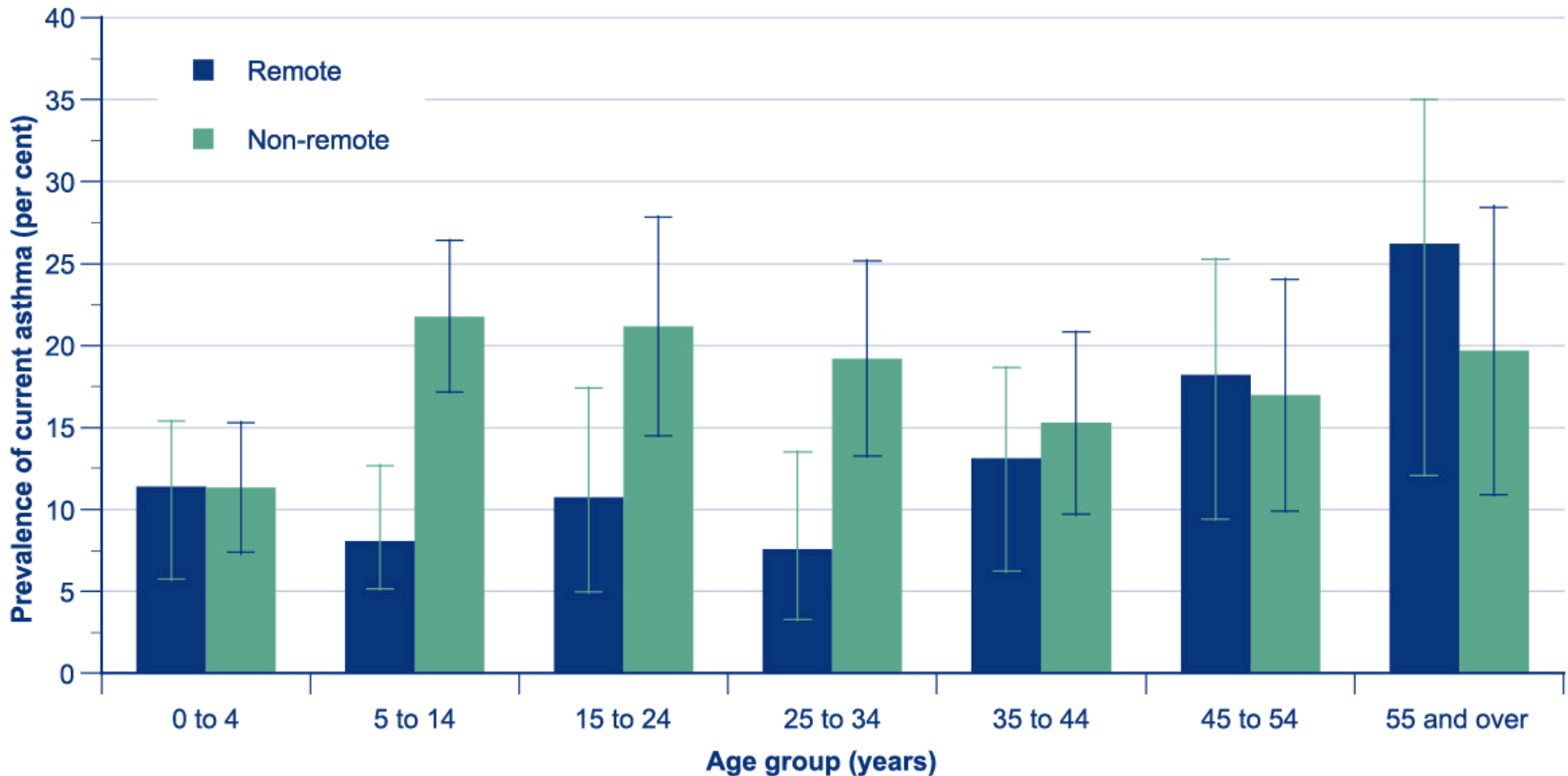
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Prevalence of current asthma among Indigenous people by age & remoteness Australia, 2001



Source: ABS Indigenous Health Survey 2001.

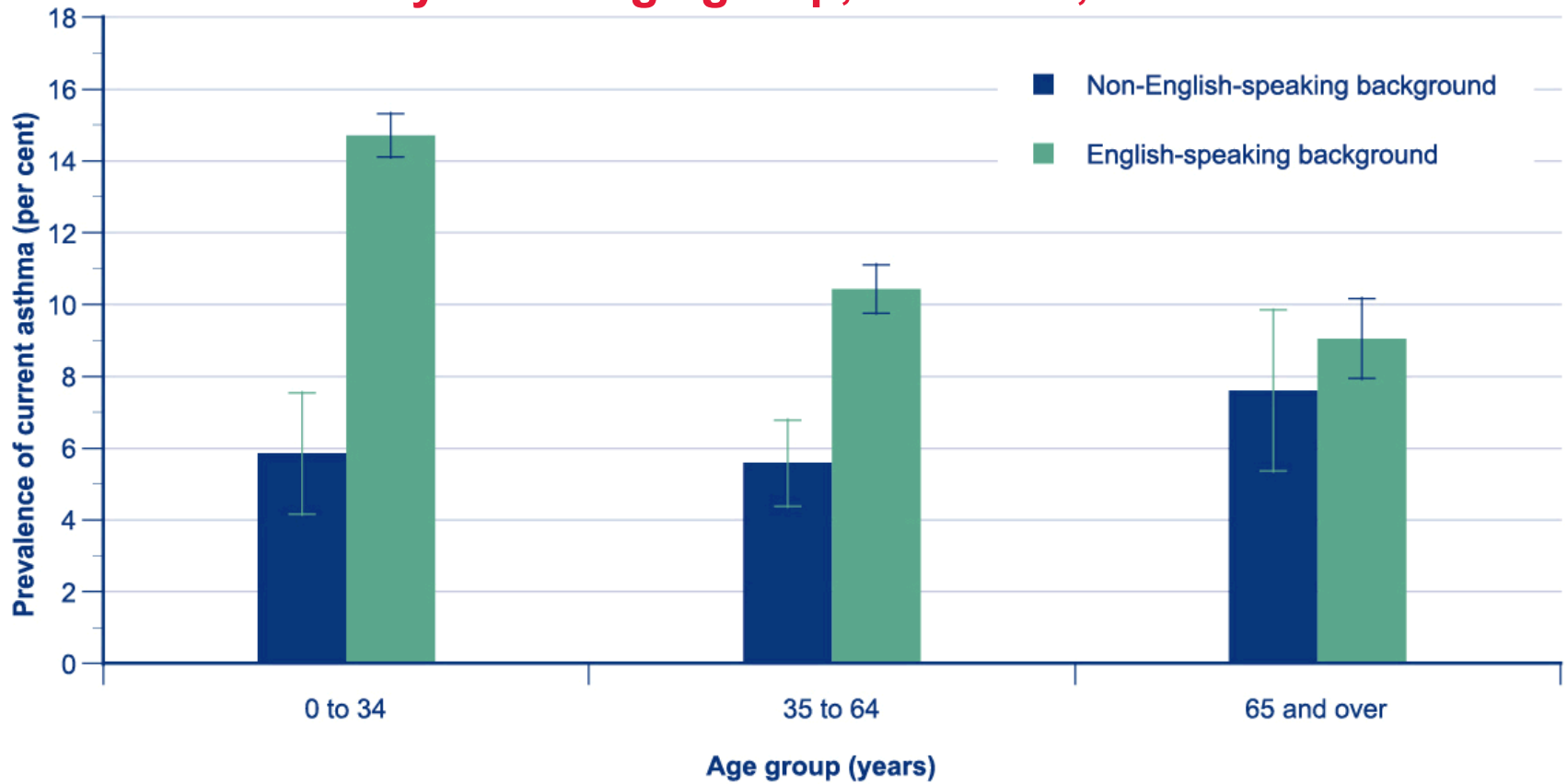


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Prevalence of current asthma by English-speaking versus non-English-speaking background by broad age group, Australia, 2001



Source: ABS National Health Survey 2001.



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Prevalence of current asthma by sex and socioeconomic status

Australia, 2001



Source: ABS National Health Survey 2001.



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Chapter 4 Mortality



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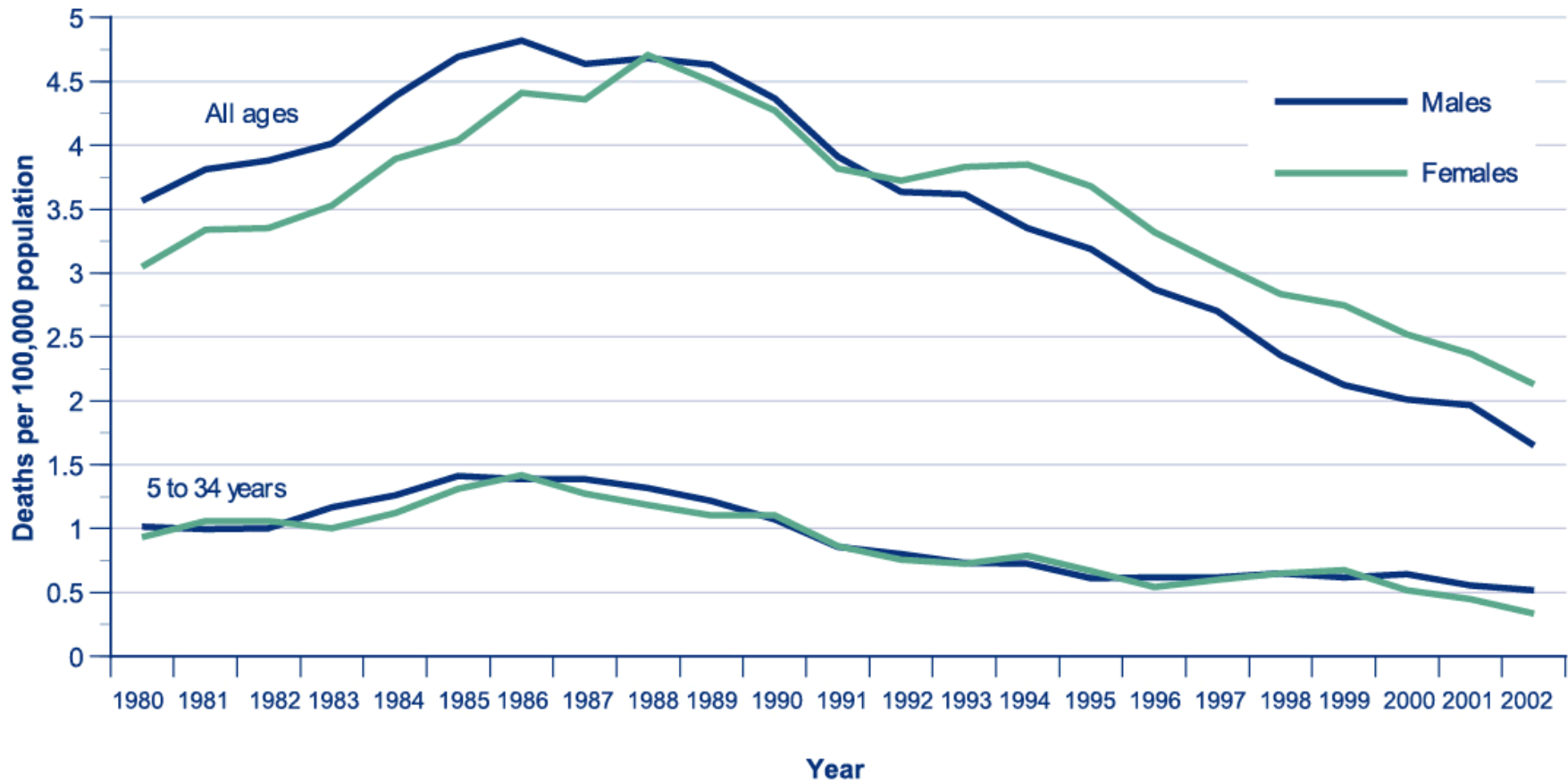
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Deaths due to asthma per 100,000 population by sex

3 year moving average, all ages & age 5 to 34 years, Australia, 1980–2002



Sources: AIHW National Mortality Database; ABS.



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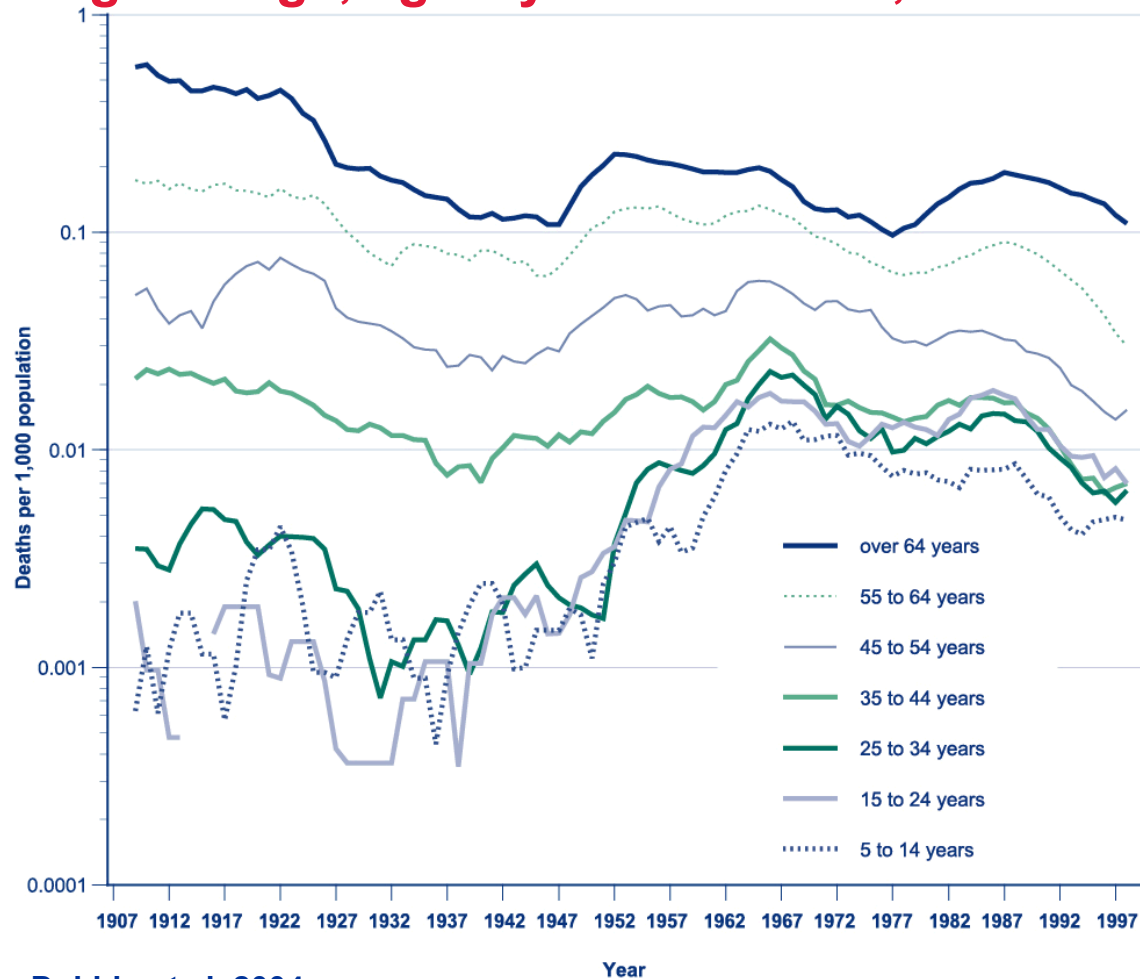
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Deaths due to asthma per 1,000 population by year of death and age

5 year moving average, age 5 years and over, Australia, 1909–1998



Males

Source: Adapted from Dobbin et al. 2004.



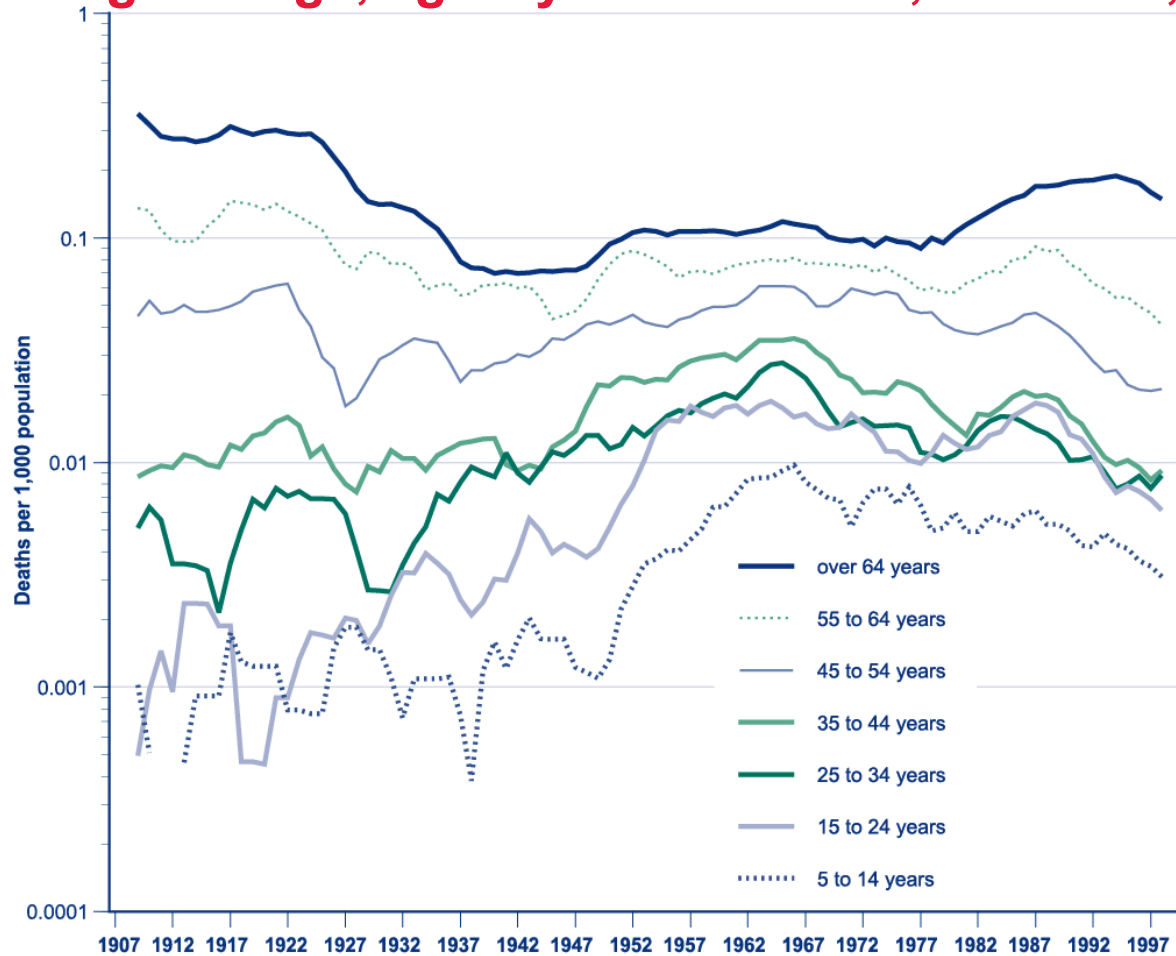
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Deaths due to asthma per 1,000 population by year of death and age

5 year moving average, age 5 years and over, Australia, 1909–1998



Females

Source: Adapted from Dobbin et al. 2004.

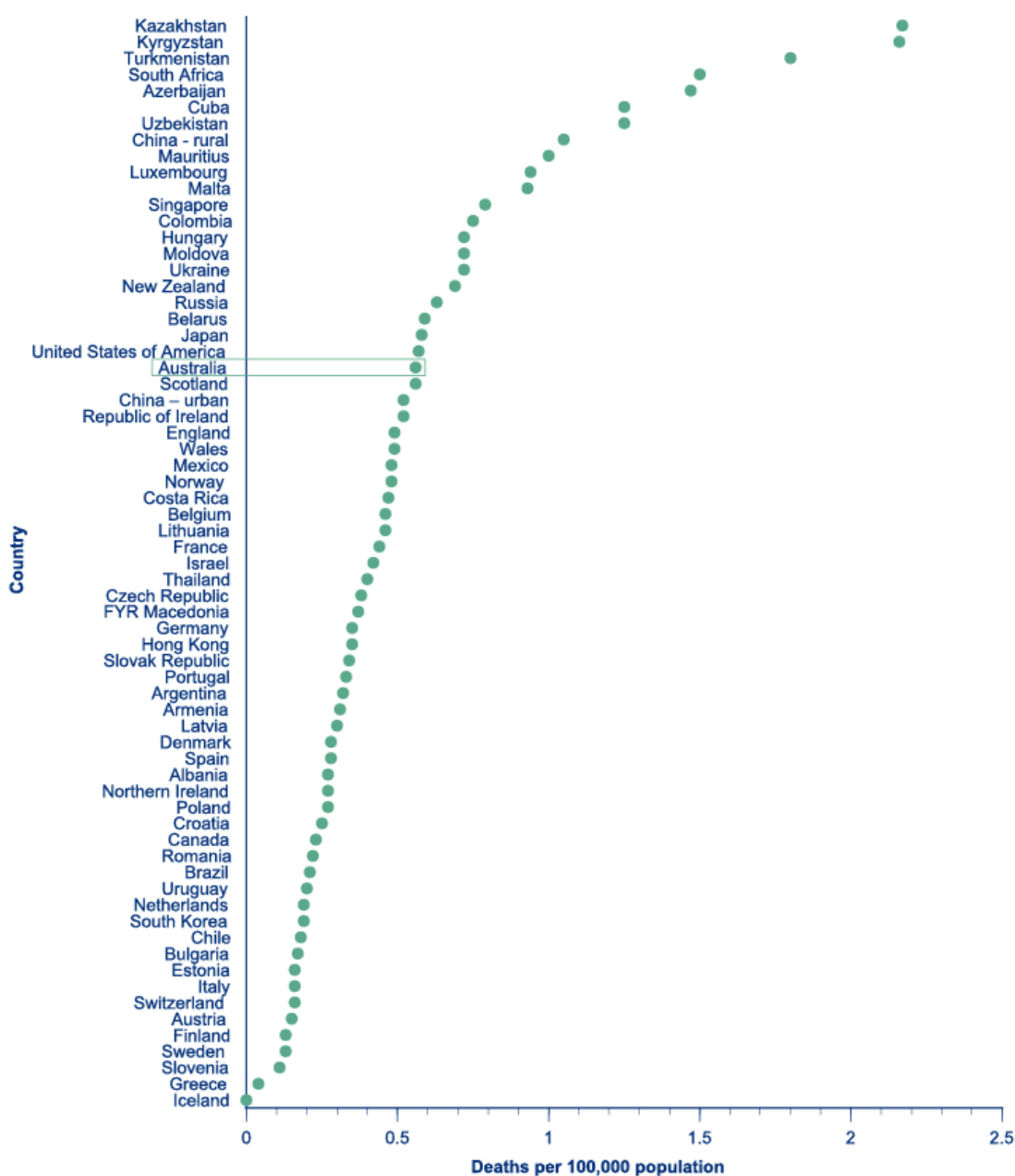


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World ranking of asthma mortality by country per 100,000 population people aged 5 to 34 years



Source: GINA 2004 (reproduced with permission).



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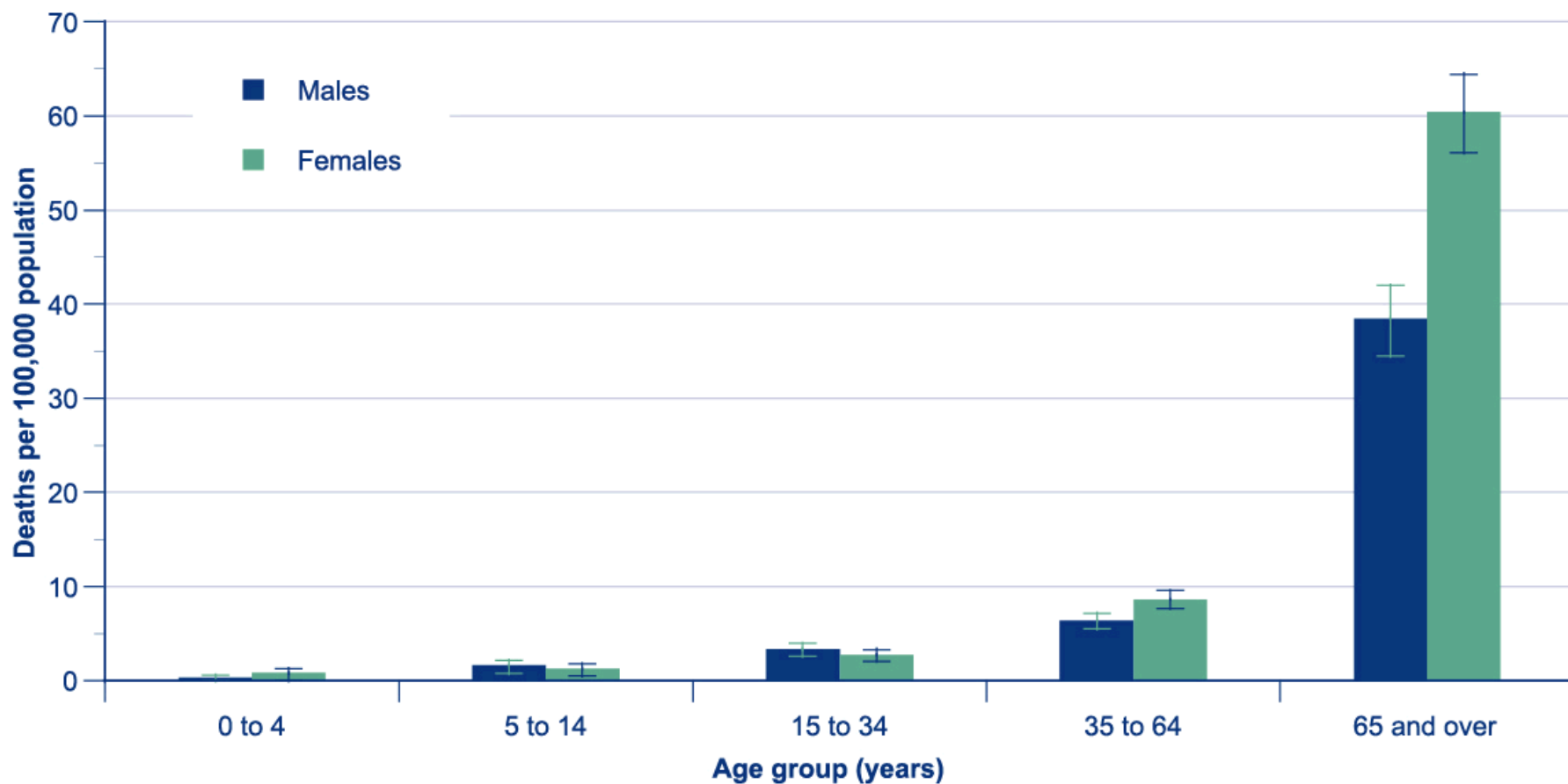
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Deaths due to asthma by age and sex per 100,000 population, Australia, 1999–2003



Sources: AIHW National Mortality Database; ABS.

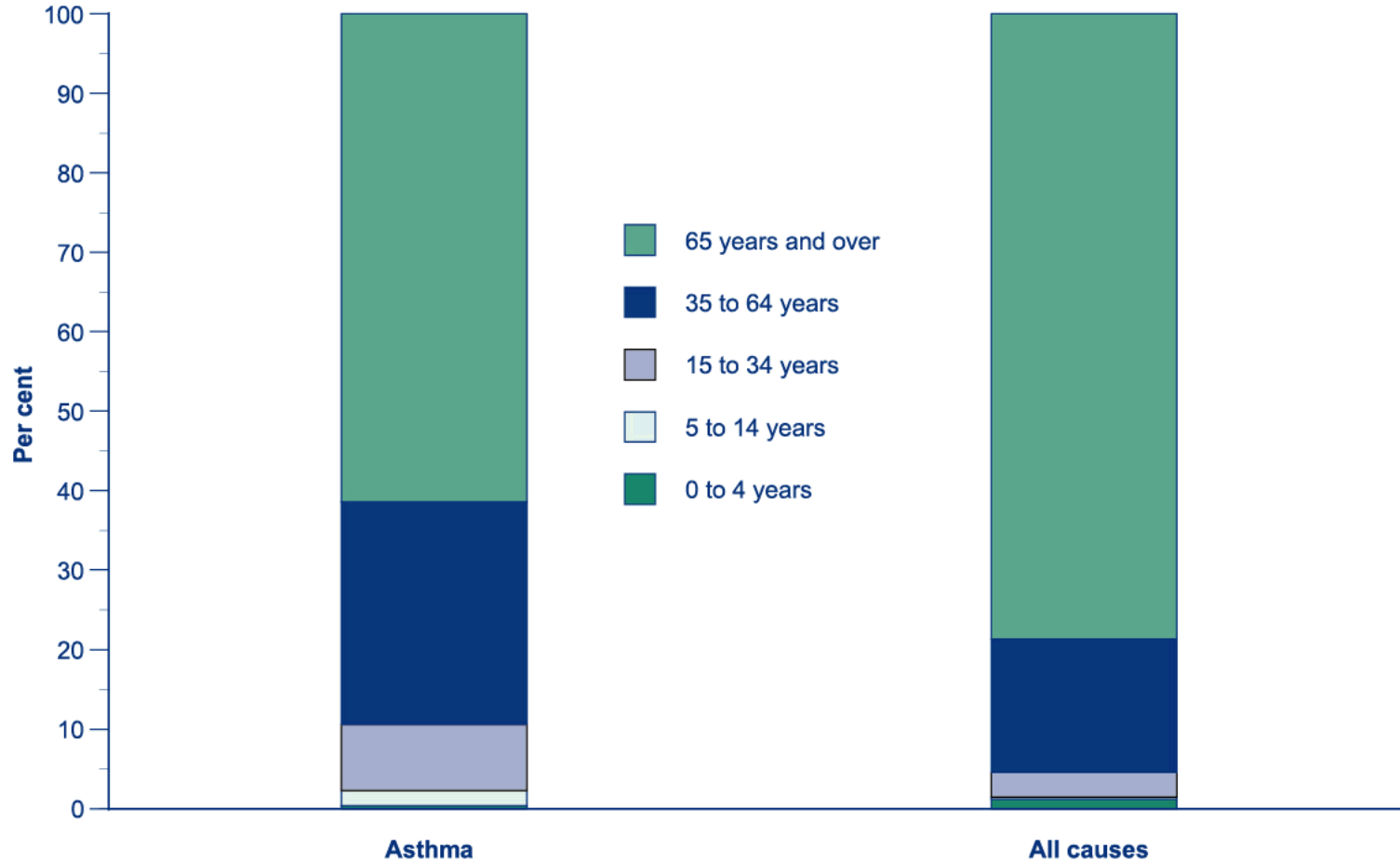


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Age distribution for asthma and all cause mortality Australia, 1999–2003



Sources: AIHW National Mortality Database; ABS.



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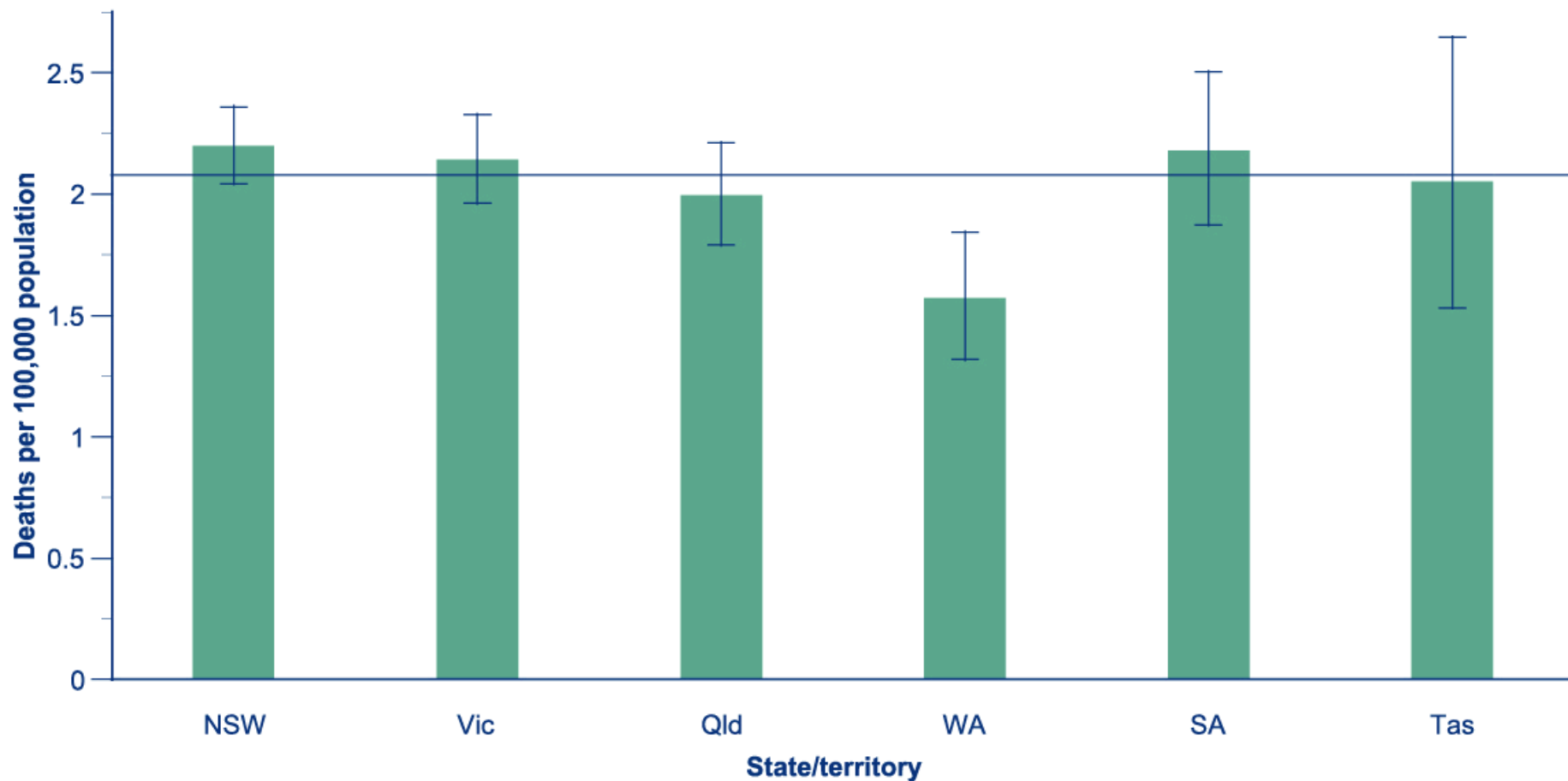
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Deaths due to asthma by state and territory

per 100,000 population, Australia, 1999–2003



Sources: AIHW National Mortality Database; ABS.

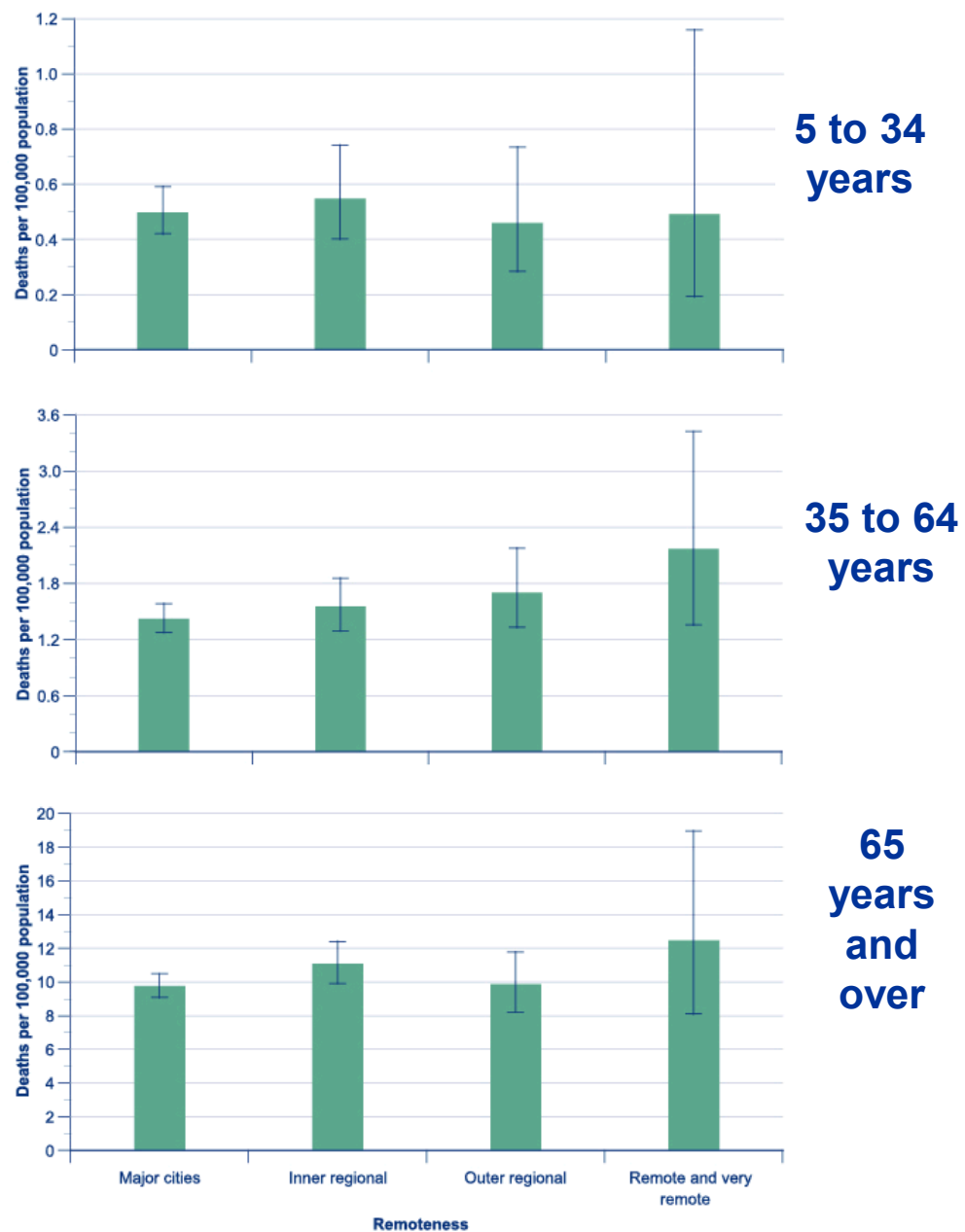


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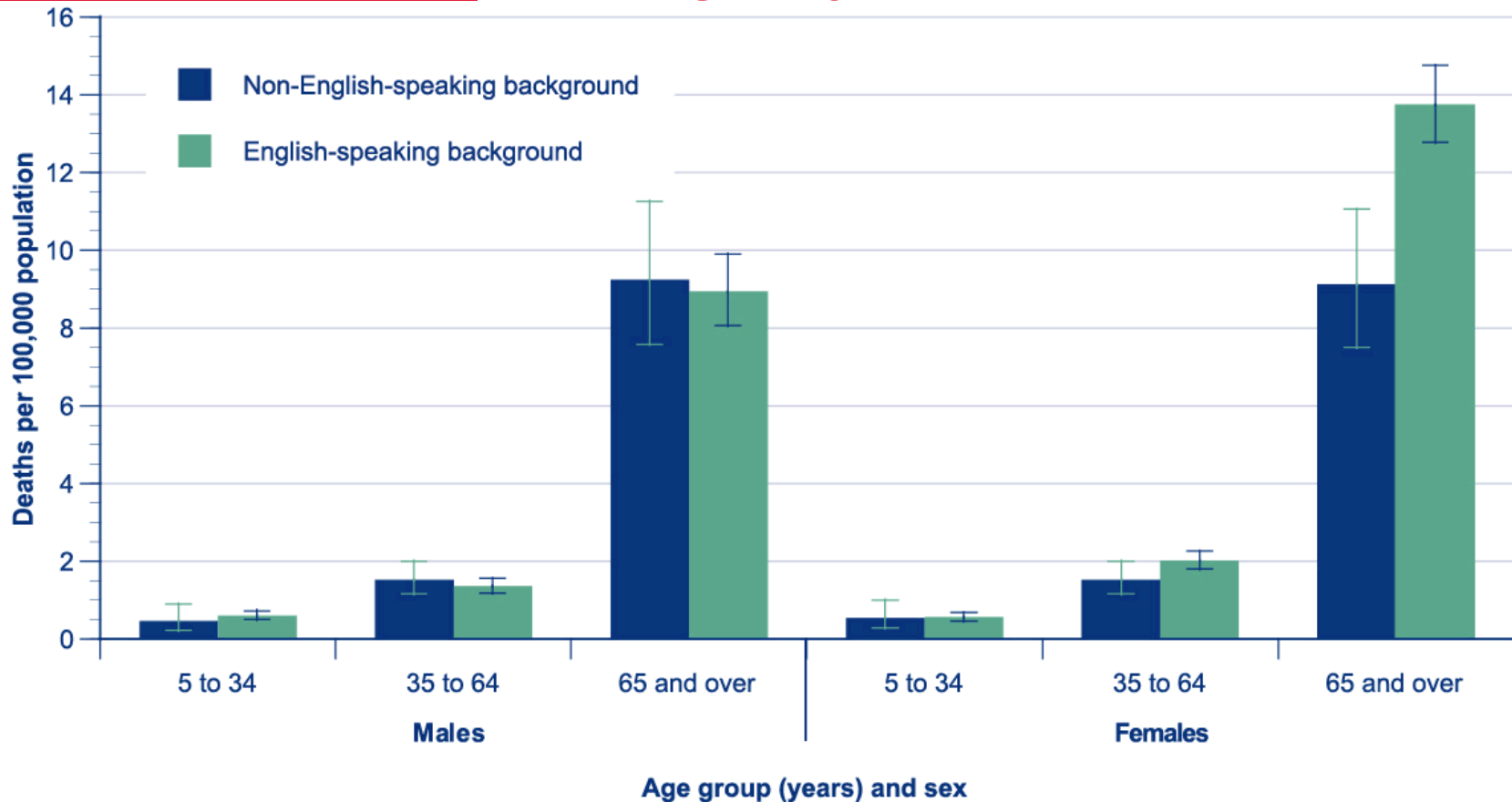
Deaths due to asthma by remoteness per 100,000 population, people aged 5 years and over, Australia, 1999–2003



Sources: AIHW National Mortality Database; ABS.

Deaths due to asthma by sex and English-speaking versus non-English-speaking background

per 100,000 population, people aged 5 years & over, Australia, 1999–2003



Sources: AIHW National Mortality Database; ABS.



