

# **COVID-19 Weekly Surveillance Report**

### **Table of Contents**

Summary for the week 10 April to 16 April 2023 (inclusive)	2
Case data	3
Figure 1. COVID-19 cases by notification week and test type, Western Australia, 03 January 2022 to 10 April 2023.	
Figure 2. COVID-19 cases by age group and sex, Western Australia, 10 April to 16 April 2023	4
Table 1. COVID-19 reinfections, Western Australia, 02 March 2022 to 16 April 2023	5
Figure 3. 7-day moving average of COVID-19 cases per 100,000 population by Australian jurisdiction, December 2021 to 11 April 2023.	
Figure 4. 7-day moving average of COVID-19 age-specific rates per 100,000 population, Western Australia, 06 February 2022 to 16 April 2023	6
Figure 5. 7-day moving average of COVID-19 case rates per 100,000 population by health region of residence, Western Australia, 08 February 2022 to 16 April 2023	7
Table 2. Number of COVID-19 cases and rates per 100,000 population by reporting week and health region of residence, Western Australia.	E
Figure 6 (a). Locally acquired COVID-19 weekly case rates per 100,000 population by Local Governmental Area, Western Australia, 10 April to 16 April 2023	
(b) Locally acquired COVID-19 weekly case rates per 100,000 population by Local Government Area, Perth metropolitan area, 10 April to 16 April 2023.	
Aboriginal case summary	. 10
Figure 7. COVID-19 case rates per 100,000 population and rate ratio by Aboriginal status and notificati date, Western Australia, 02 October 2022 to 16 April 2023.	
Hospitalisations, intensive care unit (ICU) inpatients and deaths	. 11
Figure 8. 7-day average of COVID-19 cases currently in hospital or in ICU, 09 January 2022 to 16 Apri 2023.	
Table 3. Number of COVID-19 related deaths by vaccination status and age group, 10 April to 16 April 2023 and 01 January 2022 to 16 April 2023	
Testing data	. 13
Figure 9. The number of COVID-19 polymerase chain reaction tests and positivity by laboratory categorand week of specimen collection, 09 February 2020 to 16 April 2023	
Appendix 1	. 14
Number of regional cases by postcode, 10 April – 16 April 2023	. 14

# Summary for the week 10 April to 16 April 2023 (inclusive)

In the week of 10 April to 16 April 2023 there were:

- 3,267 COVID-19 cases reported
  - o 407 diagnosed by polymerase chain reaction (PCR) tests
  - o 2,860 diagnosed by rapid antigen tests (RAT)
- 1,091 were reinfections (see definition in Table 2)
- 55 new hospital admissions and 2 new admissions into an intensive care unit
- 6 deaths, aged 48 98 years old
- 4,201 COVID-19 PCR tests conducted

### Surveillance summary

This week, **case numbers** increased by 2% compared to the previous week. Cases diagnosed by PCR increased by 12% and by RAT increased by 1%. **Reinfections** comprised 33% of total cases this week, compared with 36% last week.

The number of **PCR tests** conducted increased by 9% compared to the previous week, with a 7-day average positivity rate of 10.6%.

The moving seven-day average **case rate** per 100,000 population increased in all regions except the Kimberley and Southwest regions, which remained steady, and the Goldfields and Pilbara regions, which decreased. The seven-day average case rate for the Perth metropolitan area (18 cases/100,000 population) is approximately 38% higher than the non-metropolitan regions combined (13 cases/100,000 population).

The seven-day average **age-specific rate** increased in all age groups, except the 0 - 19 age group, which decreased. The highest rates were in the 70+ years age group (23 cases/100,000 population), and the lowest rates in the 0 - 9 years age group (8 cases/100,000 population).

The 7-day average of **hospitalised cases** increased by 19% from 115 last week to 137 this week, while **intensive care unit cases** remained the same at 2 this week. **New hospital admissions** related to COVID-19 increased by 57% from 35 last week to 55 this week, and **direct intensive care unit admissions** remained the same at 2 this week.

