



# Lumos Sample Practice Report

General Practice Report: February 2020



## Sample Practice

### Sample Primary Health Network

Lumos is an ethically approved program that securely links encoded data from general practices to other health data in New South Wales (NSW), including hospital, emergency department, mortality, and others. This is done under strict data governance processes and in partnership between Primary Health Networks (PHNs) and the NSW Ministry of Health.

Lumos presents an opportunity to understand how patients in NSW interact with the health system while ensuring patients' confidentiality. This would not be possible without the support of the practices that have participated.

Data extraction was carried out in November 2019. The data in this report covers the five year period from 1 July 2014 to 30 June 2019.

## Overview

[Sample Practice] is presented alongside the combined data of all other participating practices in [Sample Primary Health Network], and also from all participating practices from all PHNs. Where possible, comparisons are drawn with the NSW population.

[Sample Practice] will be referred to as "This practice" throughout the report. The combined data of all participating practices in the same PHN, [Sample Primary Health Network], will be referred to as "This PHN" throughout the report.

This report pertains to [n] practices in NSW comprising:

- Western Sydney PHN: [WSYD\_n]
- Northern Sydney PHN: [NSYD\_n]
- South Eastern NSW PHN: [SENSW\_n]
- Western NSW PHN: [WNSW\_n]
- Murrumbidgee PHN: [M\_n]
- North Coast PHN: [NC\_n]
- Nepean Blue Mountains PHN: [NBM\_n]
- South Western Sydney PHN: [SWSYD\_n]
- Hunter New England and Central Coast PHN: [HNECC\_n]
- Central and Eastern Sydney PHN: [CES\_n]

In the five years to 30 June 2019:

[xxx]

patients visited this practice

[xx%]

of these patients participate in the Integrated Care Program

[xxx]

patients visited a different participating practice in this PHN

[xx%]

of these patients participate in the Integrated Care Program

[xxx]

patients, on average, visited a participating practice in this PHN

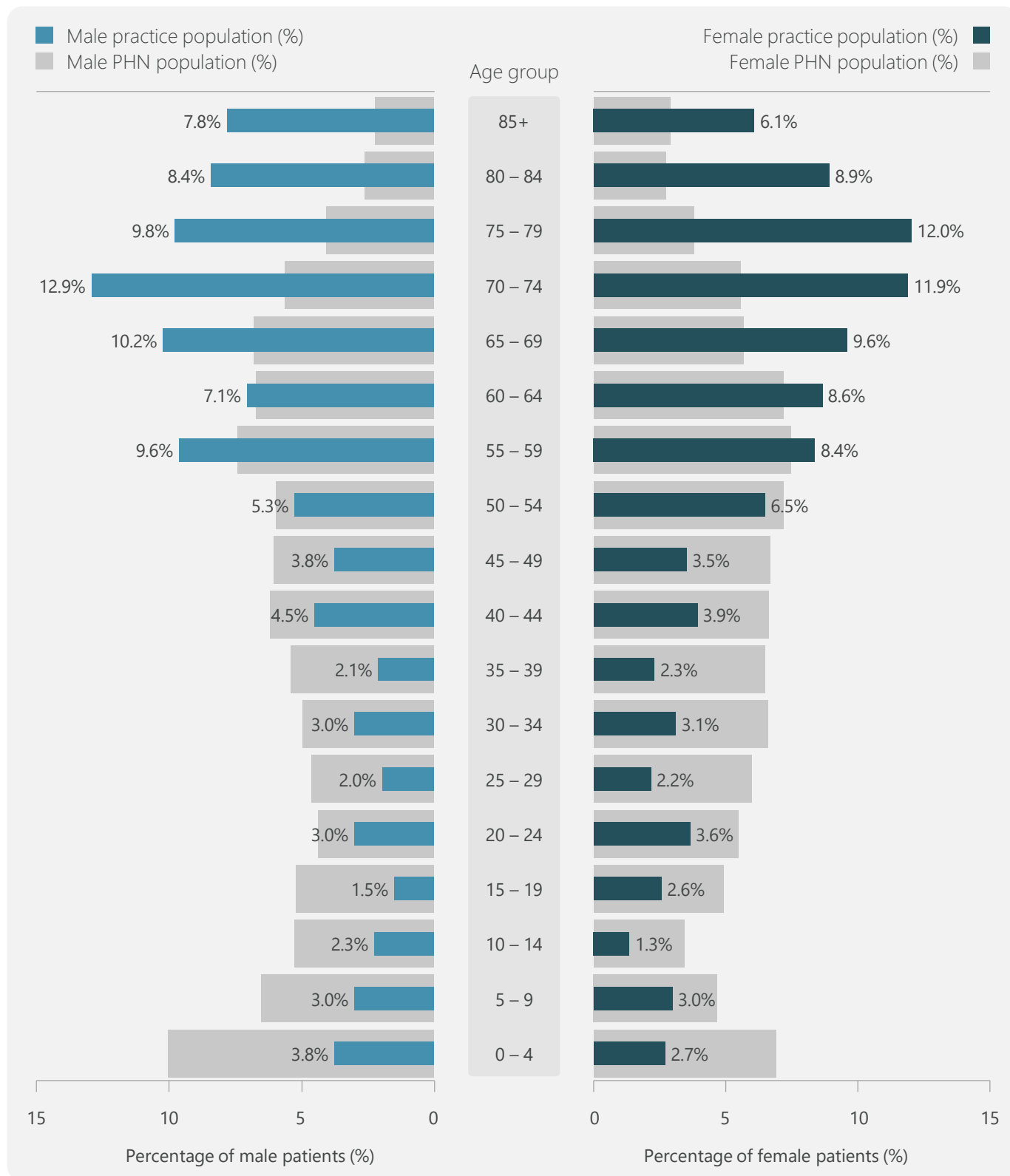
[xxx]