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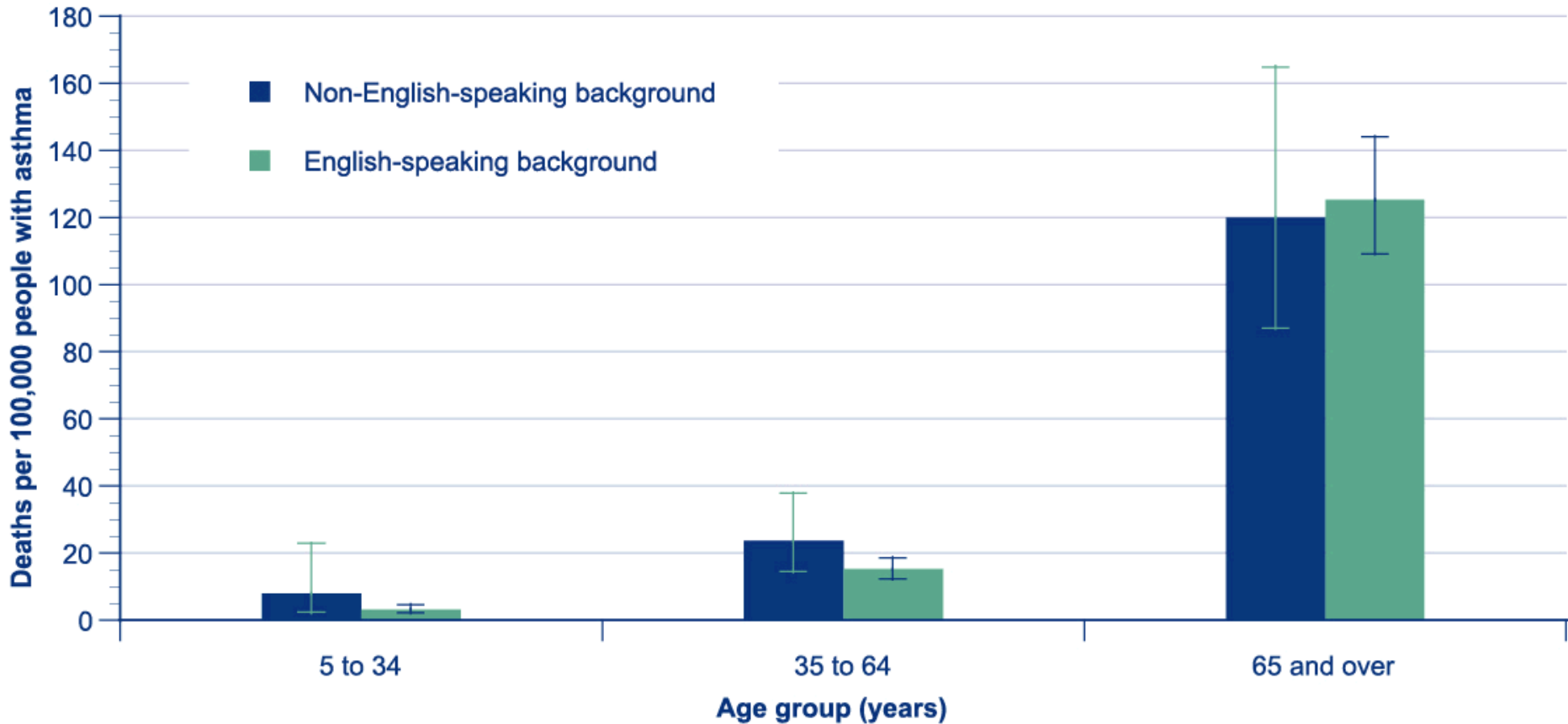
Age group (years) and sex

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Deaths due to asthma by English-speaking vs non-English-speaking background

per 100,000 people with asthma, people aged 5 years and over,
Australia, 1999–2003

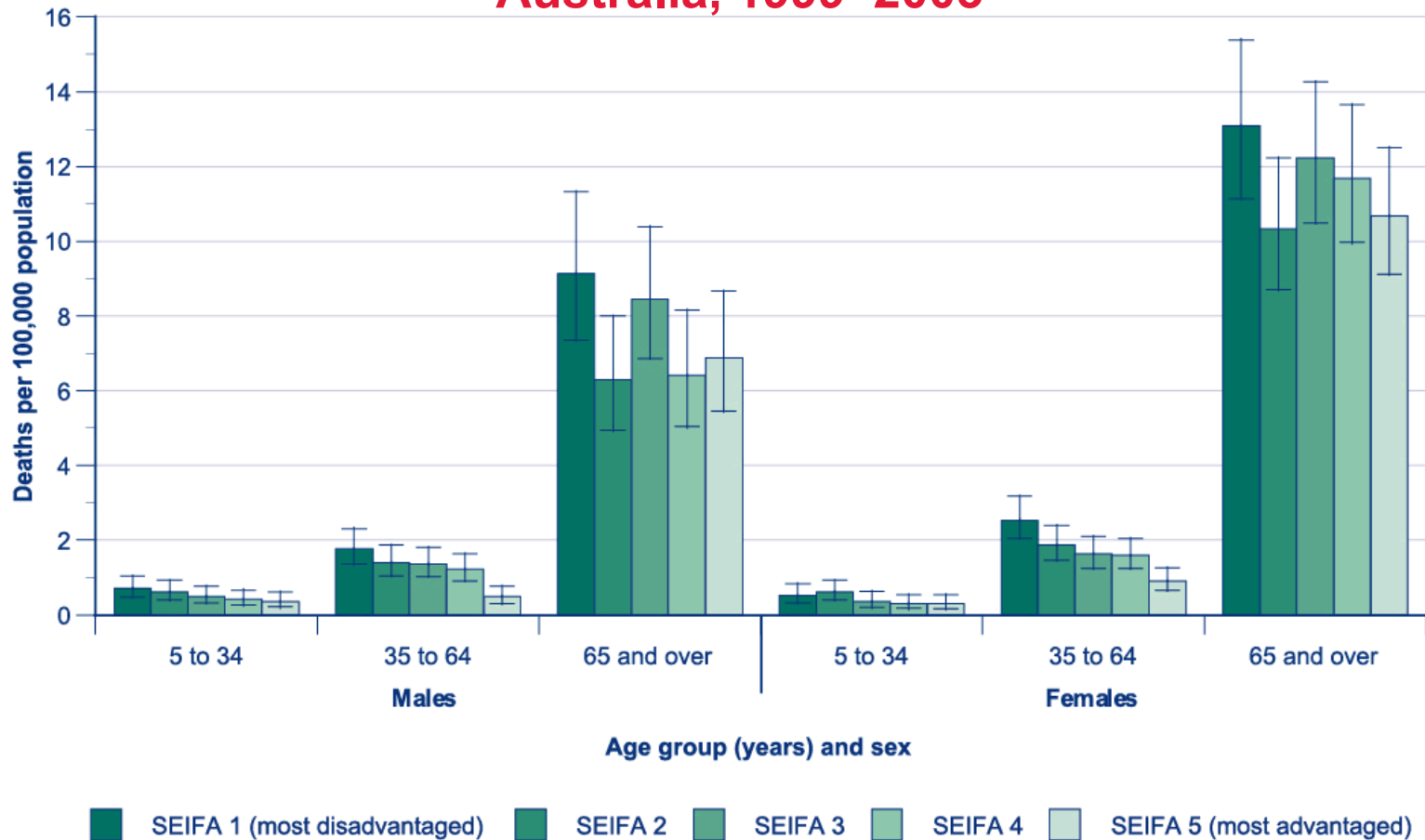


Sources: AIHW National Mortality Database; ABS National Health Survey 2001.

Deaths due to asthma

by sex and socioeconomic status

per 100,000 population, people aged 5 years and over,
Australia, 1999–2003



Sources: AIHW National Mortality Database; ABS.

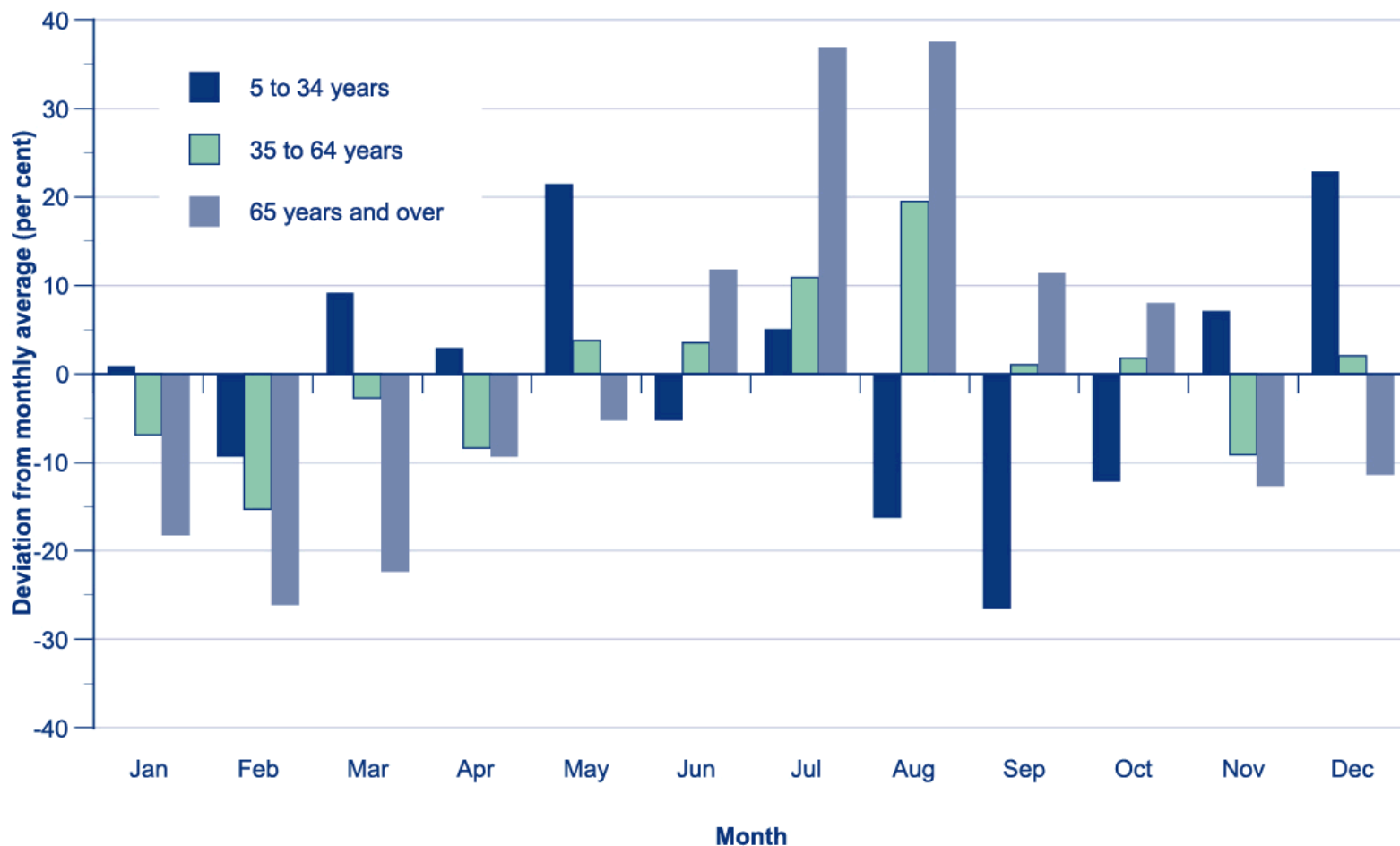


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Average monthly deviation from average number of deaths due to asthma by broad age group, Australia, 1979–2003



Source: AIHW National Mortality Database.



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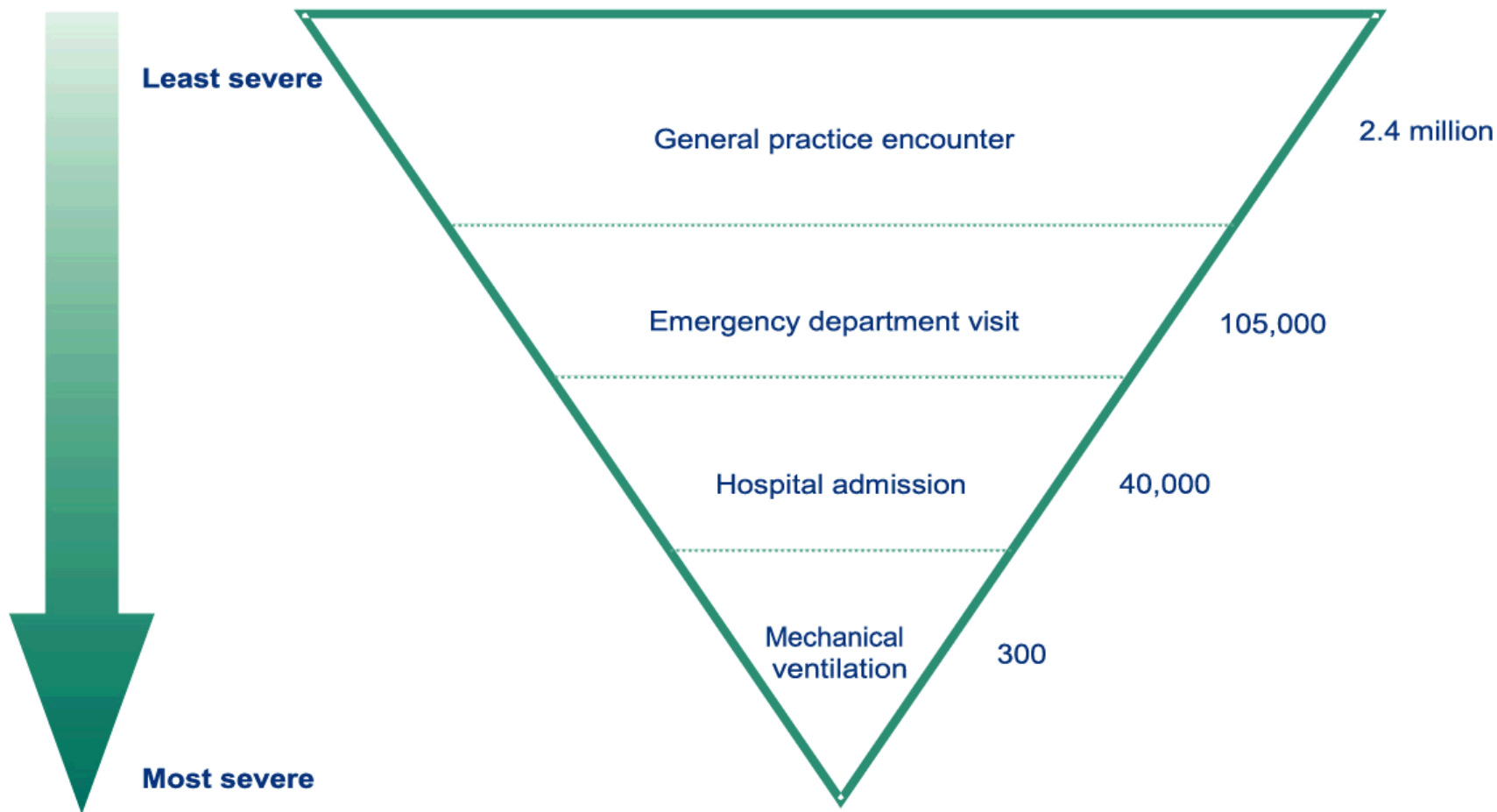
Asthma in Australia 2005

Chapter 5

Use of health services for asthma

Types of health service use

with approximate number of episodes of care for asthma in one year and severity of asthma exacerbations

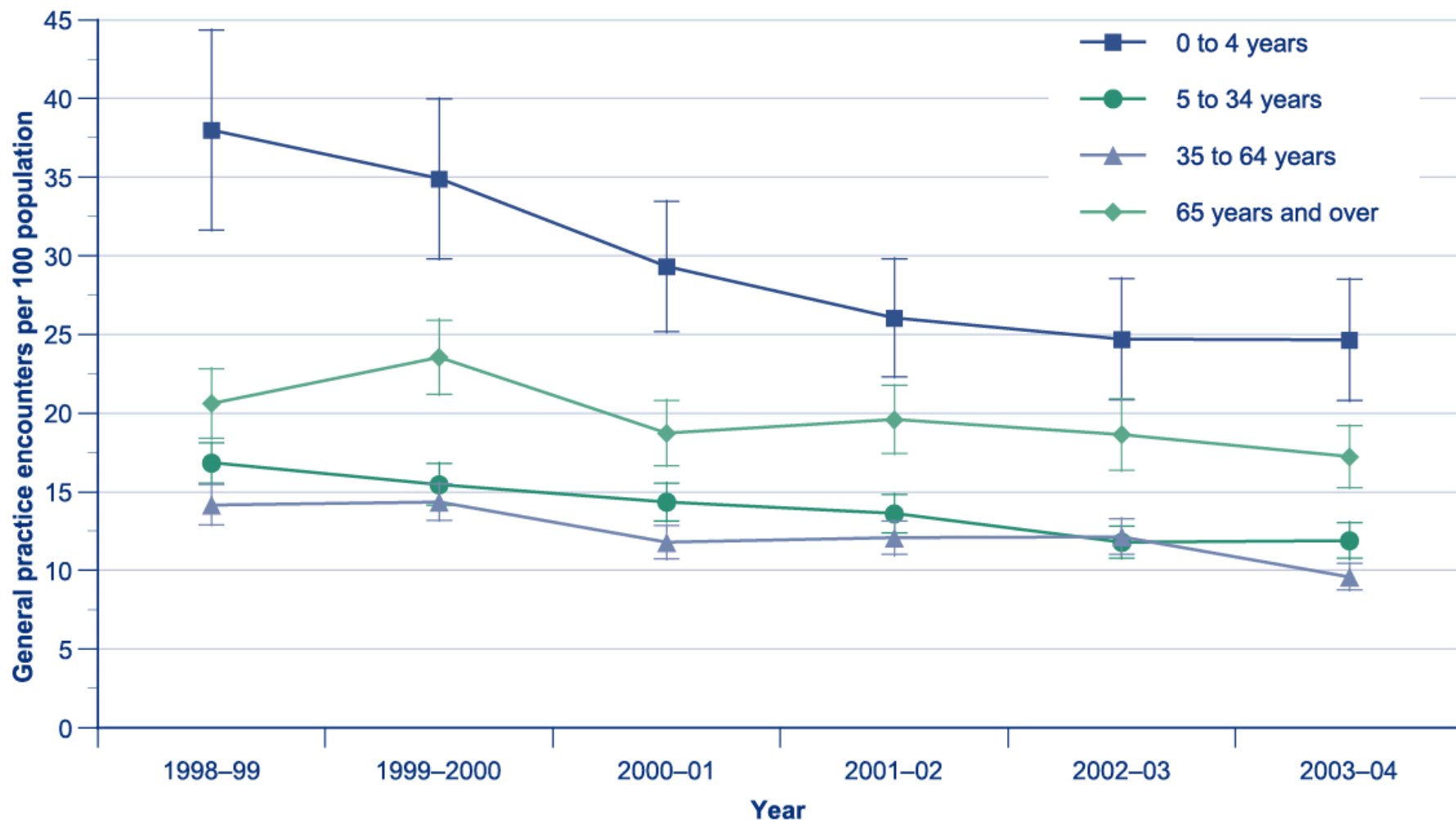


Asthma in Australia 2005

Chapter 5.2

General practice encounters

General practice encounters for asthma per 100 population by age group, Australia, 1998–2004



Source: BEACH Survey of General Practice.



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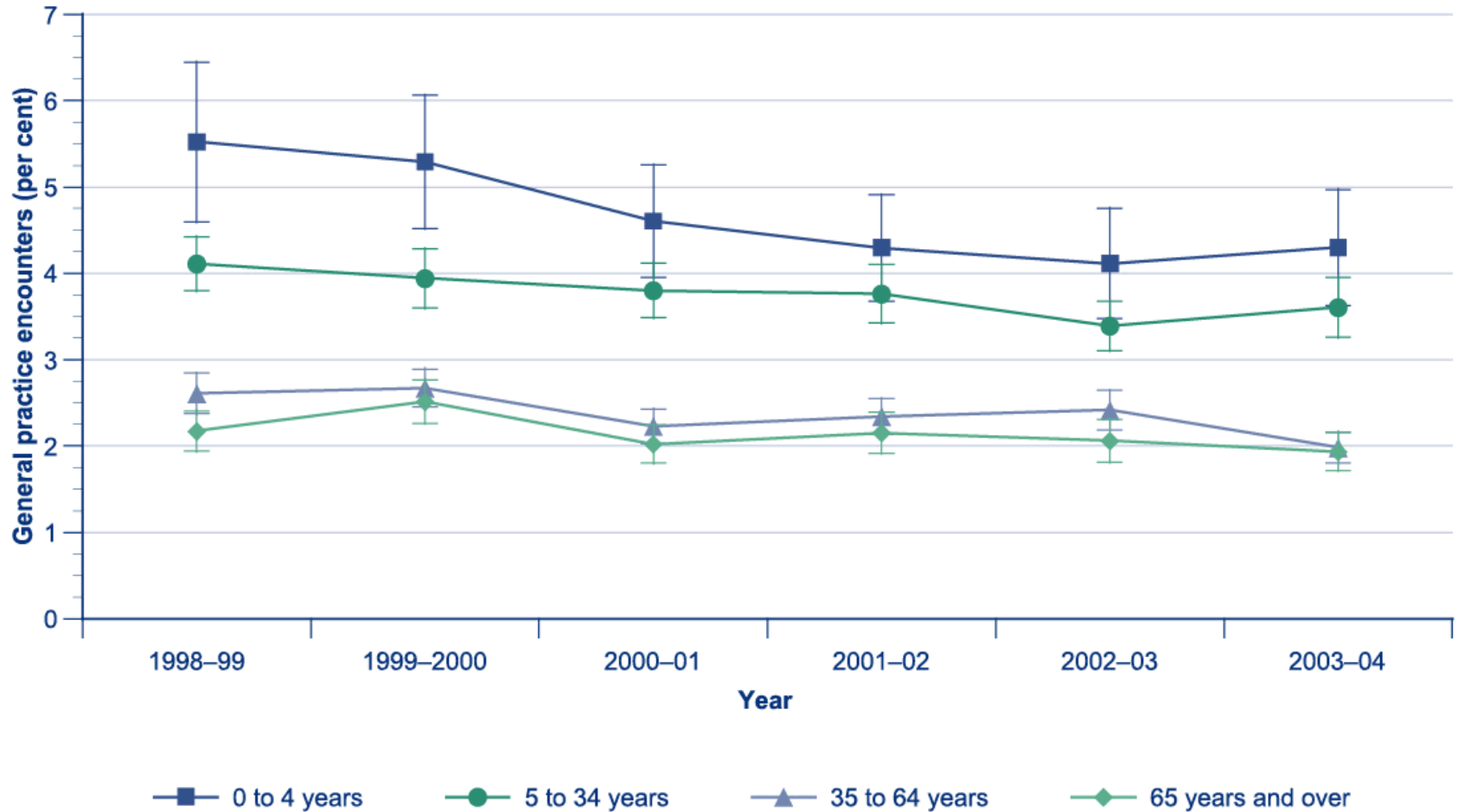
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Proportion of general practice encounters for asthma by age

Australia, 1998–2004



Source: BEACH Survey of General Practice.



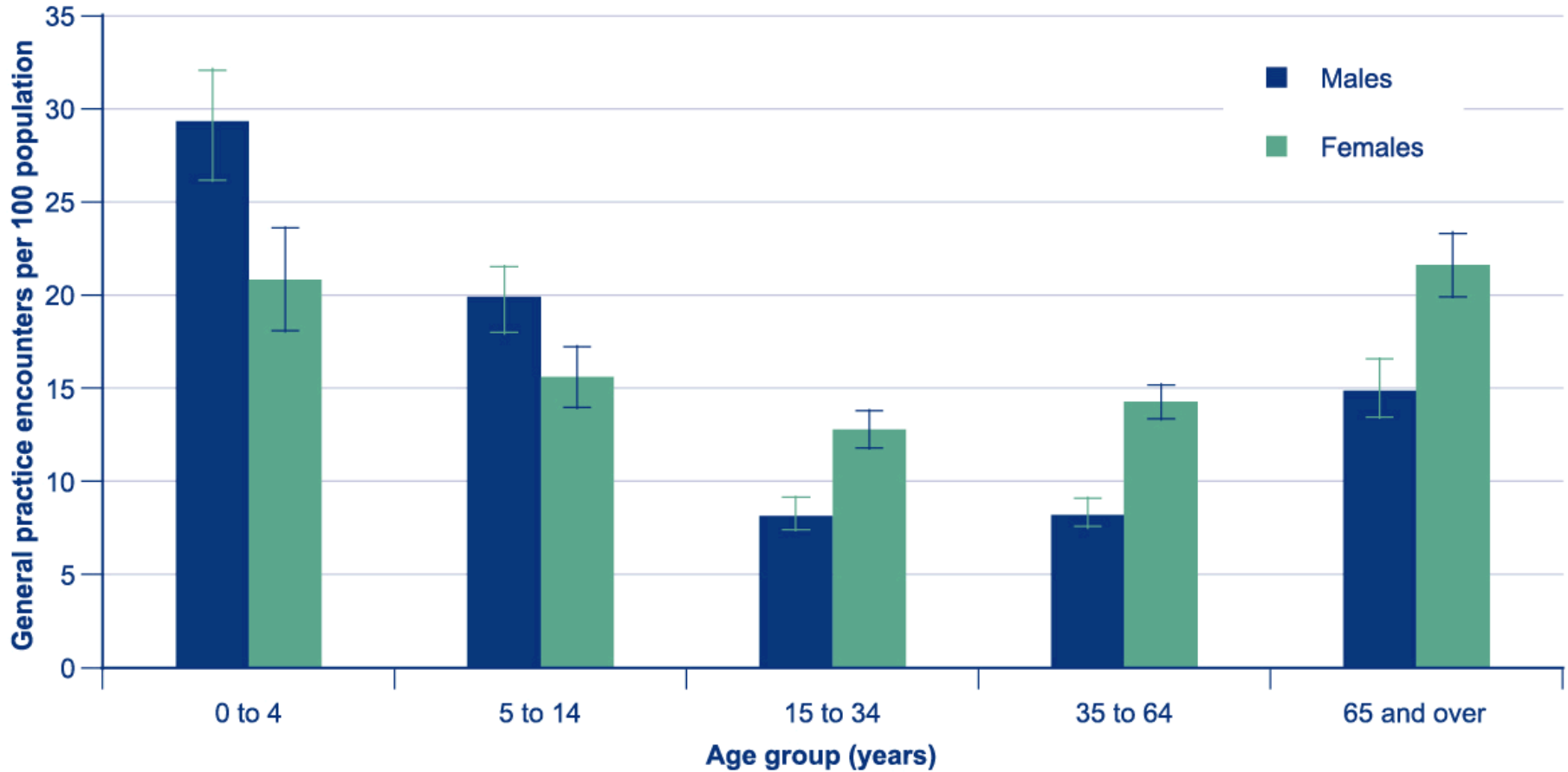
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General practice encounters for asthma by age group and sex

per 100 population, Australia, April 2001 to March 2004



Source: BEACH Survey of General Practice.



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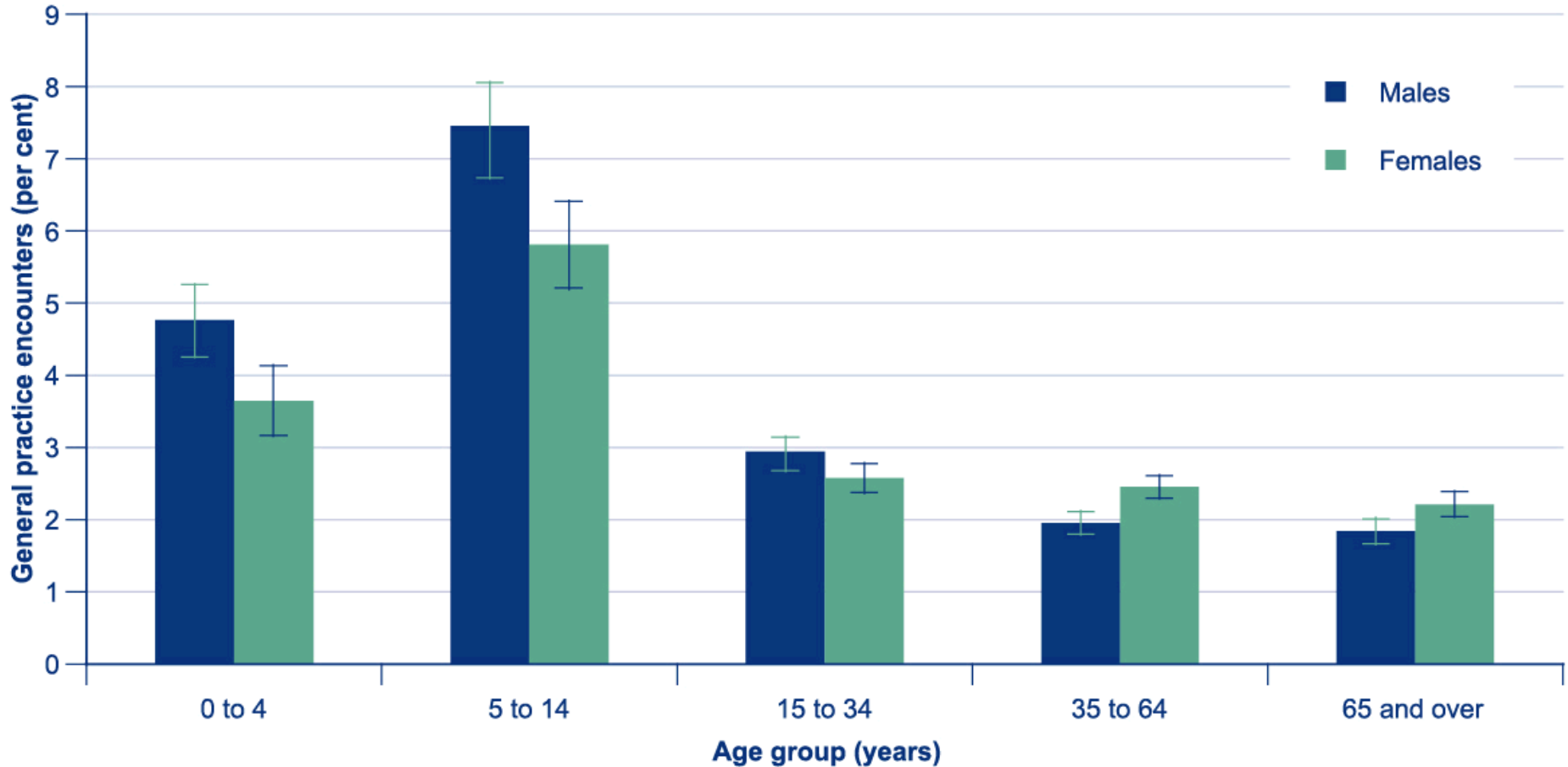
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Proportion of general practice encounters for asthma by age group and sex

Australia, April 2001 to March 2004



Source: BEACH Survey of General Practice.



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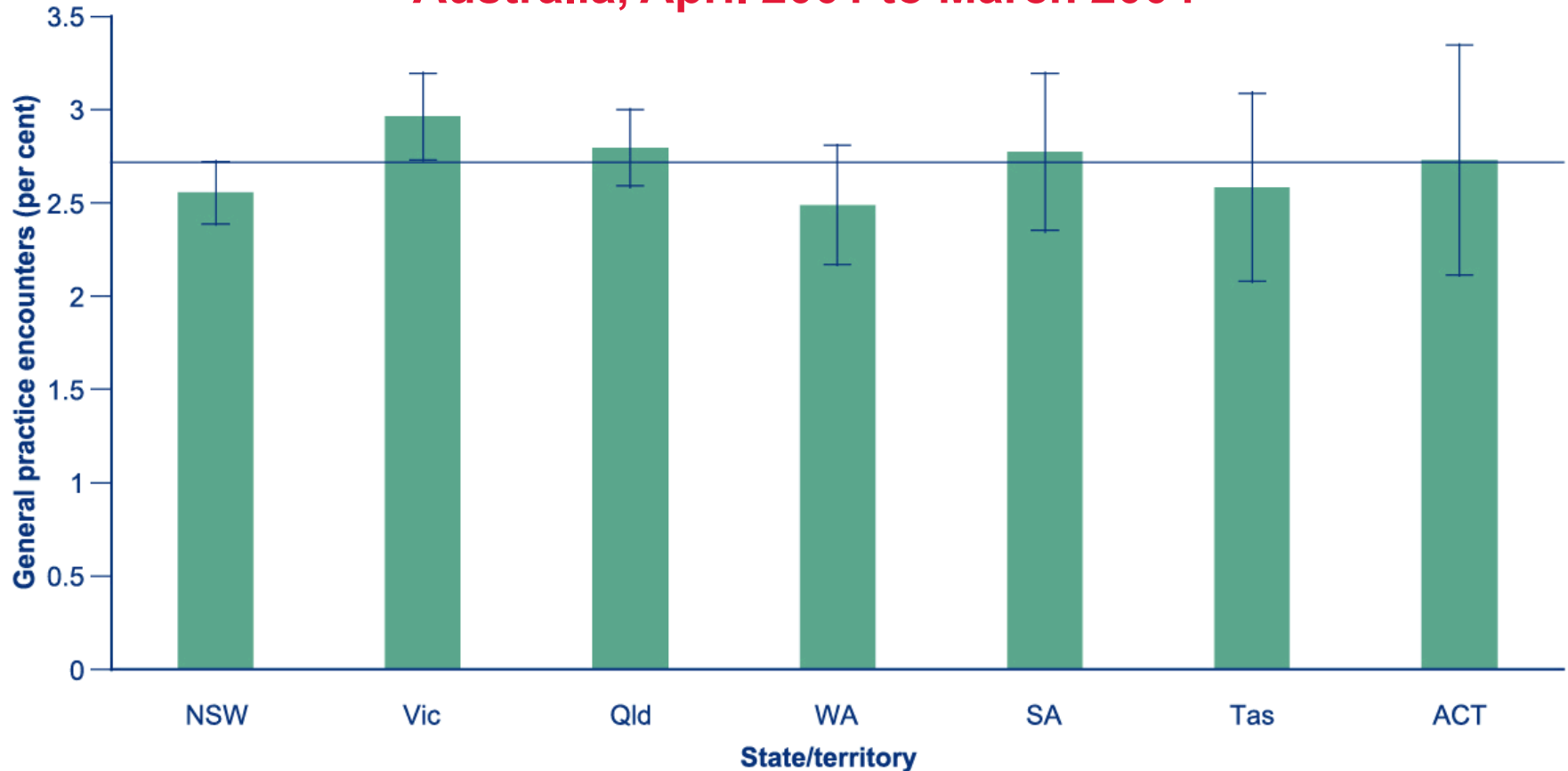
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Proportion of general practice encounters for asthma by state and territory

Australia, April 2001 to March 2004



Source: BEACH Survey of General Practice.



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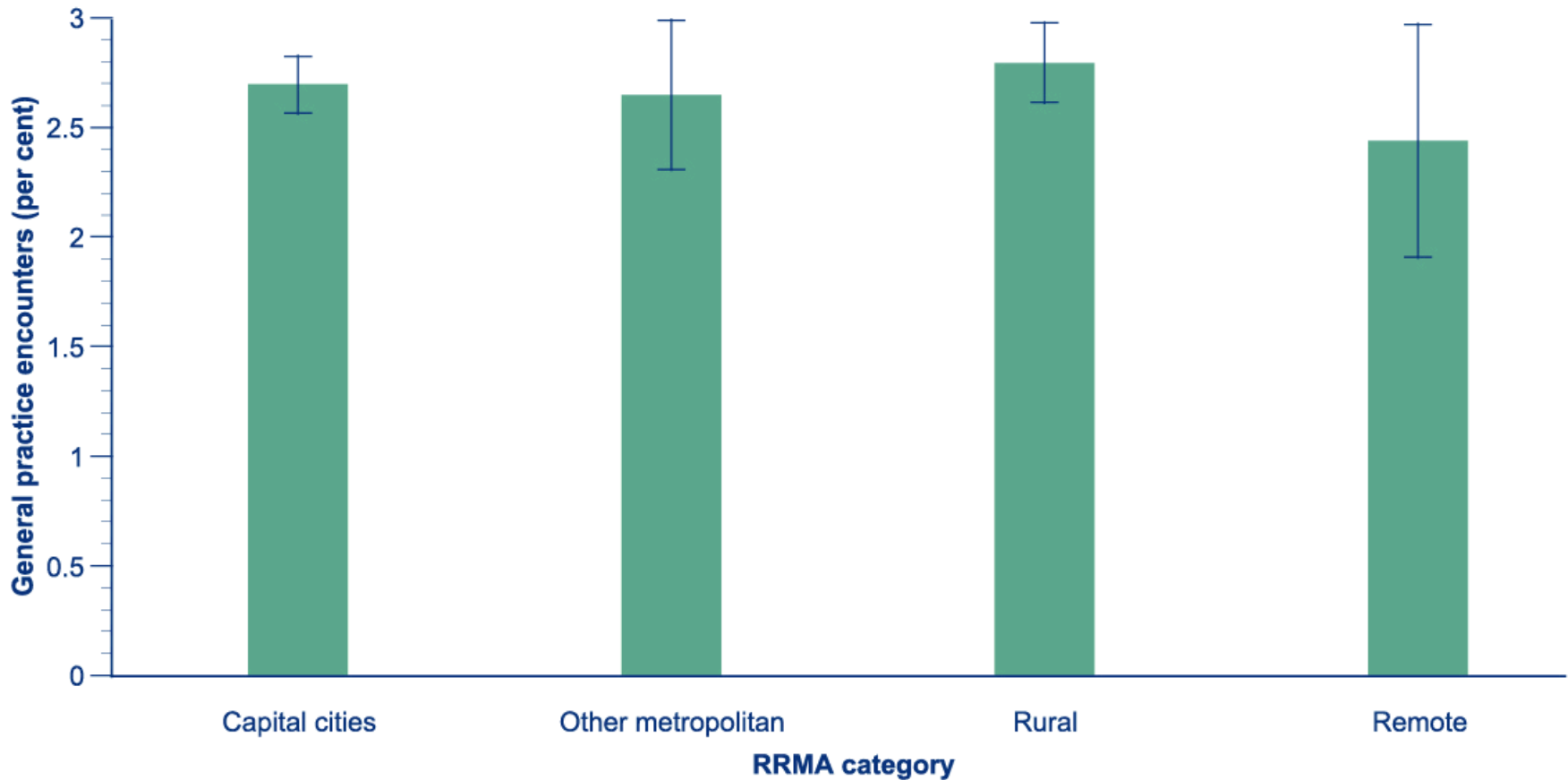
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Proportion of general practice encounters for asthma by remoteness

Australia, April 2001 to March 2004



Source: BEACH Survey of General Practice.



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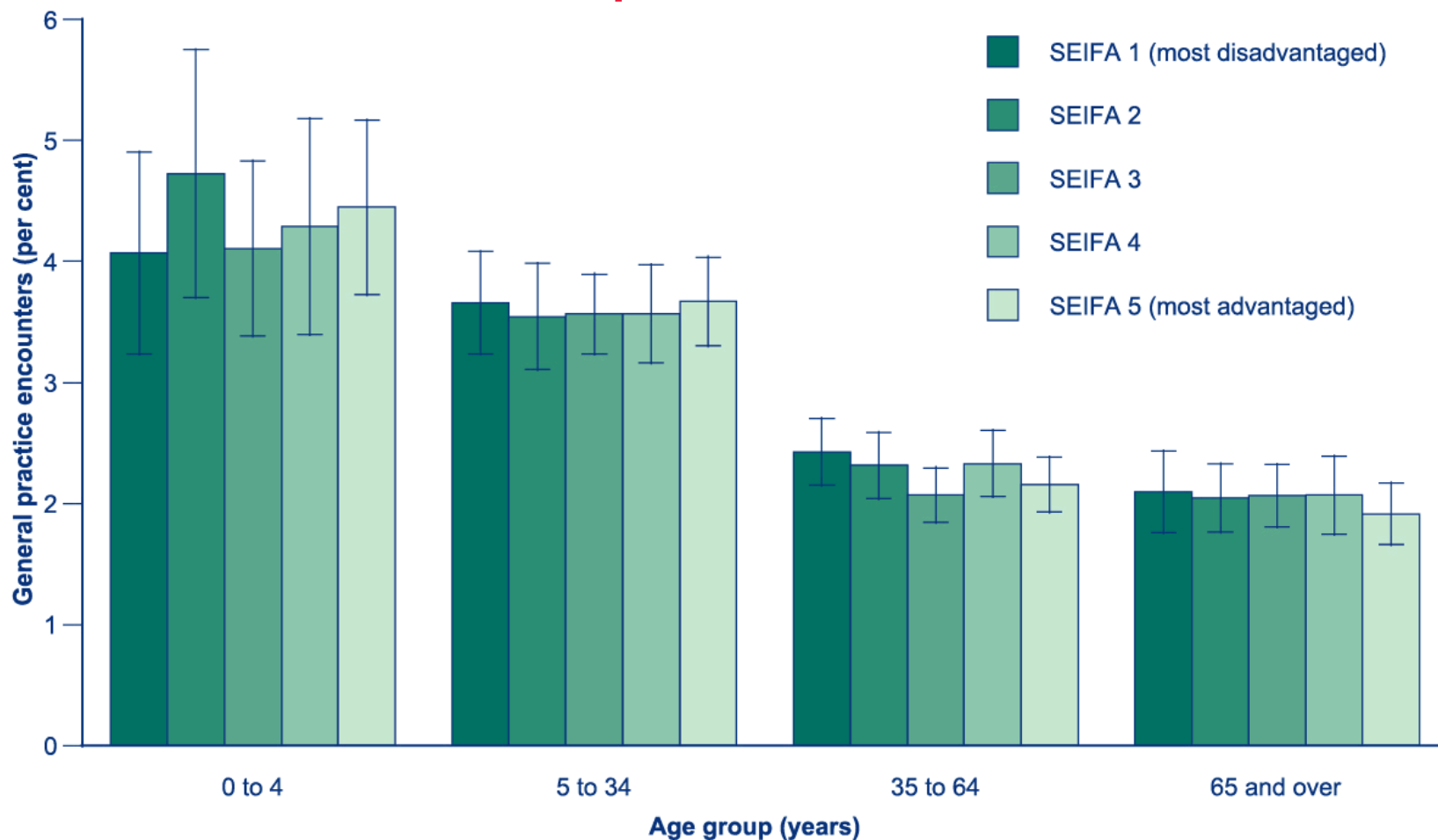
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Proportion of general practice encounters for asthma by age & socioeconomic status

Australia, April 2001 to March 2004



Source: BEACH Survey of General Practice.