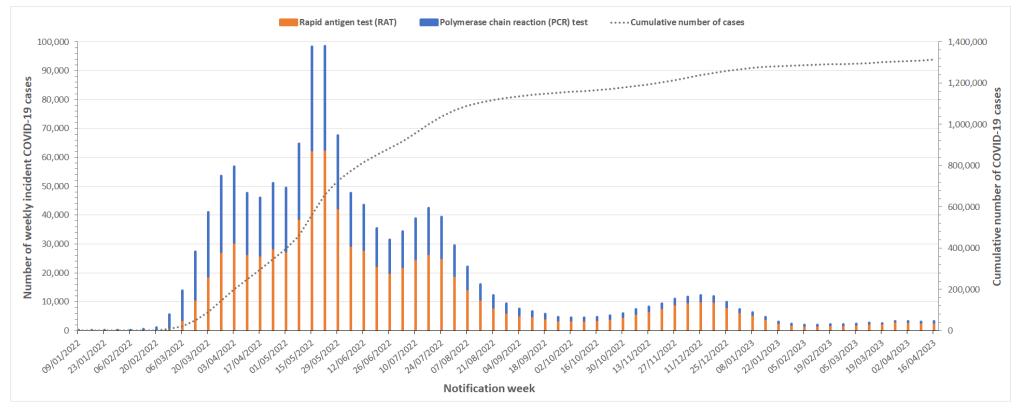
**Deaths** increased this week with 6 deaths reported compared to 2 last week.

This week, 74 cases were reported in the **Aboriginal population**, a 24% decrease compared to last week. Case rates in the Aboriginal population are lower than the non-Aboriginal population, with a 7-day average rate ratio of 0.6 this reporting week. There were no deaths reported in the Aboriginal population this week.

**Nationally**, the moving seven-day average case rates decreased in all jurisdictions. South Australia reported the highest rate (25 cases/100,000 population) and Queensland the lowest rate (9 cases/100,000 population). The rate in Western Australia was 16 cases/100,000 population.

### Case data

Figure 1. COVID-19 cases by notification week and test type, Western Australia, 03 January 2022 to 16 April 2023.



#### Notes

Data sourced from Western Australia Department of Health dataset

Following the resumption of large passenger cruise vessels entering WA waters on 24<sup>th</sup> October 2022, overall daily and weekly COVID-19 notifications may intermittently be distorted by inclusion of vessel outbreak cases in WA data, irrespective of the place of residence of the cases Notification week refers to data for Monday to Sunday.

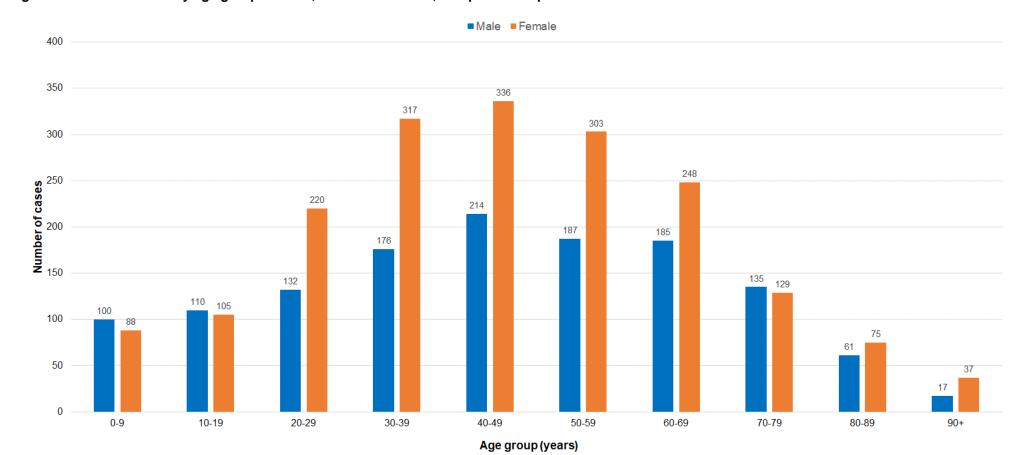


Figure 2. COVID-19 cases by age group and sex, Western Australia, 10 April to 16 April 2023.