patients, on average, visited a participating practice in all PHNs

Subsequent pages of this report provide insights around patient journeys regarding hospital admissions, ED presentation and death. Any differences in the age and sex distributions identified on this page may explain any differences that may be identified throughout the remainder of this report around the patient journeys for this practice as compared to all participating practices in the same PHN.

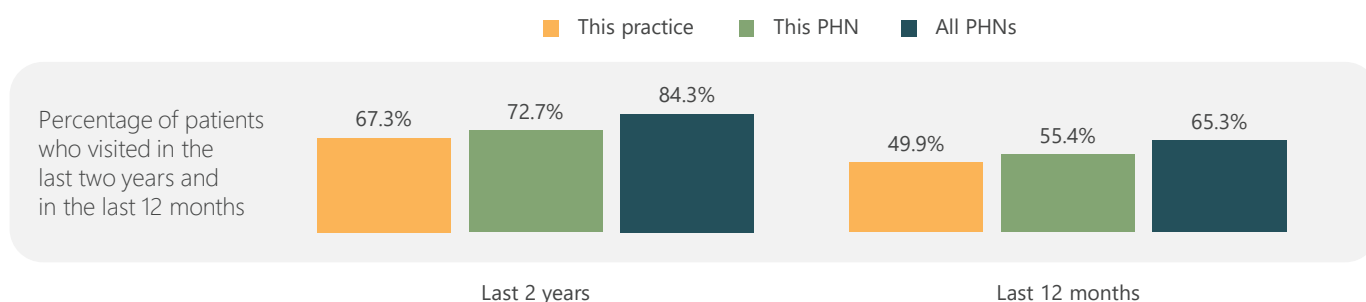
### What patient population came to this practice in the past year?

Among patients who visited this practice in the 12 months to 30 June 2019, what was their age and sex distribution and how does this compare to all participating practices in the same PHN?



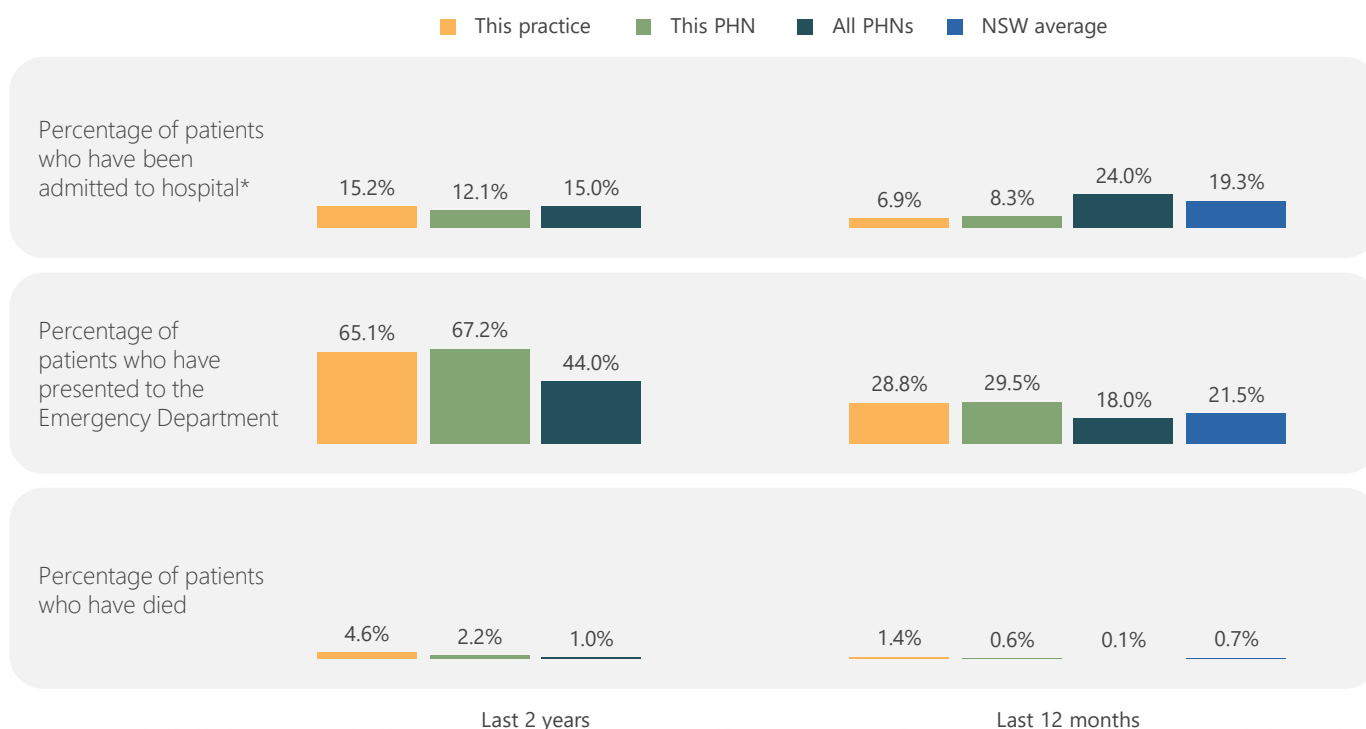
## Who has recently visited this practice?

