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Department of Health

The Epidemiology of Notifiable Sexually Transmitted Infections and Blood-Borne Viruses in Western Australia 2023 - Appendix

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Disclaimer

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Abbreviations

ABS	Australian Bureau of Statistics
ACT	Australian Capital Territory
ASR(s)	Age-standardised notification rate(s) per 100,000 population
AUS (Total)	Australia
BBV(s)	Blood-borne virus(es)
DoH	Department of Health Western Australia
IDC(s)	Immigration detention centre(s)
NNDSS	National Notifiable Diseases Surveillance System
NSW	New South Wales
NT	Northern Territory
PHU	Public Health Unit
QLD	Queensland
SA	South Australia

STI(s)	Sexually transmitted infection(s)
TAS	Tasmania
VIC	Victoria
WA	Western Australia
WANIDD	Western Australian Notifiable Infectious Diseases Database

Terminology used in Tables/Figures

Age-specific rate	Notification rate for a specified age group. Both numerator and denominator refer to the same age group. Expressed per 100,000 persons in that age group
Age-standardised rate (ASR)	Notification rate adjusted to take account of differences in age composition when rates for different populations are compared. Expressed per 100,000 population
Crude rate	Calculated by dividing the number of notifications by the population. Not adjusted for age or other factors. Expressed per 100,000 population
Infectious syphilis	Primary syphilis + secondary syphilis + early latent (less than two years duration)
N/A	Not applicable
Non-infectious syphilis	Syphilis infection of more than two years or unknown duration
Notification rate	See crude rate and age-standardised rate
Number	Number of notifications reported to the DoH/state and territory health authorities
Rate ratio (Aboriginal:non-Aboriginal)	Aboriginal to non-Aboriginal rate ratio = ASR (Aboriginal) / ASR (non-Aboriginal)
Rate ratio (Male:Female)	Male to female rate ratio = ASR (male) / ASR (female)
Total hepatitis B notifications	Newly acquired hepatitis B + unspecified hepatitis B
Total hepatitis C notifications	Newly acquired hepatitis C + unspecified hepatitis C
Total syphilis notifications	Infectious syphilis + non-infectious syphilis

1 Introduction and Methods

This report describes the epidemiology of notifiable sexually transmitted infections (STIs) and blood-borne viruses (BBVs) in Western Australia (WA) for 2023, and trends over the ten-year period from 2014 to 2023.

Data presented in this report relate to notification and testing data received by the Department of Health, WA (DoH) and are likely to underestimate the true incidence of disease. These data nevertheless represent the most comprehensive information about these infections for public health surveillance in WA.

1.1 Data sources

1.1.1 Notification data

In WA, doctors, nurse practitioners and pathology laboratories notify specified infectious diseases to the DoH as mandated by the *Public Health Act 2016*.

All disease notification data except for HIV/AIDS are stored in the Western Australian Notifiable Infectious Diseases Database (WANIDD). HIV/AIDS notifications are stored in the WA HIV/AIDS Database. Notification data on STIs and BBVs (including HIV/AIDS) were extracted from the relevant databases for the ten-year period from 2014 to 2023. National data from the National Notifiable Diseases Surveillance System (NNDSS) maintained by the Australian Government Department of Health were also used in this report.

Since 2004, WA has used the Australian National Notifiable Diseases Case Definitions[1]. For this report, an HIV case is defined as a person who lives in WA and has been diagnosed for the first time (newly diagnosed) in Australia with an HIV infection, with or without AIDS. For other reported infections, notification figures include notifications from non-WA residents where their infection is diagnosed in WA. For acute infections such as chlamydia, gonorrhoea, infectious syphilis, donovanosis, chancroid, newly acquired hepatitis B and newly acquired hepatitis C, notification data were analysed on the basis of the earliest available date reflecting the date of onset of infection (‘optimal date of onset’ in WANIDD). Long-term and/or chronic infections such as non-infectious syphilis and HIV were analysed by date of receipt of notification. Unspecified hepatitis B and unspecified hepatitis C notifications have been analysed by specimen date as a batch of retrospective notifications were received in March 2021.