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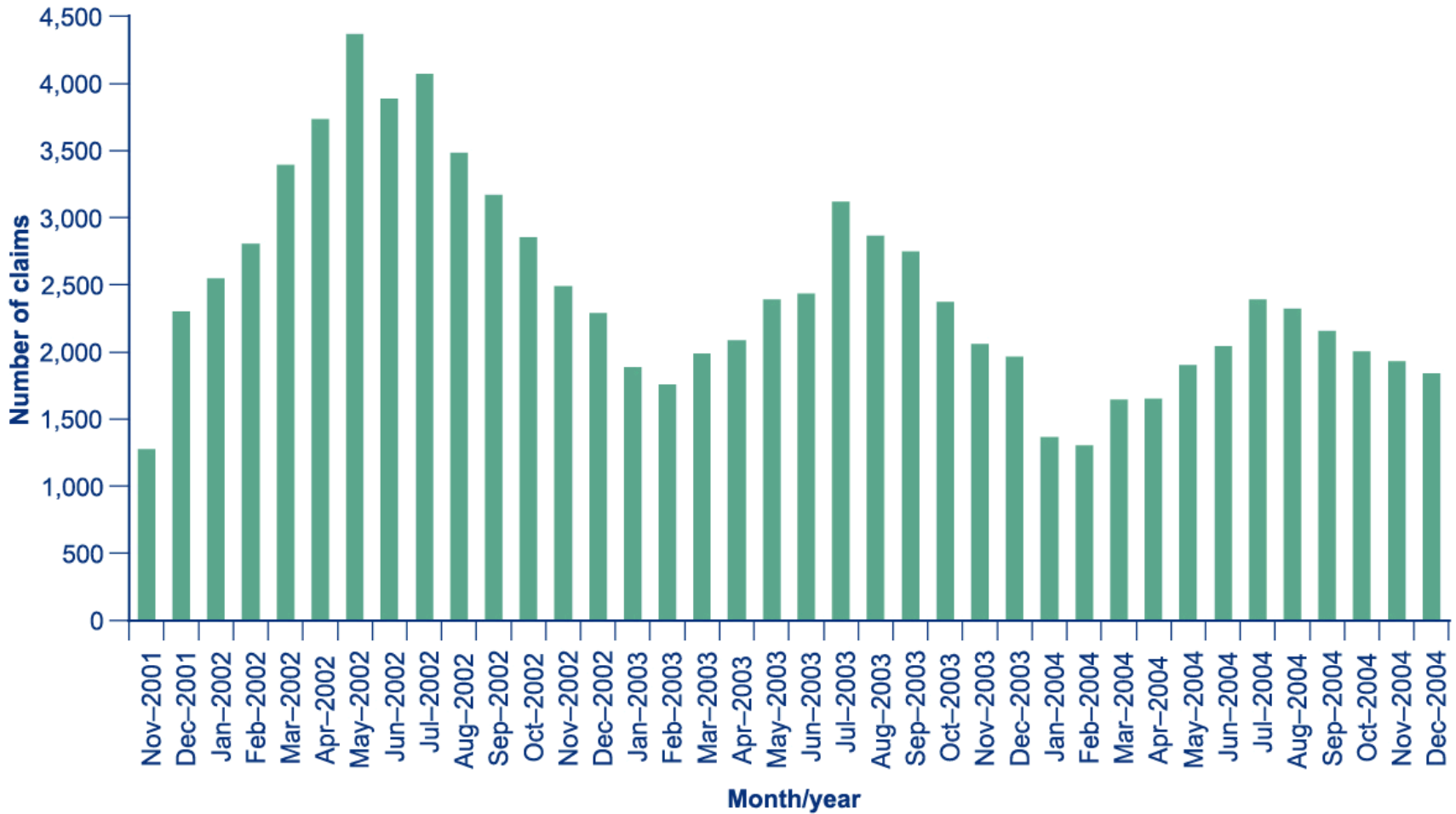
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Number of Asthma 3+ Visit Plan PIP claims

all ages, Australia, November 2001 to December 2004



Source: MBS Statistics.

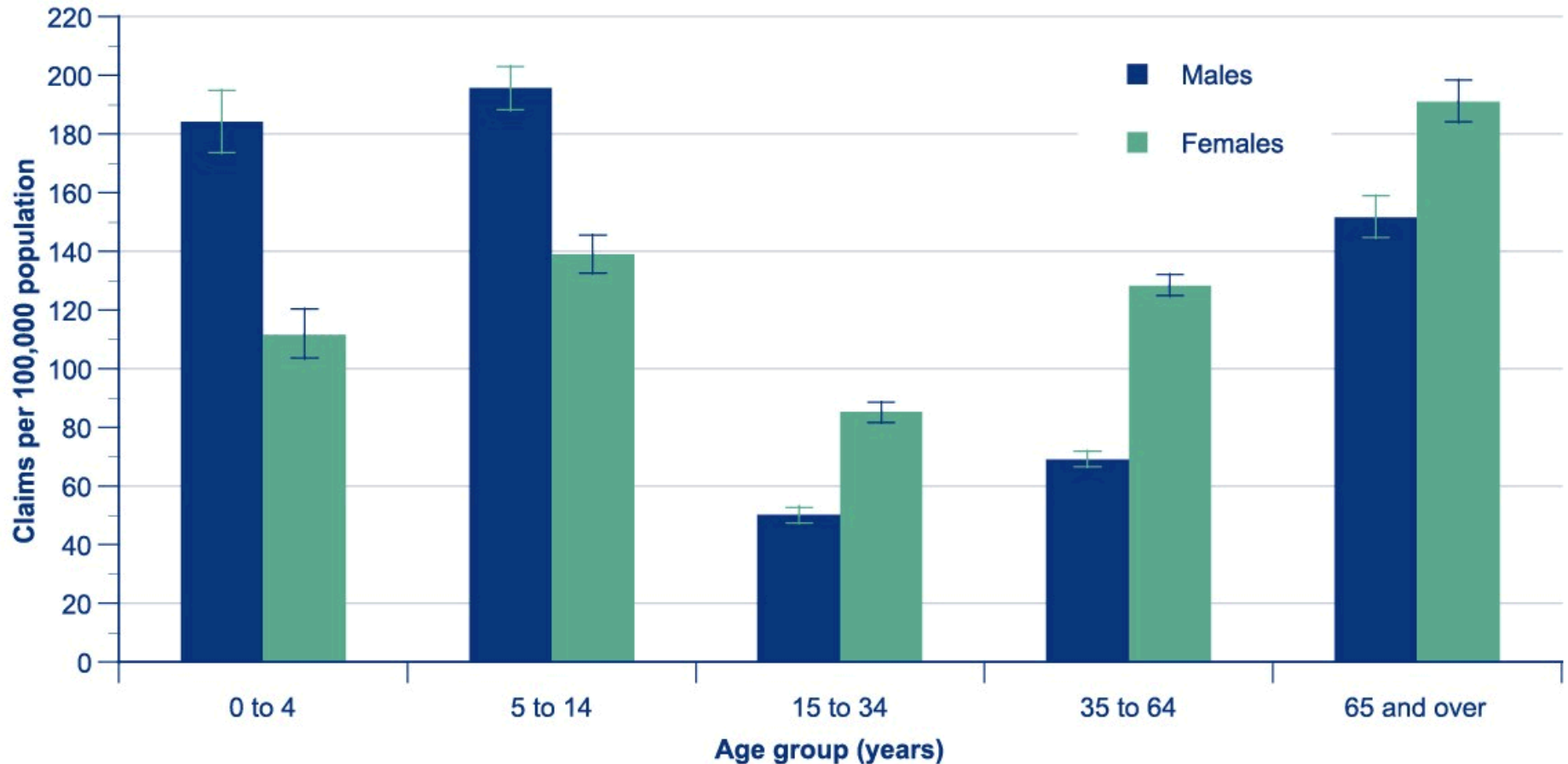


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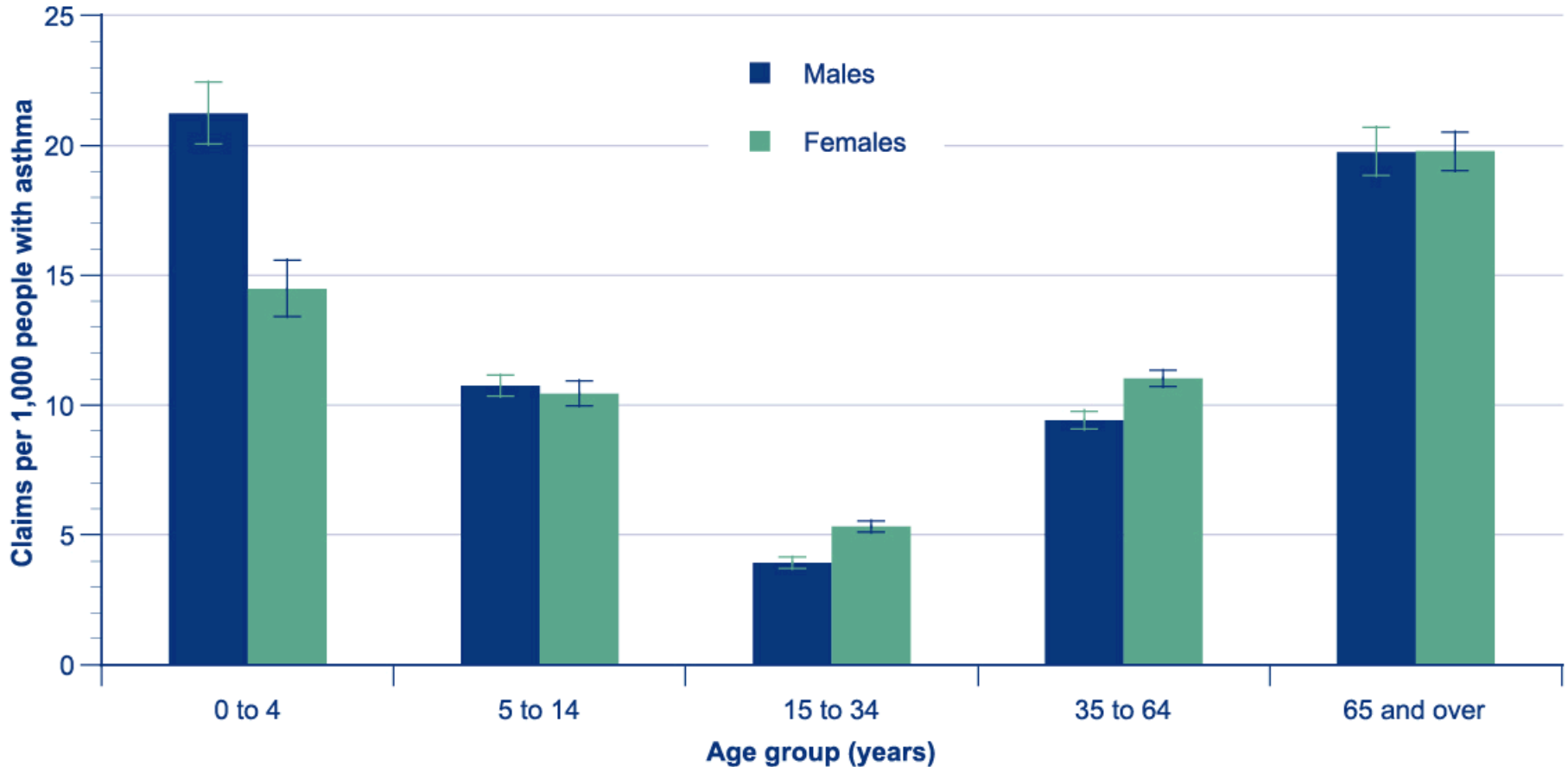


Asthma 3+ Visit Plan PIP claims by age & sex per 100,000 population, Australia, 2004



Sources: MBS Statistics; ABS.

Asthma 3+ Visit Plan PIP claims per 1,000 people with asthma, Australia, 2004



Sources: MBS Statistics; ABS National Health Survey 2001.



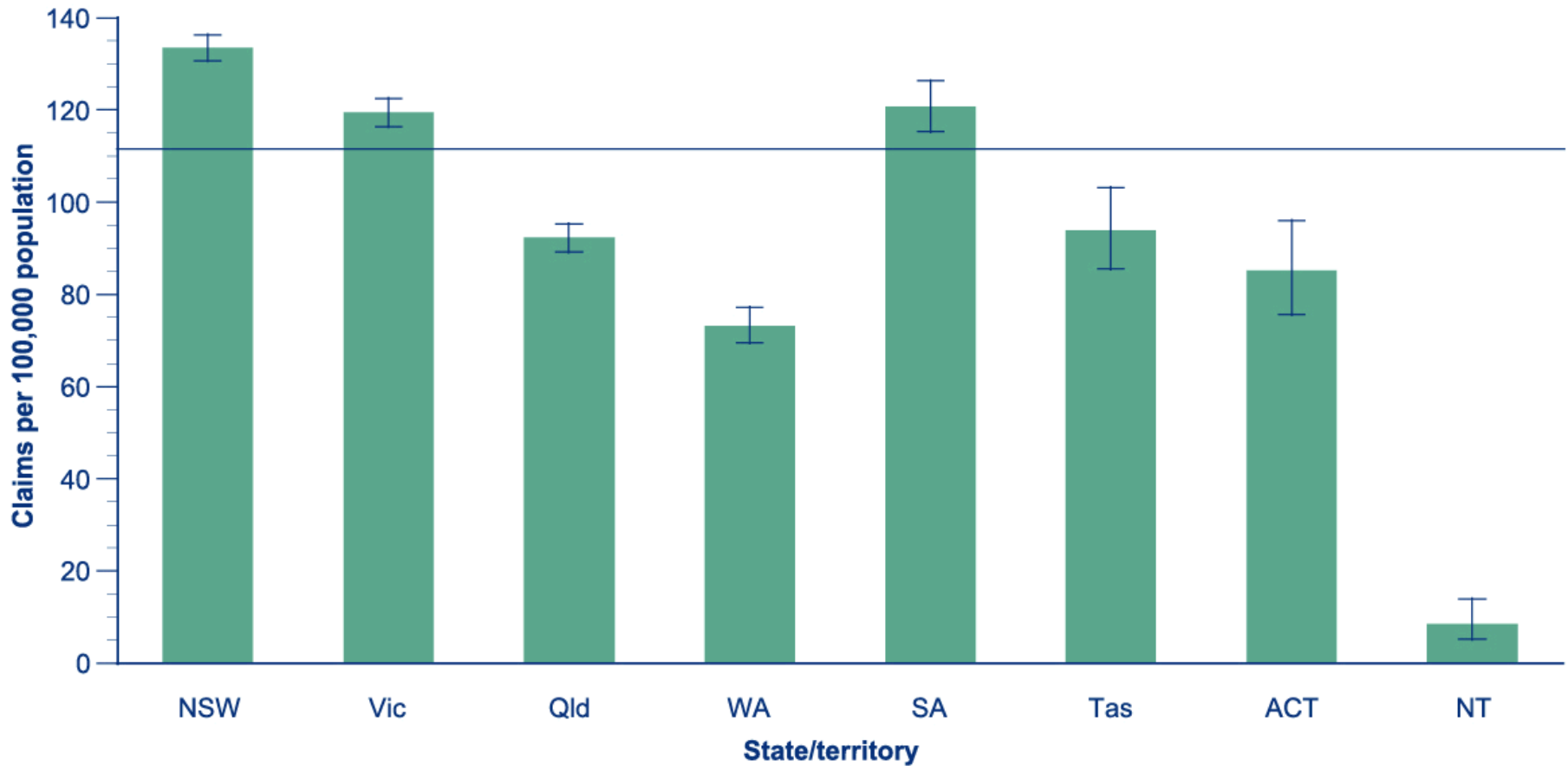
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Asthma 3+ Visit Plan PIP claims by state and territory per 100,000 population, Australia, 2004



Sources: MBS Statistics; ABS.



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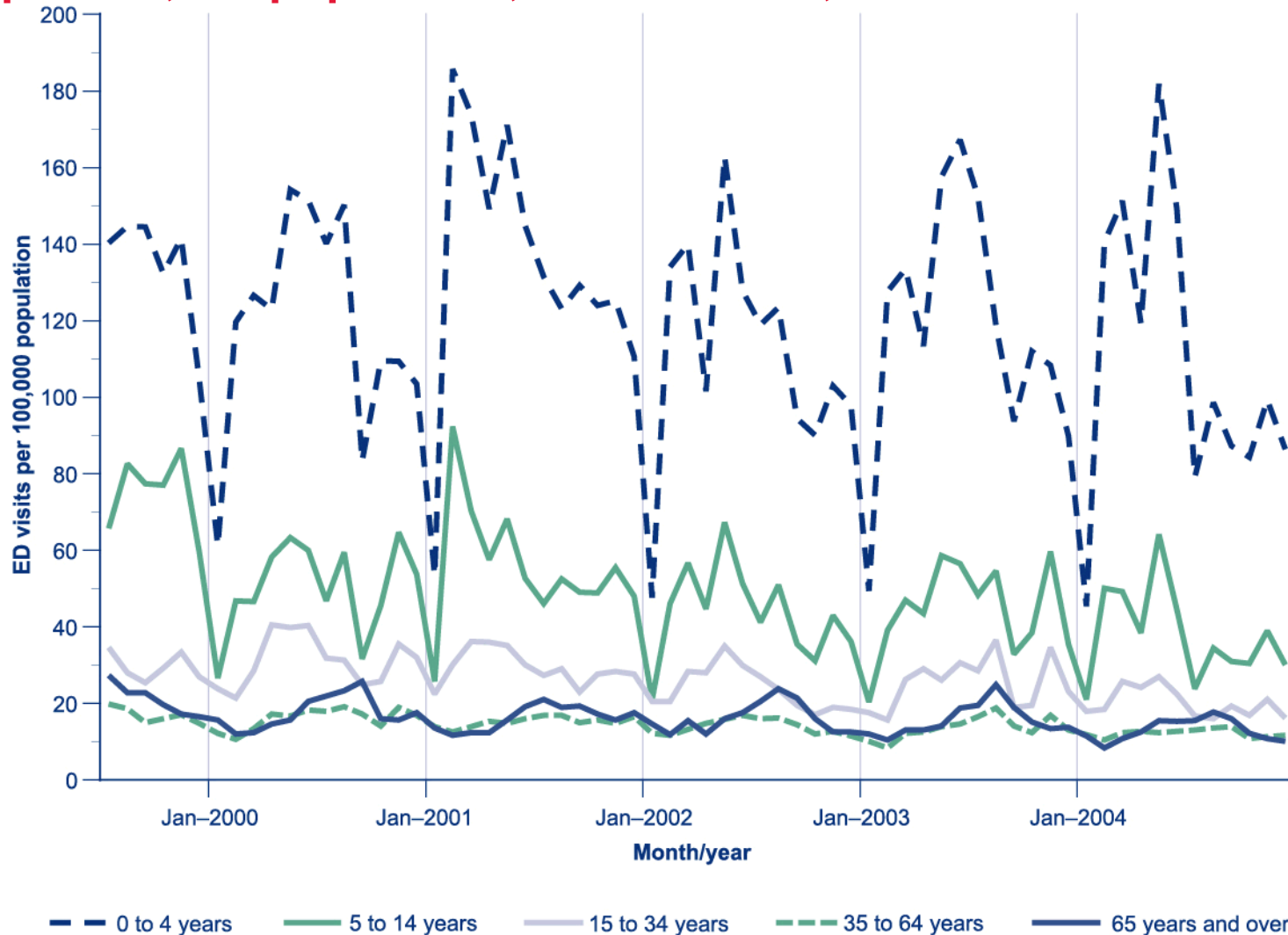
Asthma in Australia 2005

Chapter 5.3

Hospital emergency department visits

ED visits for asthma by age and month

per 100,000 population, NSW and Vic, Jul 1999 to Dec 2004



Sources: NSW EDDC (HOIST); VEMD.



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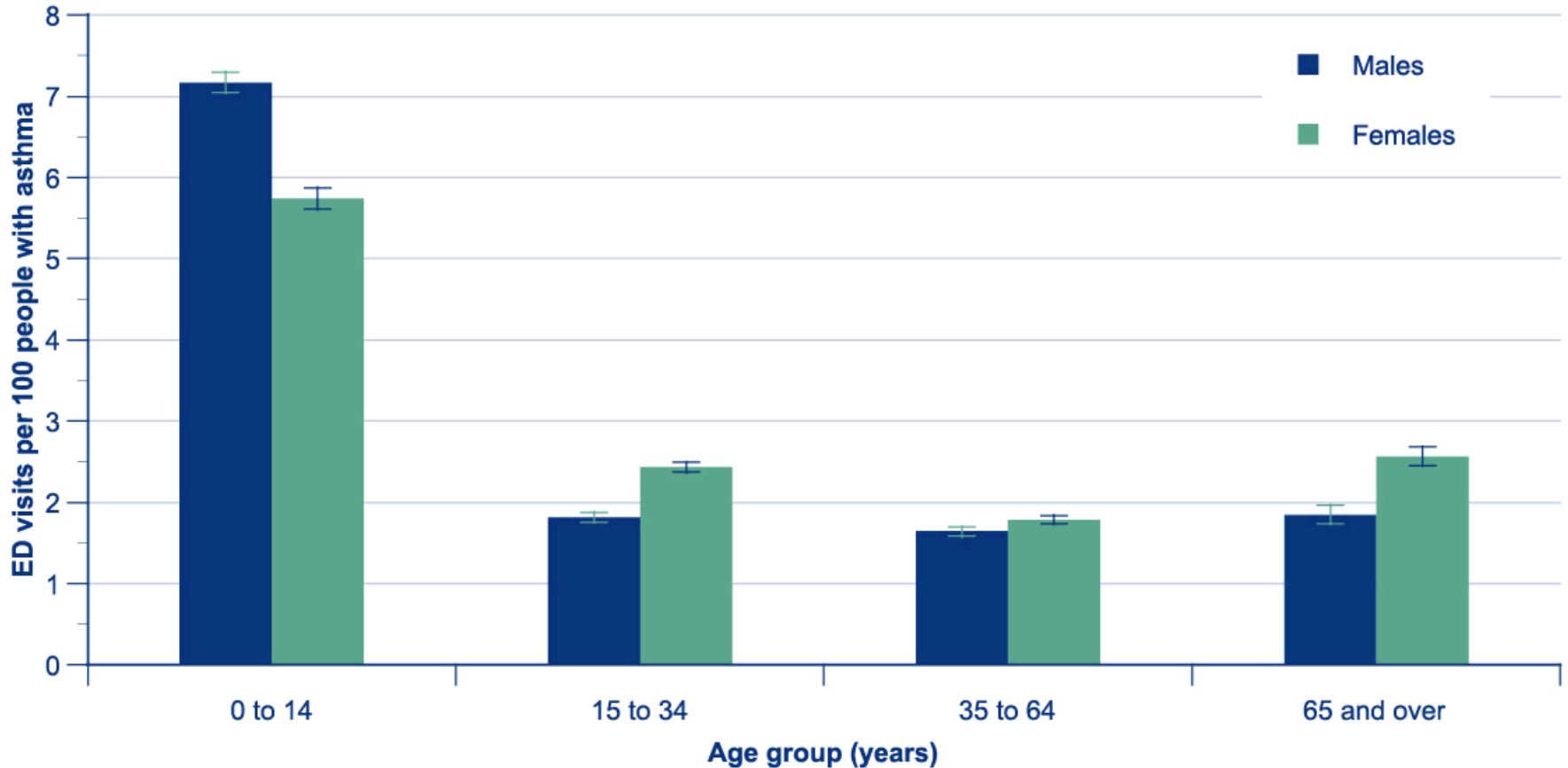
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ED visits for asthma by age & sex

per 100 people with asthma, NSW and Vic, Jul 1999 to Jun 2004



Sources: NSW EDDC (HOIST); VEMD; ABS National Health Survey 2001.



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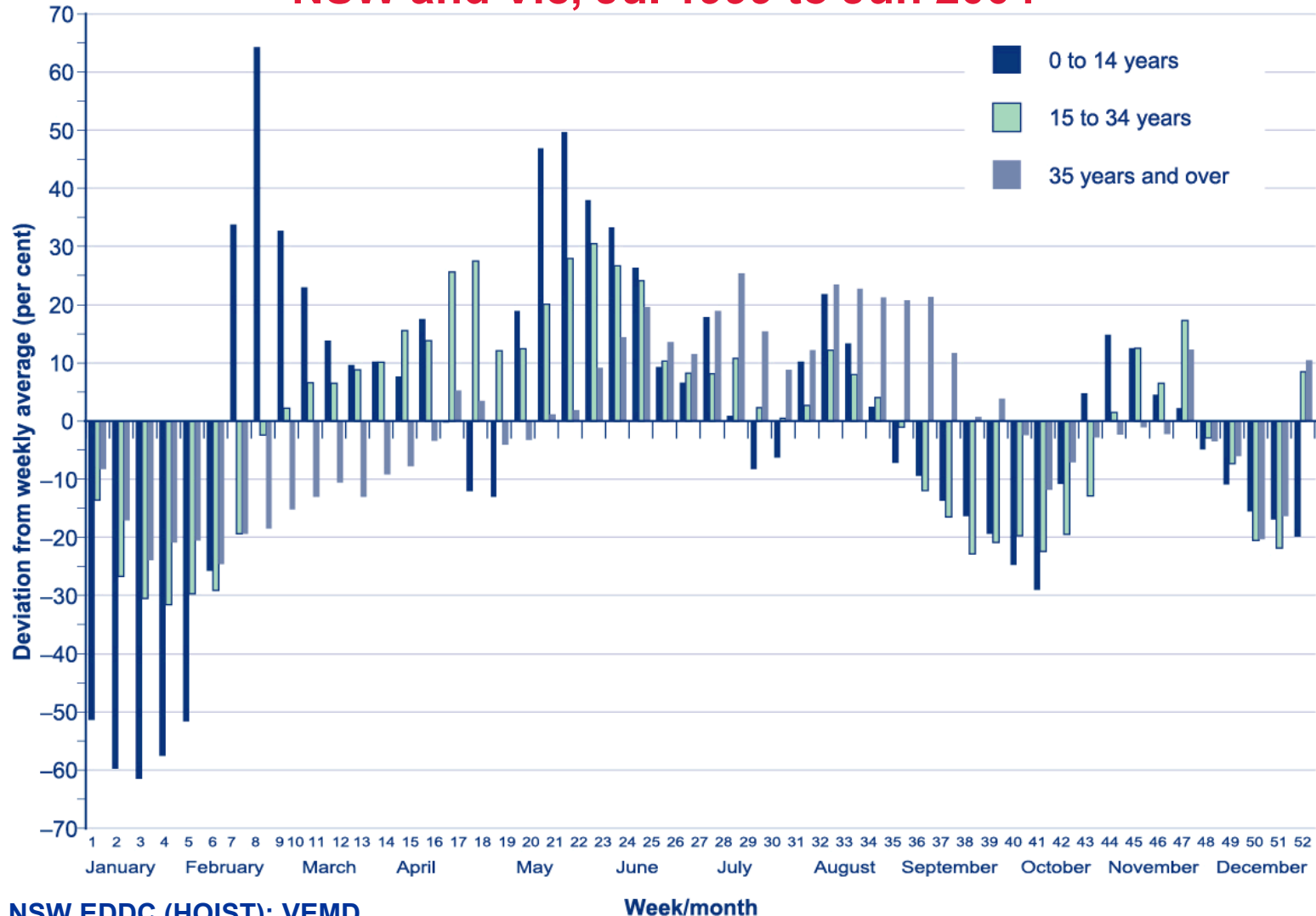
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Seasonal variation in ED visits for asthma

NSW and Vic, Jul 1999 to Jun 2004



Sources: NSW EDDC (HOIST); VEMD.



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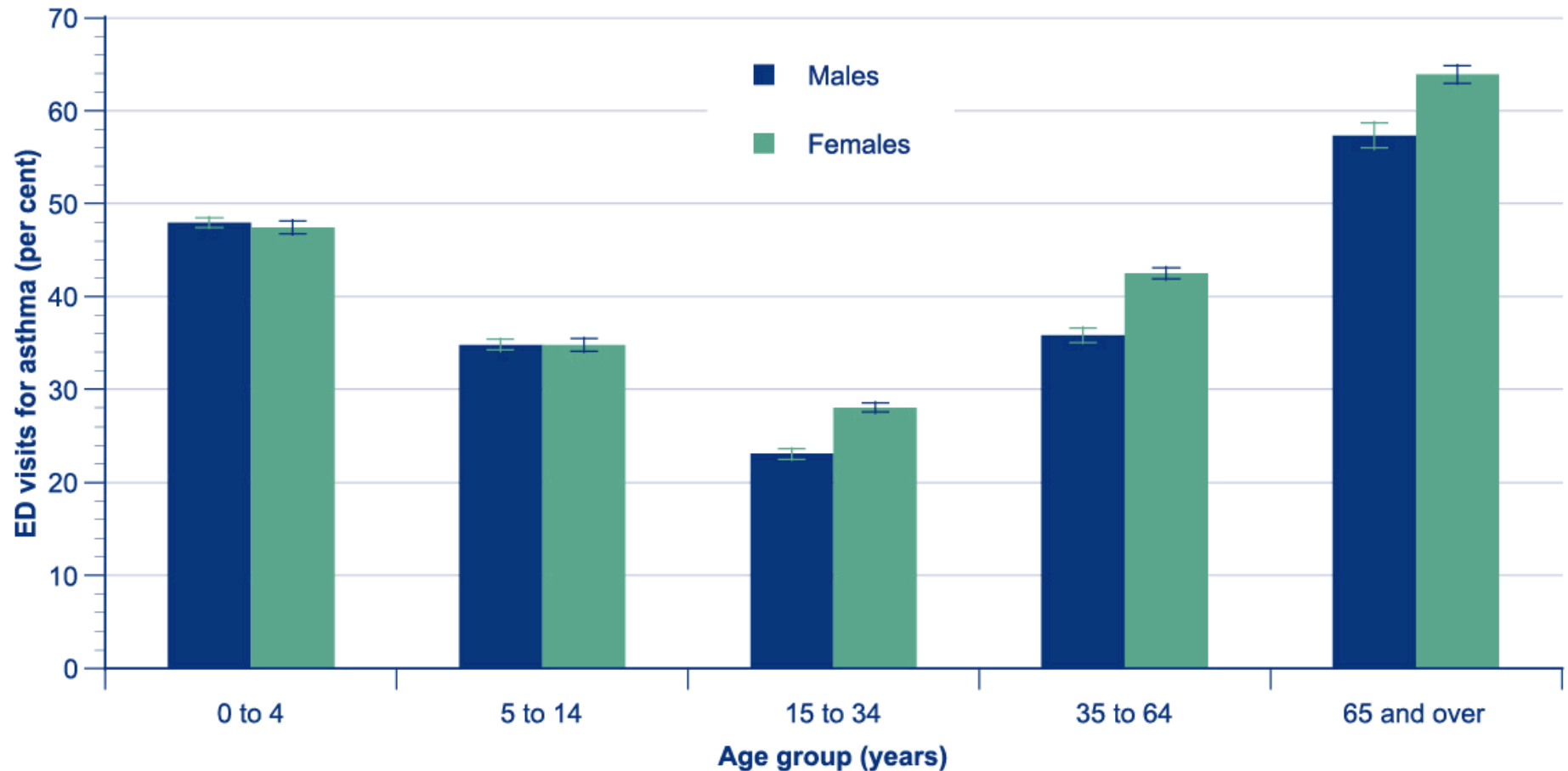
Week/month

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Proportion of ED visits for asthma resulting in admission to hospital by age & sex

NSW and Vic, Jul 1999 to Jun 2004



Sources: NSW EDDC (HOIST); VEMD.



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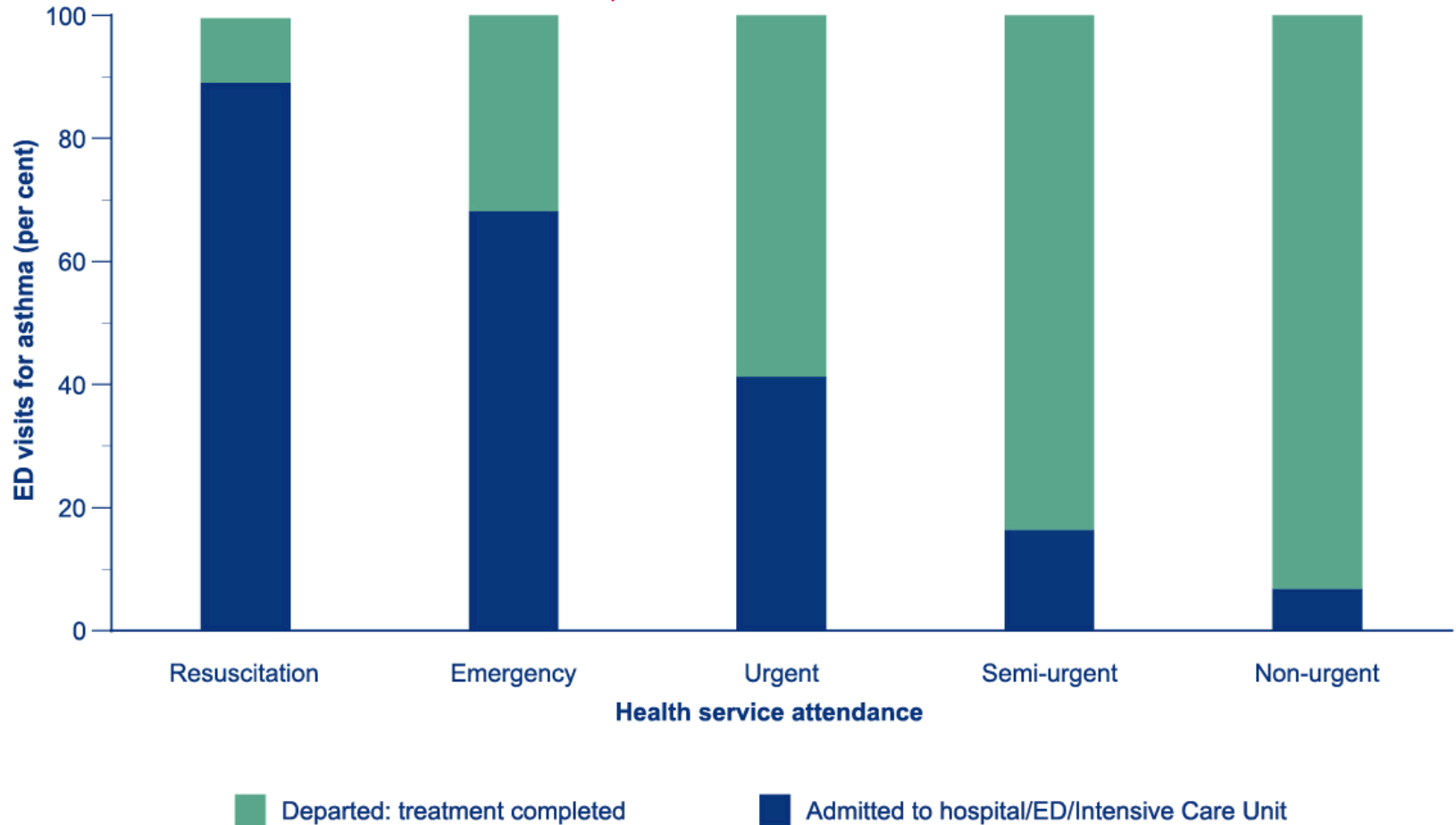
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Outcome status by triage category among people visiting EDs for asthma

NSW and Vic, Jul 1999 to Jun 2004



Sources: NSW EDDC (HOIST); VEMD.

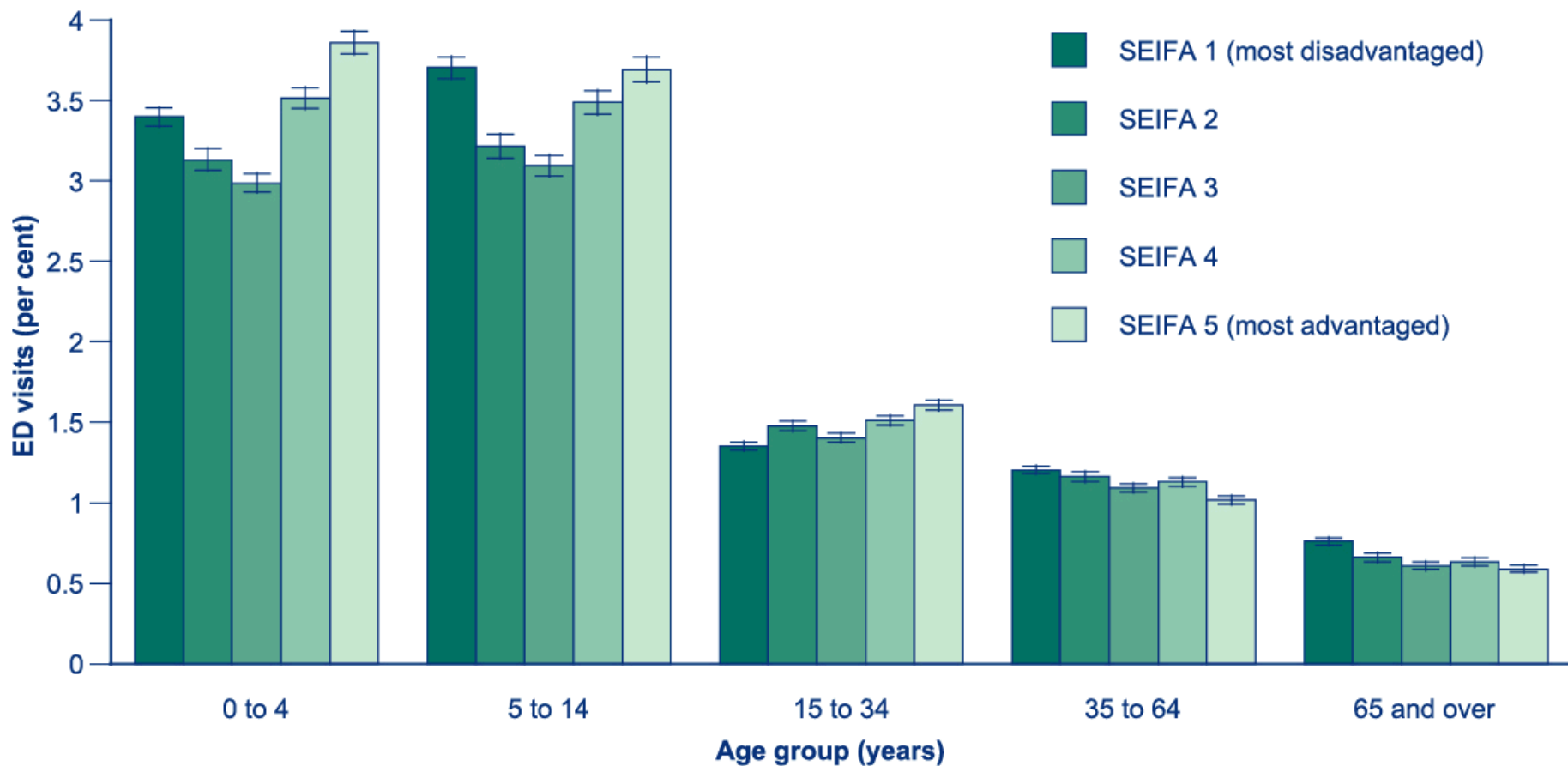


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Proportion of all ED visits that are for asthma by age and socioeconomic status NSW and Vic, Jul 1999 to Jun 2004



Sources: NSW EDDC (HOIST); VEMD.



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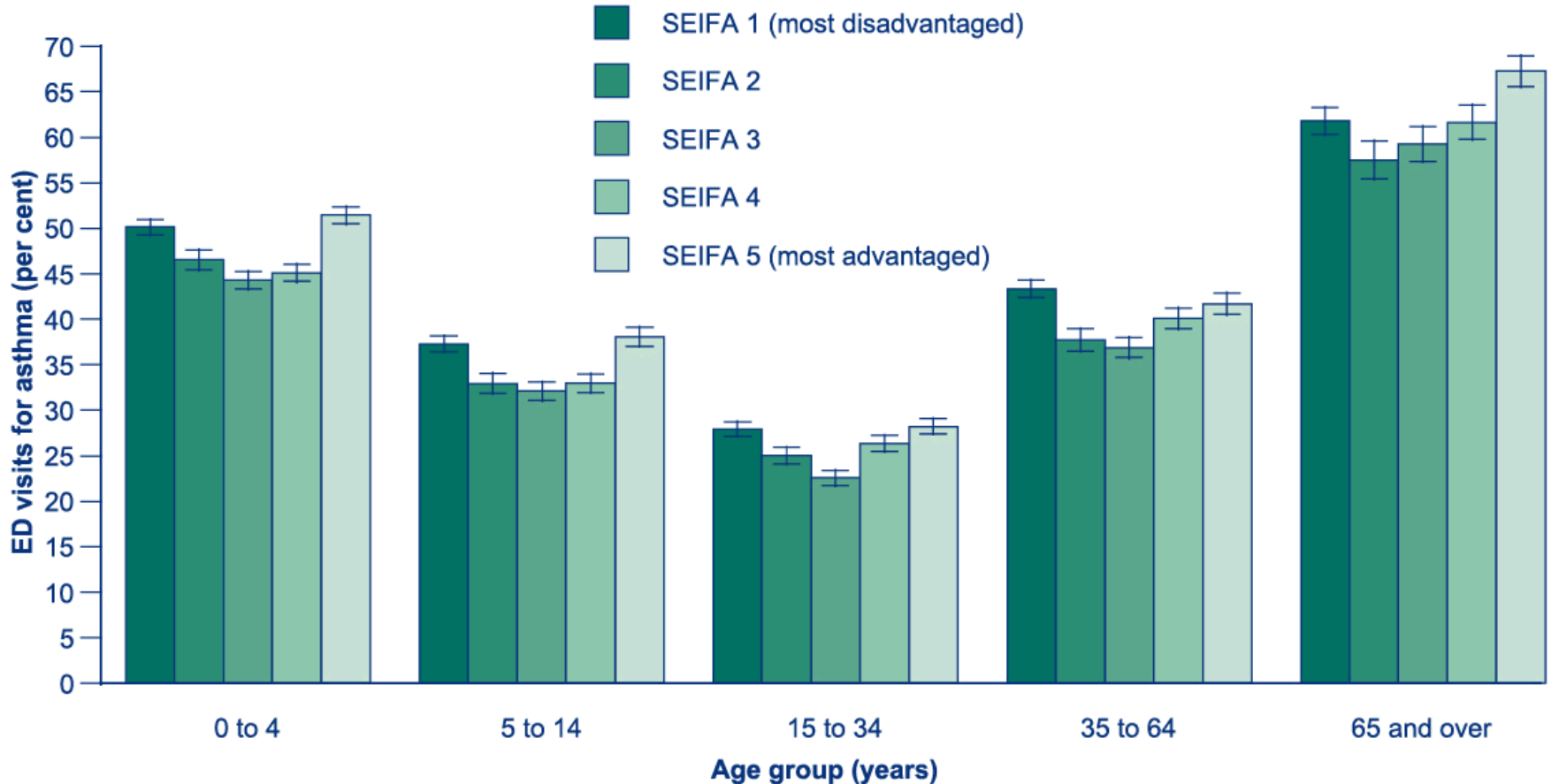
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Proportion of ED visits for asthma that resulted in admission to hospital by age & socioeconomic status

NSW and Vic, Jul 1999 to Jun 2004



Sources: NSW EDDC (HOIST); VEMD.