Of the [1,000] patients who visited this practice in the last 5 years, what was their activity in the last 2 years, and in the last 12 months, compared to all participating practices in the same PHN and in all PHNs?



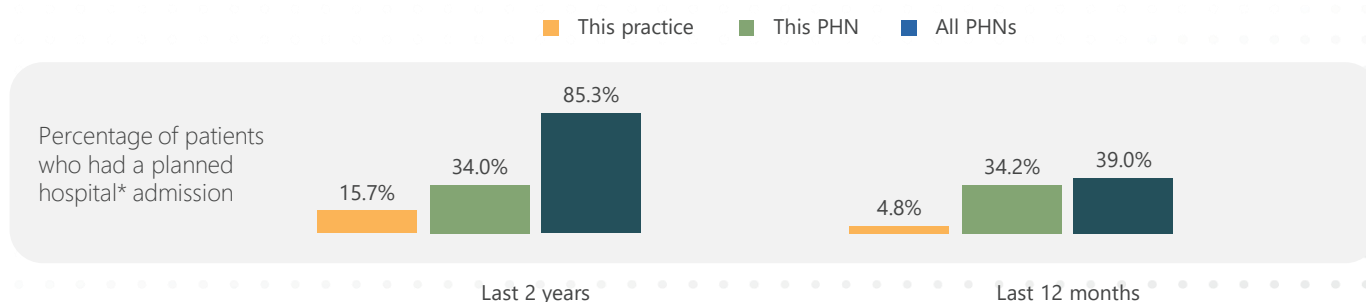
## How commonly do patients go to hospital or die?

Among the [1,000] patients who visited this practice in the last 2 years, what proportion have been admitted to hospital\* or presented to the ED or died over the past 2 years, and in the last 12 months, compared to all participating practices in the same PHN, in all PHNs, and the average of NSW patients overall^?



## What is the proportion of unplanned hospital admissions?

Among the patients who visited this practice in the last 2 years, what proportion were unplanned hospital admissions#, compared to all participating practices in the same PHN and in all PHNs?



\* Private hospital data were unavailable after 30/06/2018 at the time of data linkage. Therefore, private hospital admissions have been excluded.

^ Derived from public hospital separation and ED presentation rates published by the AIHW and death rates published by the ABS for NSW, July 2017 to June 2018.

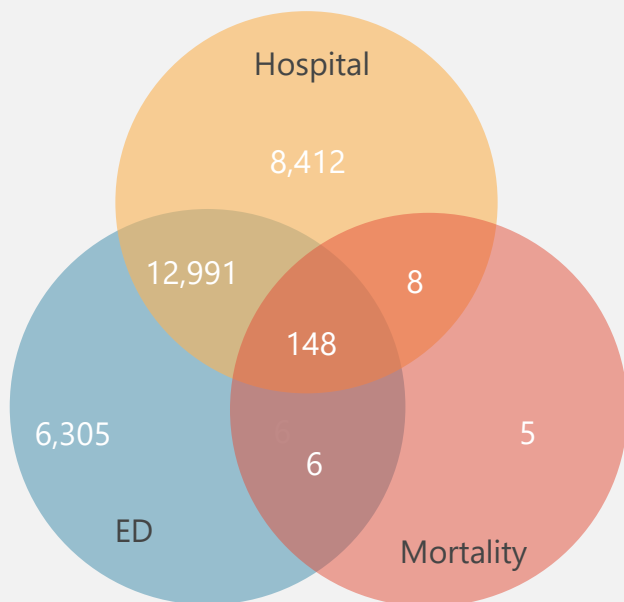
# Unplanned hospitalisations are defined as "In the opinion of the treating clinician, the admission was an emergency, that is, care or treatment was required within 24 hours. (Public hospital only)"

Reminder: Any differences that are seen on this page may be accounted for by any differences identified on page 1 in the age and sex distribution chart.

## How many patients had any combination of ED presentations, hospital admissions or death?

How many patients from this practice had any combination of ED presentations, hospital admissions or death in the last 12 months, compared to all participating practices in the same PHN?