Data sourced from Western Australia Department of Health dataset

Following the resumption of large passenger cruise vessels entering WA waters on 24<sup>th</sup> October 2022, overall daily and weekly COVID-19 notifications may intermittently be distorted by inclusion of vessel outbreak cases in WA data, irrespective of the place of residence of the cases

Higher case numbers in females relative to males, particularly in those aged 20-69 years, are likely due to increased propensity of women to seek and undertake testing, whether by RAT or PCR, rather than true differences in the incidence of infection

Sex data is partially incomplete due to the unavailability of this variable during rapid antigen test registration, resulting in a discrepancy to total case numbers reported for the week.

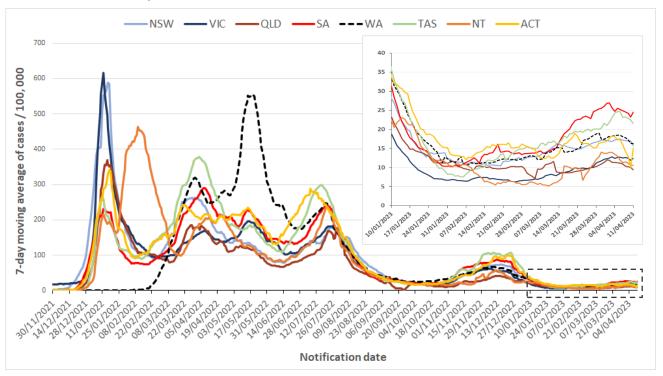
- Males: n=1,317 (41.5%) Females: n=1,858 (58.5%)
- Median age = 45 years; range: 0 to 105 years

Table 1. COVID-19 reinfections, Western Australia, 02 March 2022 to 16 April 2023.

Month	Number of reinfections *
Mar-2022	14
Apr-2022	30
May-2022	115
Jun-2022	871
Jul-2022	5,073
Aug-2022	5,738
Sep-2022	4,053
Oct-2022	2,991
Nov-2022	7,107
Dec-2022	11,179
Jan-2023	5,499
Feb-2023	3,579
Mar-2023	5,035
Apr-2023^	2,657
Total	53,941

<sup>\*</sup> Reinfection definition as per <u>Series of National Guidelines (SoNG)</u> published by the Communicable Disease Network Australia (CDNA): between 2<sup>nd</sup> March 2022 and 8<sup>th</sup> July 2022, COVID-19 reinfections were defined as a positive COVID-19 test that occurred more than 12 weeks after an initial infection. From 9 July 2022 to 13 October 2022, COVID-19 reinfections are defined as a positive COVID-19 test occurring 28 days after previously recovering from the virus. From 14 October 2022 to date, COVID-19 reinfections are defined as a positive COVID-19 test occurring 35 days after the date of positive test for the most recent infection.

Figure 3. 7-day moving average of COVID-19 cases per 100,000 population by Australian jurisdiction, 01 December 2021 to 11 April 2023.



Data sourced from the jurisdictional health department datasets

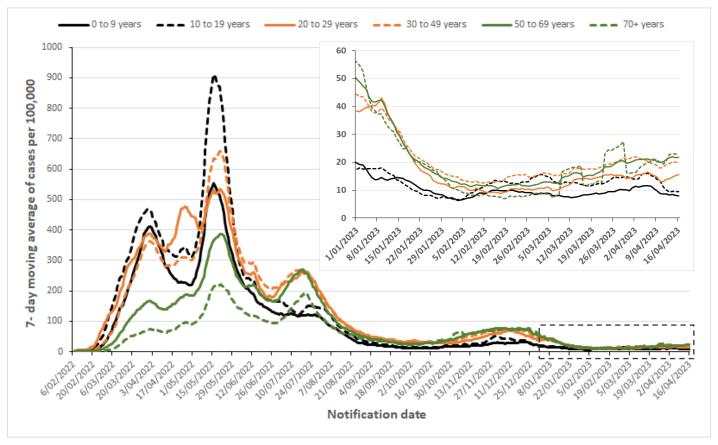
Notification date refers to the date in which a case is notified to the relevant jurisdictional health department

Data is only available up to and including Monday of current report week for all jurisdictions except Western Australia

Population denominators are sourced from Australian Bureau of Statistics December 2020 estimates.