Notifications from Christmas Island, Curtin, Leonora, Perth and Yongah Hill Immigration Detention Centres (IDCs) have been excluded from most analyses in this report because of potential bias introduced through the inclusion of cases detected by screening of asylum seekers at these locations. As it is not possible to identify testing data from these locations, analyses of testing rate and test positivity by age group include notifications from these locations to ensure numerator and denominator data are equivalent.

For gonorrhoea, infectious syphilis, HIV/AIDS, hepatitis B and hepatitis C, additional epidemiological and risk behaviour information is collected subsequent to the original notification using enhanced surveillance forms specific for each disease. Public health staff coordinate collection of these enhanced surveillance data and contact doctors, laboratories and/or patients, as appropriate. These additional data add value to, and complement, the notification data reported by the laboratories or by doctors using the standard infectious disease notification form.

Both WA and national surveillance data extracted for this report may have been revised since the time of extraction. Subsequent minor changes to the data would not substantially affect the overall trends and patterns.

1.1.2 Testing data

Since 2009, the DoH has received testing data for STIs and BBVs in WA from the majority of pathology laboratories servicing the state. On average, 67% of STI and BBV notifications in WA between 2014 and 2023 were from these laboratories. It is assumed that this reflects the proportion of STI and BBV tests undertaken in these laboratories.

One laboratory that did not contribute testing data is a significant service provider in the Perth metropolitan and South West regions, resulting in an underestimation of the number of tests and therefore testing rates in WA. There are insufficient data to quantify the magnitude of this underestimation; however, absence of these data is unlikely to affect the trends in test numbers and testing rates over time.

The participating laboratories provide de-identified aggregated data on a quarterly basis. Data includes age at time of testing, sex, region of residence and disease for which the test was conducted. Information on the patient's Aboriginality or result of the test is not provided. The STI and BBV tests referred to in this report include nucleic acid tests for chlamydia and gonorrhoea, culture tests for gonorrhoea, and serological tests for syphilis, hepatitis B, hepatitis C and HIV.

Tests from Christmas Island, Curtin, Leonora, Perth and Yongah Hill IDCs have been included in this report as tests conducted at these locations cannot be identified from the aggregated data provided by the laboratories.

Analyses of rates of testing, notification and positivity for each STI and BBV by sex, age group, year and Public Health Unit (PHU) in WA from 2014 to 2023 will be made available in a separate report.

1.2 Data collection by Aboriginality

Within Western Australia, the term Aboriginal is used in preference to Aboriginal and Torres Strait Islander, in recognition that Aboriginal people are the original inhabitants of Western Australia. Aboriginal and Torres Strait Islander may be referred to in the national context and Indigenous may be referred to in the international context. No disrespect is intended to our Torres Strait Islander colleagues and community[2].

In WA, there is considerable mobility of Aboriginal people, both within WA and across the Northern Territory (NT) and South Australia (SA) borders, which means that some Aboriginal people will be patients of more than one health service. Due to the small size of the Aboriginal population in WA (approximately 4.0% of the total population in 2023) and the large number of cases reported in Aboriginal people, inaccuracies in the population estimates of Aboriginal people can have a disproportionate impact on calculated rates. In the preparation of this report, these factors are acknowledged as limitations.

Information on Aboriginality is also missing for some notifications. A study using linked data to improve notification rate estimates found that age-adjusted notification rates in WA are unlikely to be significantly biased by excluding notifications with unknown Aboriginality status because of recent improvements in the completeness of reporting of Aboriginal status[3].

Generally, the raw data for notifiable STIs and BBVs in WA are presented so that readers can draw their own conclusions.

1.3 Regional boundaries

WA is divided into ten health administrative regions as shown in Appendix Table 1. Three of the regions are in the Perth metropolitan area (East, North and South) and seven are in the regional areas (Kimberley, Pilbara, Midwest, Wheatbelt, Goldfields, South West and Great Southern). Within each region, there is a PHU responsible for its public health activities, which include follow-up of notifiable infectious disease cases where indicated. Notification and testing data were analysed by PHU regions.

For the purposes of this report, the three metropolitan PHUs have been combined into one 'metropolitan' region.

1.4 Calculation of rates

Crude rates demonstrate the proportion of the population notified or tested. Crude notification rates were calculated by dividing the number of notifications of infections within the relevant population by the total number of people within that population and were expressed per 100,000 population. Crude testing rates were calculated by dividing the number of tests conducted on people within the relevant population by the total number of people within that population and were expressed per 1,000 population.