Of the 45,356 patients who visited this practice in the last 12 months:



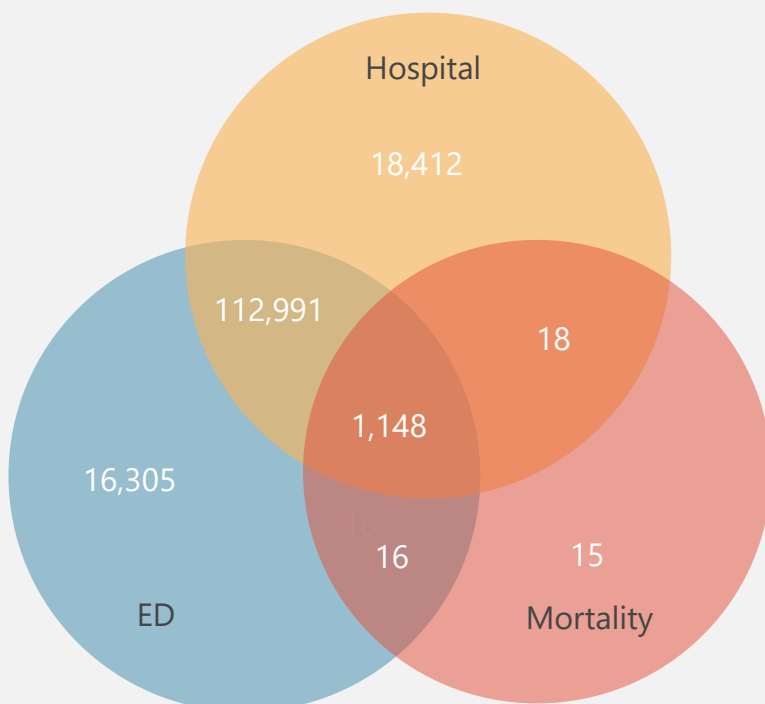
17,481 had no visit to ED, or hospital or died (38.5%)

19,450 presented to ED (42.9%)

21,559 were admitted to hospital (47.5%)

167 died (0.4%)

Of the 266,386 patients who visited any other participating practice in this PHN in the last 12 months:



117,481 had no visit to ED, or hospital or died (44.1%)

130,460 presented to ED (49.0%)

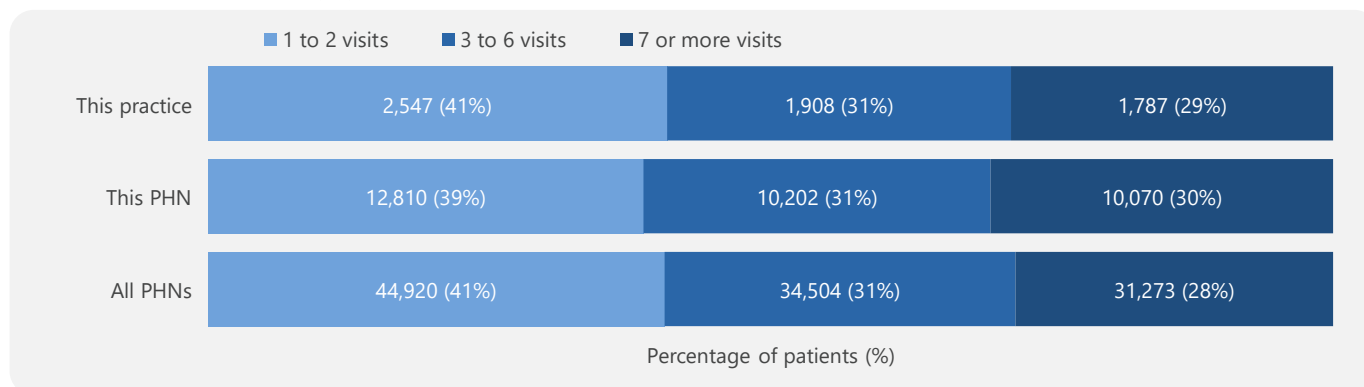
132,569 were admitted to hospital (49.8%)

1,197 died (0.4%)

## How frequently did patients come to this practice in the past year?

Of the [xxx] patients who visited this practice in the last 12 months, how frequent were their visits within the last 12 months, compared to all participating practices in the same PHN and in all PHNs?

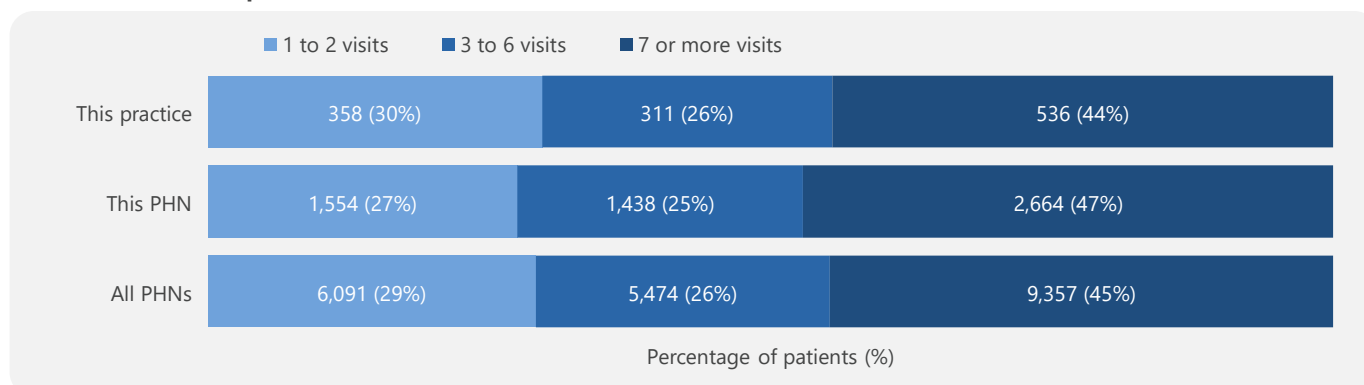
### Visited a participating general practice



## How often do frequently and infrequently attending patients at this practice go to hospital?

Of the patients xxx who visited this practice in the last 12 months and were admitted to hospital\* in the last 12 months, how frequent were their GP visits to this practice over the past year, compared to patients from all participating practices in the same PHN and in all PHNs?