<sup>^</sup> Data up to 17th April 2023 inclusive

Figure 4. 7-day moving average of COVID-19 age-specific rates per 100,000 population, Western Australia, 06 February 2022 to 16 April 2023.

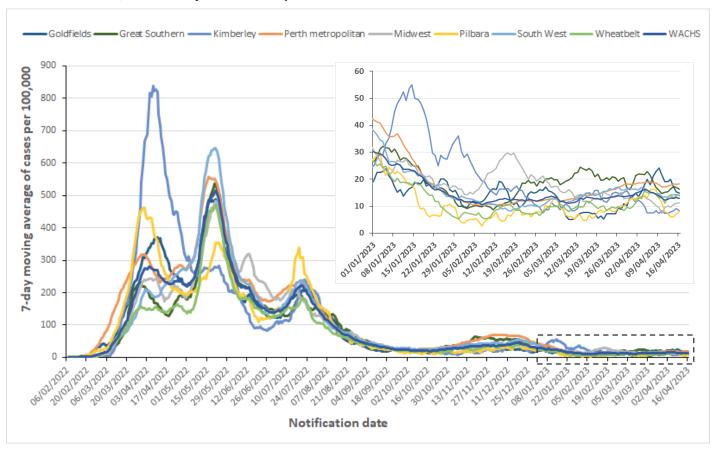


Data sourced from Western Australia Department of Health dataset

Notification date refers to the date in which a case is notified to Western Australia Department of Health

Following the resumption of large passenger cruise vessels entering WA waters on 24<sup>th</sup> October 2022, overall daily and weekly COVID-19 notifications may intermittently be distorted by inclusion of vessel outbreak cases in WA data, irrespective of the place of residence of the cases Population denominator sourced from Australian Bureau of Statistics June 2021 estimates.

Figure 5. 7-day moving average of COVID-19 case rates per 100,000 population by health region of residence, Western Australia, 08 February 2022 to 16 April 2023.



Data sourced from Western Australia Department of Health dataset

Notification date refers to the date in which a case is notified to Western Australia Department of Health

Western Australia Country Health Service (WACHS) region includes all the non-metropolitan regions: Central-Wheatbelt, Goldfields, Great Southern, Kimberley, Midwest, Pilbara and South West

Perth metropolitan region includes East Metropolitan Health Service, North Metropolitan Health Service and South Metropolitan Health Service Population denominator sourced from Australian Bureau of Statistics 2020 estimates.

Table 2. Number of COVID-19 cases and rates per 100,000 population by reporting week and health region of residence, Western Australia.

Health Region  Perth metropolitan region		Current	report week	Previous report week Week 03 April to 09 April 2023		
		Week 10 Apr	il to 16 April 2023			
		Number	Rates^	Number	Rates^	
		2,730	128	2,667		
WACHS Regio	ns	481	90	519	97	
	Goldfields	56	104	91	169	
	Great Southern	70	114	68	111	
	Kimberley	21	58	16	44	
	Midwest	49	79	41	66	
	Pilbara	33	53	46	73	
	South West	176	97	187	103	
	Wheatbelt	76	100	70	92	
Other*		56	-	20	-	
Total		3,267	121	3,206	120	

Data sourced from Western Australia Department of Health dataset

Notification date refers to the date in which a case is notified to Western Australia Department of Health

Western Australia Country Health Service (WACHS) region includes all the non-metropolitan regions: Central-Wheatbelt, Goldfields, Great Southern, Kimberley, Midwest, Pilbara and South West

Perth Metropolitan region includes East Metropolitan Health Service, North Metropolitan Health Service and South Metropolitan Health Service