Age-standardisation was utilised to control differences in the size and age structure of various populations. Age-standardised rates (ASRs) were expressed per 100,000 population for notification data ('notification rate').

Age-specific rates for notification and testing data were based on five-year age groups or ages grouped as 'less than 15 years', '15 to 24 years', and '25 years or older'. Age-specific rates were calculated by dividing the number of notifications or tests by the population in the corresponding age group. Age-specific notification rates were expressed per 100,000 population and age-specific testing rates were expressed per 1,000 population.

'Test positivity rate' was calculated by dividing the number of positive test results (i.e. statutory notifications) from laboratories providing testing data by the number of tests conducted by these laboratories. The 'test positivity rate' was expressed as a percentage or per 1,000 tests.

The population denominators for WA used in this report were sourced from the *Rates Calculator (Version 9.5.5)*, which is based upon 2011 Australian Bureau of Statistics (ABS) Census data. It should be noted that small numbers of notifications or tests give unstable and imprecise notification and testing rates.

Table 1 Population health regions for notification purposes by postcode, 2023

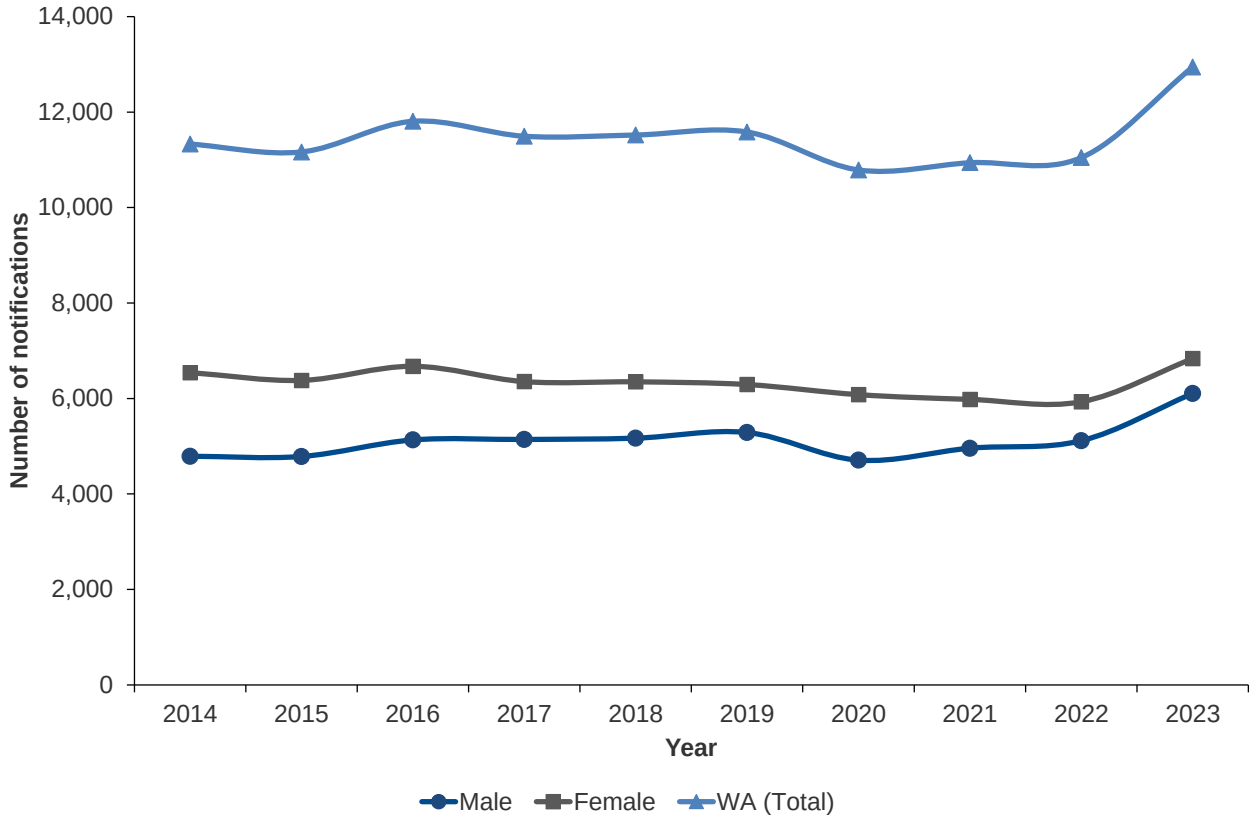
Great Southern	Goldfields	Kimberley	Metropolitan				Midwest	Pilbara	South West	Wheatbelt		
6316	0872	6725	6000	6053	6108	6175	6514	6710	6218	6041	6392	6480
6317	6346	6726	6003	6054	6109	6176	6515	6712	6220	6042	6393	6484
6318	6348	6728	6004	6055	6110	6180	6517	6713	6221	6043	6401	6485
6320	6429	6740	6005	6056	6111	6181	6518	6714	6223	6044	6403	6487
6321	6430	6743	6006	6057	6112	6182	6519	6716	6224	6213	6405	6488
6322	6431	6765	6007	6058	6121	6207	6522	6718	6225	6302	6407	6489
6323	6432	6770	6008	6059	6122	6208	6525	6720	6226	6304	6409	6490
6324	6434		6009	6060	6123	6209	6528	6721	6227	6306	6410	6501
6326	6436		6010	6061	6124	6210	6530	6722	6228	6308	6411	6502