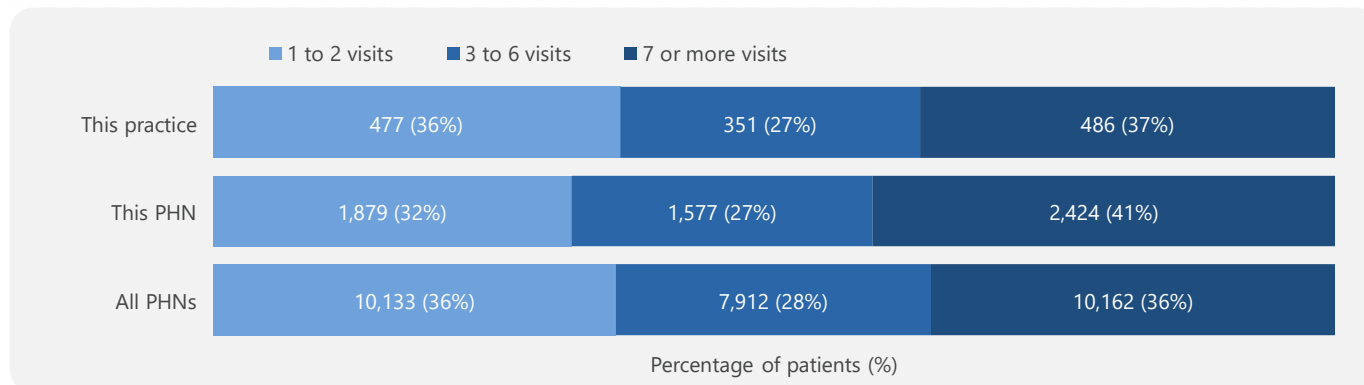
### Admitted to hospital



## How often do frequently and infrequently attending patients at this practice go to the ED?

Of the xxx patients who visited this practice in the last 12 months and presented to the ED in the last 12 months, how frequent were their GP visits to this practice over the past year, compared to patients from all participating practices in the same PHN and in all PHNs?