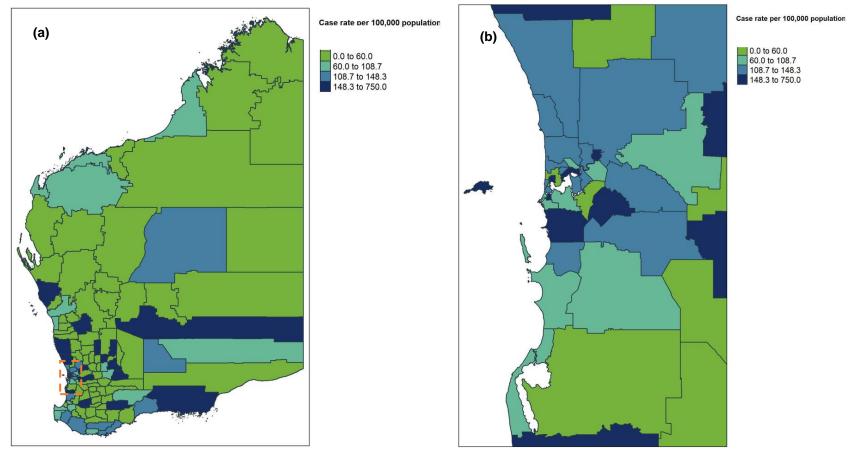
Following the resumption of large passenger cruise vessels entering WA waters on 24<sup>th</sup> October 2022, overall daily and weekly COVID-19 notifications may intermittently be distorted by inclusion of vessel outbreak cases in WA data, irrespective of the place of residence of the cases Population denominator is sourced from Australian Bureau of Statistics 2020 estimates.

<sup>\*</sup> Other includes cases with overseas and interstate residential addresses, and cases without residential address information

<sup>^</sup> Rates reported as cases per 100,000 population. The total rate excludes "Other" cases, as there is no denominator population representing this group.

Figure 6 (a). Locally acquired COVID-19 weekly case rates per 100,000 population by Local Government Area, Western Australia, 10 April to 16 April 2023.

### (b) Locally acquired COVID-19 weekly case rates per 100,000 population by Local Government Area, Perth metropolitan area, 10 April to 16 April 2023.



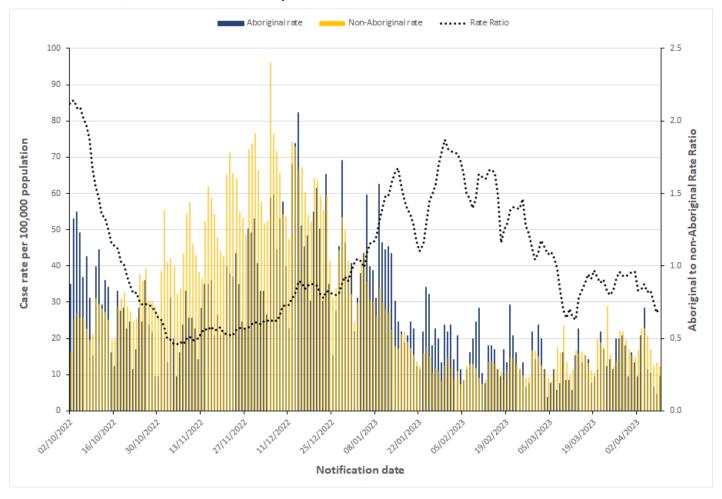
#### Notes

Data sourced from Western Australia Department of Health dataset Notification date refers to the date in which a case is notified to Western Australia Department of Health Areas on the map are defined by Local Government Area (LGA) boundaries

Cases are represented on the map according to their place of usual residence in an LGA (no information for specific location of acquisition) Population denominator is sourced from Australian Bureau of Statistics 2020 estimates.

## **Aboriginal case summary**

Figure 7. COVID-19 case rates per 100,000 population and rate ratio by Aboriginal status and notification date, Western Australia, 02 October 2022 to 16 April 2023.