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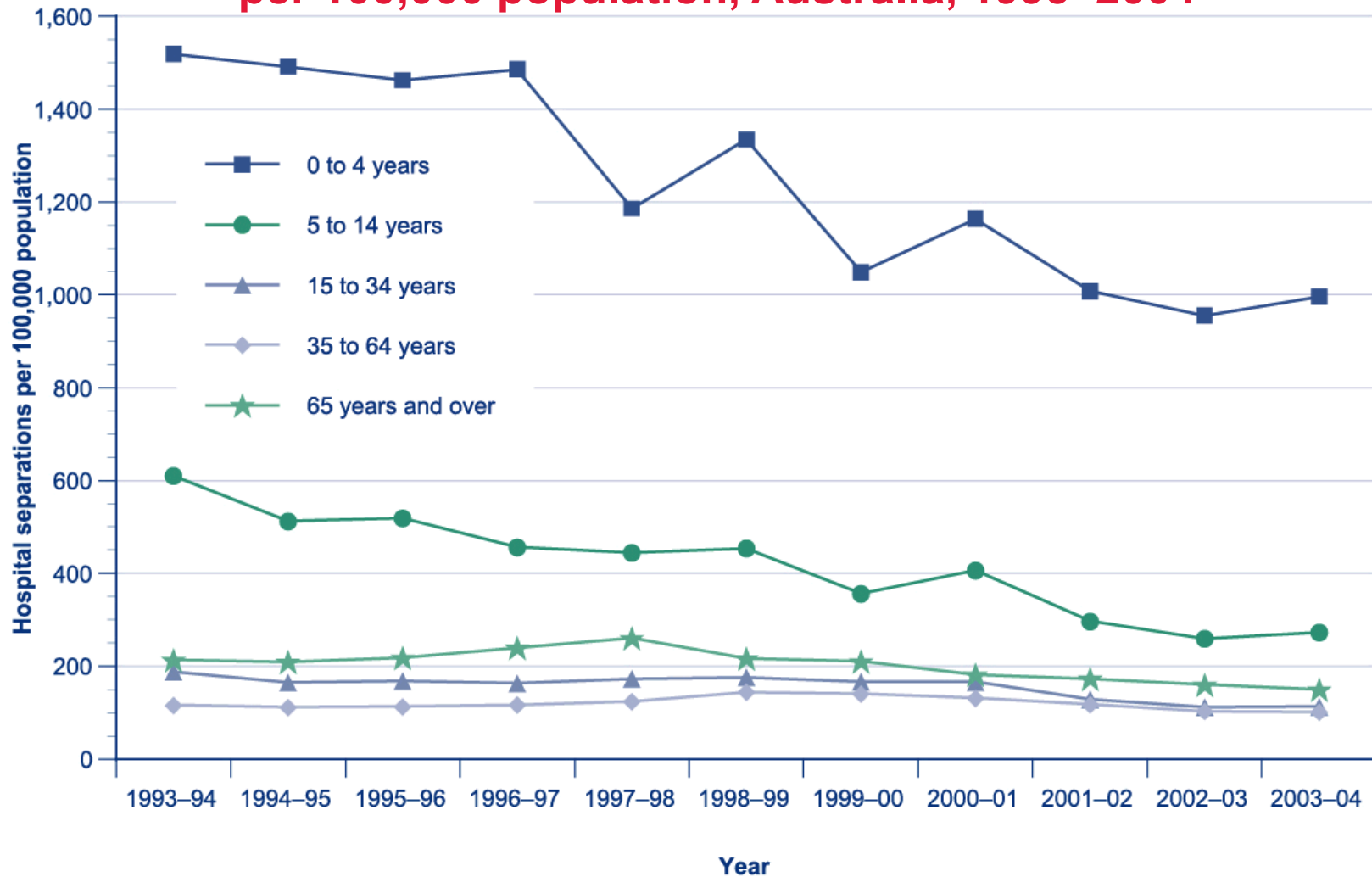
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Asthma in Australia 2005

Chapter 5.4 Hospitalisations

Hospital separations for asthma per 100,000 population, Australia, 1993–2004



Sources: AIHW NHMD; ABS.



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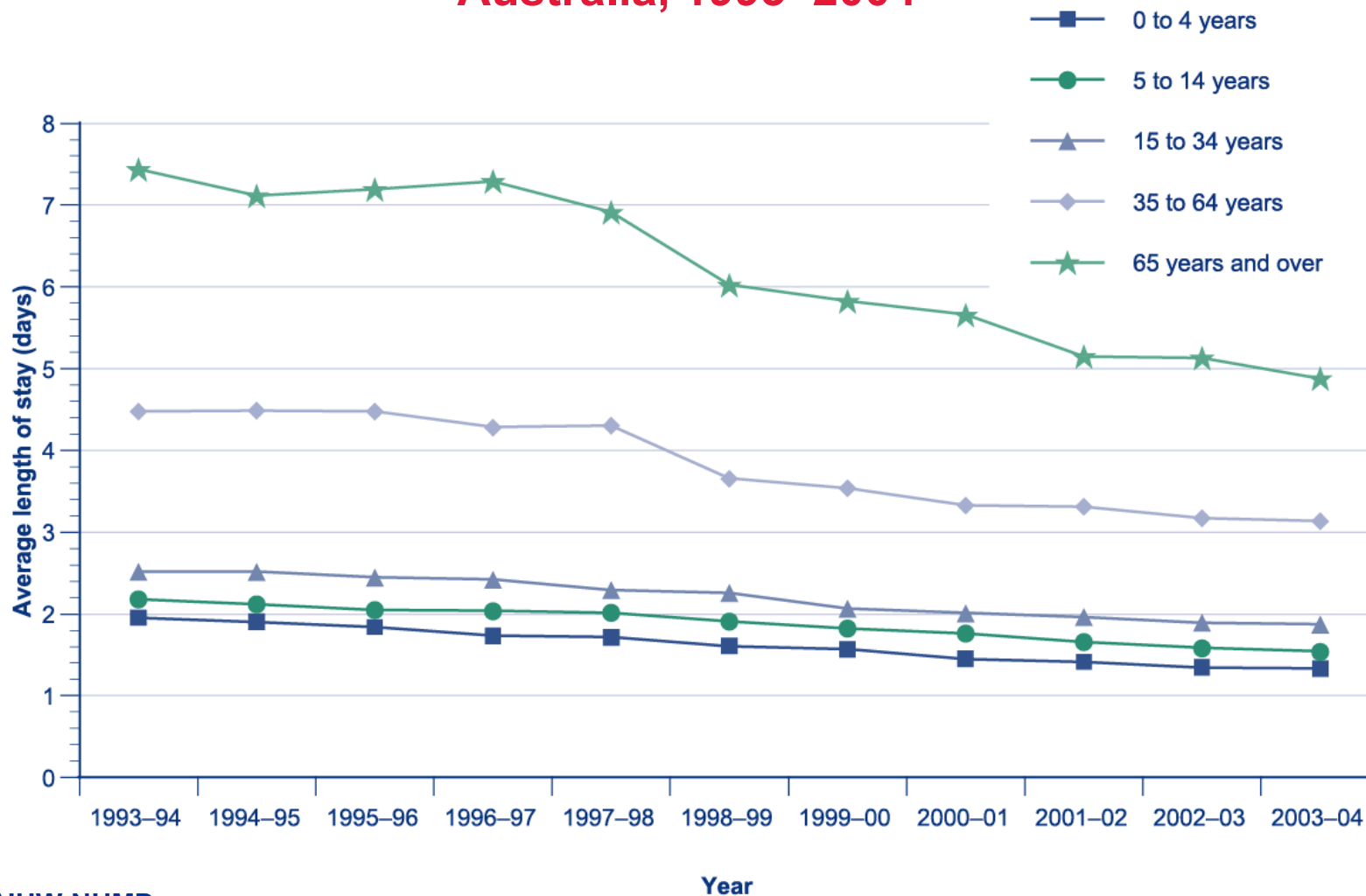
Year
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Average length of stay for asthma

Australia, 1993–2004



Source: AIHW NHMD.



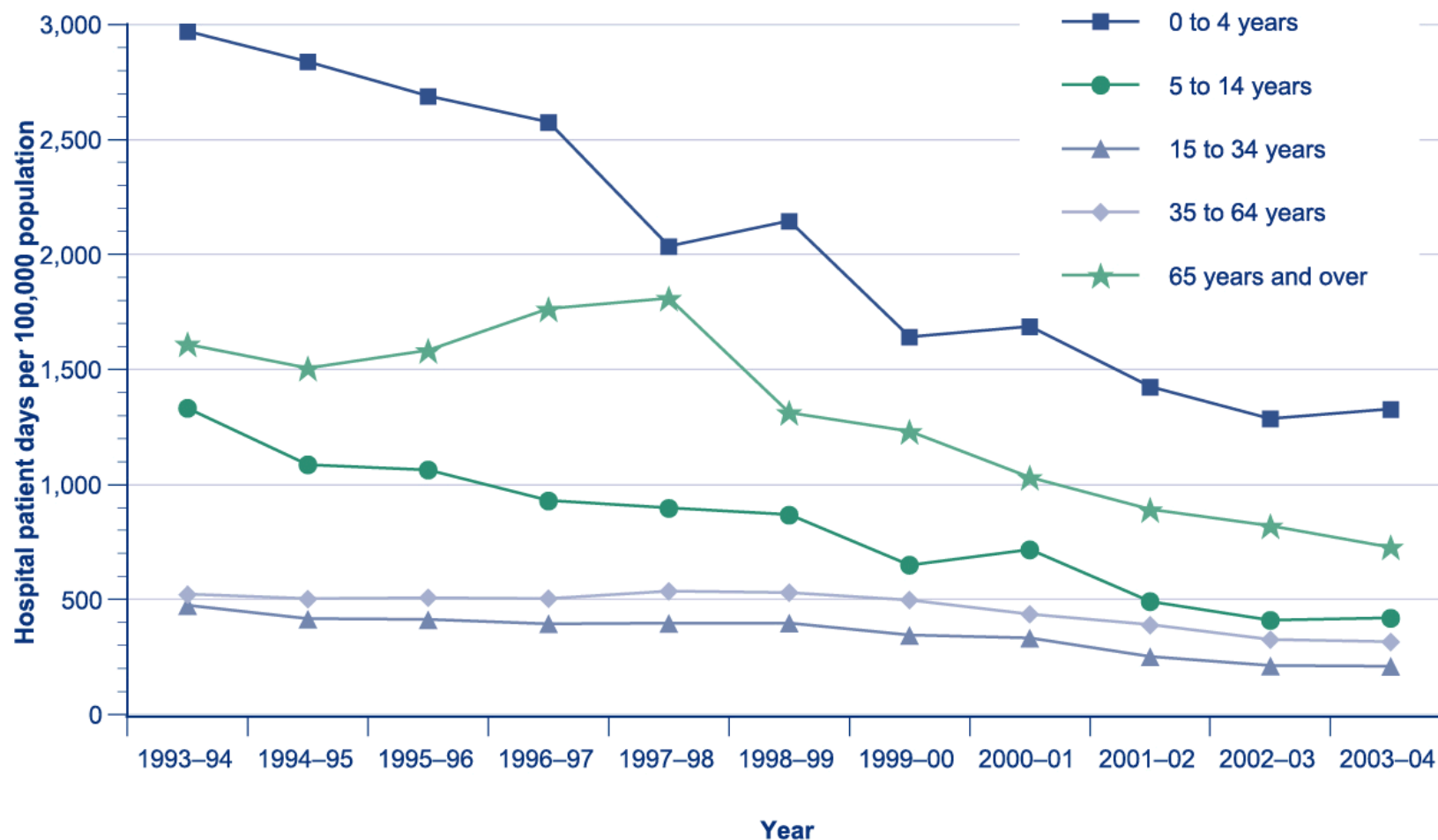
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Year
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Hospital patient days for asthma per 100,000 population, Australia, 1993–2004



Sources: AIHW NHMD; ABS.



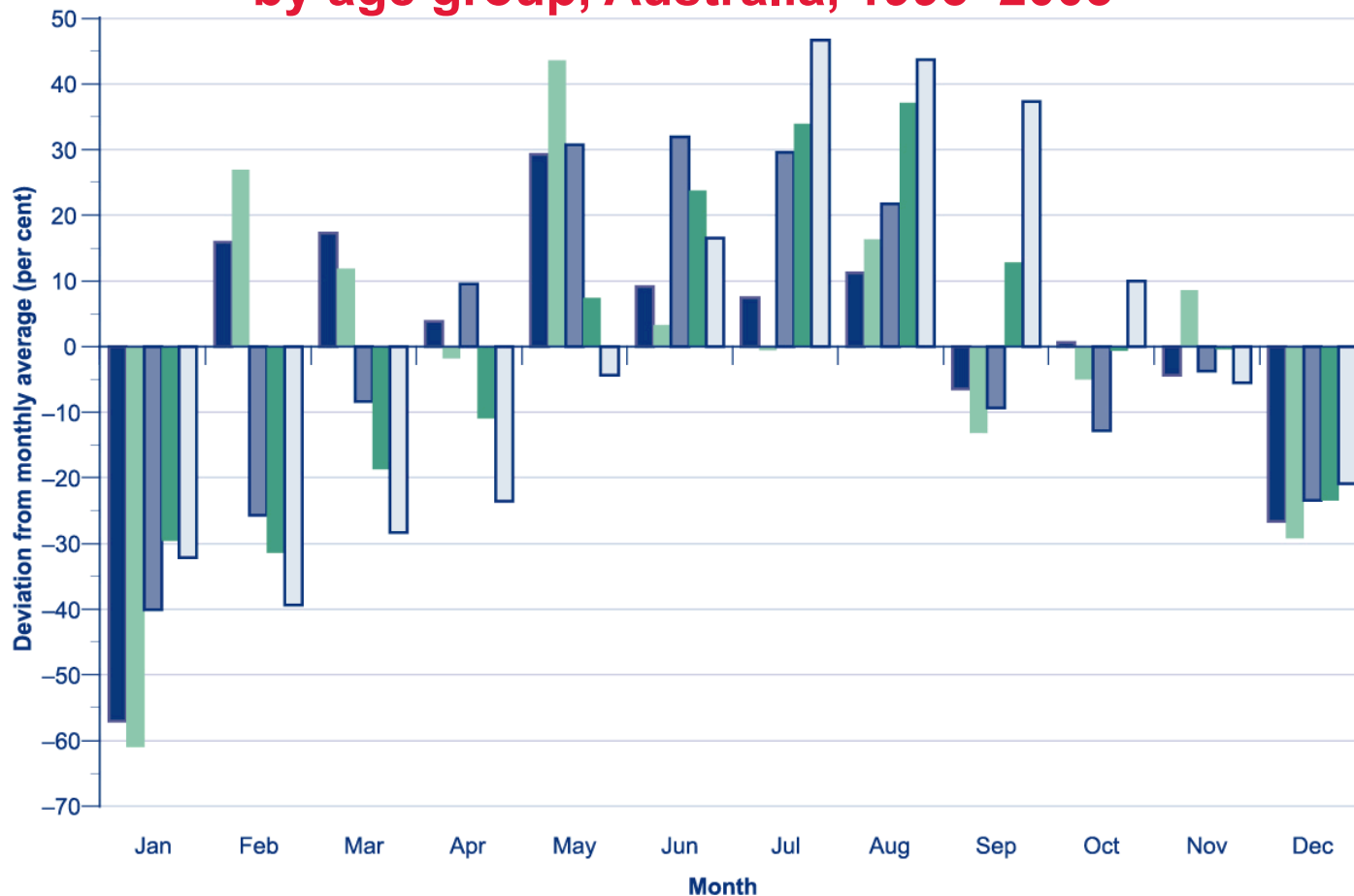
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Seasonal variation in hospital separations for asthma by age group, Australia, 1993–2003



Source: AIHW NHMD.

0 to 4 years

5 to 14 years

15 to 34 years

35 to 64 years

65 years and over



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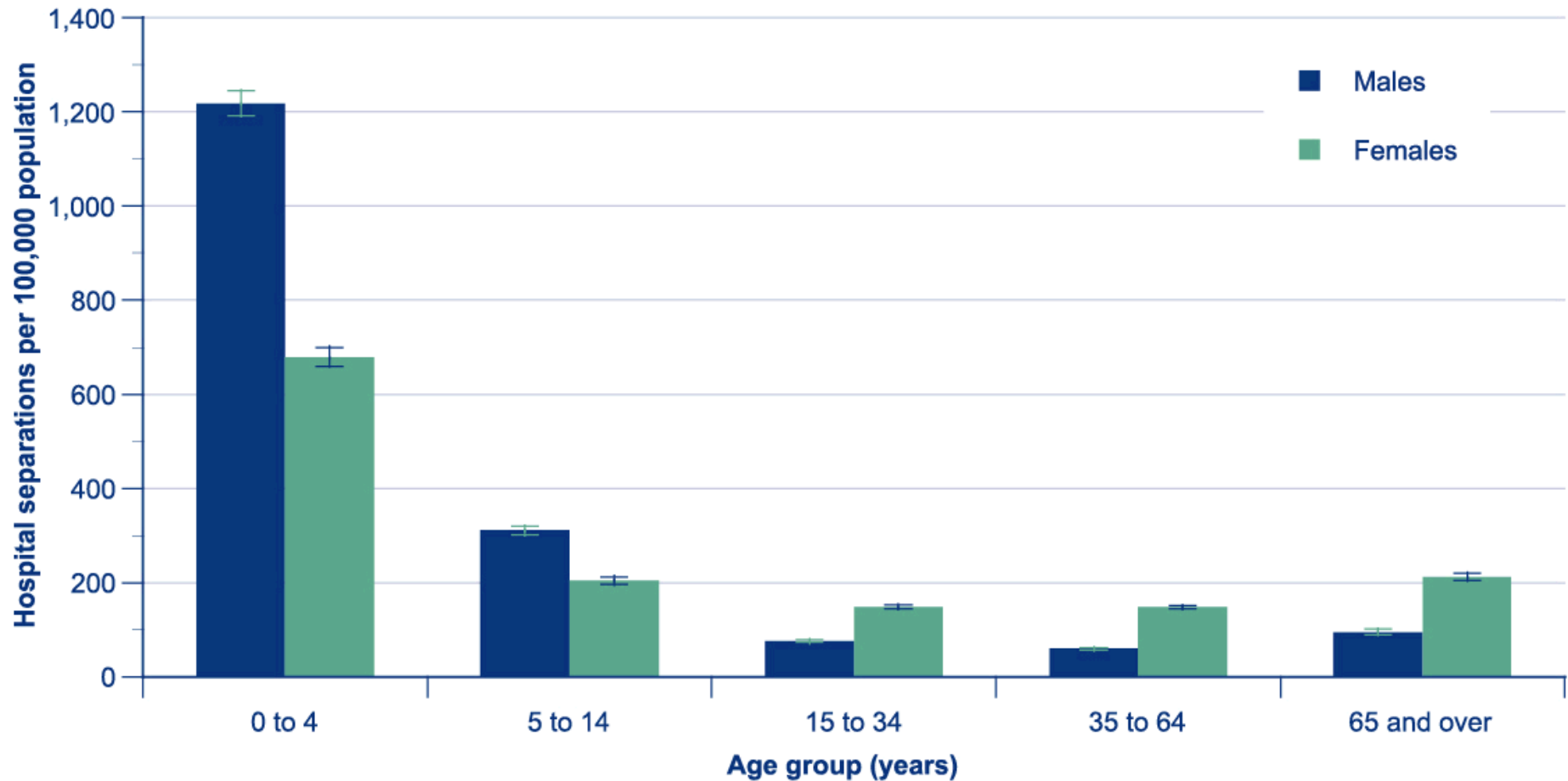
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Hospital separations for asthma by age and sex

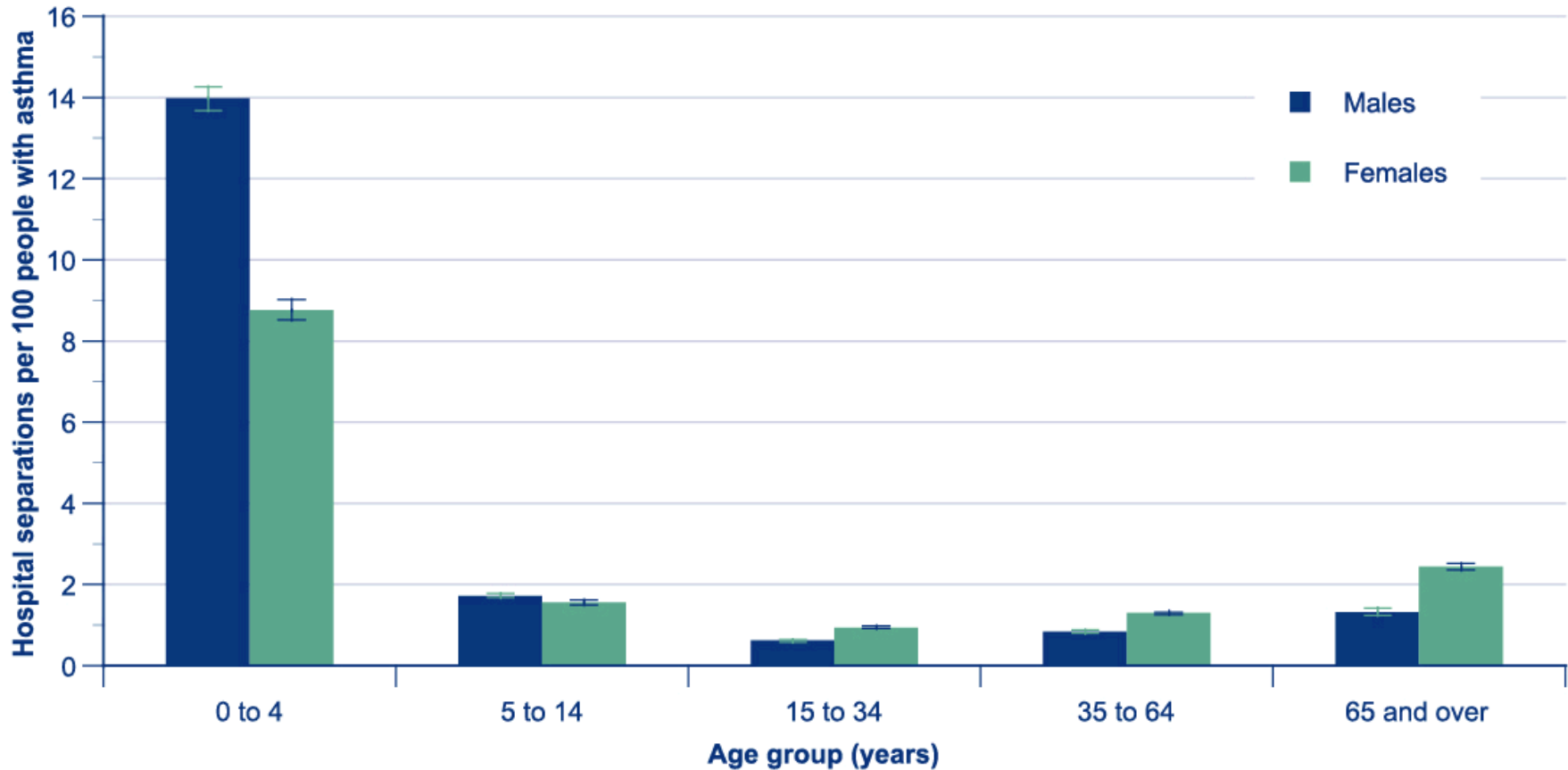
per 100,000 population, Australia, 2002–03



Sources: AIHW NHMD; ABS.

Hospital separations for asthma by age and sex

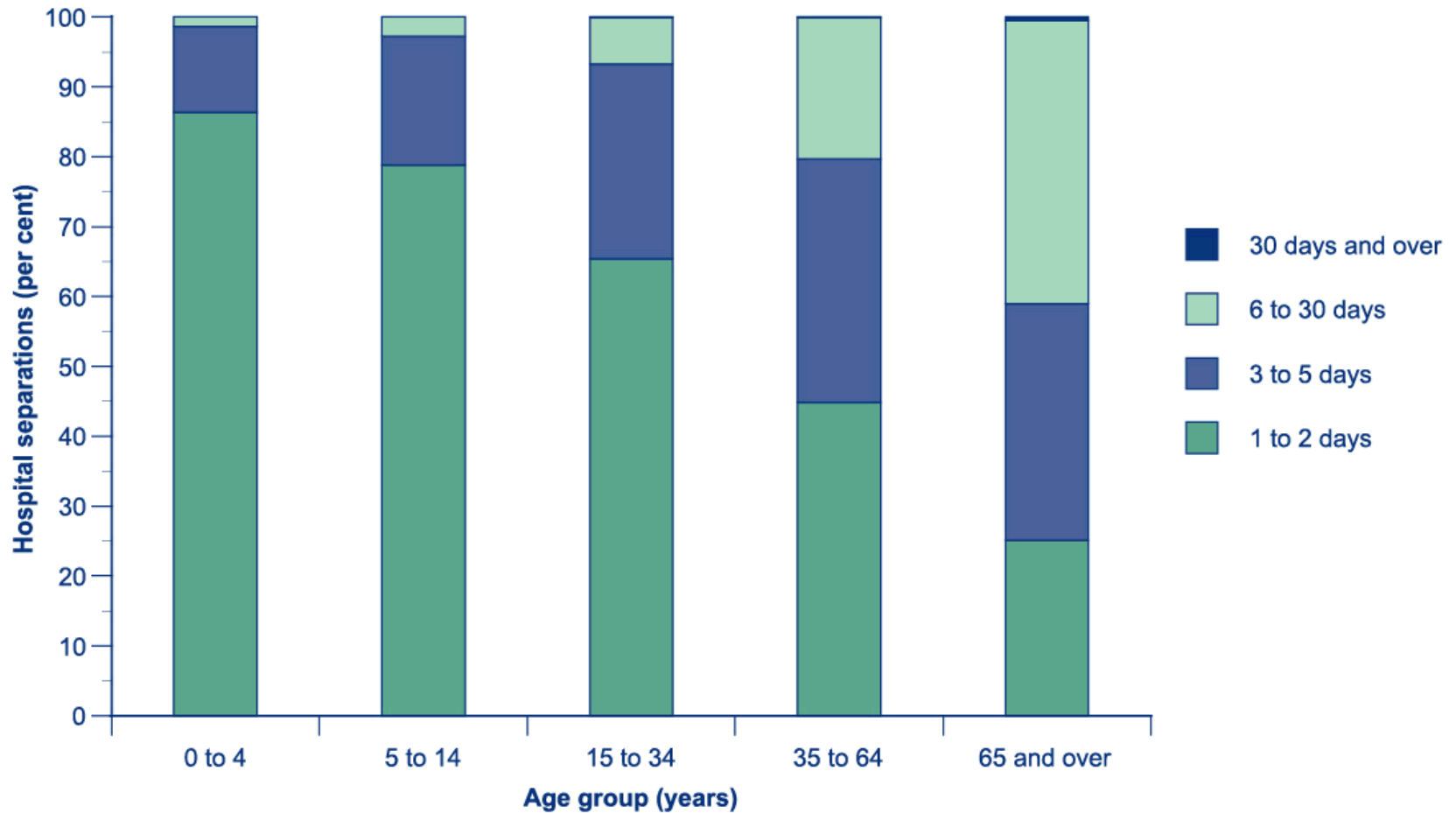
per 100 people with asthma, Australia, 2002–03



Sources: AIHW NHMD; ABS National Health Survey 2001.

Relative frequency of length of stay for asthma

by broad age group, Australia, 2002–03



Source: AIHW NHMD.



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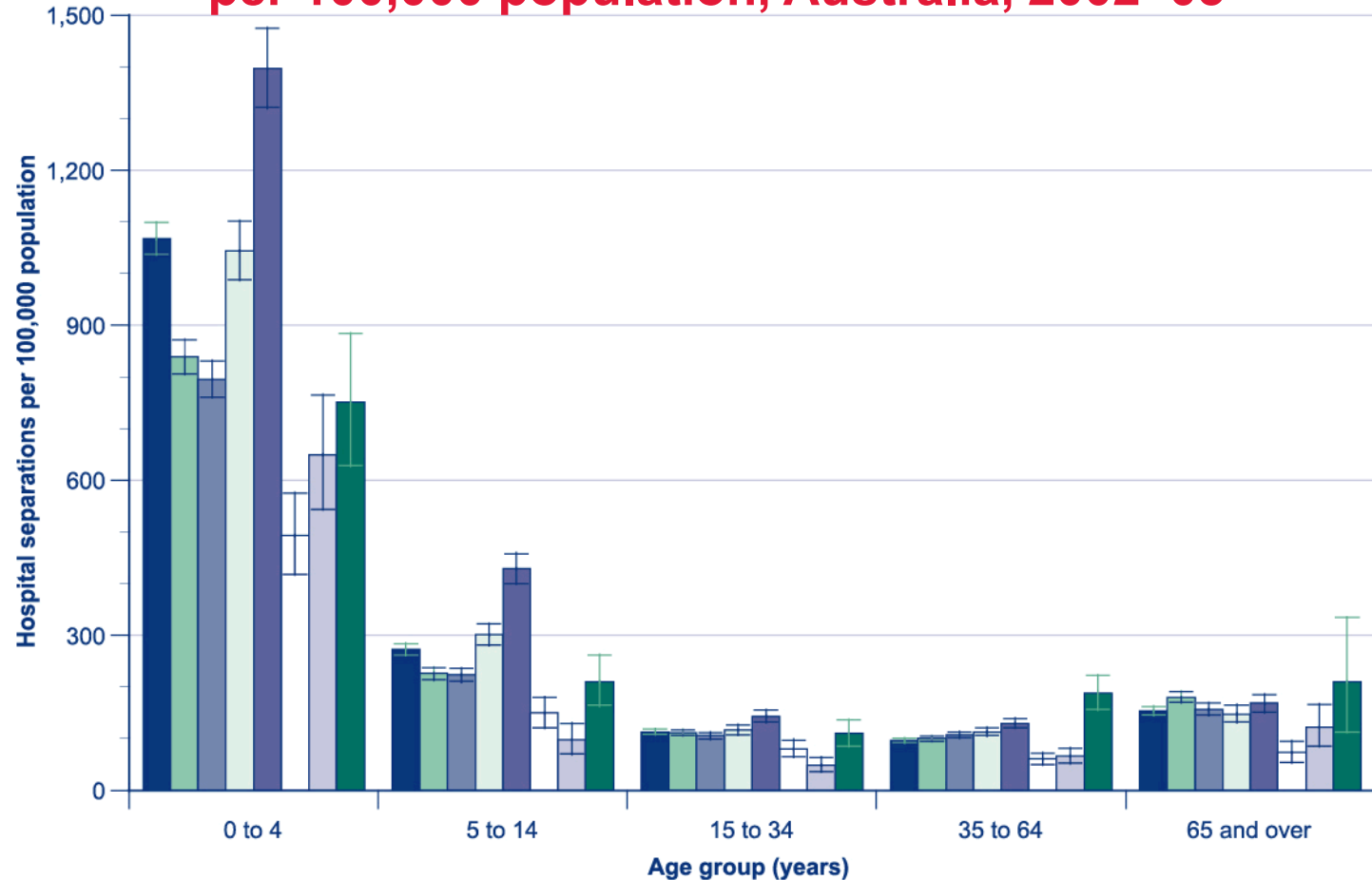
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Hospital separations for asthma by age, state and territory

per 100,000 population, Australia, 2002–03



■ NSW
 ■ Vic
 ■ Qld
 ■ WA
 ■ SA
 ■ Tas
 ■ ACT
 ■ NT

Sources: AIHW NHMD; ABS.

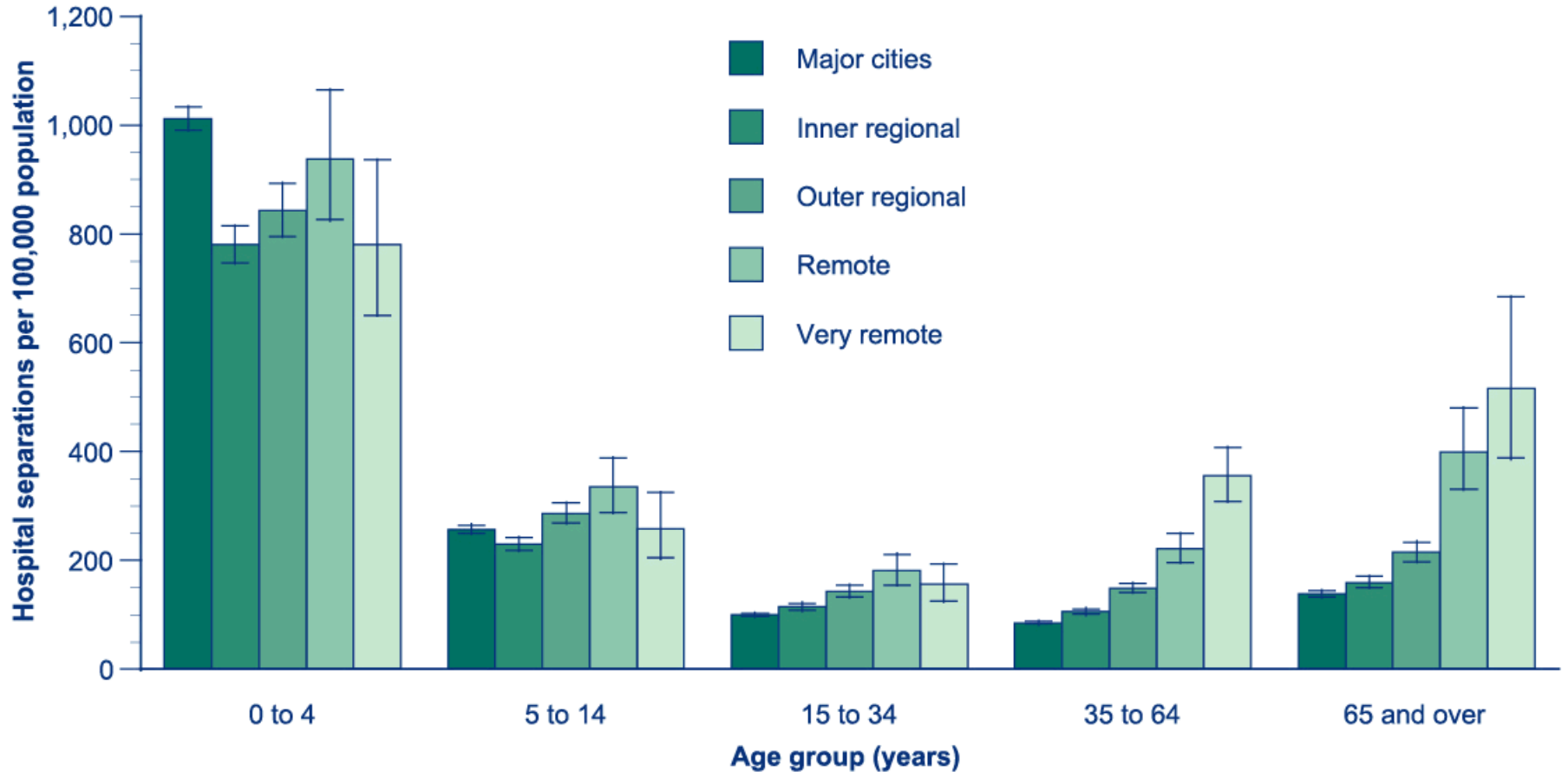


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Hospital separations for asthma by age and remoteness per 100,000 population, Australia, 2002–03



Sources: AIHW NHMD; ABS.



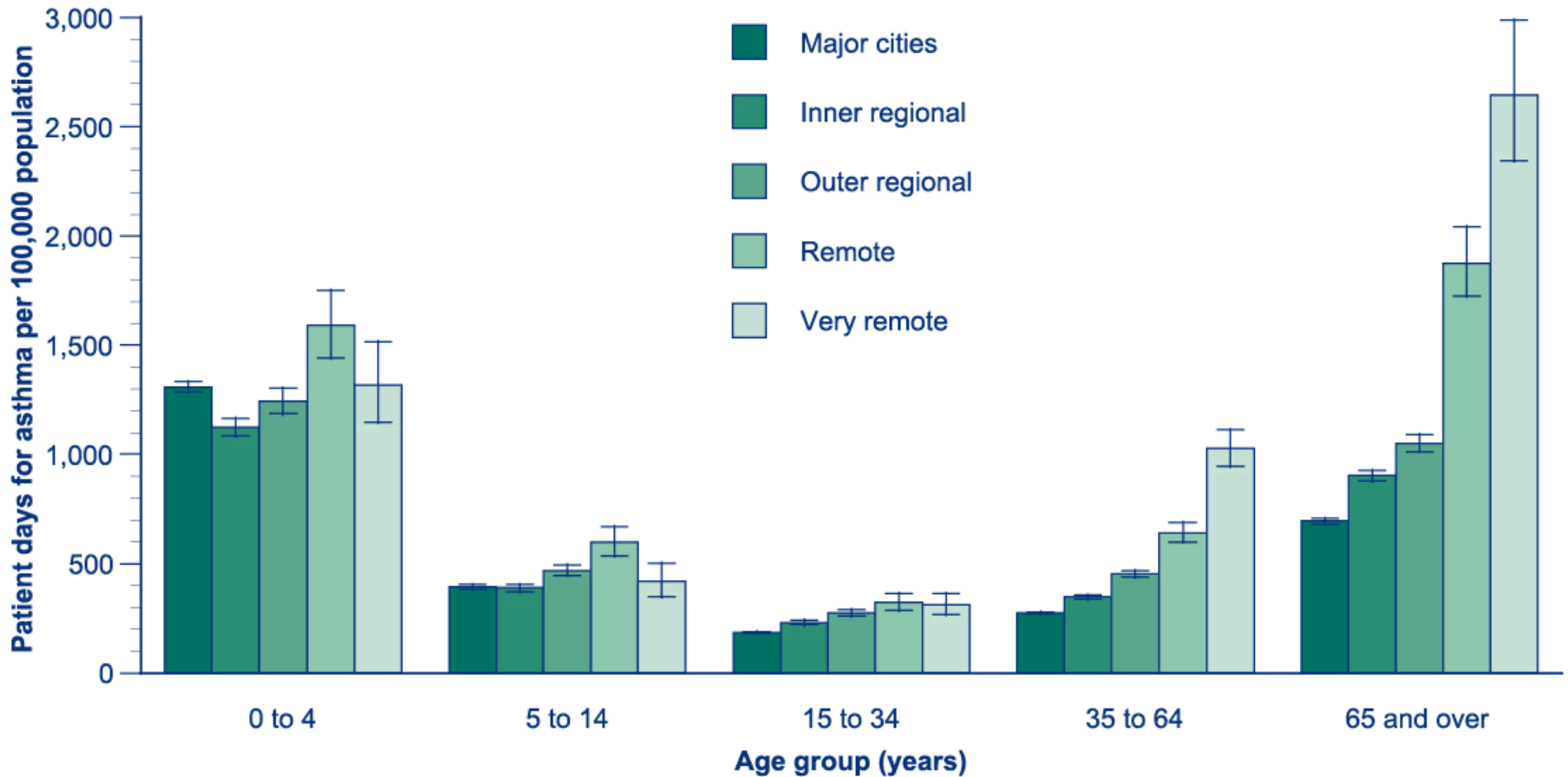
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Hospital patient days for asthma by age and remoteness per 100,000 population, Australia, 2002–03



Sources: AIHW NHMD; ABS.



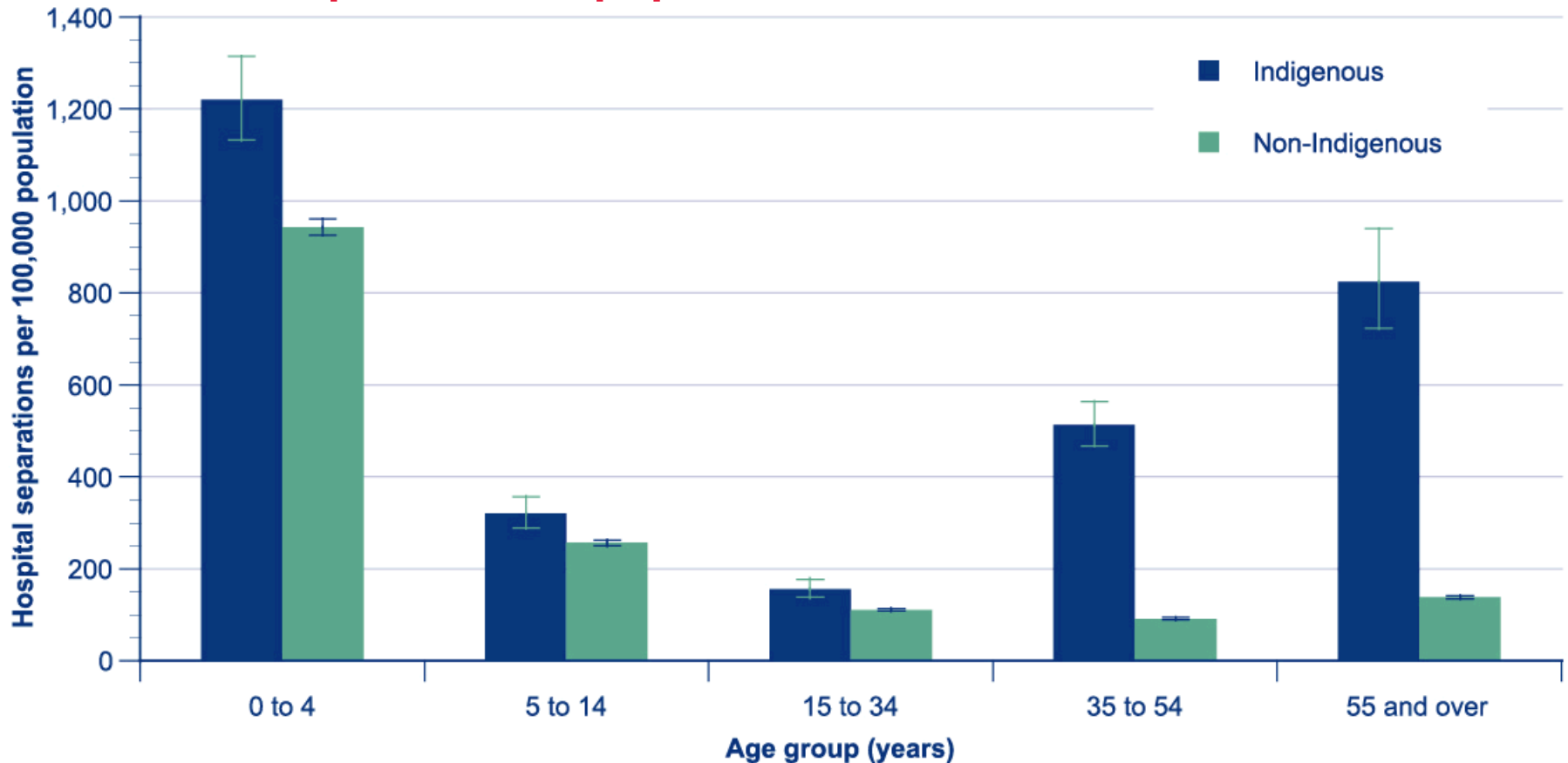
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Hospital separations for asthma by age and Indigenous status per 100,000 population, Australia, 2002–03



Sources: AIHW NHMD; ABS.