### Presented to emergency department

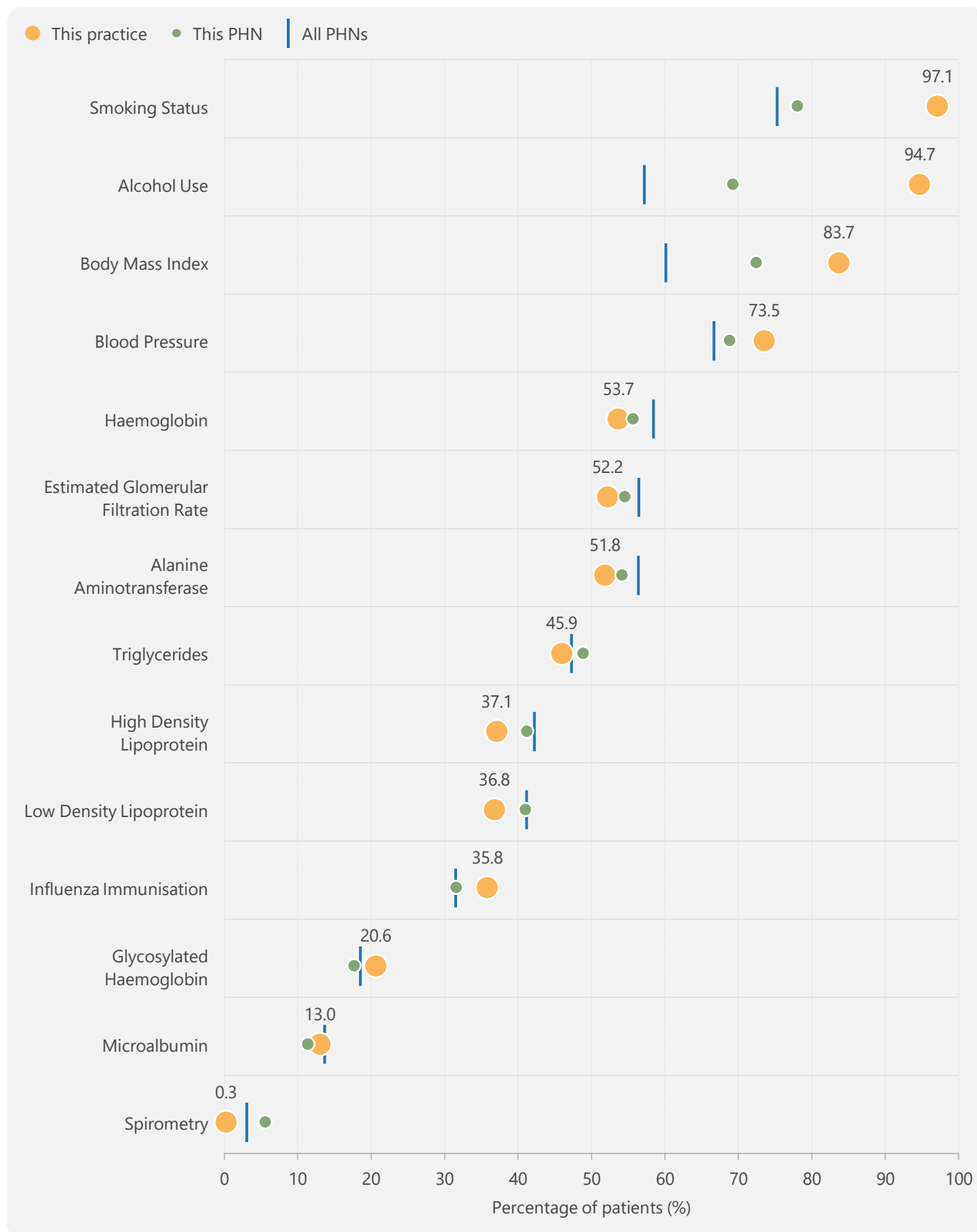


\* Private hospital data were unavailable after 30/06/2018 at the time of data linkage and are therefore excluded.

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## How many patients have the following items recorded\* in this practice, in the same PHN and in all PHNs?

What proportion of the **xxx** patients who visited this practice in the last 12 months have ever had the following items recorded, compared to all participating practices in the same PHN and in all PHNs?

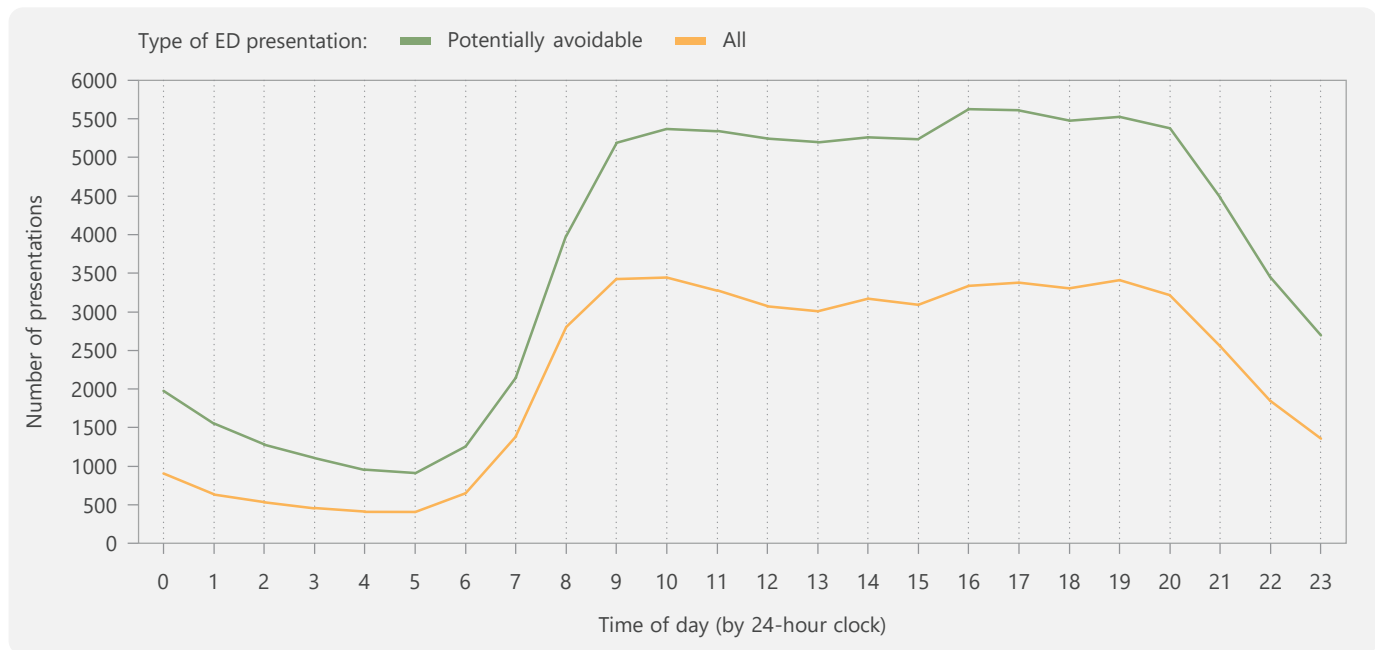


\* Not all items are relevant for all patients. Therefore the percentage of patients with an item recorded for relevant patient groups will be equal to or higher than the percentage reported above (e.g. Spirometry is not required for all patients).