#### Notes

Data sourced from Western Australia Department of Health dataset

Notification date refers to the date in which a case is notified to Western Australia Department of Health

Aboriginal status is defined as those who identify as 'Aboriginal and Torres Strait Islander (TSI) origin'/'Aboriginal but not TSI origin'/'TSI but not Aboriginal origin'

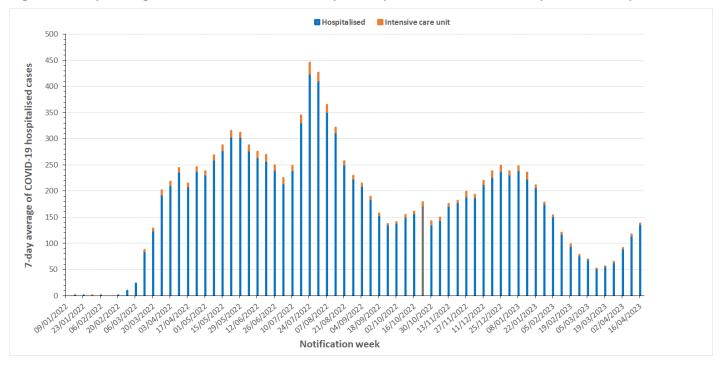
Cases where Aboriginal status was not stated were designated as non-Aboriginal

Population denominator data were sourced from Australian Bureau of Statistics 2020 estimates

Rate ratio is calculated by dividing the Aboriginal rate by the non-Aboriginal rate, with a 7-day average of the respective rate ratios applied to smooth the trend

# Hospitalisations, intensive care unit (ICU) inpatients and deaths

Figure 8. 7-day average of COVID-19 cases currently in hospital or in ICU, 09 January 2022 to 16 April 2023.



#### **Notes**

Data sourced from Western Australia Department of Health dataset

Notification week refers to data for Monday to Sunday

'Hospitalised' relates to active and cleared COVID-19 cases that are current hospital inpatients. The reason for admission may be unrelated to COVID-19 for some people

'Intensive care unit' (ICU) is a subset of hospitalised and relates to active/cleared COVID-19 cases that are currently in an ICU
The definition of COVID-19 related hospitalisation was updated on 21 October 2022 to exclude cases where more than 60 days have passed since their positive COVID-19 test. This new definition more accurately captures cases in whom COVID-19 may have contributed to their reason for ongoing hospitalisation. Data reported after 21 October cannot be compared directly to data recorded prior to that date.

Table 3. Number of COVID-19 related deaths by vaccination status and age group, 10 April to 16 April 2023 and 01 January 2022 to 16 April 2023.

	Current report week	Year 2022 to date
	Week 10 Apr – 16 Apr 2023	1 Jan 2022 – 16 Apr 2023
Number of COVID-19 vaccine doses	Deaths (n= 6)	Deaths (n= 989)
0	1 (16.7%)	156 (15.8%)
1	0 (0%)	29 (2.9%)
2	1 (16.7%)	105 (10.6%)
3+	4 (66.6%)	699 (70.7%)
Age group (years)		
0-9	0 (0%)	0 (0%)
10-19	0 (0%)	2 (0.2%)
20-29	0 (0%)	0 (0%)
30-39	0 (0%)	6 (0.6%)
40-49	1 (16.7%)	12 (1.2%)
50-59	0 (0%)	30 (3.0%)
60-69	0 (0%)	65 (6.6%)
70-79	1 (16.7%)	184 (18.6%)
80-89	0 (50.0%)	379 (38.4%)
90+	4 (66.6%)	311 (31.4%)