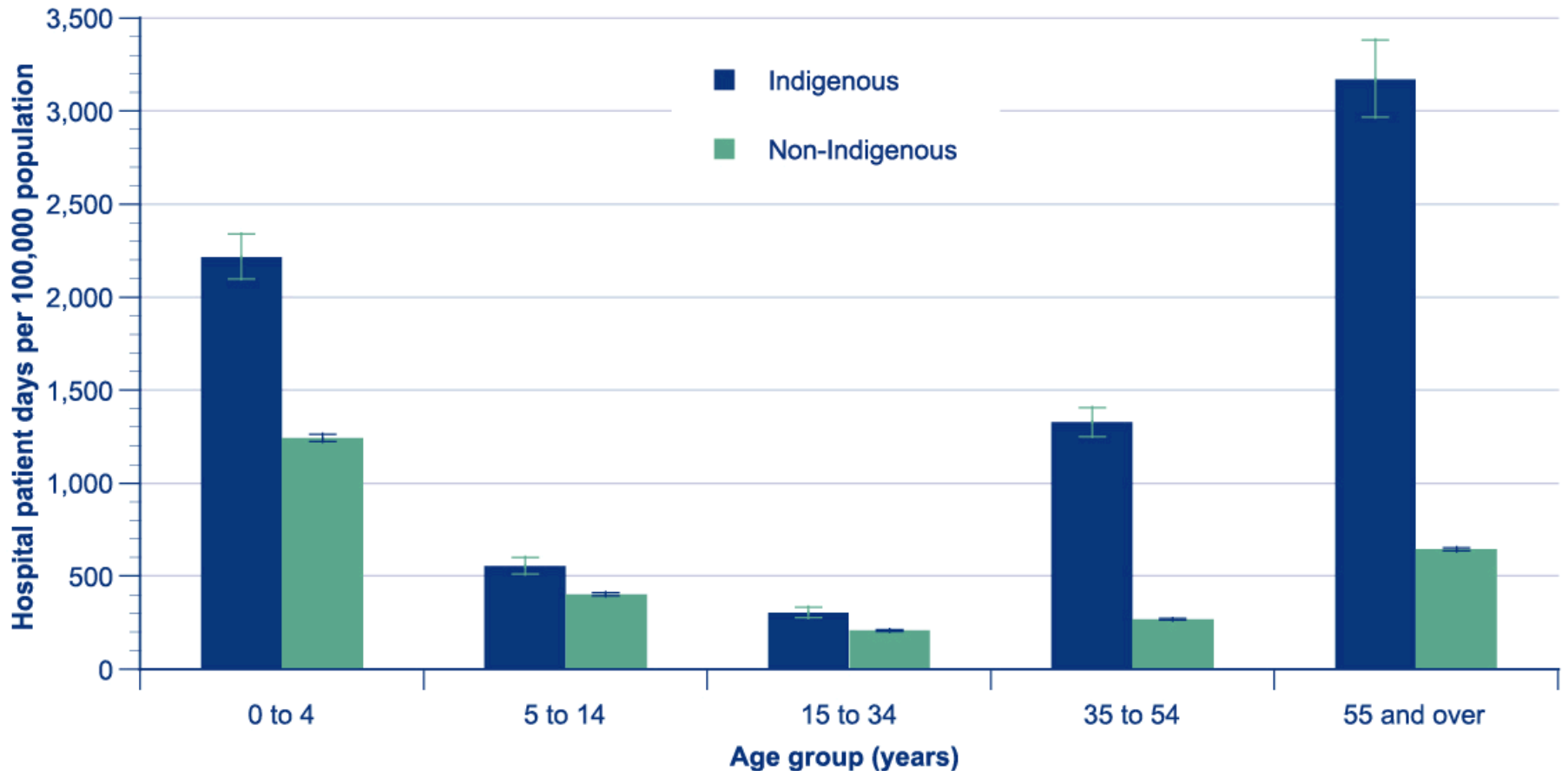
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Hospital patient days for asthma by age and Indigenous status per 100,000 population, Australia, 2002–03



Sources: AIHW NHMD; ABS.



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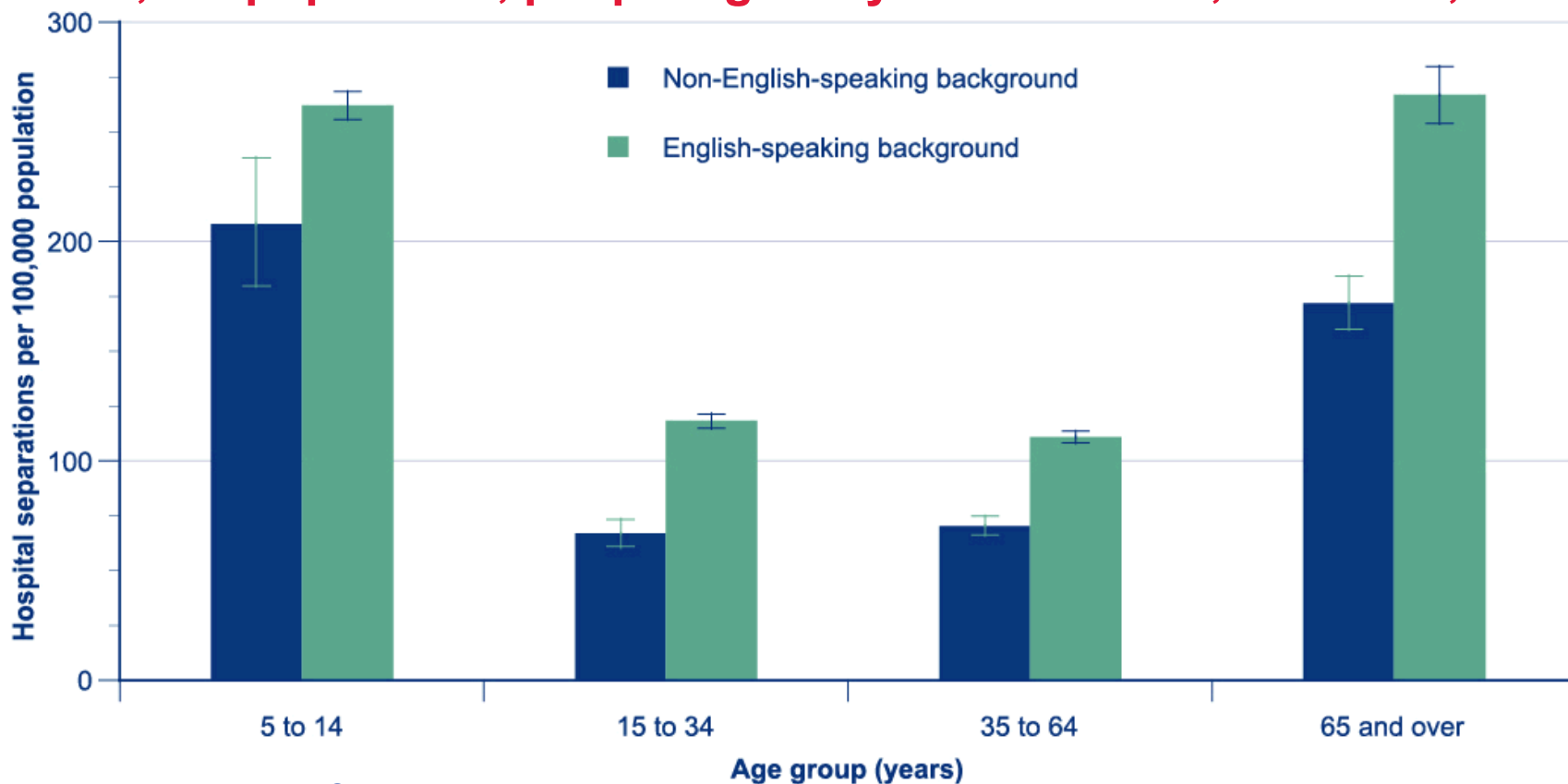
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Hospital separations for asthma by age and English-speaking versus non-English-speaking background

per 100,000 population, people aged 5 years and over, Australia, 2002–03



Sources: AIHW NHMD; ABS.



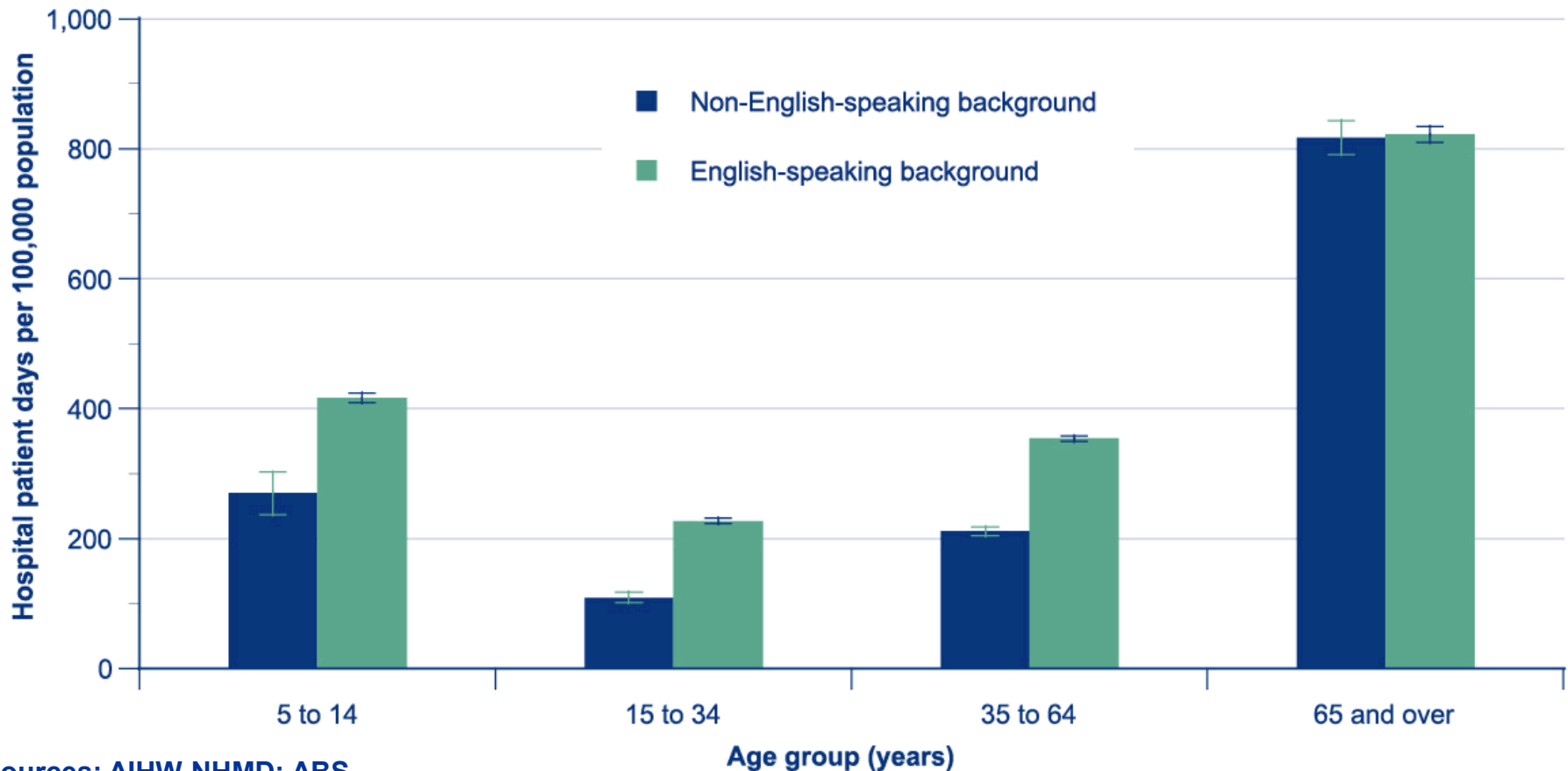
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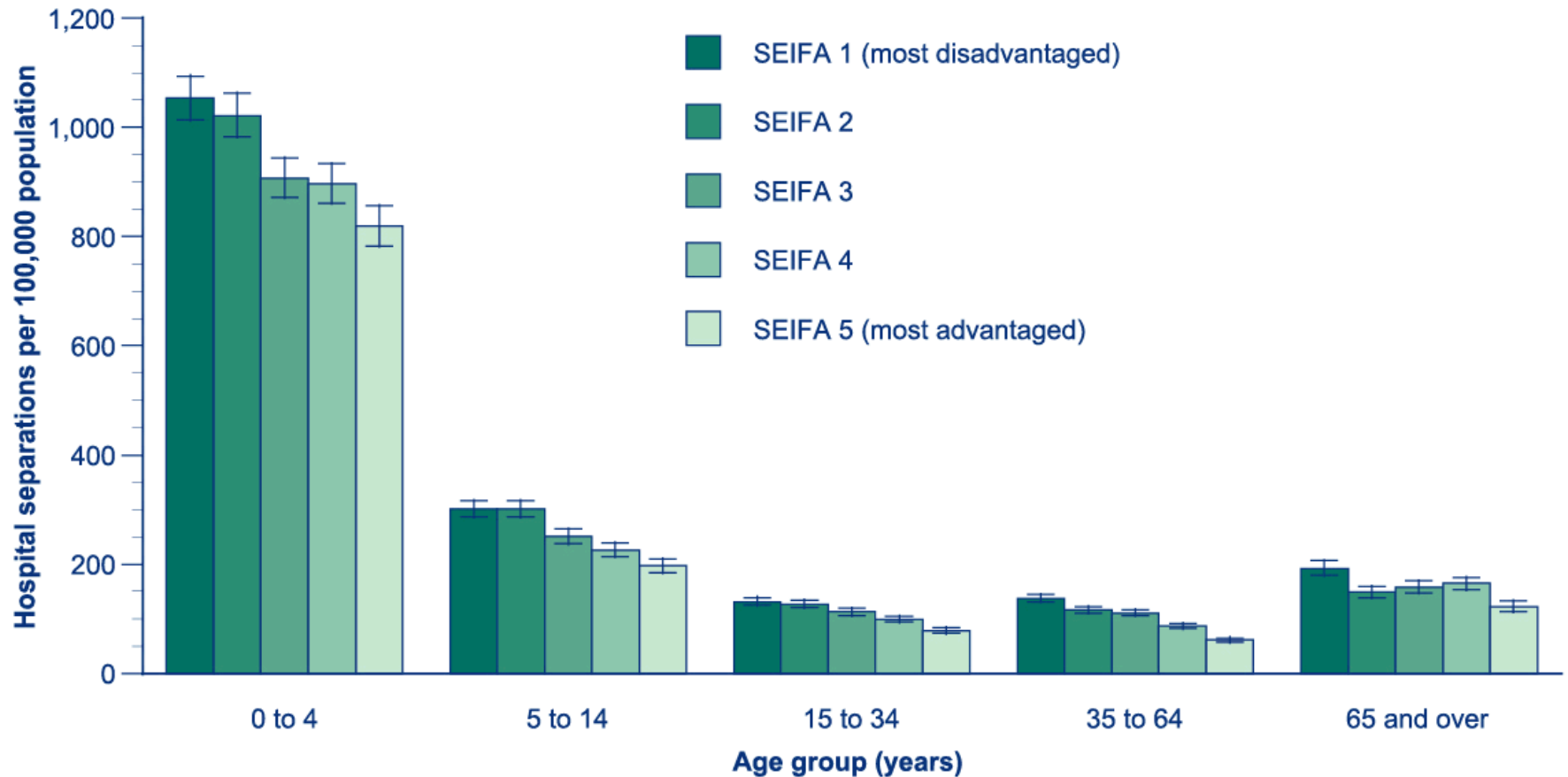
Hospital patient days for asthma by age and English-speaking versus non-English-speaking background

per 100,000 population, people aged 5 years and over, Australia, 2002–03



Sources: AIHW NHMD; ABS.

Hospital separations for asthma by age and socioeconomic status per 100,000 population, Australia, 2002–03



Sources: AIHW NHMD; ABS.



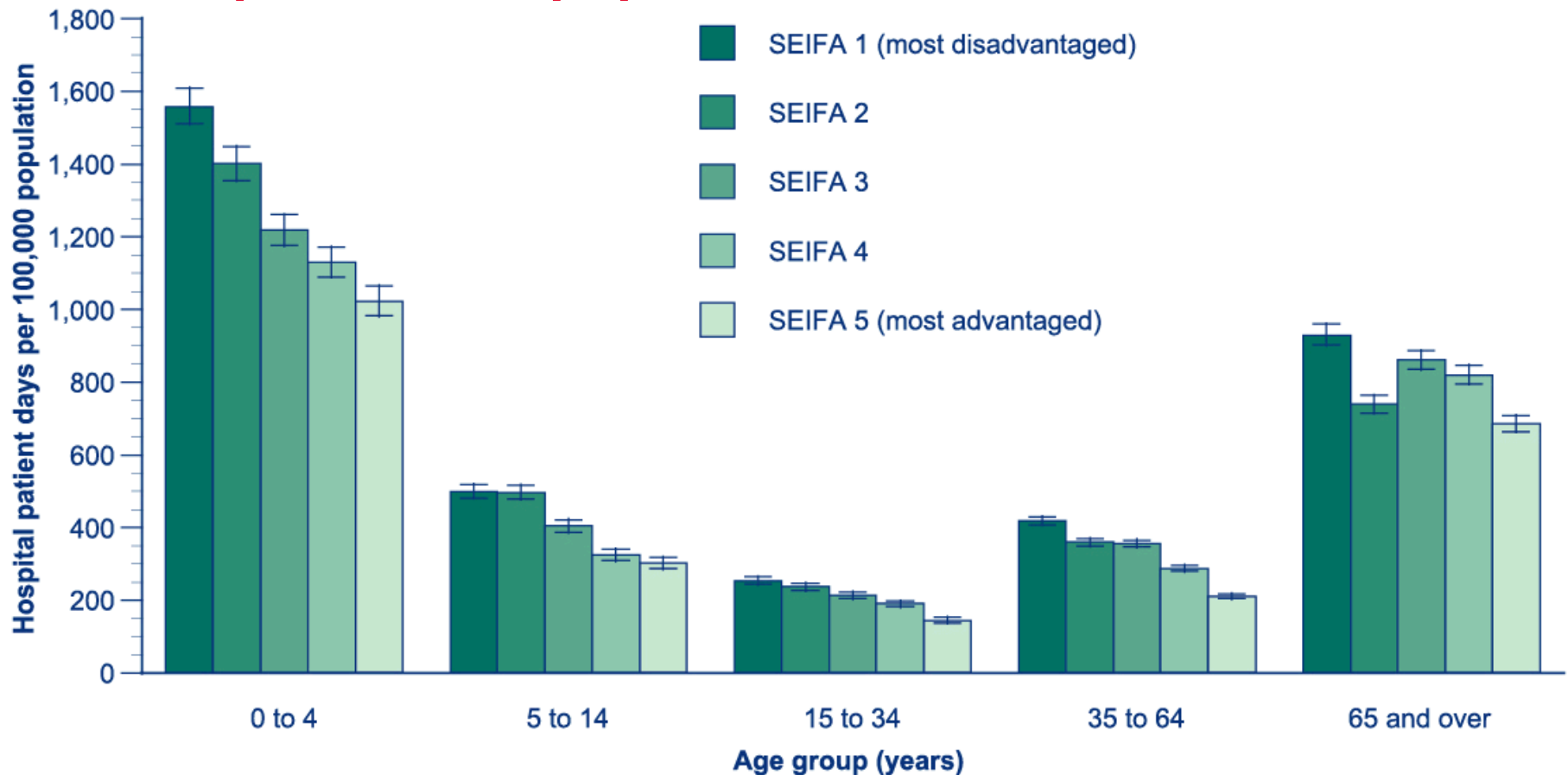
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Hospital patient days for asthma by age and socioeconomic status per 100,000 population, Australia, 2002–03



Sources: AIHW NHMD; ABS.



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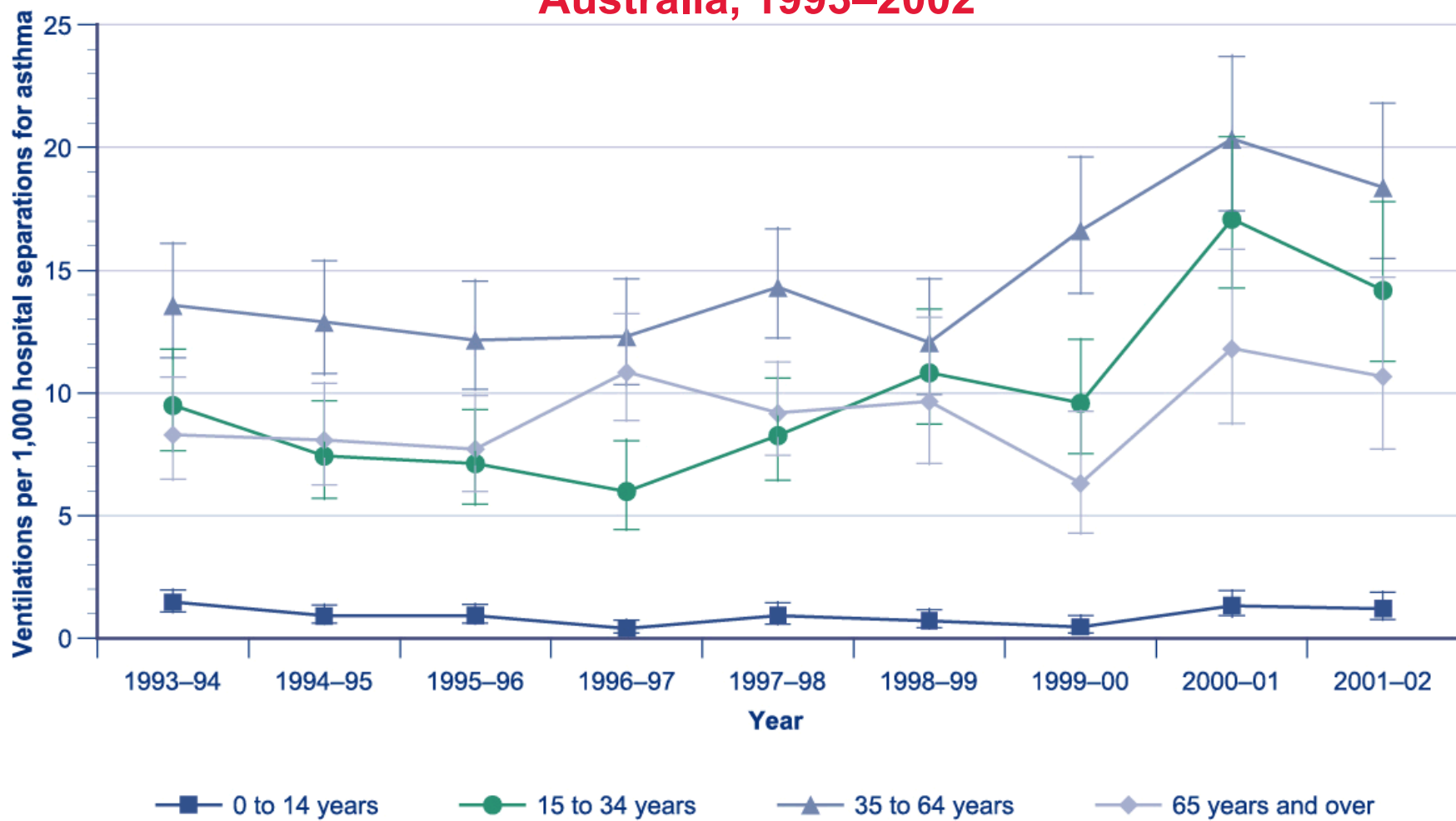
Asthma in Australia 2005

Chapter 5.5

Invasive mechanical ventilation

Proportion of hospital separations for asthma with invasive mechanical ventilation by age

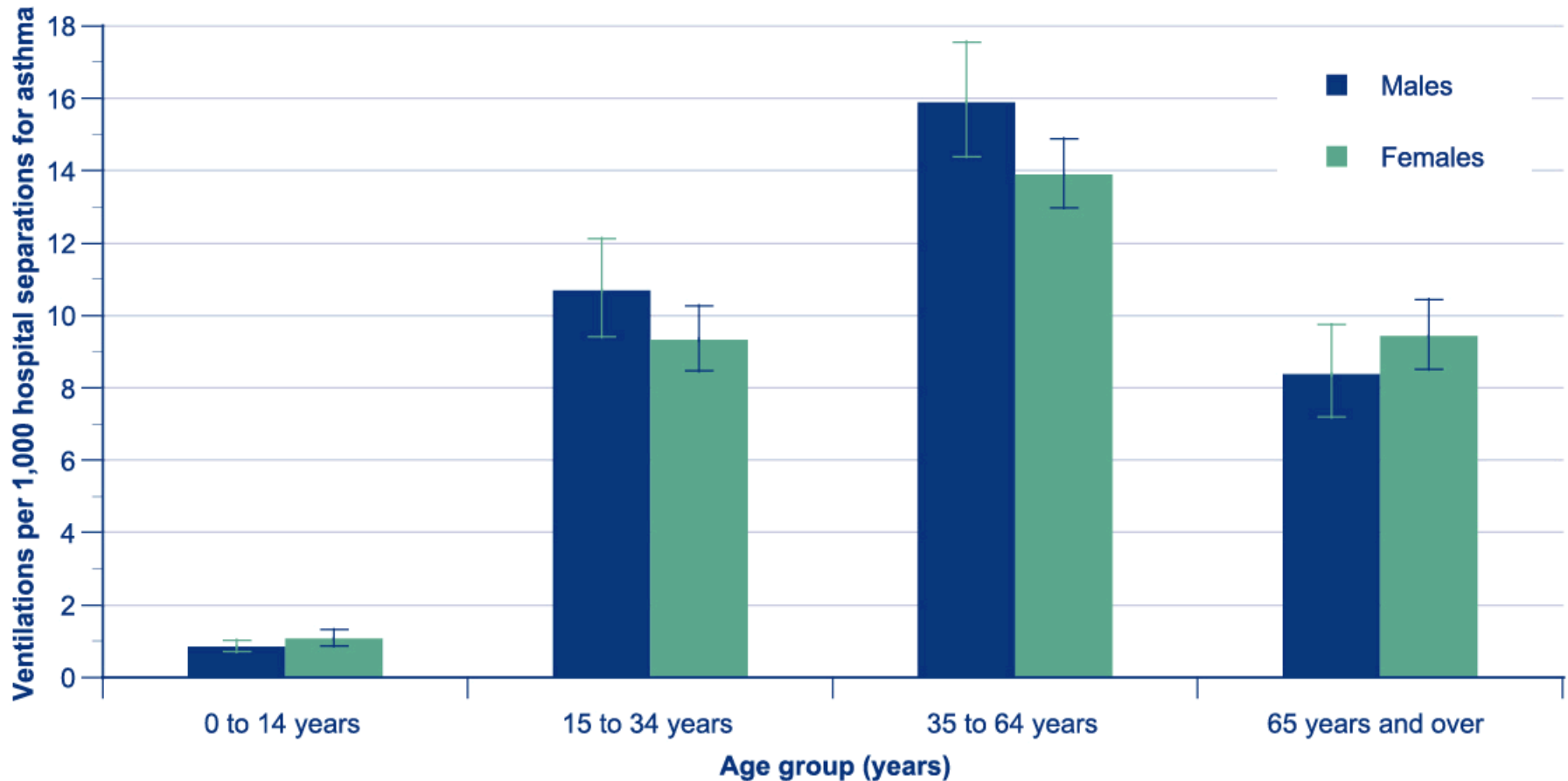
Australia, 1993–2002



Source: AIHW NHMD.

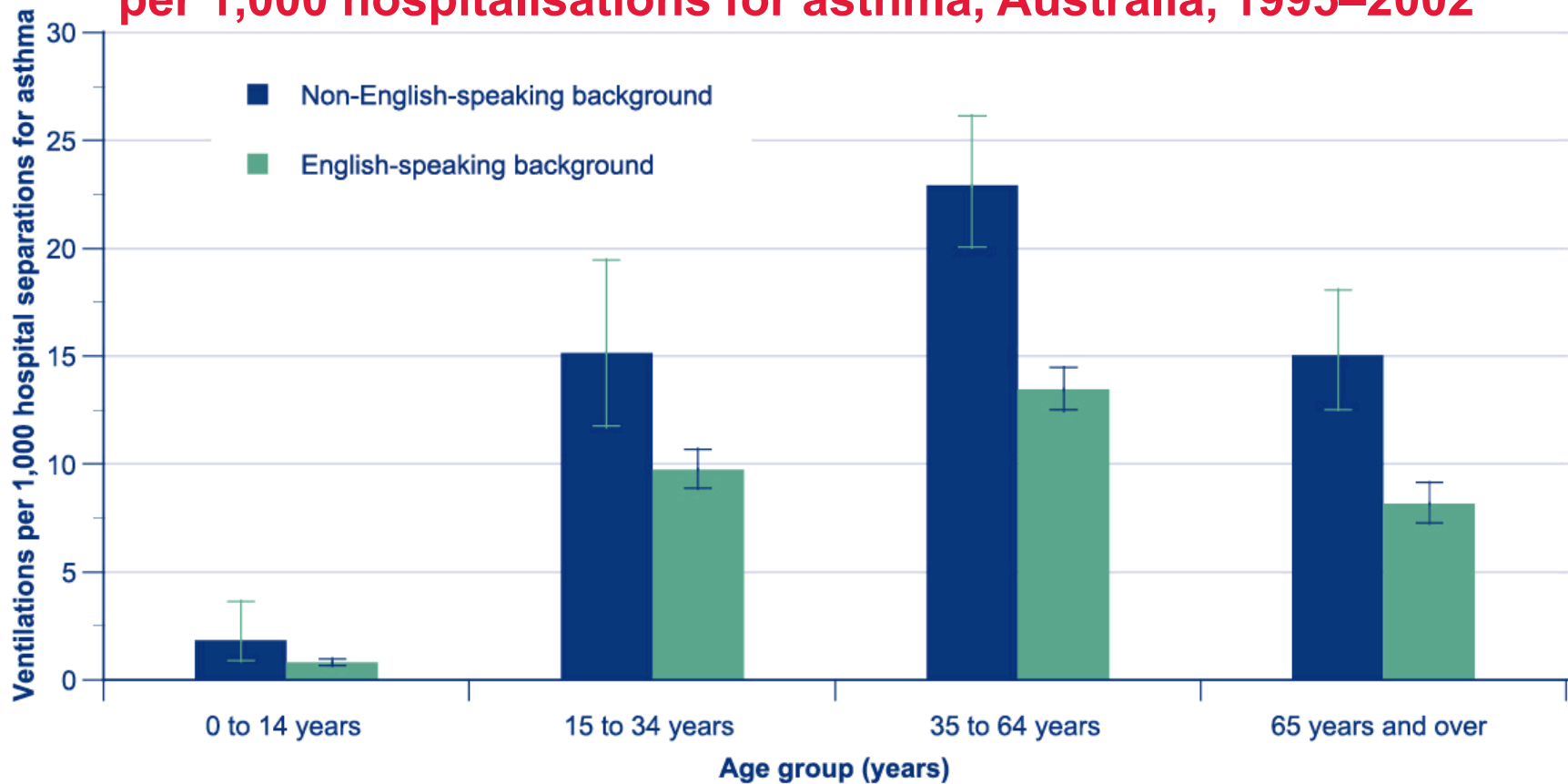
Rate of hospital separations for asthma with invasive mechanical ventilation by age & sex

Australia, 1993–2002



Source: AIHW NHMD.

Hospital separations for asthma with mechanical ventilation by age & English-speaking vs non-English-speaking background per 1,000 hospitalisations for asthma, Australia, 1995–2002



Source: AIHW NHMD.



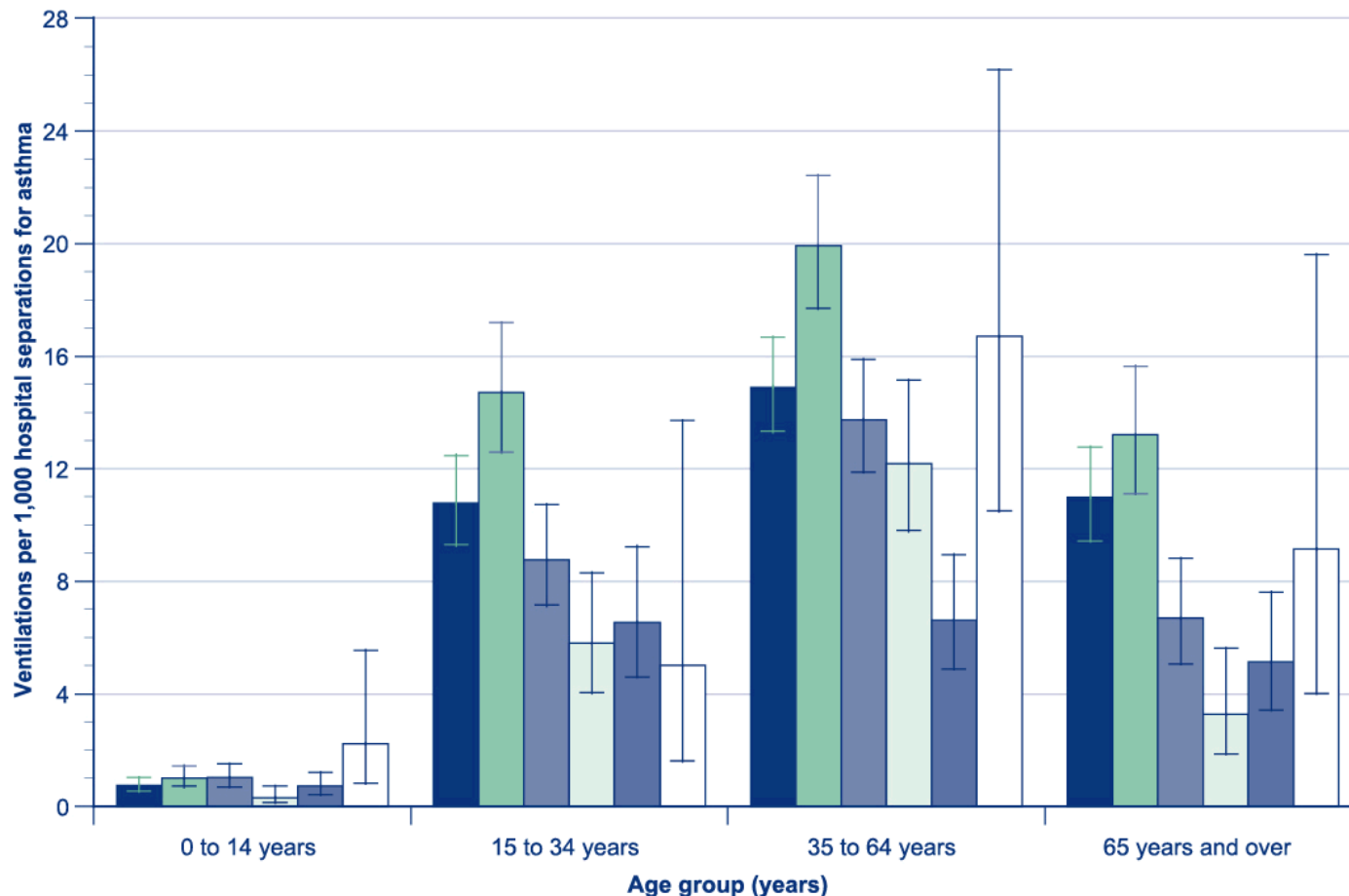
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Hospital separations for asthma with invasive mechanical ventilation by age, state and territory

per 1,000 hospitalisations for asthma, Australia, 1995–2002



Source: AIHW NHMD.

■ NSW

■ Vic

■ Qld

■ WA

■ SA

□ Tas



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Chapter 5.6

Re-attendances for asthma



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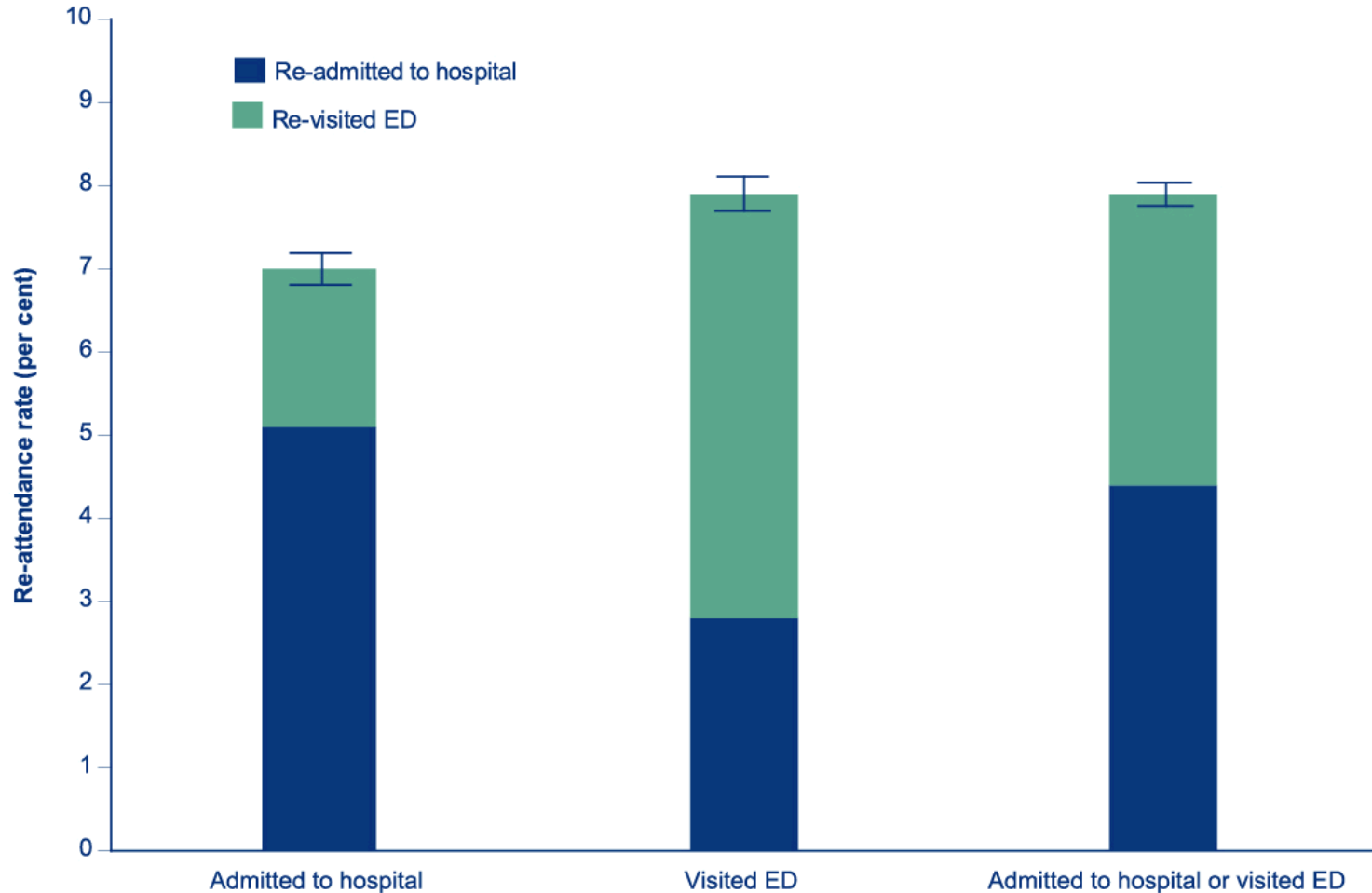
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Re-attendance rate for asthma within 28 days

NSW and Vic, 2000–03



Sources: NSW ISC; NSW EDDC; VAED; VEMD.