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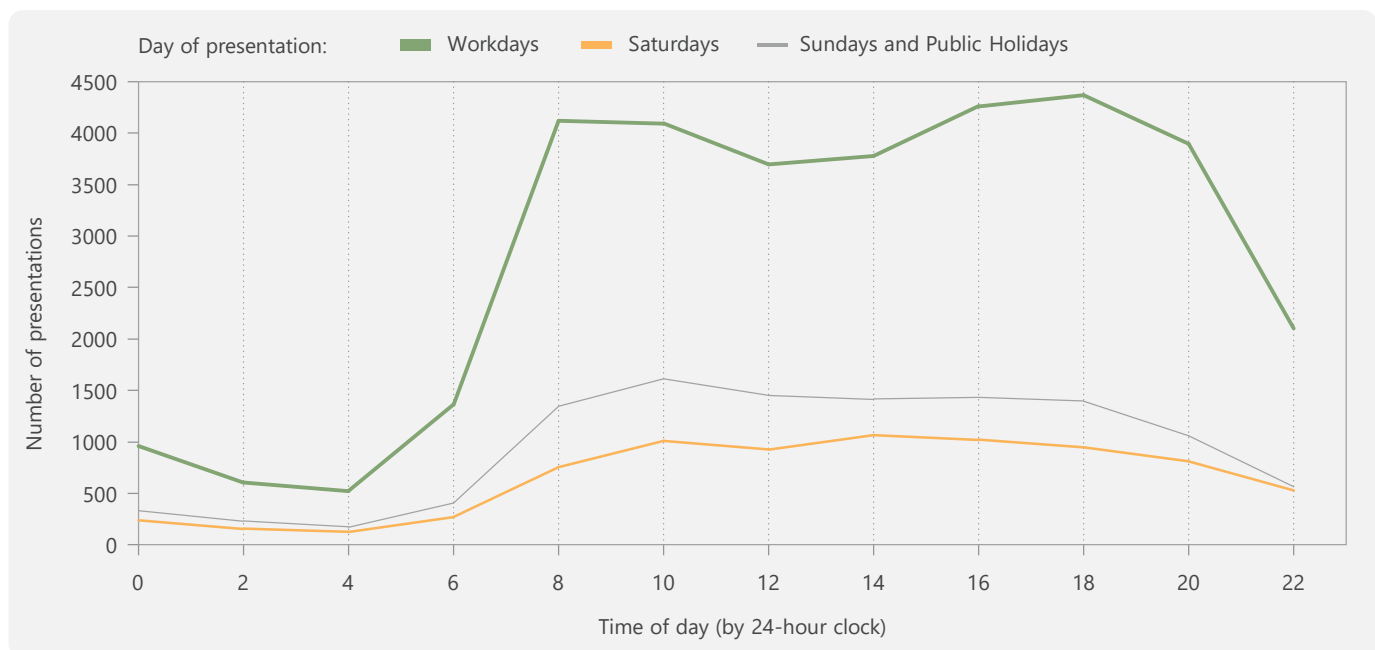
## When do potentially avoidable ED visits occur for patients from this practice?

Of the **xxx** patients who visited this practice in the past 2 years and presented to the ED in the last 12 months, how many were potentially avoidable\* presentations and at what hour of the day did these presentations occur, as compared to all ED presentations from this practice?



## When do potentially avoidable ED visits occur on weekdays, Saturdays and Sundays, on average, for patients from this practice?

Of the **xxx** patients who visited this practice in the past 2 years and presented with a potentially avoidable\* ED visit in the last 12 months, at what time of day (in 2-hour increments) did these potentially avoidable presentations occur, on average<sup>^</sup>, for patients from this practice?



\* Potentially avoidable ED visits are defined, according to the Australian Institute of Health and Welfare, as Triage category 4 and 5 emergency department presentations of patients that did not arrive by ambulance, or police or correctional vehicle and were not admitted to hospital, were not referred to another hospital, and did not die. <https://meteor.aihw.gov.au/content/index.phtml/itemId/630030>

<sup>^</sup> The average for each series is determined as the sum of all potentially avoidable ED presentations over the last 12 months for each 2 hourly block on the given day (weekday, Saturday, or Sunday/public holiday) divided by the total number of days that were summed over.

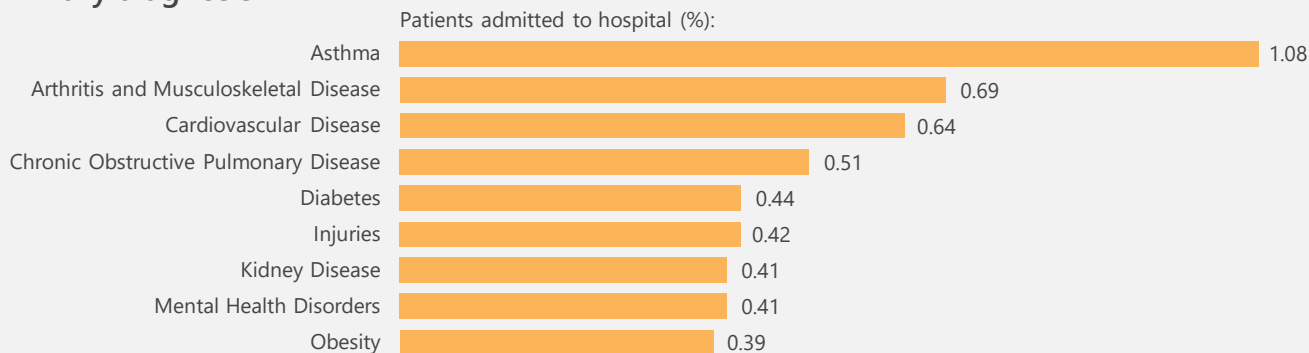
Reminder: Any differences that are seen on this page may be accounted for by any differences identified on page 1 in the age and sex distribution chart.