Data sourced from Western Australia Department of Health dataset

Number of vaccination doses sourced from Australian Immunisation Register

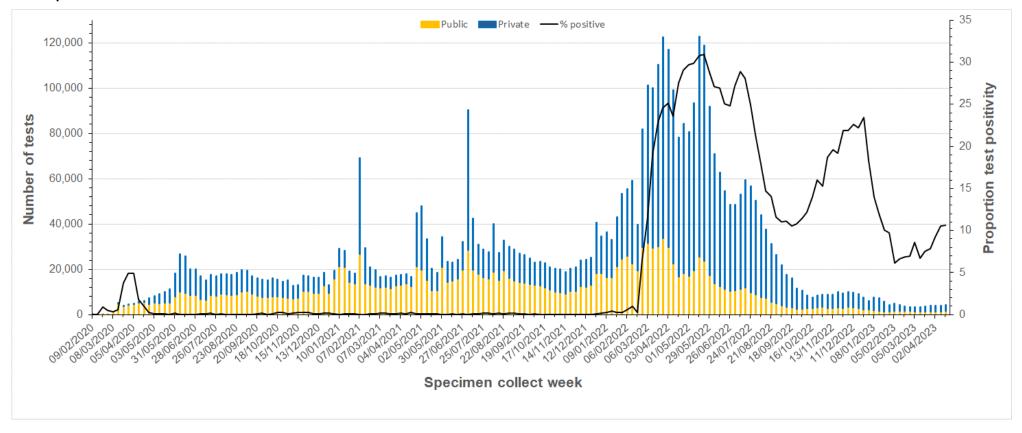
A high proportion of the WA population (16 years and above) is fully vaccinated against COVID-19 (as of 24<sup>th</sup> March 2023 – 79.5% for 3+ doses, >95% for 2 doses), therefore interpretation of people whom have died with both 3+ and 2 doses requires consideration within this context. Vaccination data can be found on Australian Government website located <a href="https://example.com/here/beta/40/24/">https://example.com/here/beta/40/24/</a>

9 previously reported deaths were re-classified as non-COVID-related since most recent surveillance report

Deaths are counted by notification date and may include historical deaths that occurred (i.e. date of death) prior to the current report week Deaths are not necessarily associated with hospital and/or ICU admissions

# **Testing data**

Figure 9. The number of COVID-19 polymerase chain reaction tests and positivity by laboratory category and week of specimen collection, 09 February 2020 to 16 April 2023.



#### Notes

Data sourced from Western Australian public and private pathology laboratories Specimen collect week refers to specimens collected between Monday to Sunday

Number of tests includes both positive and negative tests

From 01 October 2022, testing at private pathology providers requires a referral from a GP

From 03 March 2023, Murdoch COVID-19 public PCR testing clinic closed. From this time forward public access to COVID-19 PCR testing is only via GP referral to private pathology providers.

# **Appendix 1**

### Number of regional cases by postcode, 10 April - 16 April 2023

WACHS Regions	Postcode	Week 10 Apr to 16 Apr 2023	WACHS Regions	Postcode	Week 10 Apr to 16 Apr 2023	WACHS Regions	Postcode	Week 10 Apr to 16 Apr 2023
Goldfields	6429	<5	South West	6220	<5	Wheatbelt (continued)	6403	<5
	6430	20		6224	<5		6411	<5
	6432	6		6225	5		6415	9
	6436	<5		6226	<5		6418	<5
	6442	<5		6230	50		6475	<5
	6450	22		6232	9		6479	<5
	6646	<5		6233	31		6489	<5
Great	6323	<5		6236	<5		6501	<5
Southern	6324	<5		6237	<5		6502	<5
	6330	52		6239	<5		6503	<5
	6331	<5		6258	5		6510	<5
	6333	6		6260	<5		6511	<5
	6341	<5		6262	<5		6516	<5
	6348	<5		6275	<5		6560	<5
	6395	<5		6280	31		6562	<5
Kimberley	6725	13		6281	9		6564	<5
	6726	<5		6282	<5		6566	5
	6743	<5		6284	<5			
	6765	<5		6285	10			
	6770	<5		6286	<5			
Midwest	6525	<5		6290	<5			
	6530	30		6398	<5			
	6532	11	Wheatbelt	6041	7			
	6623	<5		6044	<5			
	6707	<5		6302	<5			
Pilbara	6712	<5		6304	<5			
	6713	<5		6312	<5			
	6714	14		6315	<5			
	6720	<5		6355	<5			
	6721	<5		6368	<5			
	6722	<5		6369	<5			
	6751	<5		6390	<5			
	6754	6		6401	16			

#### Notes

Data sourced from Western Australia Department of Health dataset

Exact number of cases less than 5 not reported for confidentiality

Notification date refers to the date in which a case is notified to Western Australia Department of Health

Case data is based on the residential postcode of each case

Western Australia Country Health Service (WACHS) includes Goldfields, Great Southern, Kimberley, Midwest, Pilbara, South West and Wheatbelt public health regions

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