Initial (index) health service

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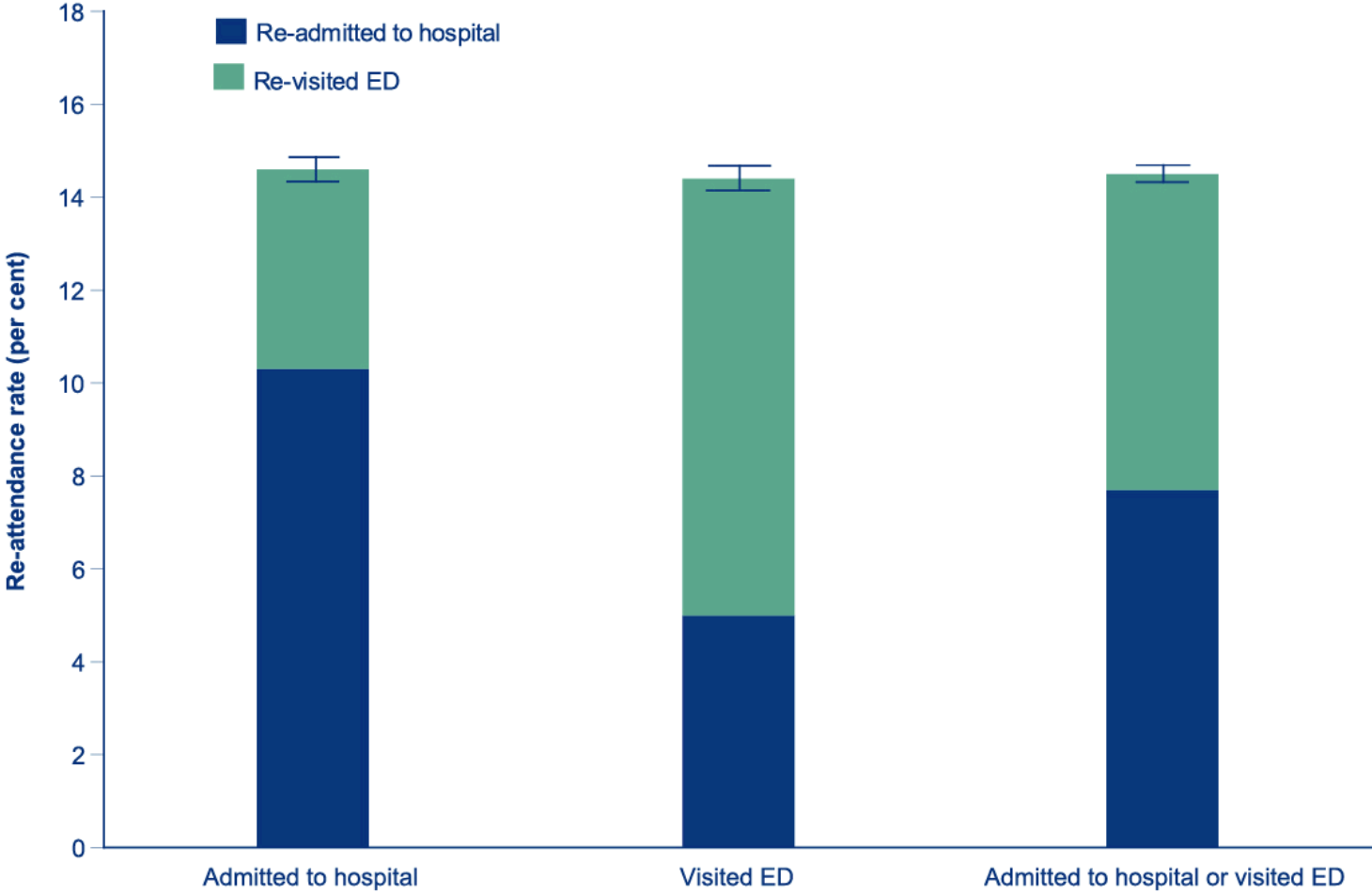
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Re-attendance rate for asthma within 3 months

NSW and Vic, 2000–03

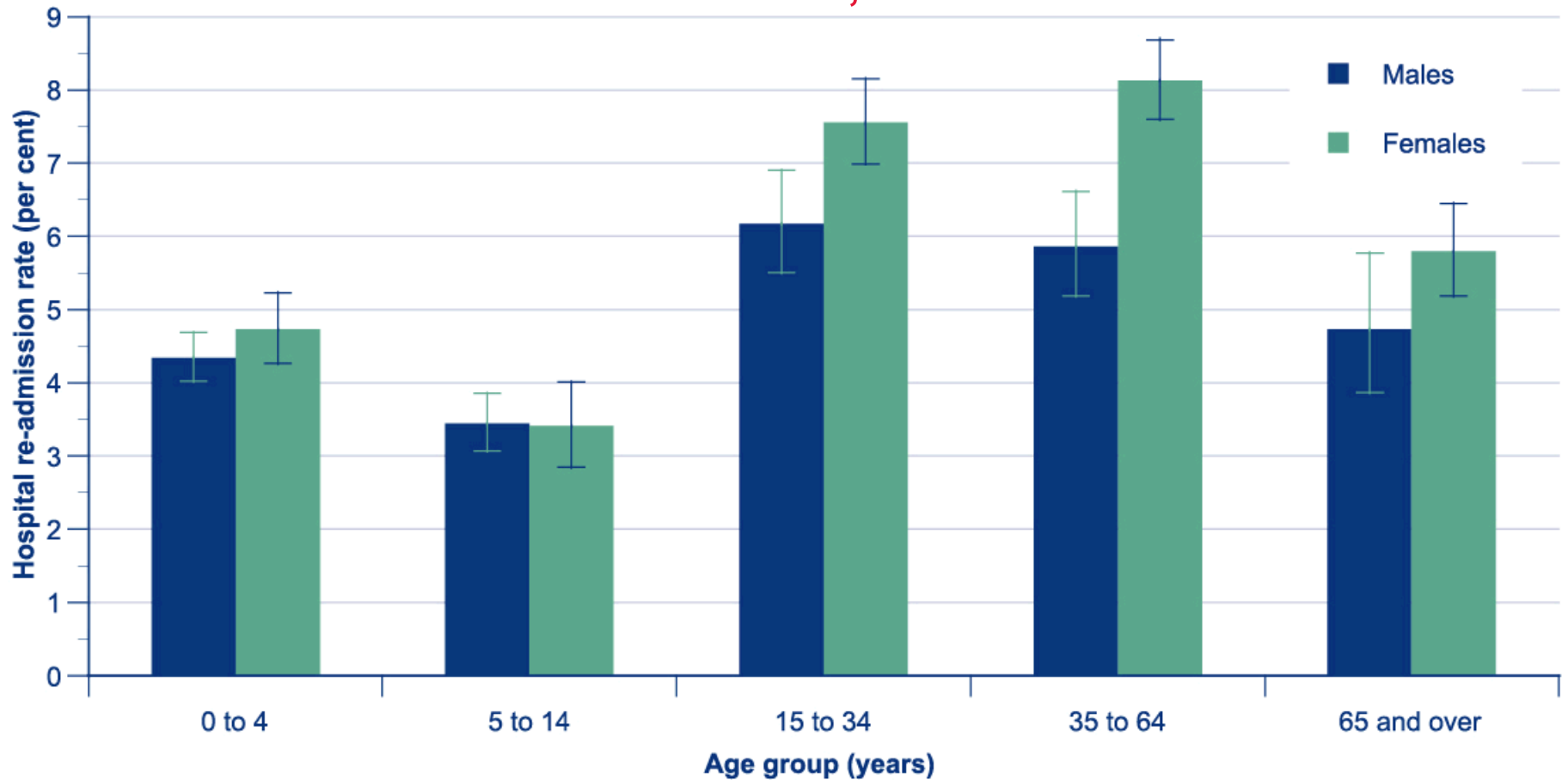


Sources: NSW ISC; NSW EDDC; VAED; VEMD.

Initial (index) health service

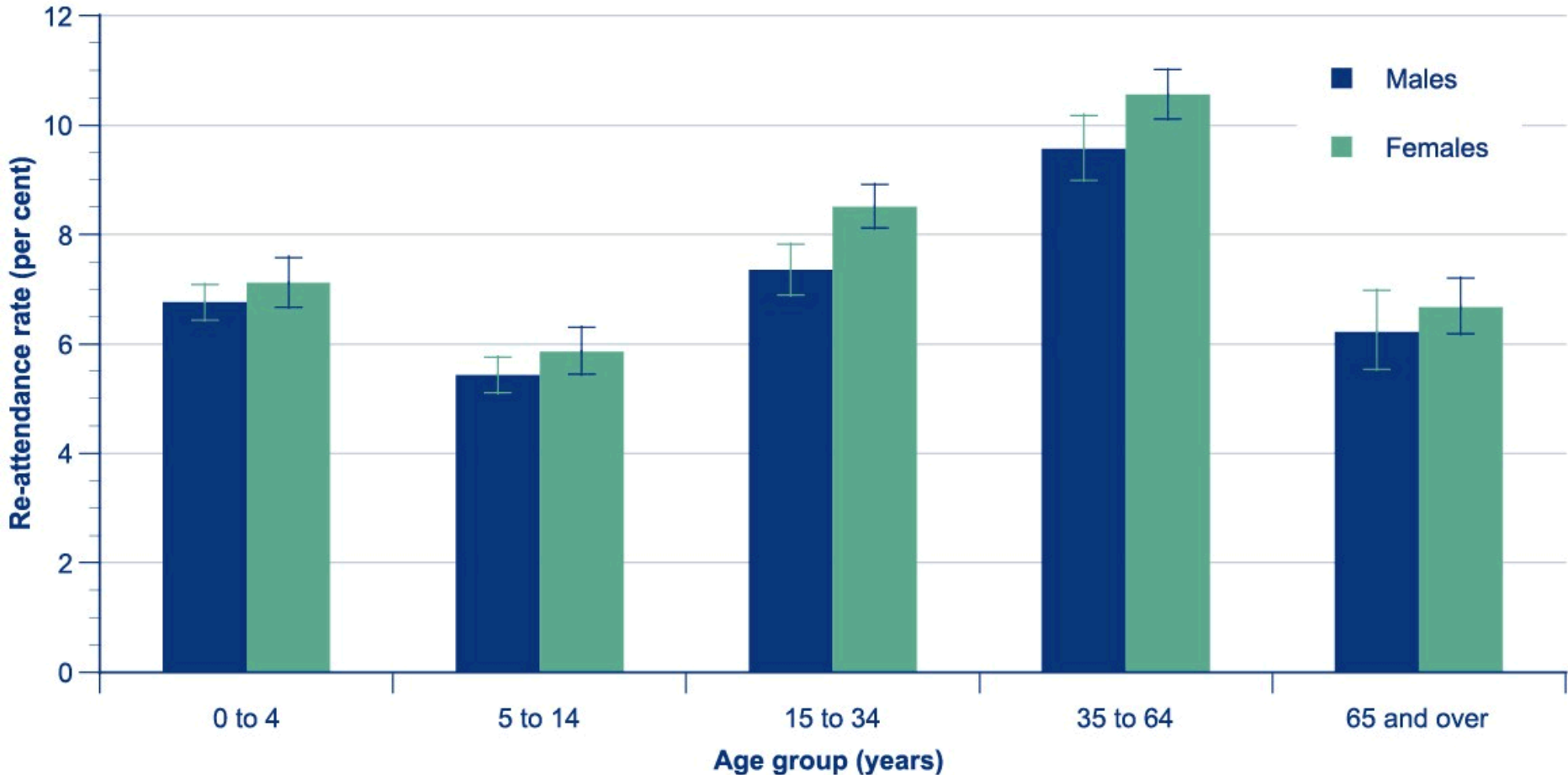
Hospital re-admission rate for asthma within 28 days by age and sex

NSW and Vic, 2000–03



Sources: NSW ISC; VAED.

Re-attendance rate for asthma within 28 days by age and sex NSW and Vic, 2000–03



Sources: NSW ISC; NSW EDDC; VAED; VEMD.

Asthma in Australia 2005

Chapter 6 Management

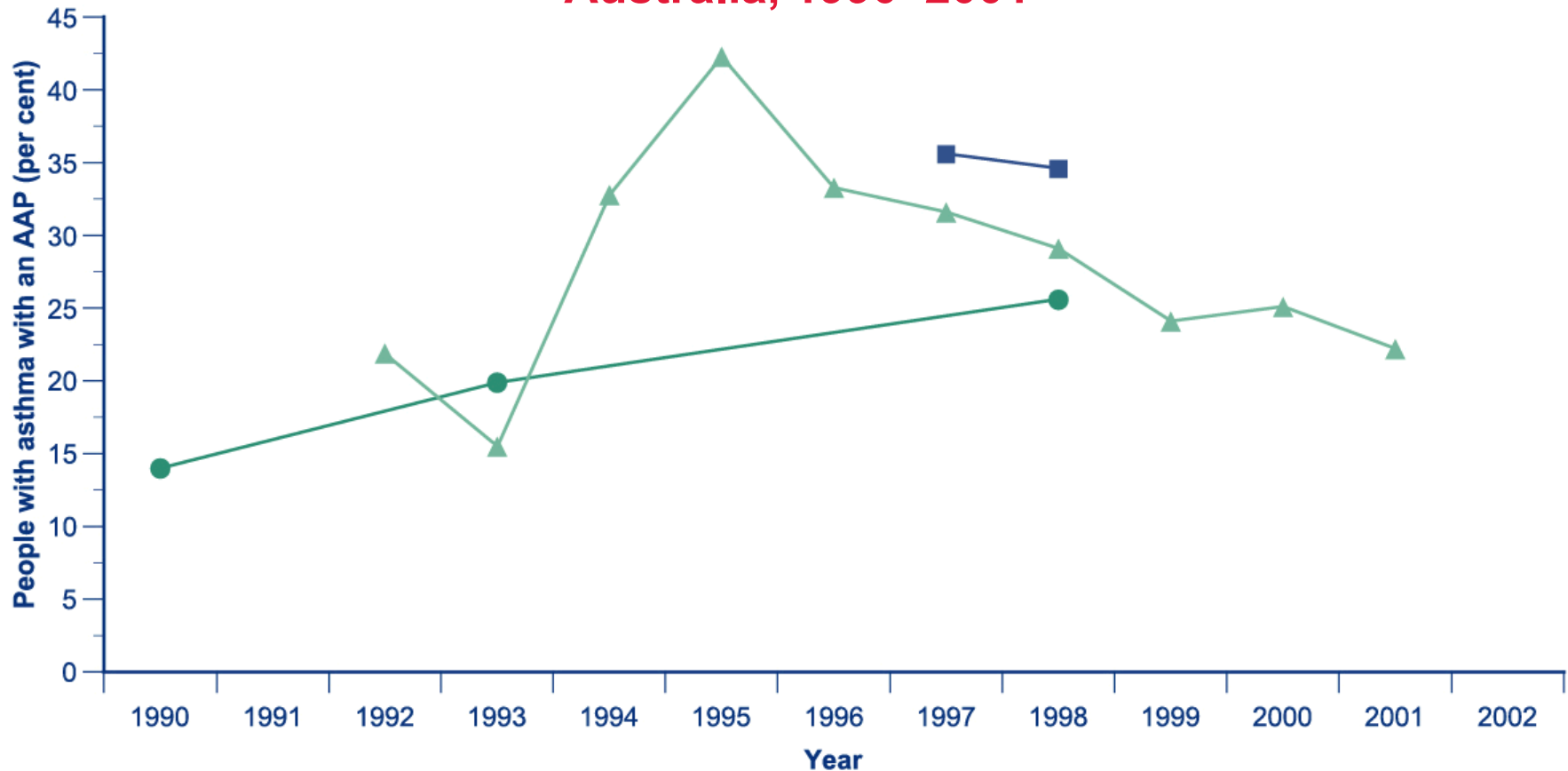
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Chapter 6.2

Written asthma action plans

Possession of written asthma action plans: adults with current asthma

Australia, 1990–2001



■ NSW, 16 years and over

● Eastern Australia, <50 years

▲ SA, 15 years and over



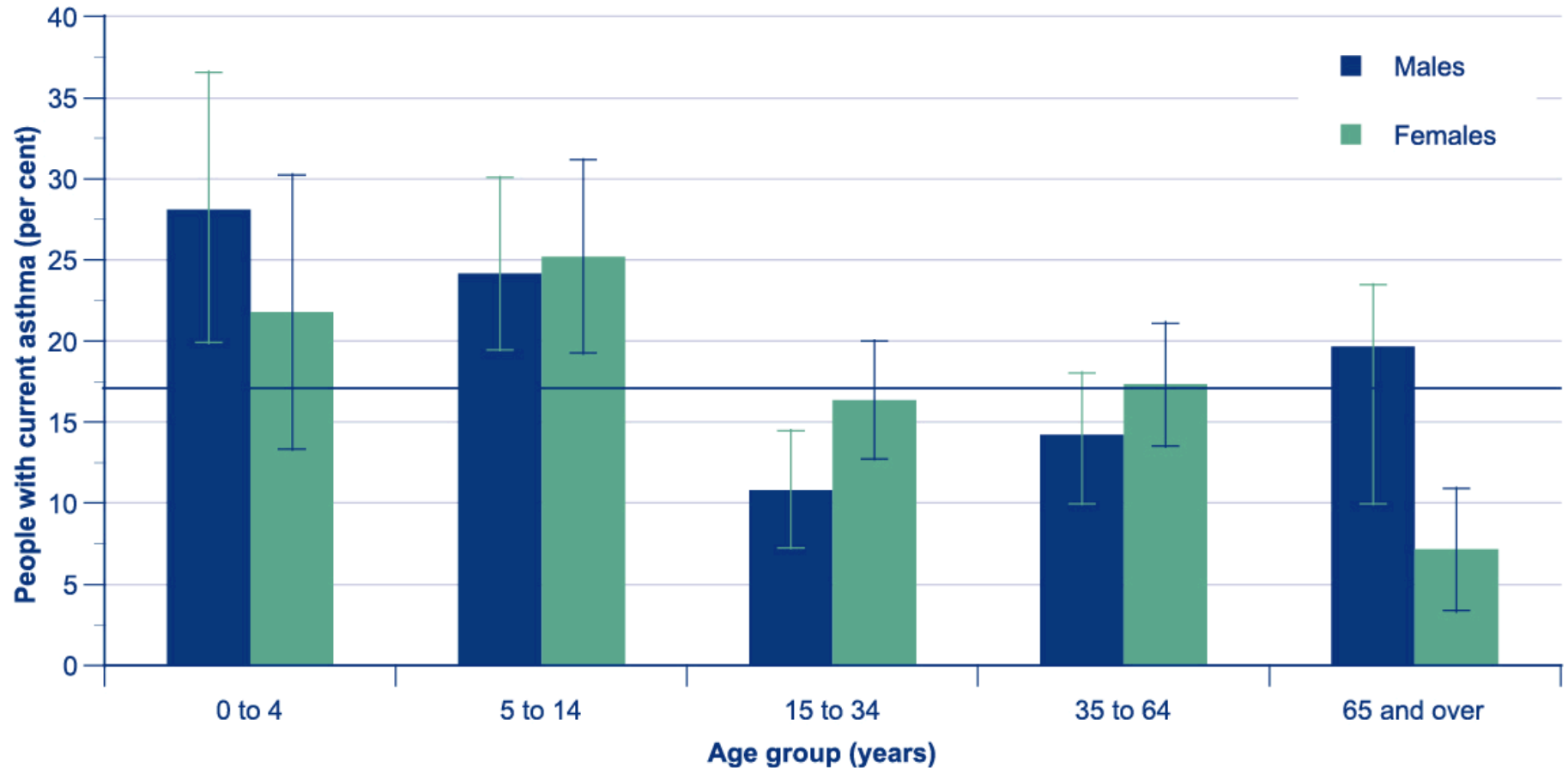
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Possession of a written asthma action plan by age and sex

people with current asthma, Australia, 2001



Source: ABS National Health Survey 2001.



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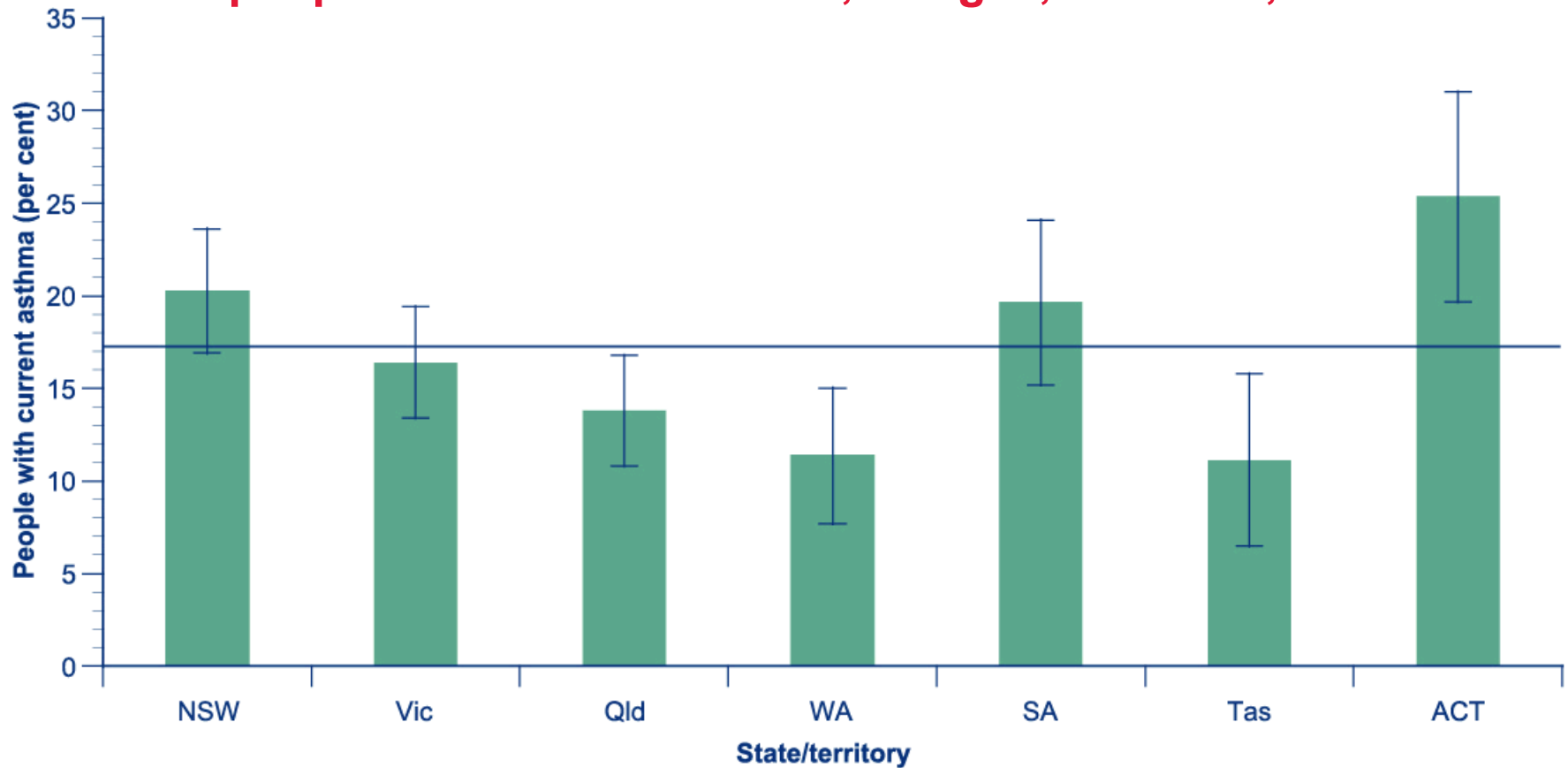
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Possession of a written asthma action plan by state and territory

people with current asthma, all ages, Australia, 2001



Source: ABS National Health Survey 2001.



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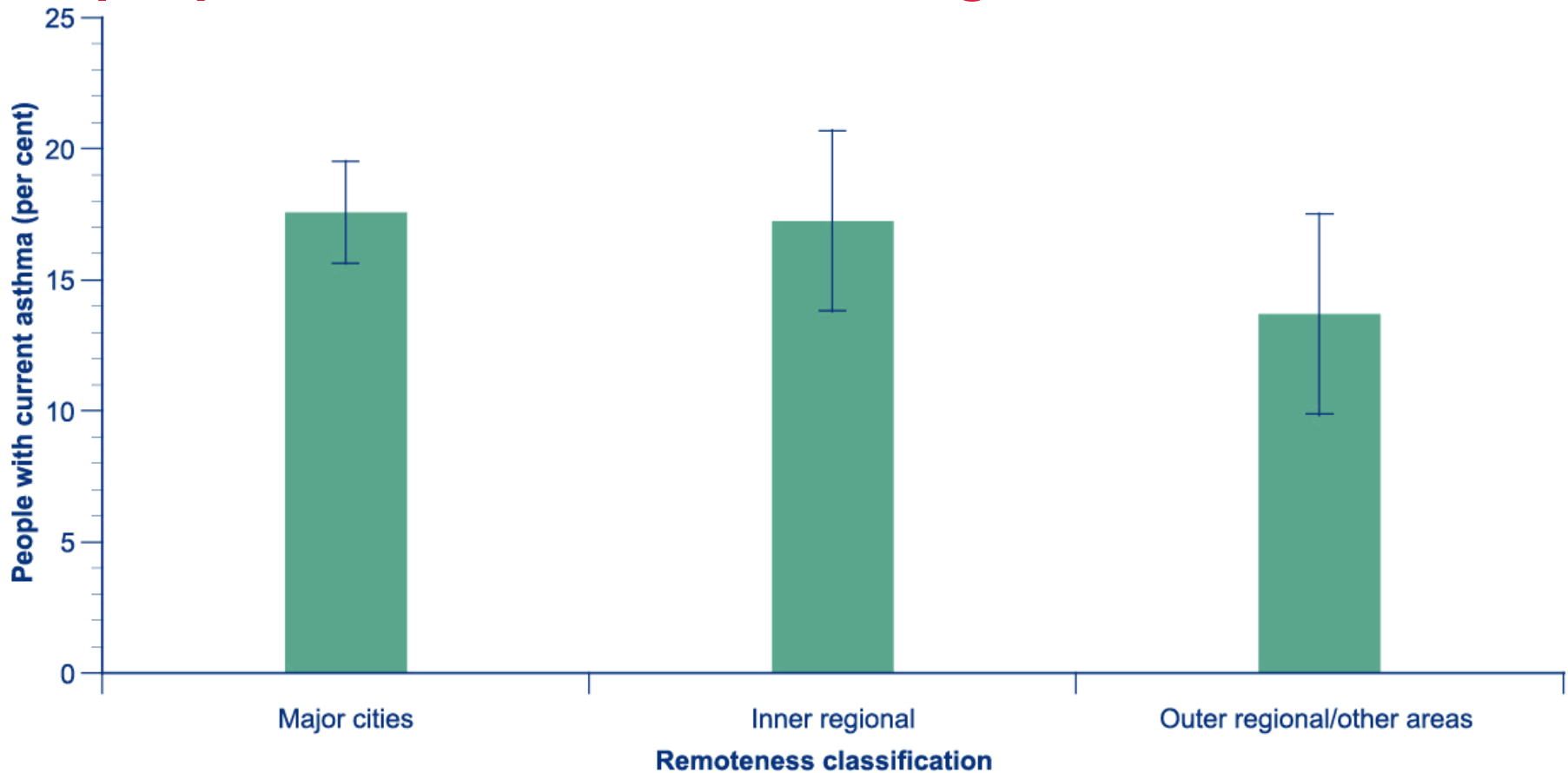
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Possession of a written asthma action plan by remoteness

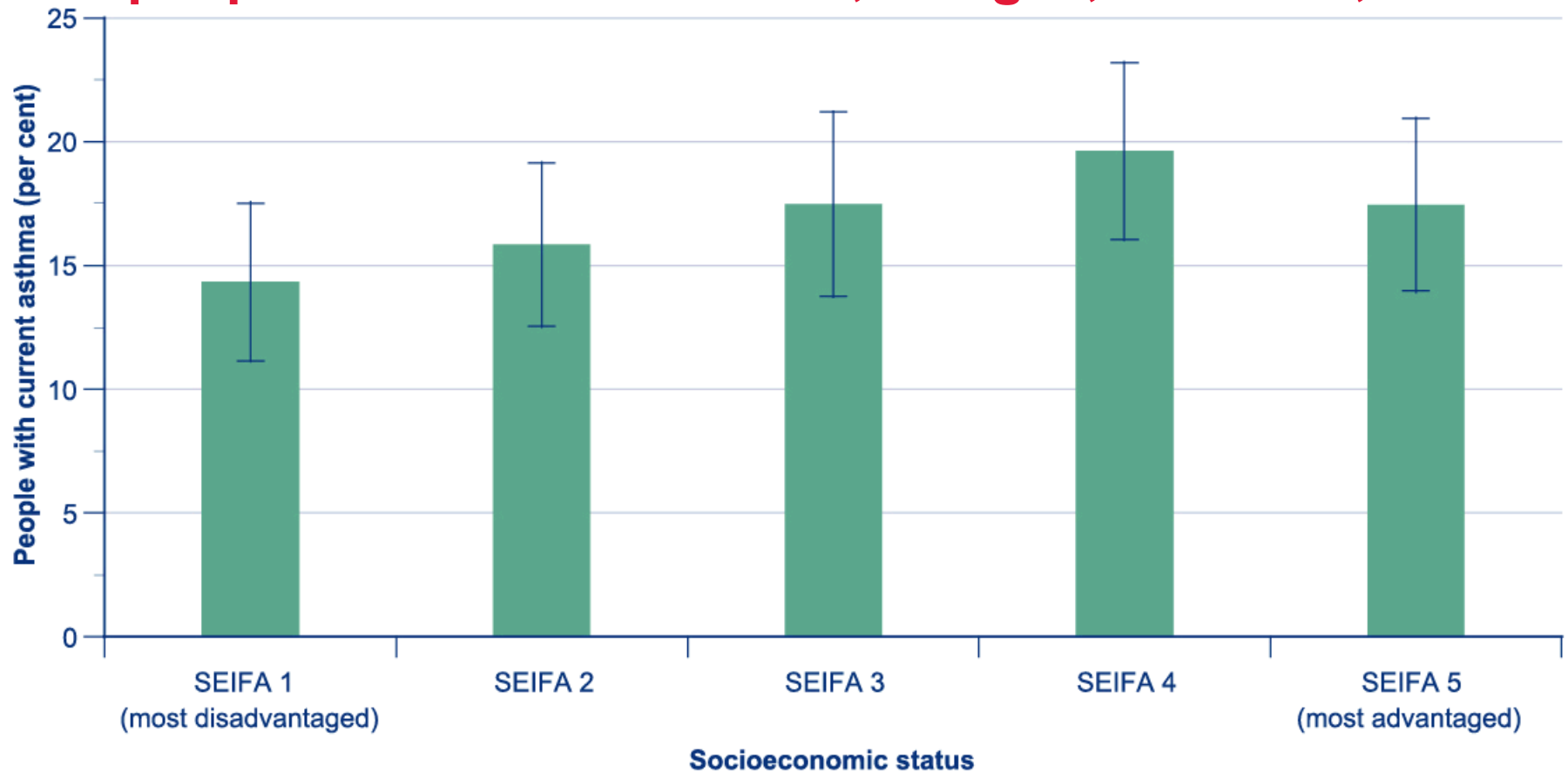
people with current asthma, all ages, Australia, 2001



Source: ABS National Health Survey 2001.

Possession of a written asthma action plan by socioeconomic status

people with current asthma, all ages, Australia, 2001



Source: ABS National Health Survey 2001.



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Chapter 6.3 Medication use



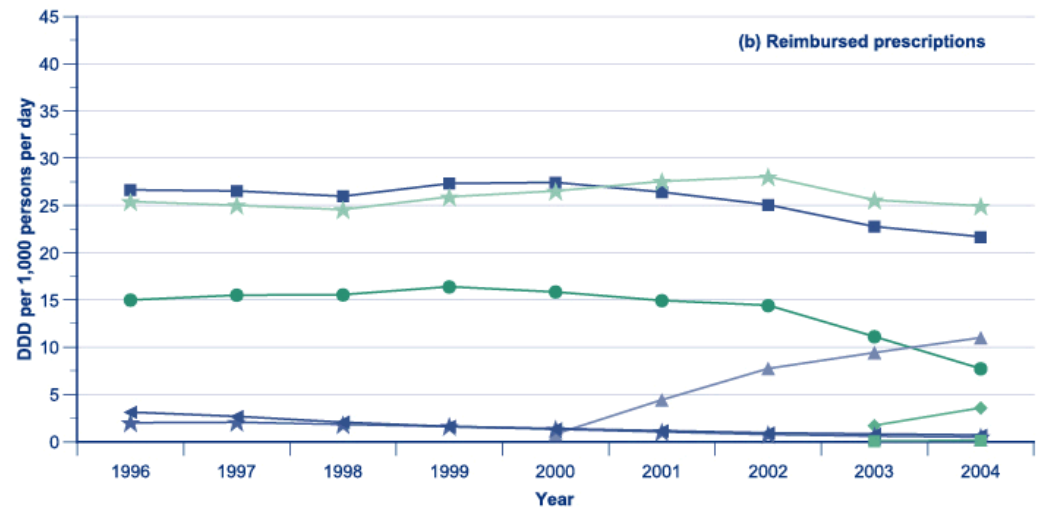
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Respiratory medications by defined daily dose (DDD) per 1,000 persons per day, Australia, 1996–2004

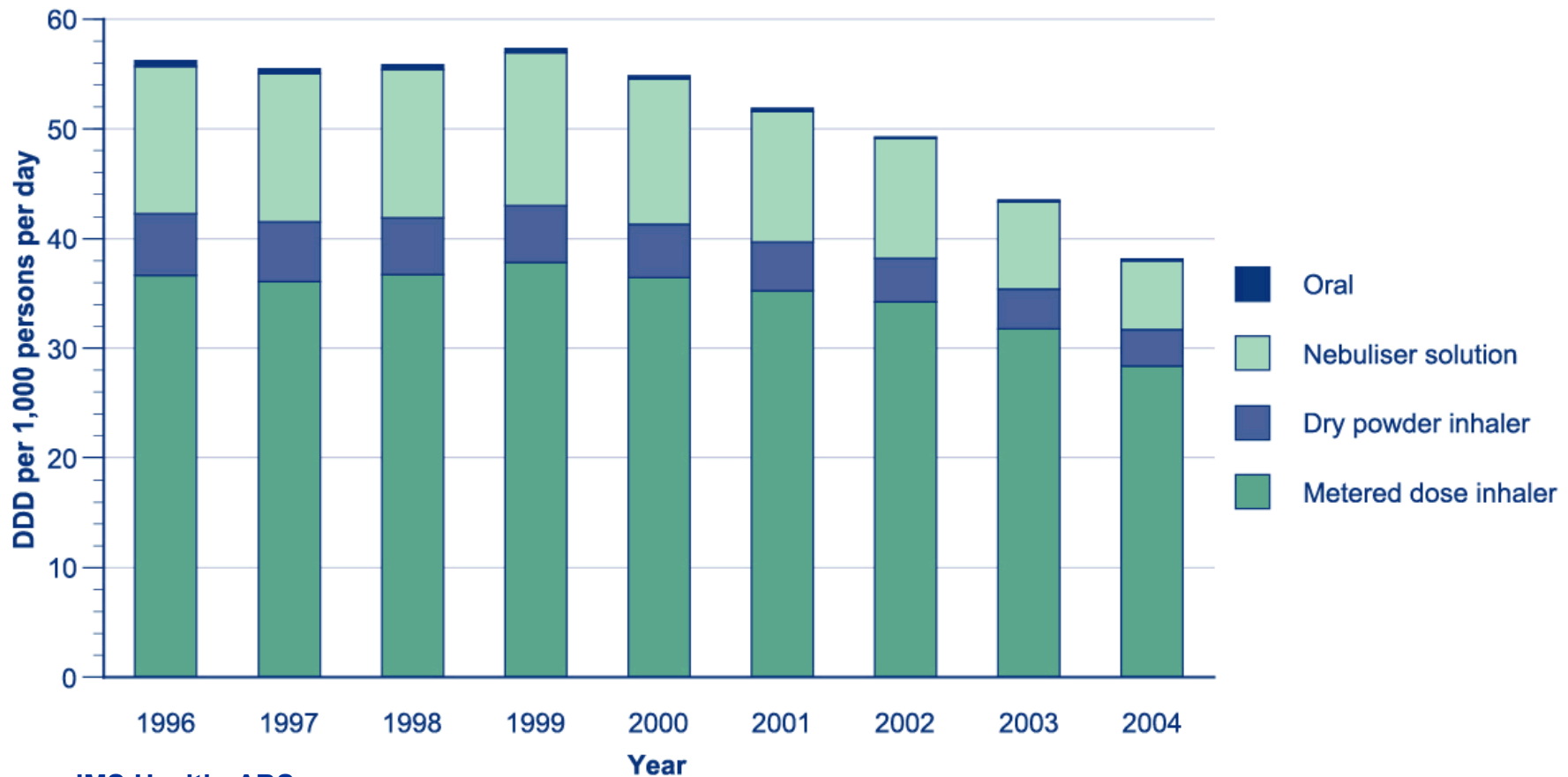


- Short-acting beta agonists
- Short-acting anticholinergics
- ▲ Long-acting beta agonists
- ◆ Long-acting anticholinergics
- ★ Cromones
- ★ Inhaled corticosteroids
- ▲ Theophylline
- Leukotriene antagonists

Sources: (a) IMS Health; (b) PBS & RPBS; ABS.

Delivery devices supplied for the administration of short-acting beta agonist and anti-cholinergic medication by defined daily dose (DDD)

per 1,000 persons per day, supplied by wholesalers, Australia, 1996–2004



Sources: IMS Health; ABS.



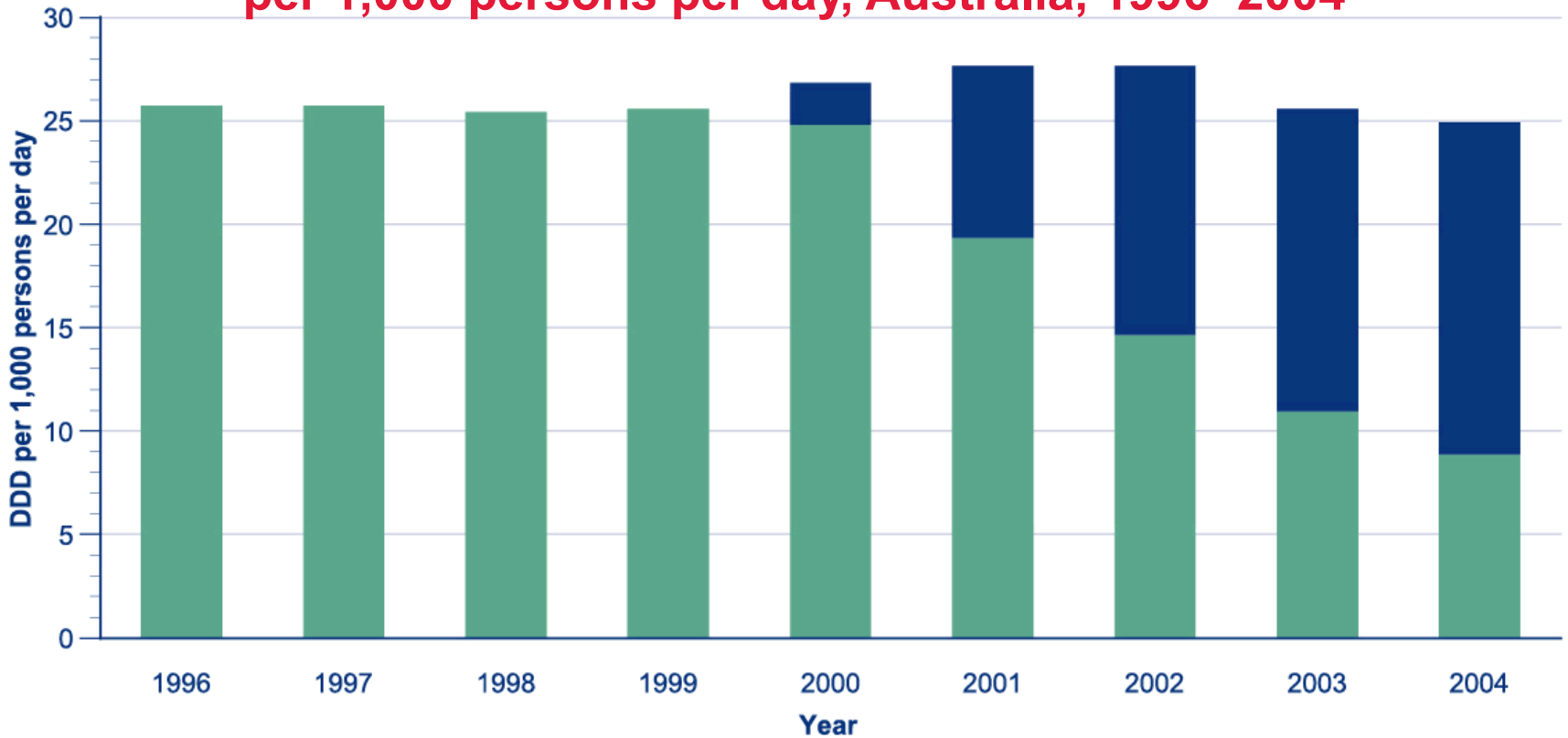
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Inhaled corticosteroids supplied by wholesalers separately or as part of combined therapy by defined daily dose (DDD) per 1,000 persons per day, Australia, 1996–2004



Sources: IMS Health; ABS.

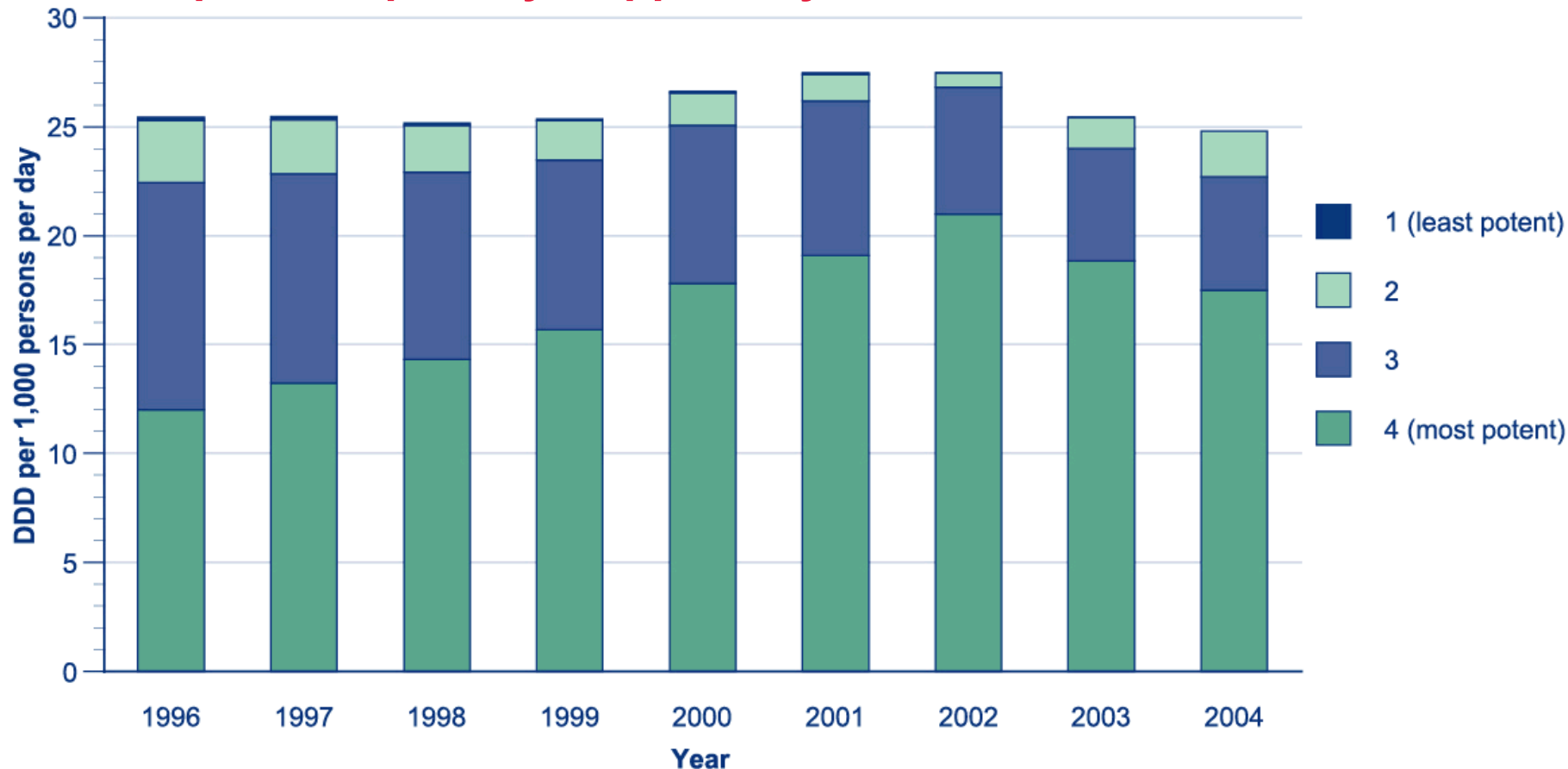


■ Combined ■ Inhaled corticosteroids alone



Relative potency of inhaled corticosteroids supplied separately or as part of combined therapy by defined daily dose (DDD)

per 1,000 persons per day, supplied by wholesalers, Australia, 1996–2004



Sources: IMS Health; ABS.