## How many patients were admitted to hospital for the following conditions?

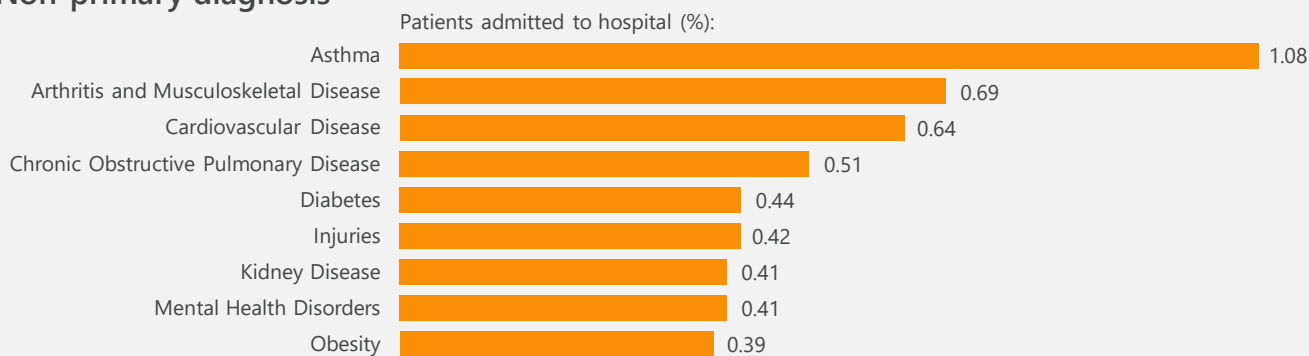
Of the **xxx** patients who visited this practice in the last 2 years and were admitted to hospital in the last 12 months, what proportion were admitted to hospital for the following conditions as a primary or non-primary diagnosis, compared to all practices in the same PHN?

### This practice

#### Primary diagnosis

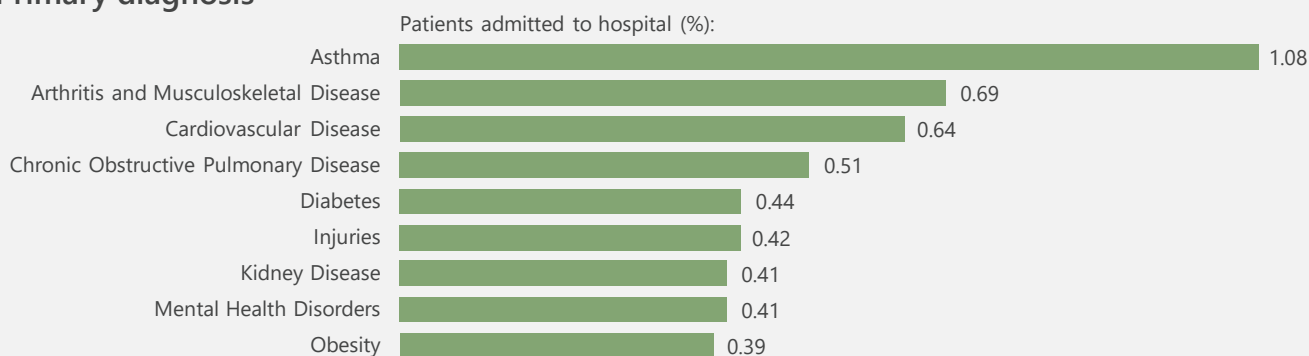


#### Non-primary diagnosis

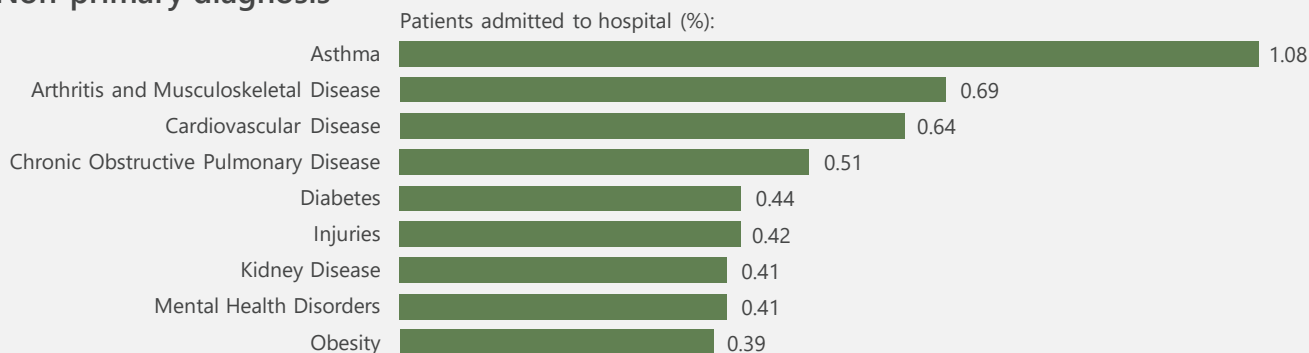


### This PHN

#### Primary diagnosis



#### Non-primary diagnosis



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Note: ICD-10-AM codes to identify hospitalisations will be provided in the final report.