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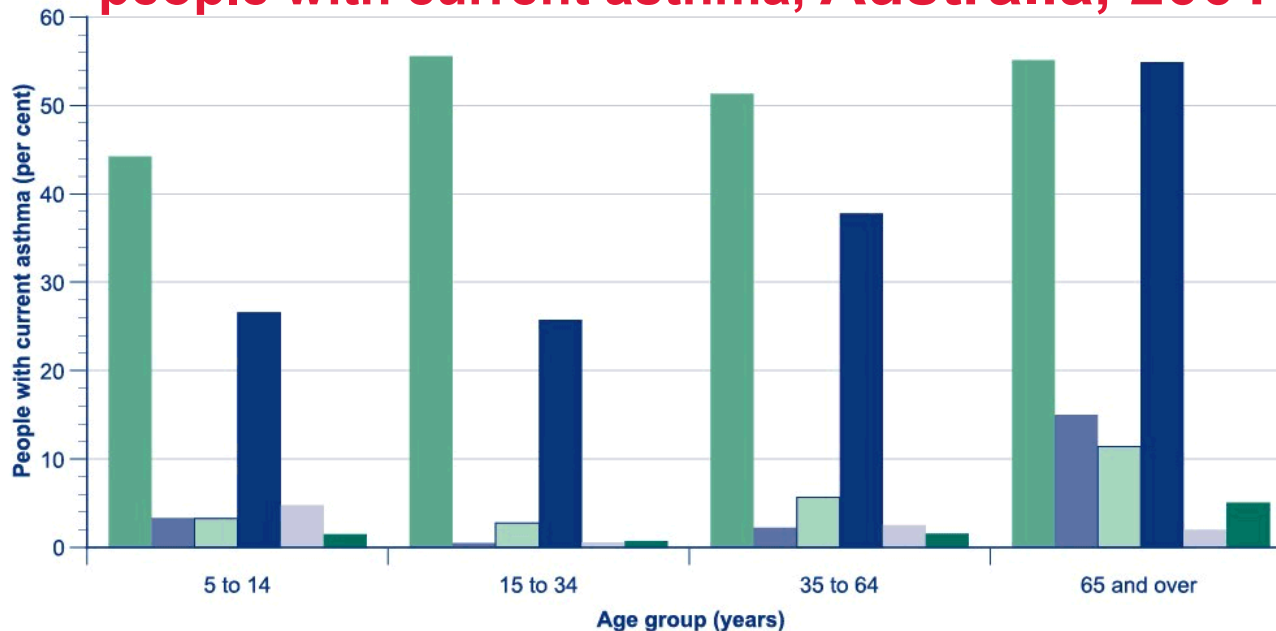
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Use of asthma medication in the last 2 weeks by age and type of medication

people with current asthma, Australia, 2001



- Short-acting beta agonists (include salbutamol & terbutaline)
- Short-acting anti-cholinergics (include ipratropium)
- Long-acting beta agonists (include salmeterol & eformoterol (formoterol))
- Inhaled corticosteroids (include beclomethasone dipropionate, budesonide, fluticasone propionate)
- Cromones (include cromoglycate and nedocromil)
- Other

Source: ABS National Health Survey 2001.



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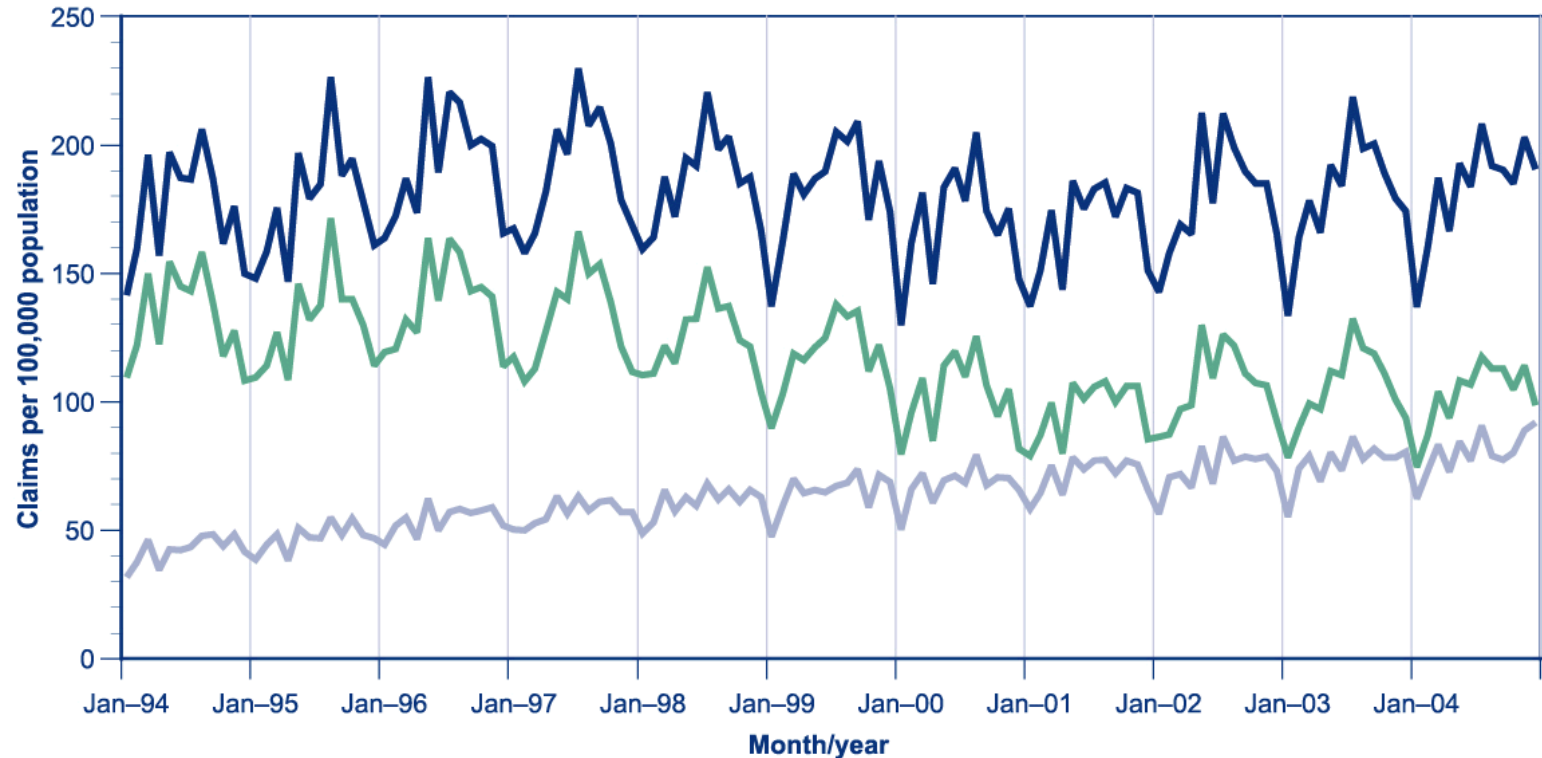
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Asthma in Australia 2005

Chapter 6.4 Spirometry

Claims for the performance of spirometry and complex lung function tests which included spirometry, all ages, Australia, 1994–2004



- Total spirometry
- Office-based claims (Medicare item 11506)
- Laboratory-based claims (Medicare items 11503, 11509 & 11512)

Sources: HIC Health Statistics; ABS.

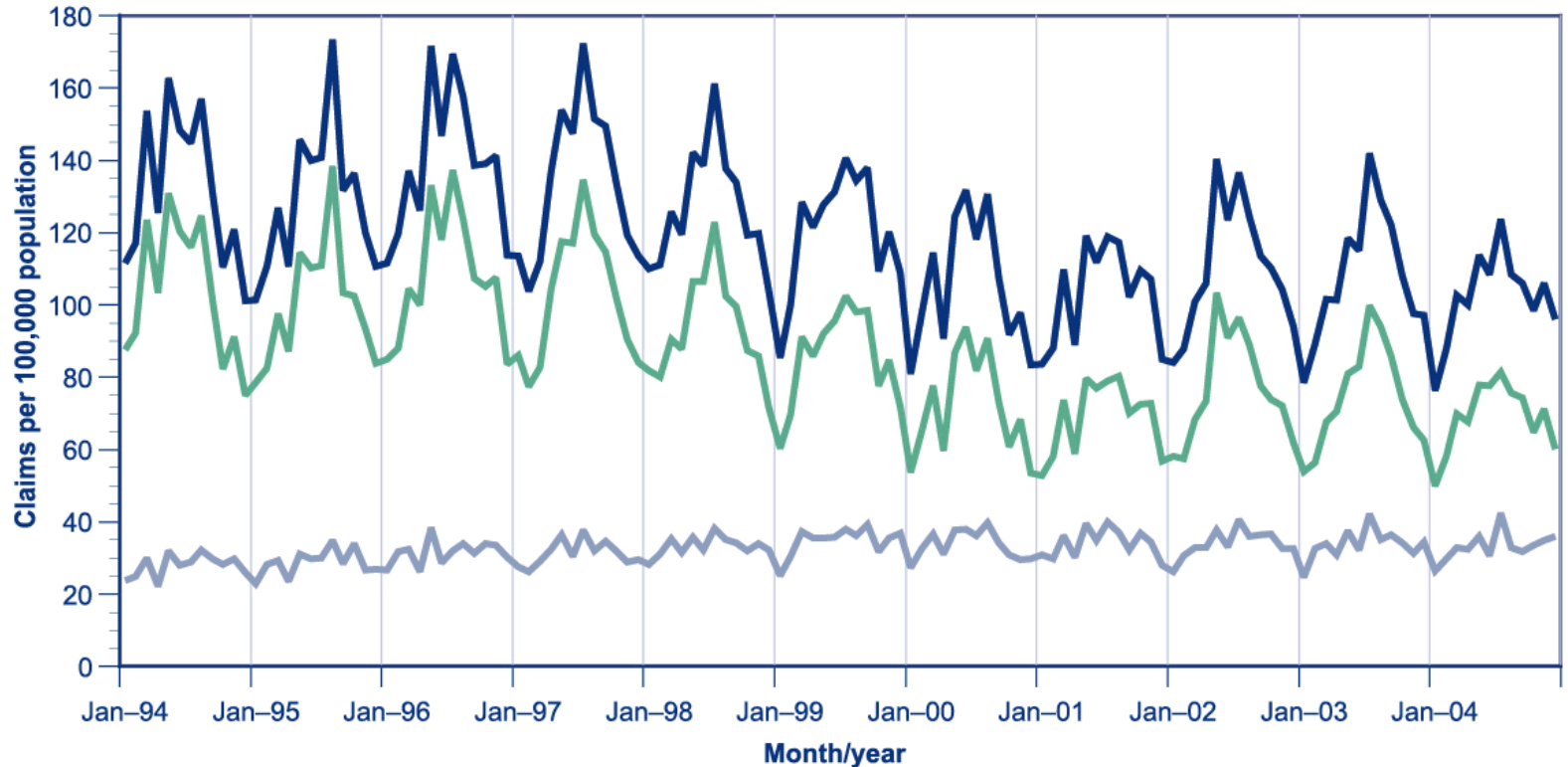


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Claims for the performance of spirometry and complex lung function tests which included spirometry, people aged 5 to 34 years, Australia, 1994–2004



- Total claims
- Office-based claims (Medicare item 11506)
- Laboratory-based claims (Medicare items 11503, 11509 & 11512)

Sources: HIC Health Statistics; ABS.

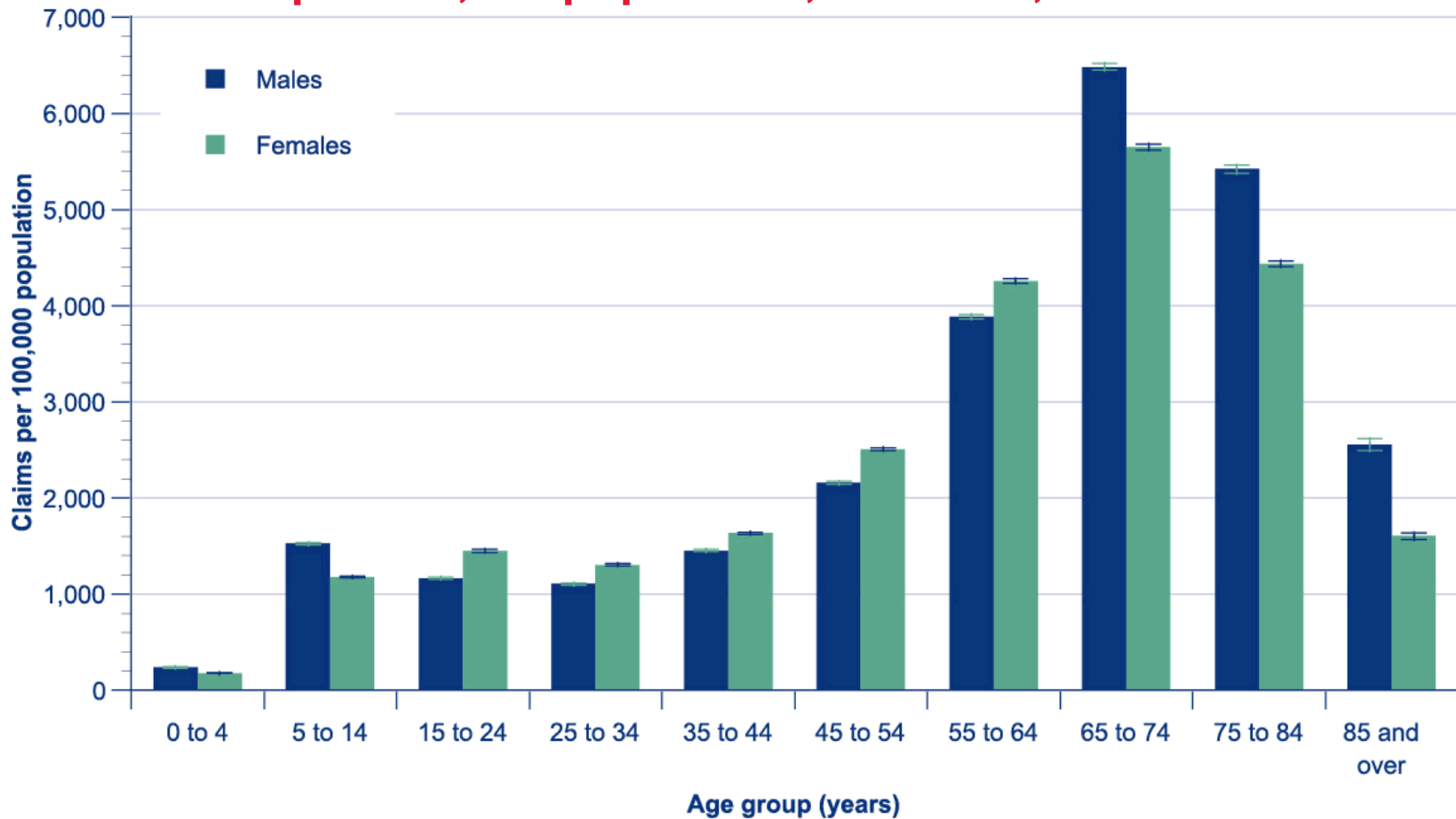


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Total claims for the performance of spirometry by age and sex per 100,000 population, Australia, 2002–04



Sources: HIC Health Statistics; ABS.



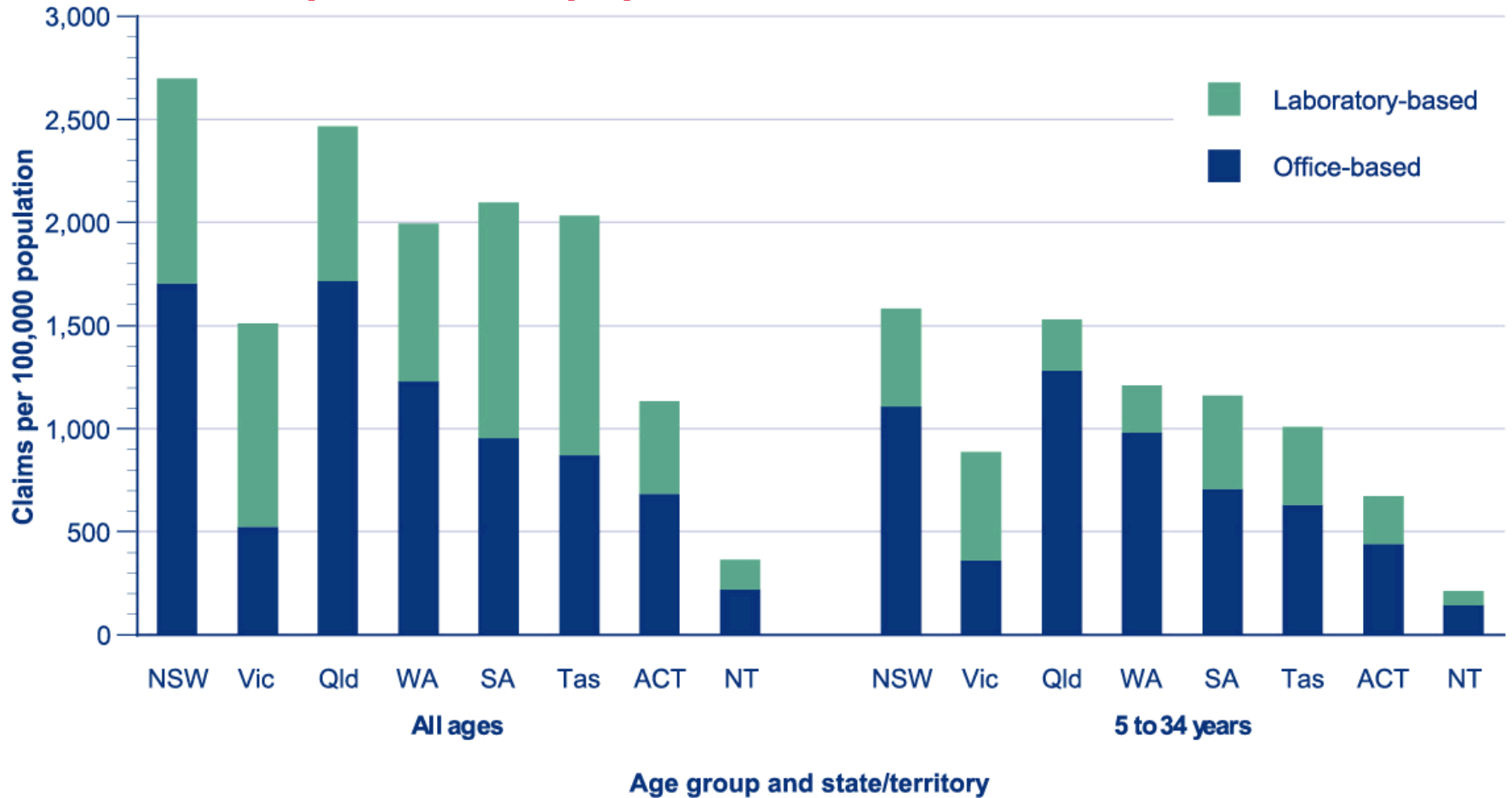
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Claims for spirometry by state, territory and type per 100,000 population, Australia, 2002–04



Sources: HIC Health Statistics; ABS.



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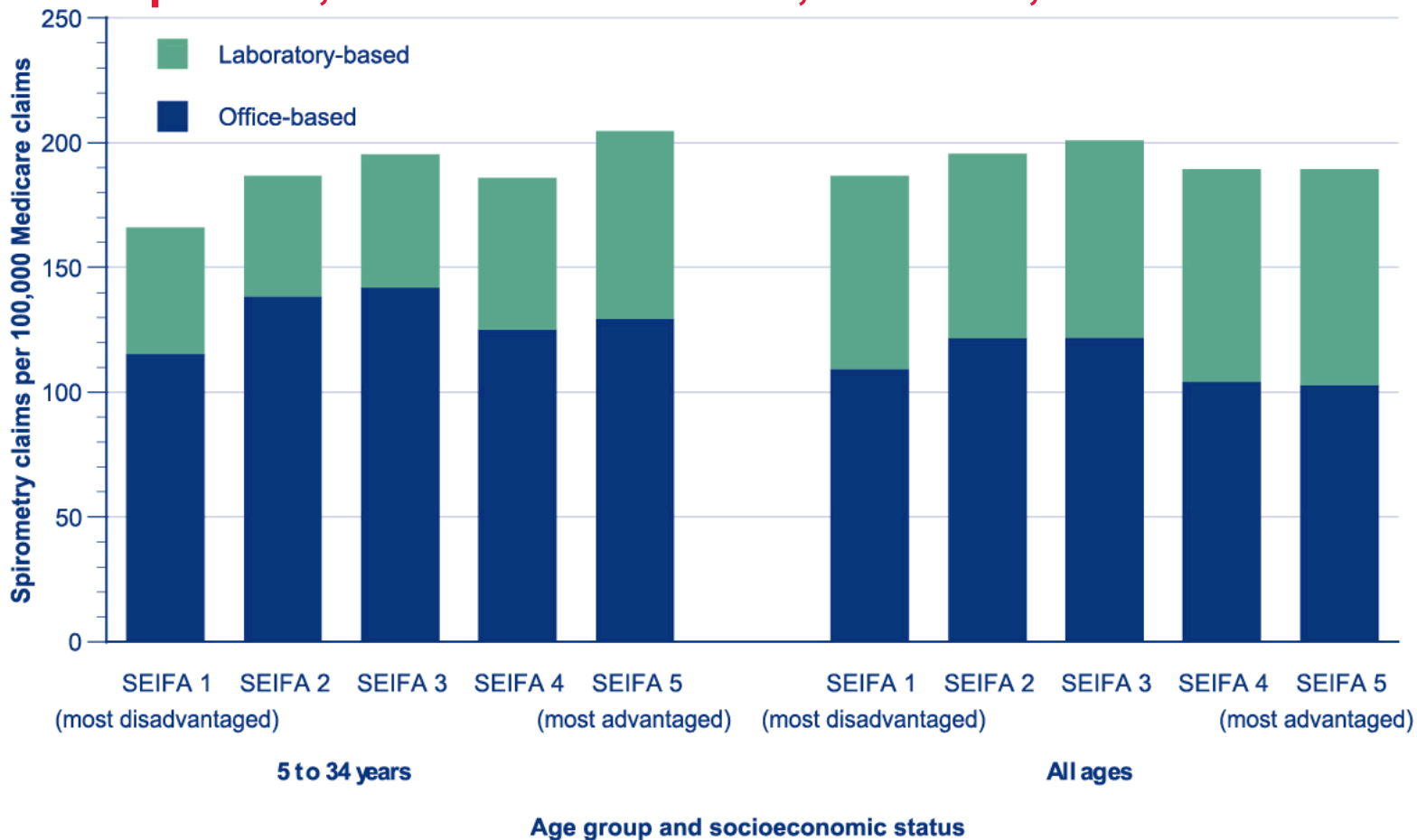
Age group and state/territory

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Claims for the performance of spirometry by socioeconomic status per 100,000 Medicare claims, Australia, 2002–04



Sources: HIC Health Statistics; ABS.



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Chapter 7 Smoking



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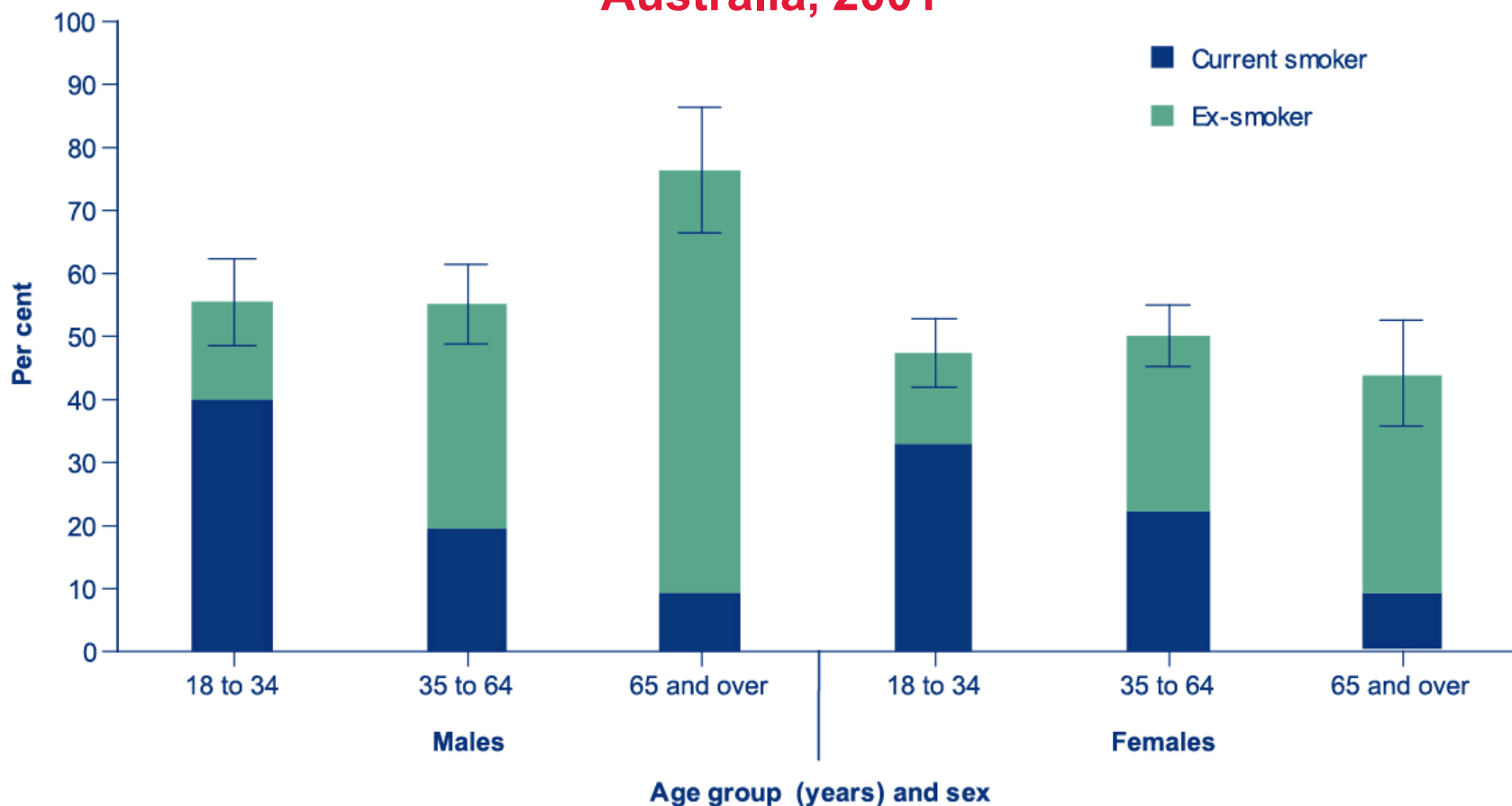
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Chapter 7.2

People with asthma who smoke

Smoking status among people with current asthma by age and sex

Australia, 2001



Source: ABS National Health Survey 2001.



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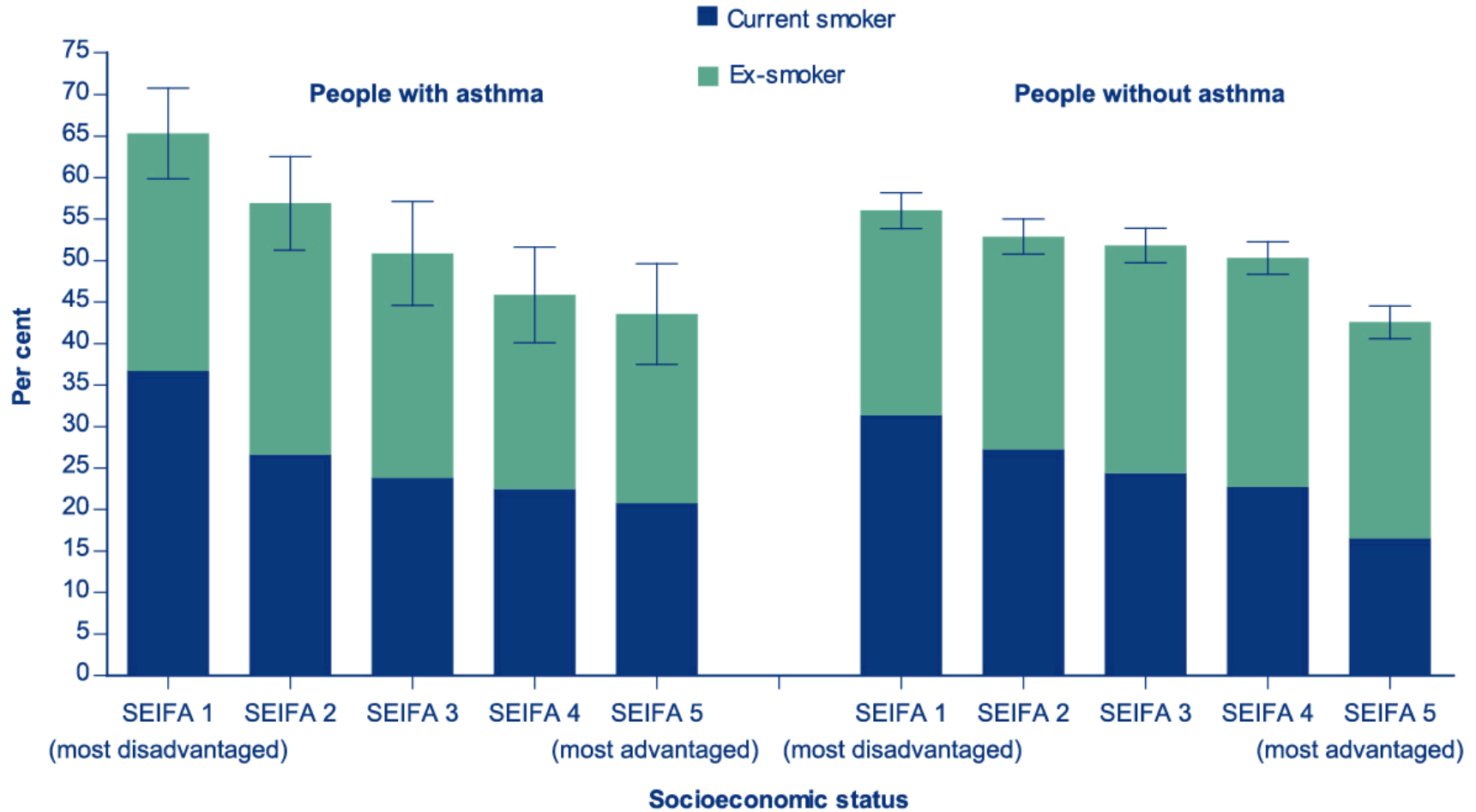
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The proportion of current smokers and ex-smokers by socioeconomic status

people with and without current asthma, Australia, 2001



Source: ABS National Health Survey 2001.



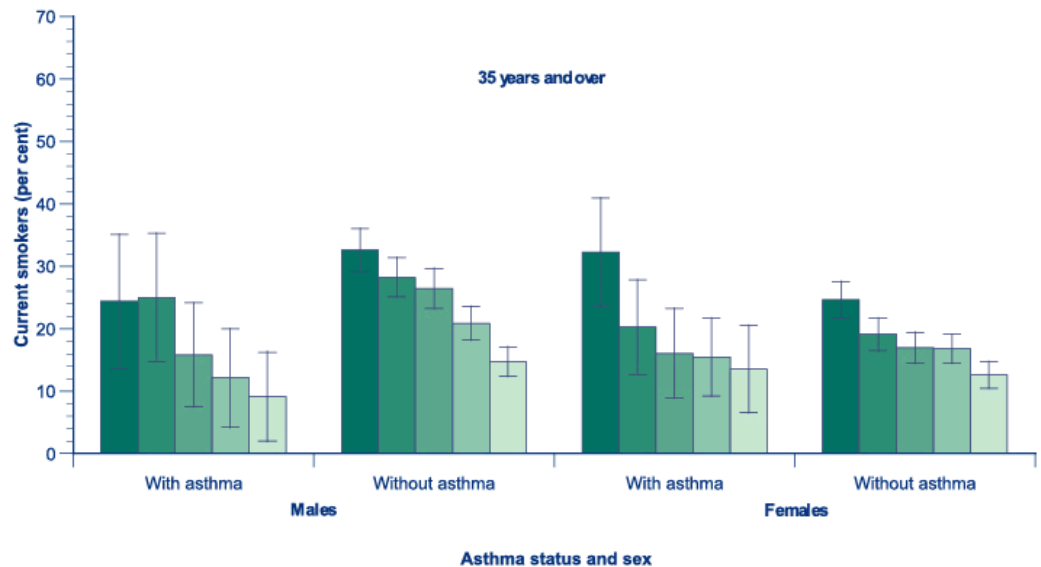
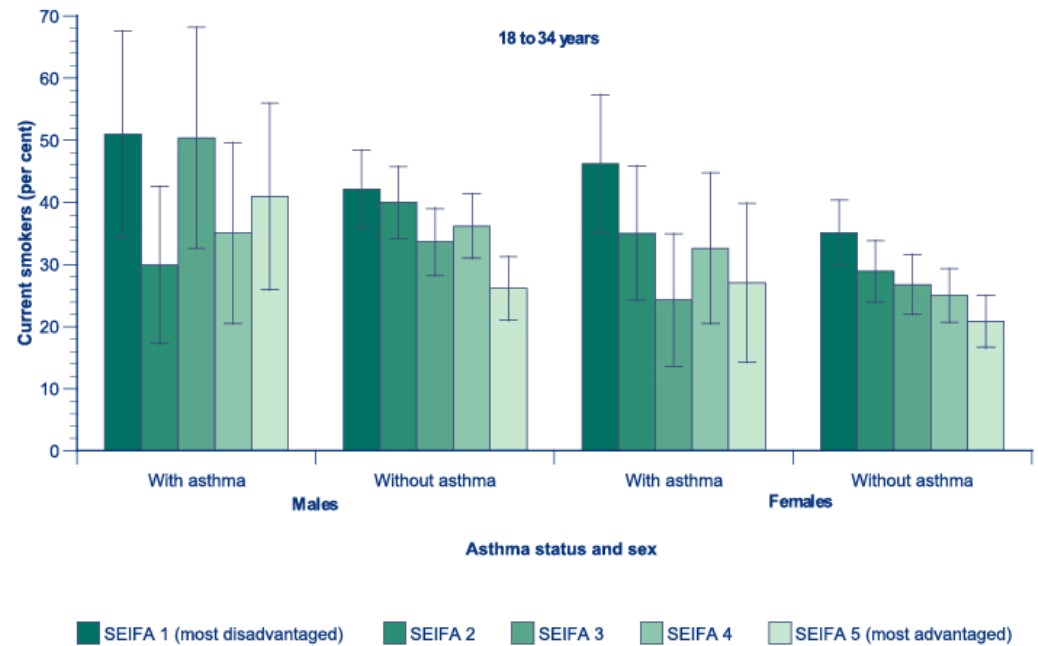
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Proportion of people who are current smokers by age, sex and socioeconomic status

people with and without asthma, Australia, 2001



Source: ABS National Health Survey 2001.



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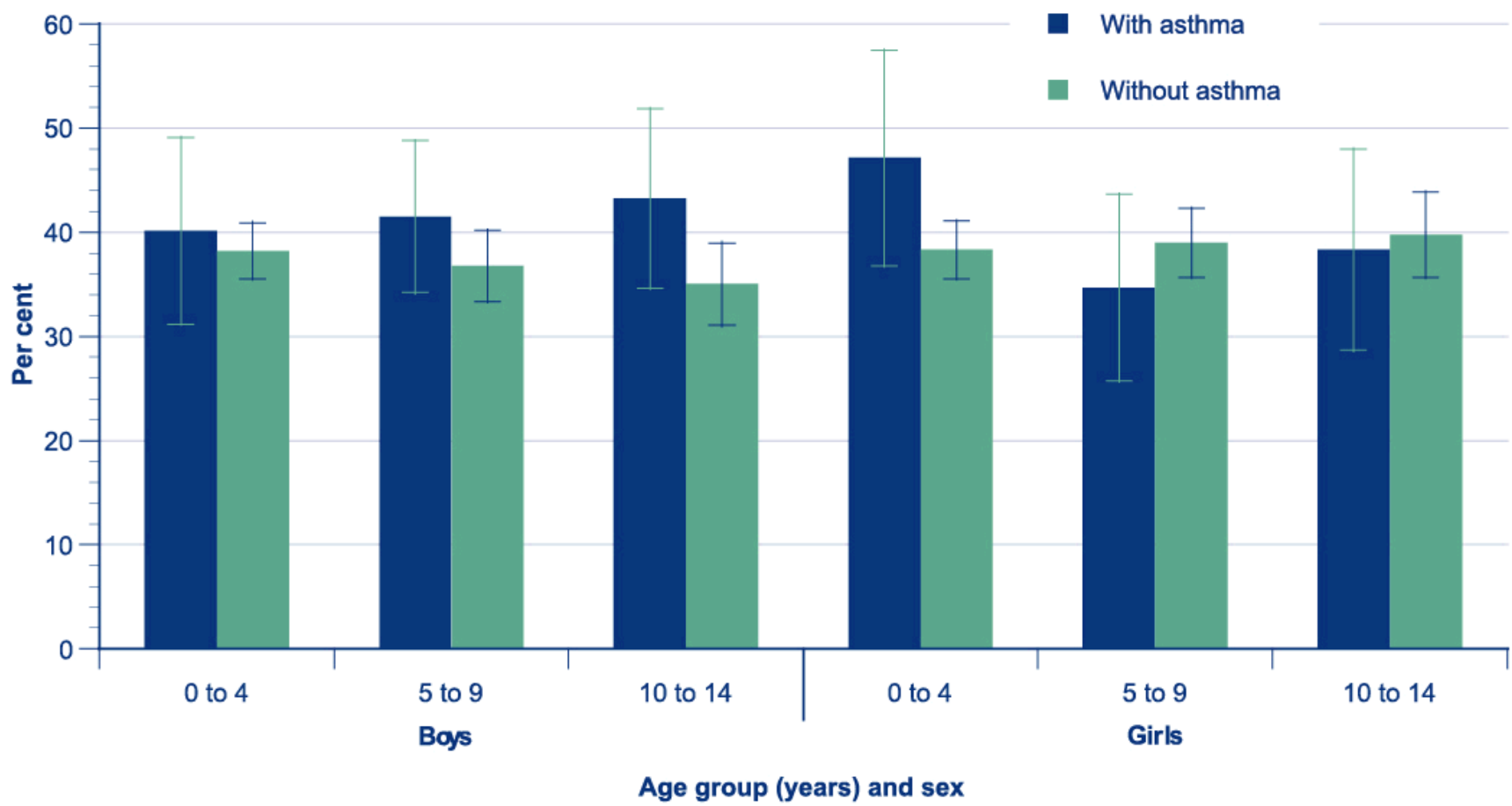
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Chapter 7.3

Passive smoke exposure in children with asthma

Proportion of children with 1 or more cigarette smokers in the household by age & sex

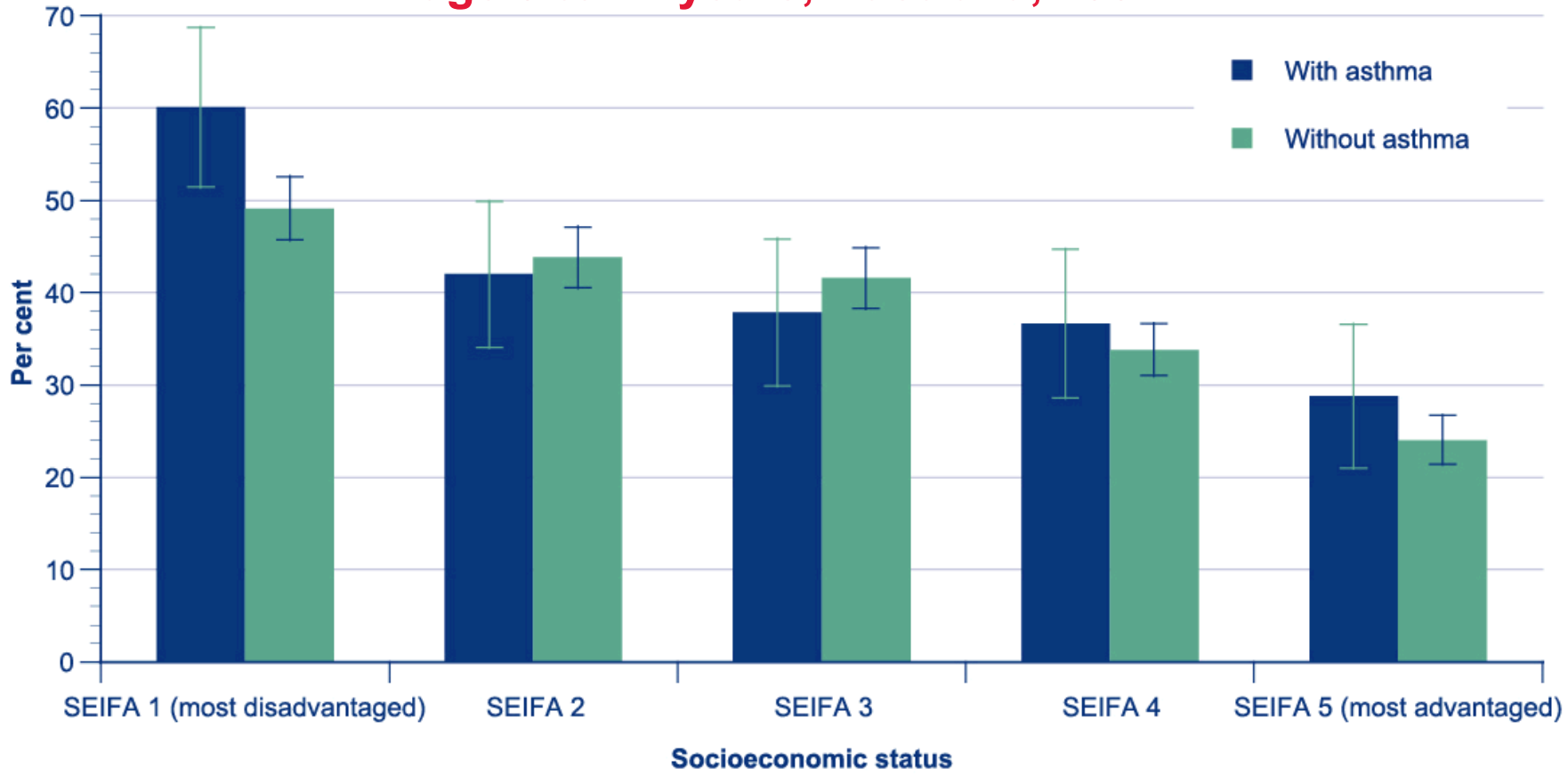
children with and without current asthma, Australia, 2001



Source: ABS National Health Survey 2001.

Children with and without current asthma with 1 or more cigarette smokers in the household by socioeconomic status

age 0 to 14 years, Australia, 2001



Source: ABS National Health Survey 2001.

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Chapter 8

Quality of life and markers of asthma control



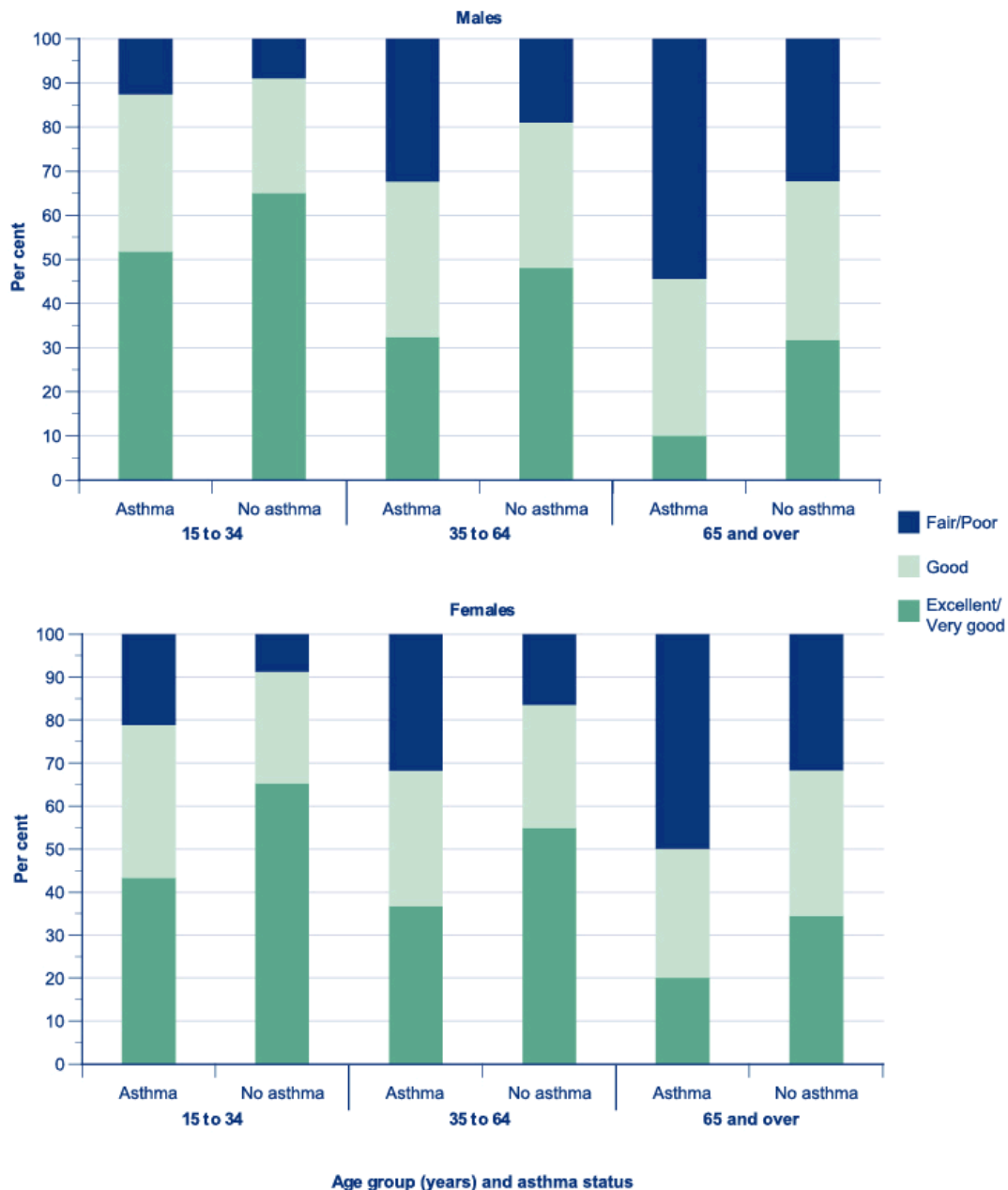
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Self-assessed health status by age and sex people with and without current asthma aged 15 years and over, Australia, 2001



Source: ABS National Health Survey 2001.



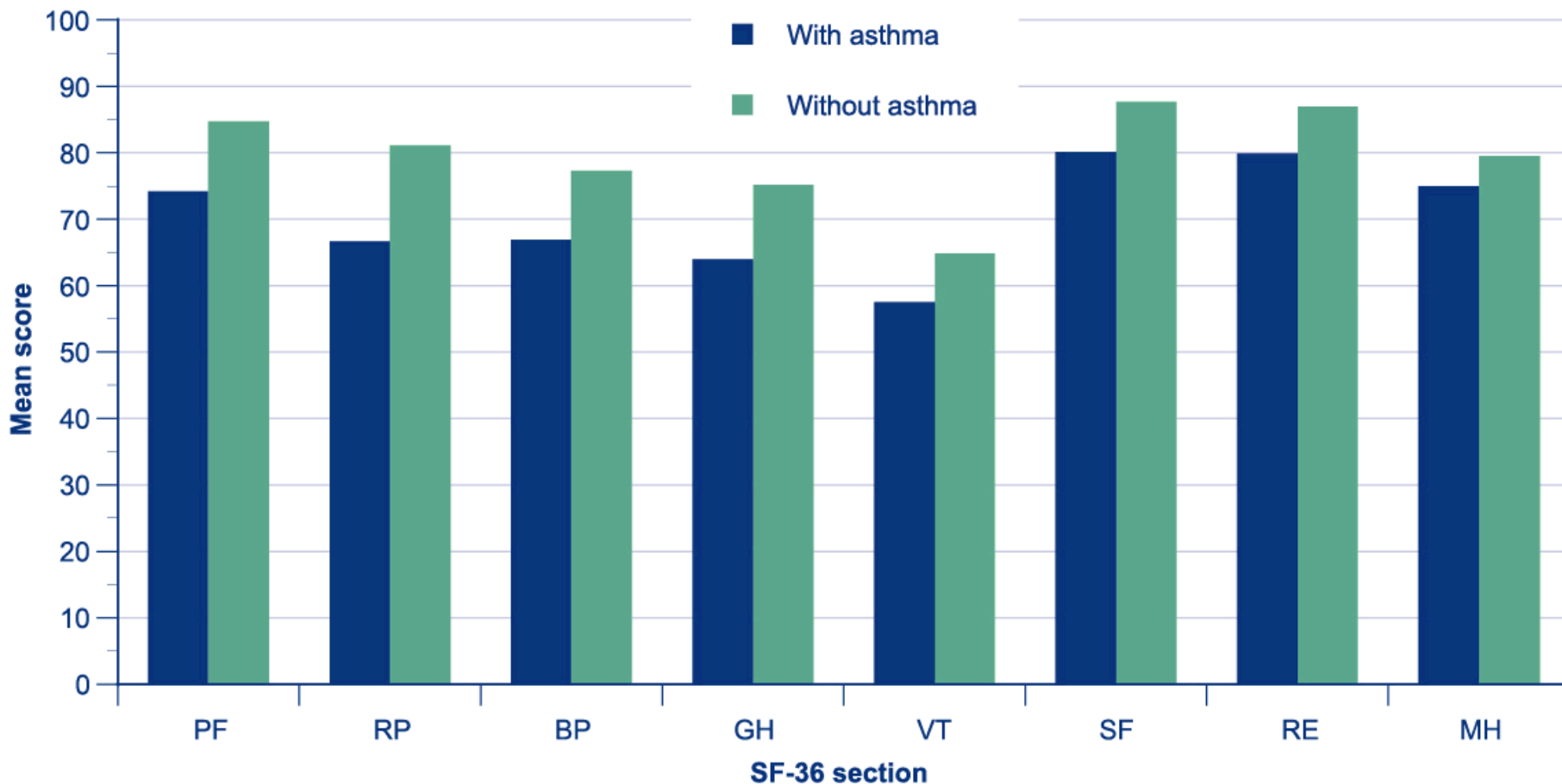
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SF-36 scores in people with and without asthma

people aged 15 years and over, South Australia, 1998



Source: Wilson et al. 2002.



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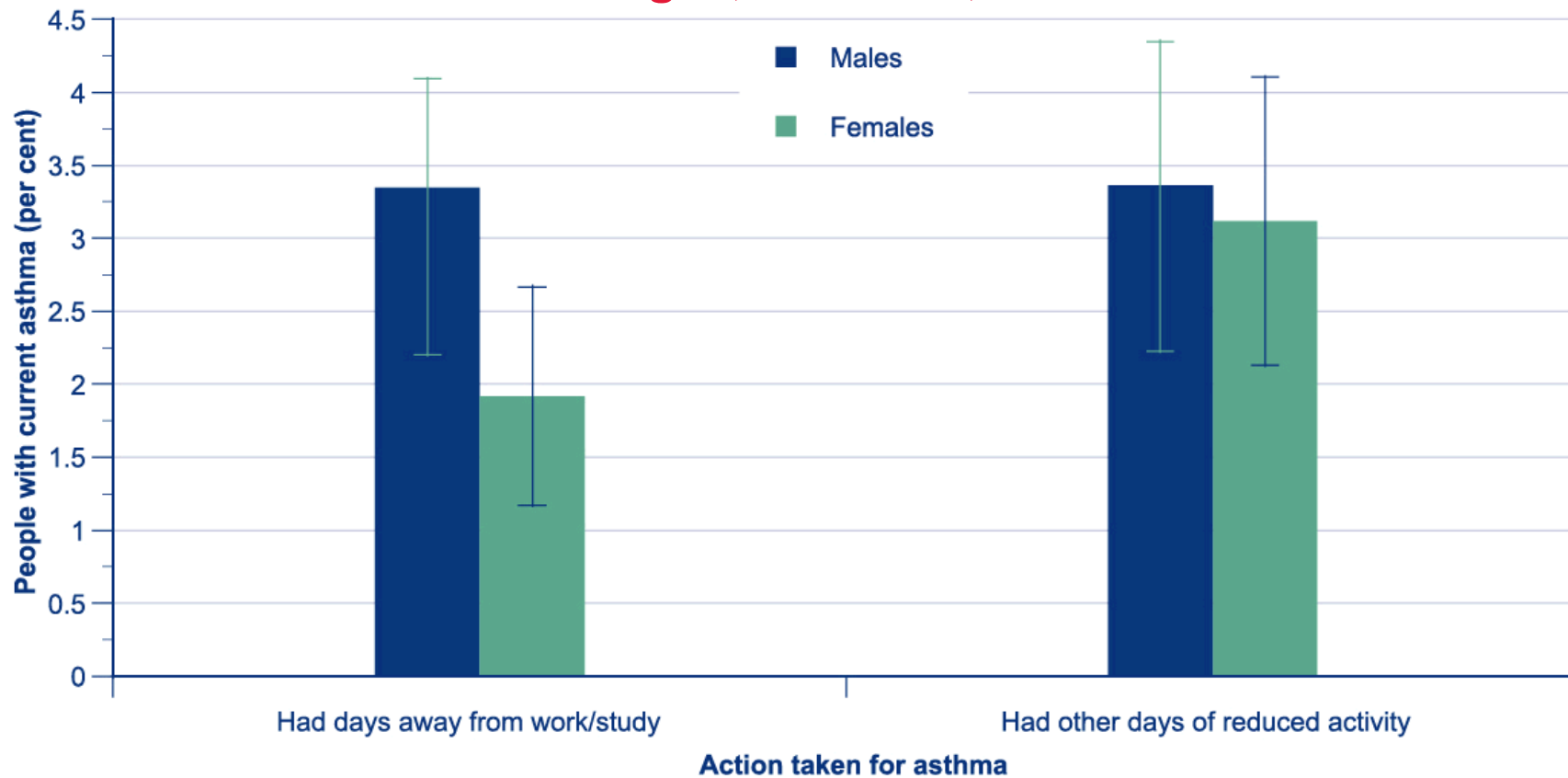
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Activity limitations in last 2 weeks due to asthma by sex

all ages, Australia, 2001



Source: ABS National Health Survey 2001.



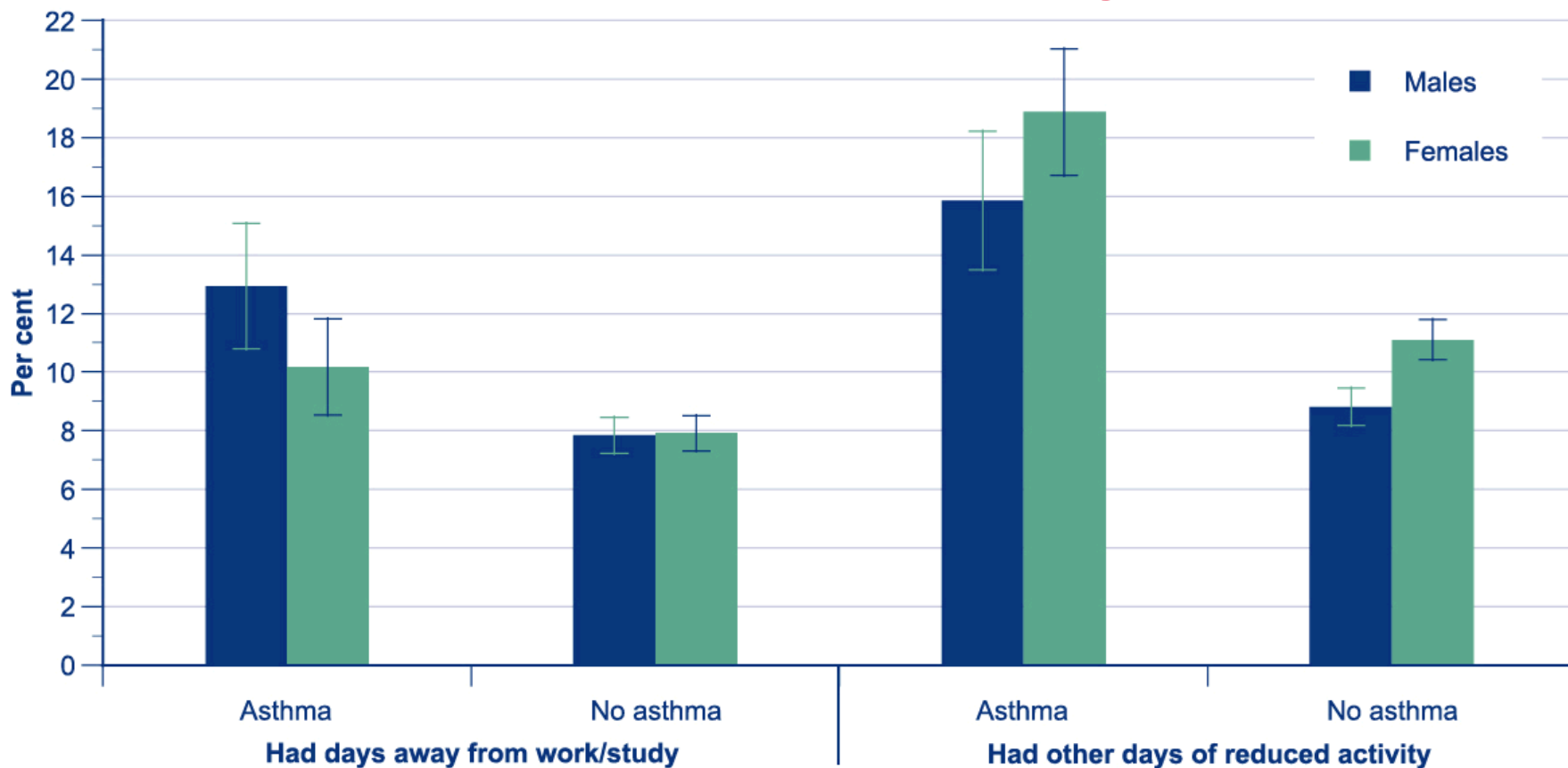
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Activity limitations in last 2 weeks for any reason by sex

people with and without current asthma, all ages, Australia, 2001



Action taken and asthma status

Source: ABS National Health Survey 2001.



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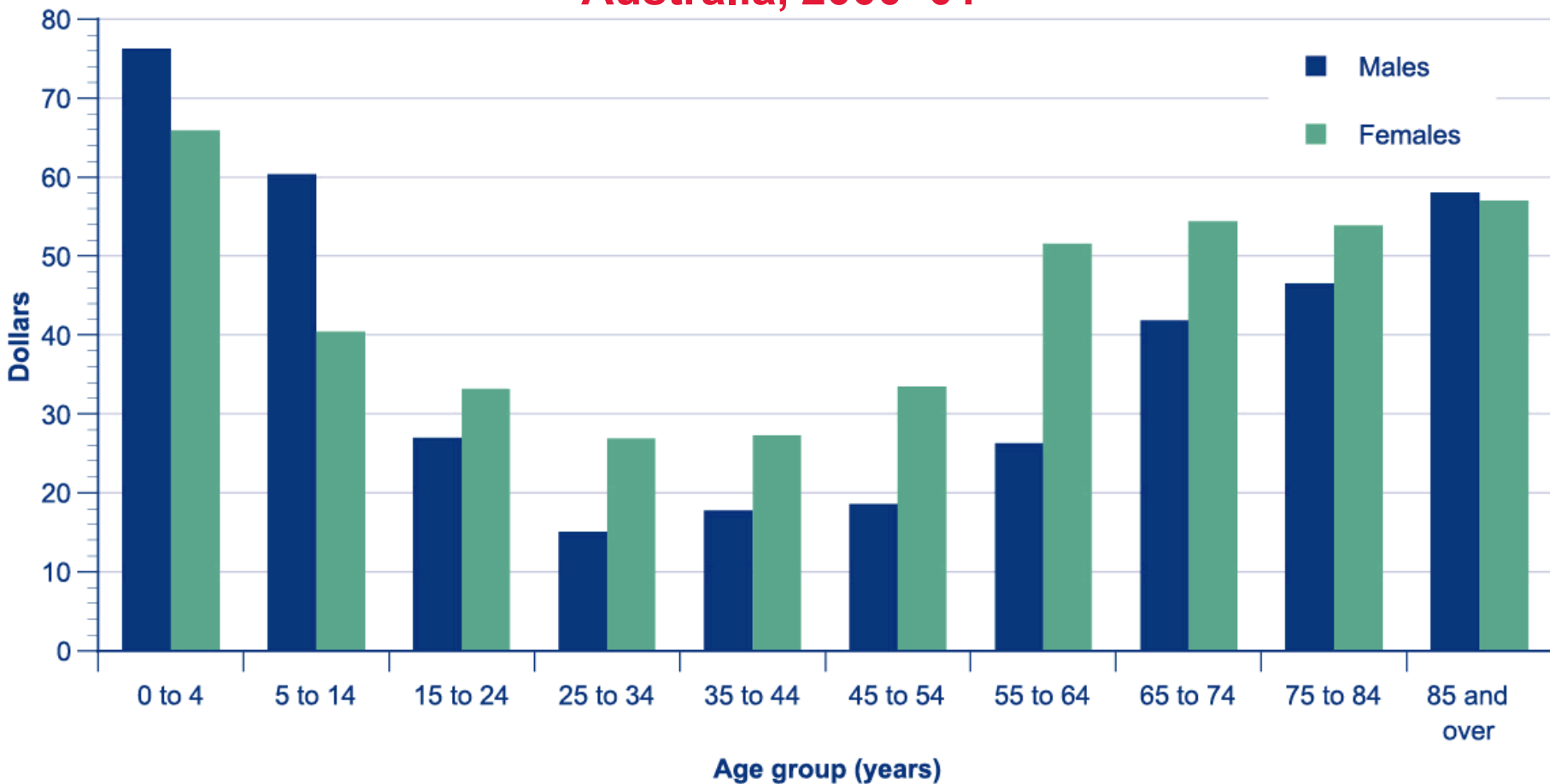


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Chapter 9 Expenditure

Expenditure on asthma per capita by age and sex

Australia, 2000–01



Source: AIHW health care expenditure database.



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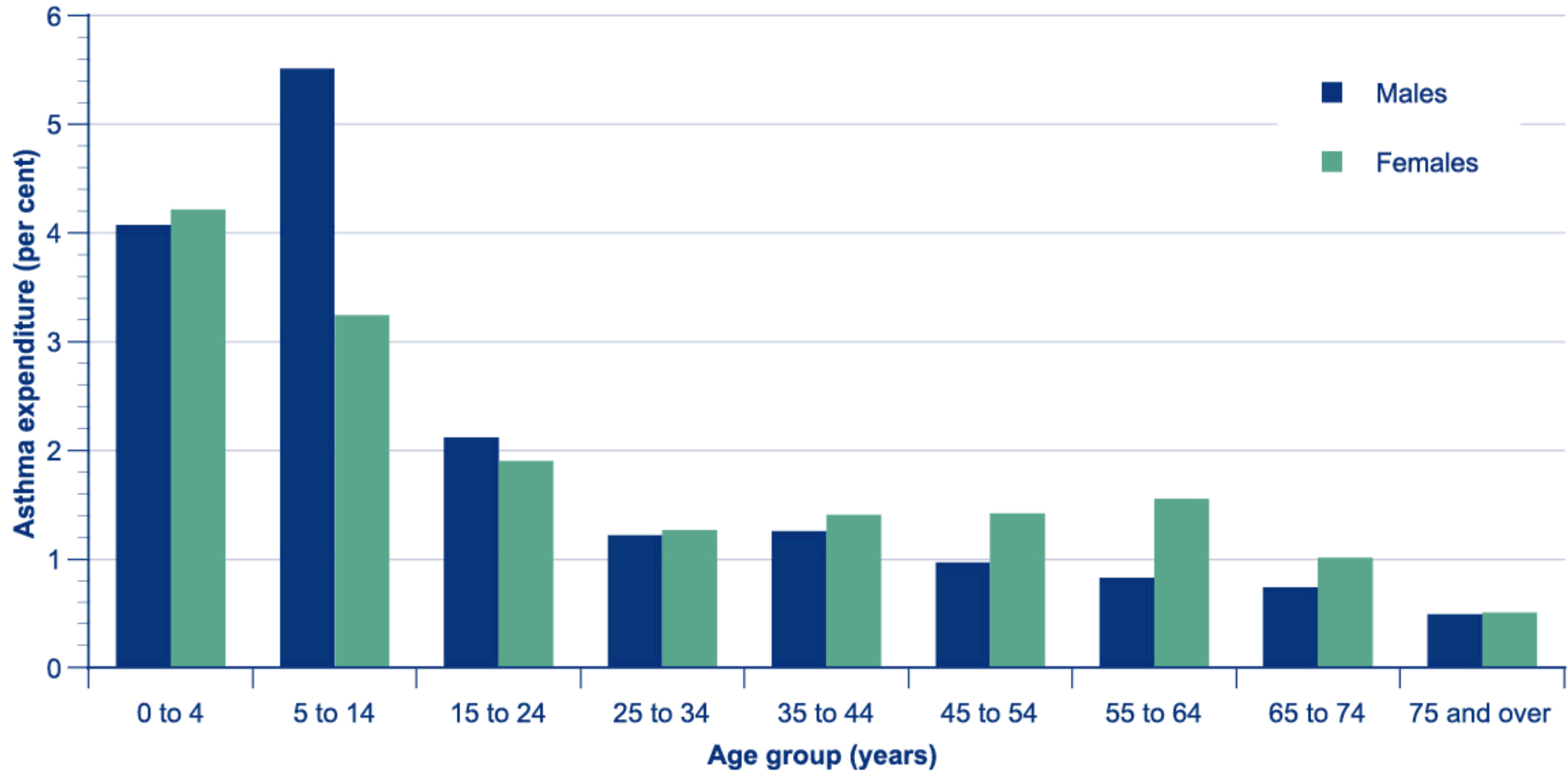
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Proportion of total health expenditure attributed to asthma by age and sex

Australia, 2000–01



Source: AIHW health care expenditure database.



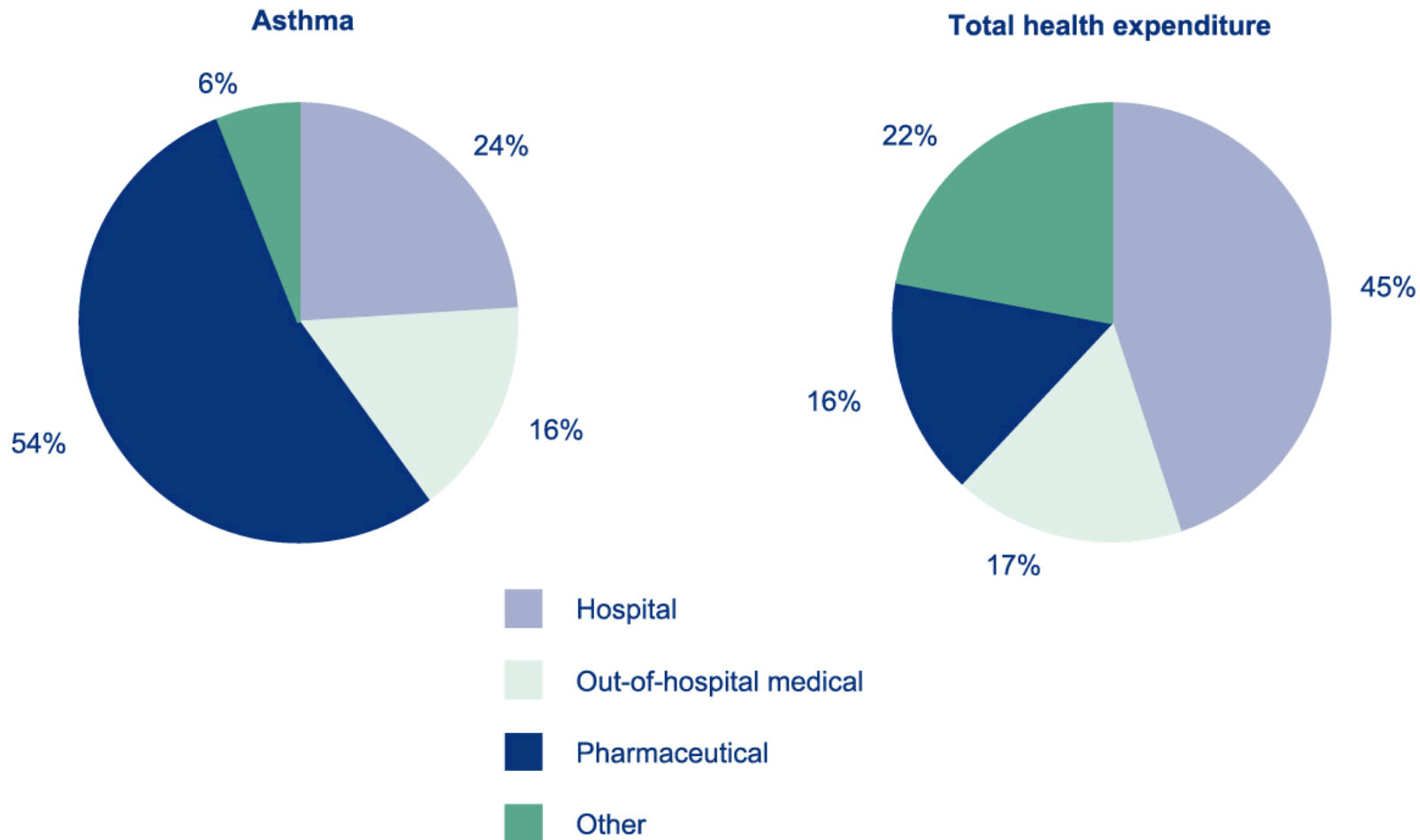
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Distribution of expenditure on asthma and total health expenditure among health sectors

Australia, 2000–01



Source: AIHW health care expenditure database.



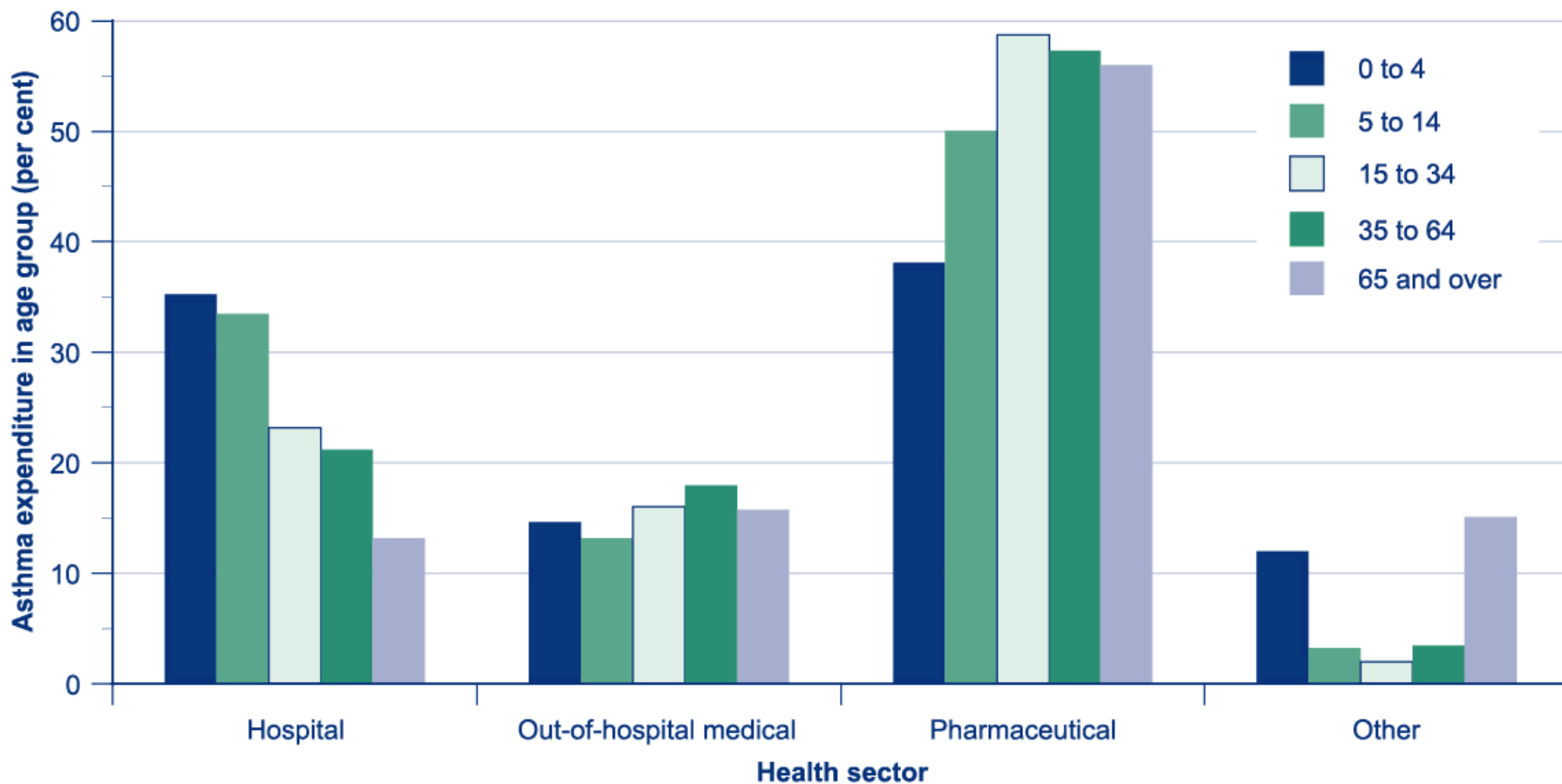
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Proportions of expenditure on asthma in each age group by health sector

Australia, 2000–01



Source: AIHW health care expenditure database.



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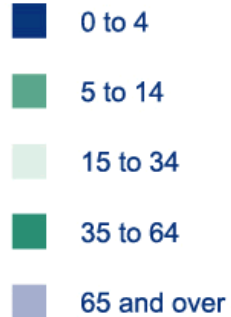
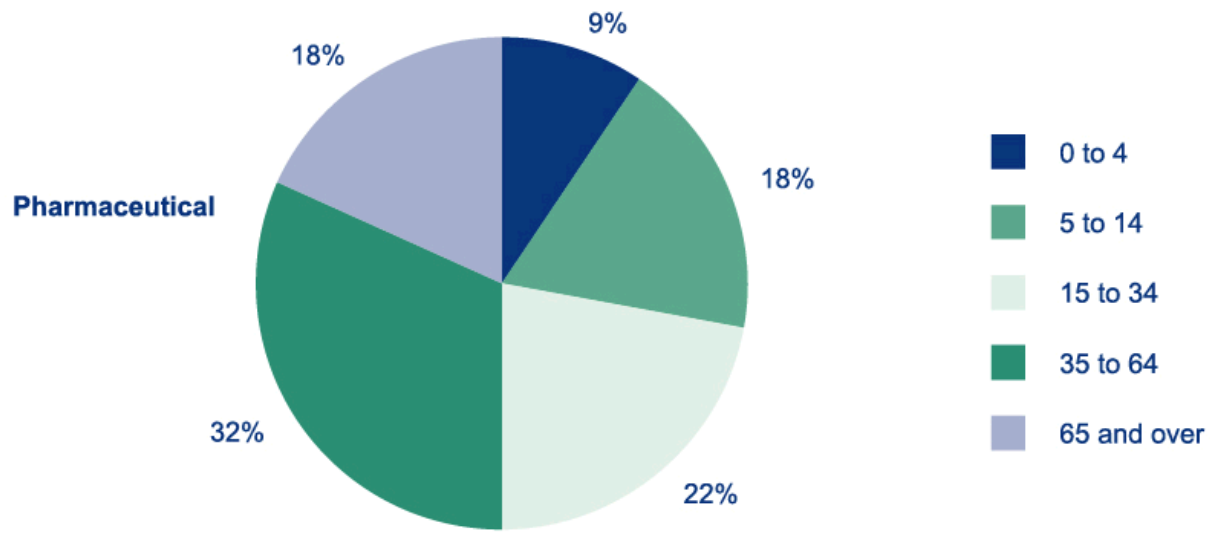
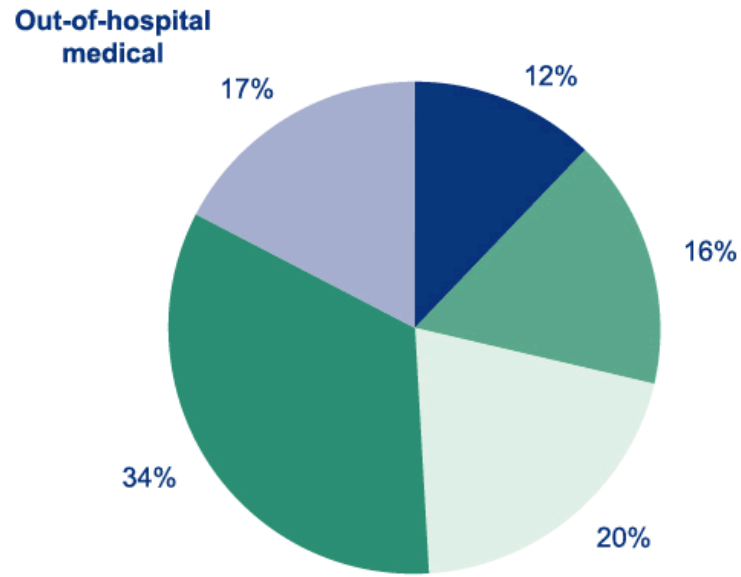
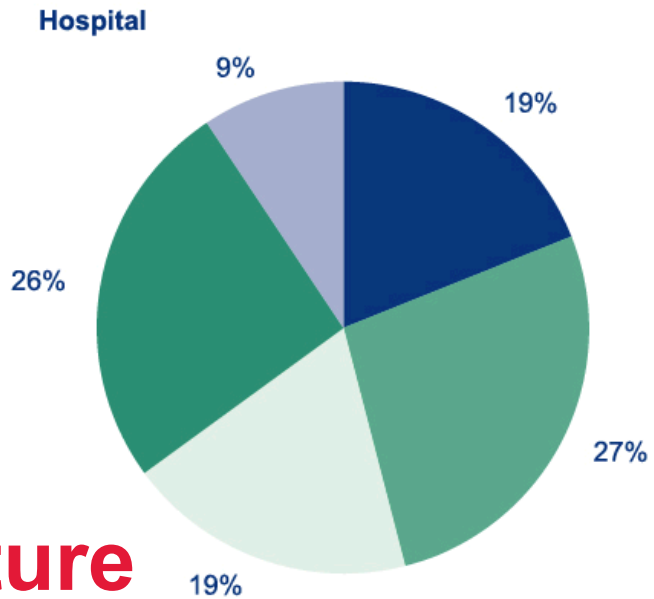
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Expenditure on asthma by health sector and age

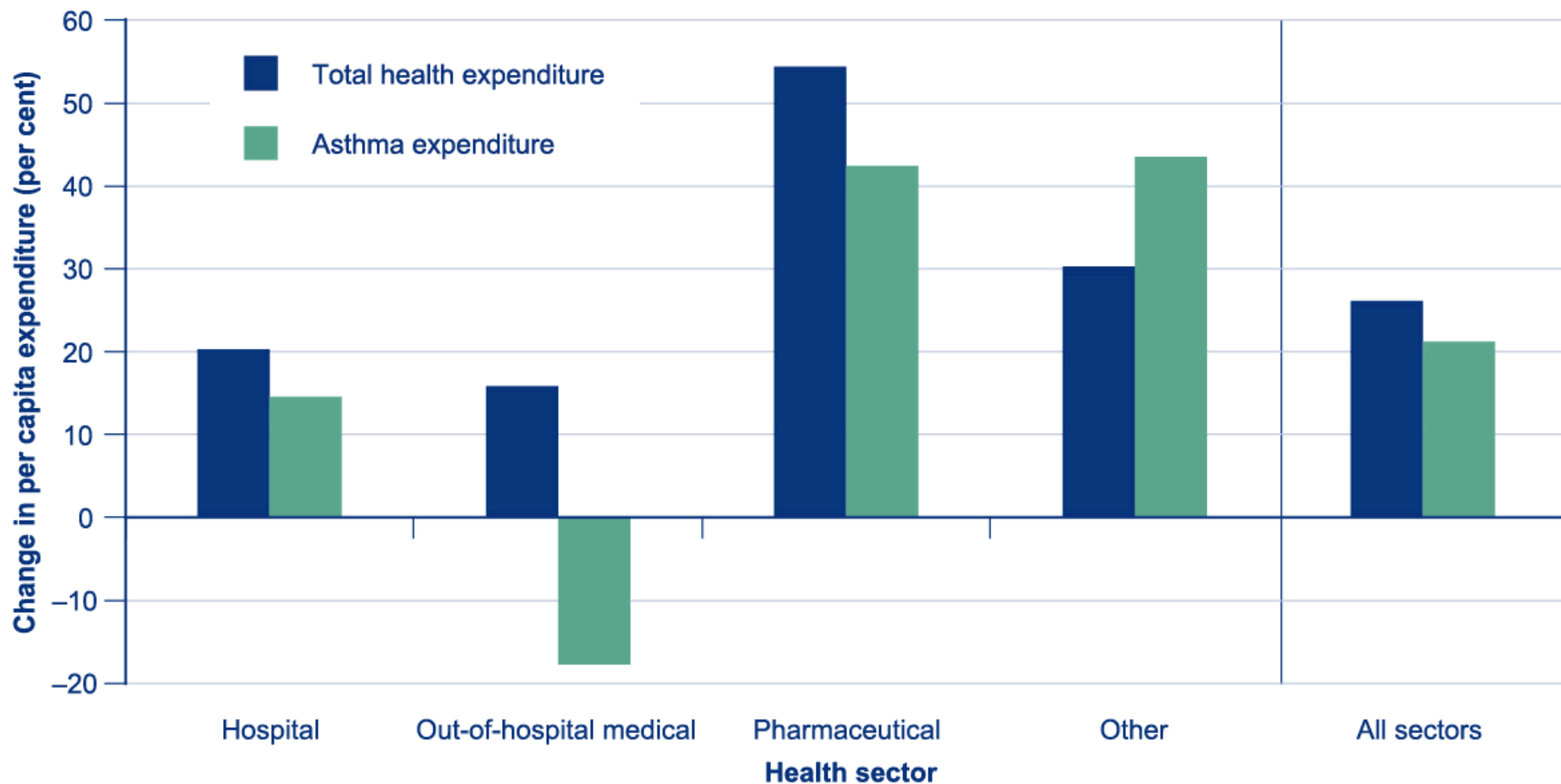
Australia, 2000–01



Source: AIHW health care expenditure database.

Change in per capita health expenditure (total and for asthma) by health sector

Australia, 1993–94 to 2000–01



Source: AIHW health care expenditure database.



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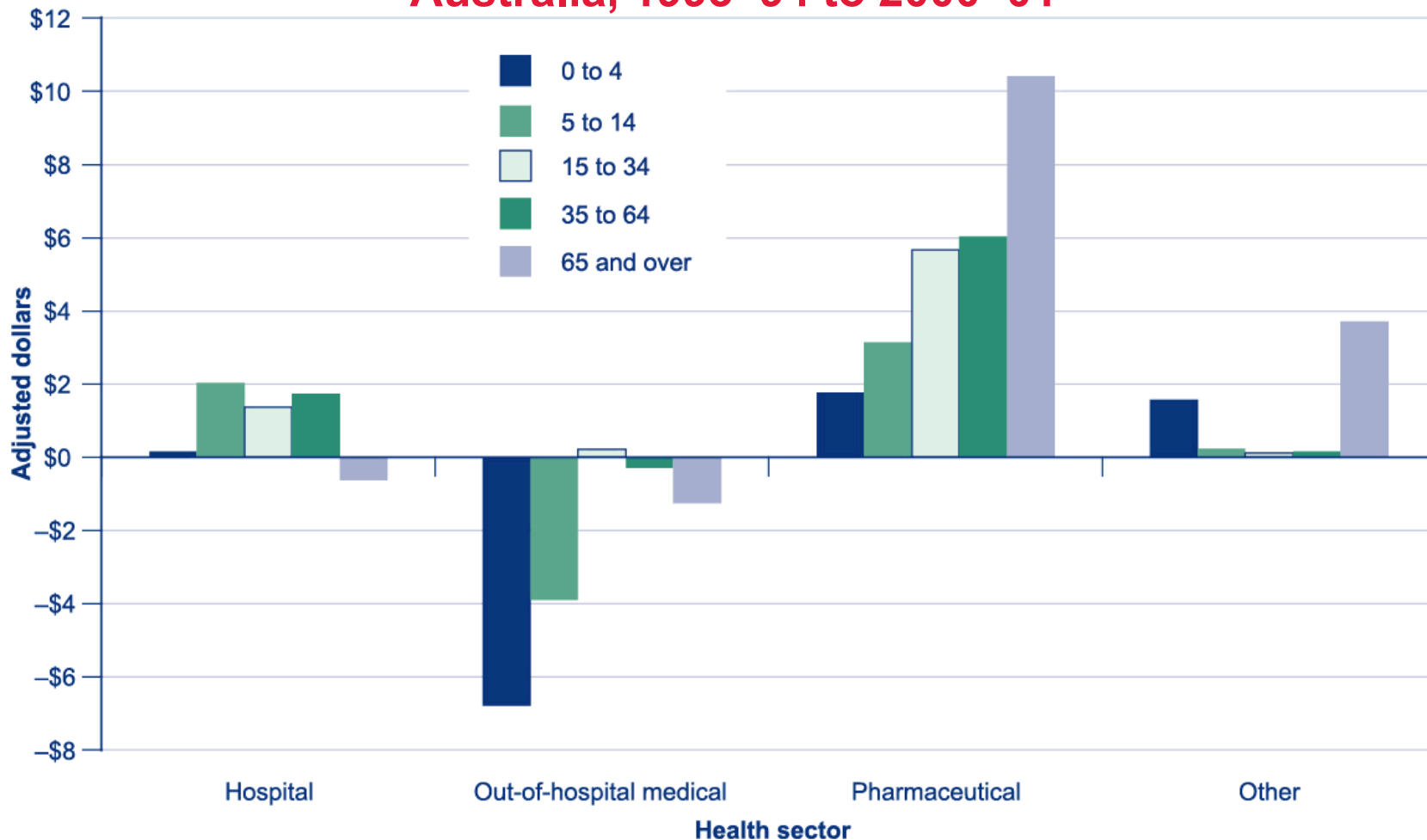
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Change in per capita expenditure on asthma by health sector and age

Australia, 1993–94 to 2000–01



Source: AIHW health care expenditure database.



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