6327	6437		6011	6062	6125	6211	6532	6751	6229	6309	6412	6503
6328	6438		6012	6063	6126	6214	6535	6753	6230	6311	6413	6504
6330	6440		6014	6064	6147	6215	6536	6754	6232	6312	6414	6505
6333	6442		6015	6065	6148	6556	6537	6758	6233	6313	6415	6506
6335	6443		6016	6066	6149	6558	6614	6760	6236	6315	6418	6507
6336	6445		6017	6067	6150		6616	6762	6237	6350	6419	6509
6337	6446		6018	6068	6151		6620		6239	6351	6420	6510
6338	6447		6019	6069	6152		6623		6240	6352	6421	6511
6341	6448		6020	6070	6153		6625		6243	6353	6422	6512
6343	6450		6021	6071	6154		6627		6244	6355	6423	6513
6394	6452		6022	6072	6155		6628		6251	6356	6424	6516
6395			6023	6073	6156		6630		6252	6357	6425	6521
6396			6024	6074	6157		6631		6253	6358	6426	6560
6397			6025	6076	6158		6632		6254	6359	6427	6562
			6026	6077	6159		6635		6255	6361	6428	6564
			6027	6078	6160		6638		6256	6363	6460	6566
			6028	6079	6161		6639		6258	6365	6461	6567
			6029	6081	6162		6640		6260	6367	6462	6568
			6030	6082	6163		6642		6262	6368	6463	6569
			6031	6083	6164		6646		6271	6369	6465	6571
			6032	6084	6165		6701		6275	6370	6466	6572
			6033	6090	6166		6705		6280	6372	6467	6574
			6034	6100	6167		6707		6281	6373	6468	6575
			6035	6101	6168				6282	6375	6470	6603
			6036	6102	6169				6284	6383	6472	6605
			6037	6103	6170				6285	6384	6473	6606
			6038	6104	6171				6286	6385	6475	6608
			6050	6105	6172				6288	6386	6476	6609
			6051	6106	6173				6290	6390	6477	6612
			6052	6107	6174				6398	6391	6479	6613

Table 2 Number and age-specific rate of STI notifications by sex, WA, 2023

Age group (years)	Sex	Infection									
		Chlamydia		Gonorrhoea		Infectious syphilis		Non-infectious syphilis		Total syphilis	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
0–9	Male	0	0.0	1	0.6	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0
10–14	Male	11	12.1	7	7.3	0	0.0	0	0.0	0	0.0
	Female	57	66.2	26	28.8	2	2.3	0	0.0	2	2.3
	Total	68	38.3	33	17.7	2	1.1	0	0.0	2	1.1
15–19	Male	703	923.4	199	232.0	25	32.8	2	2.6	27	35.5
	Female	1,628	2,190.6	341	423.9	28	37.7	6	8.1	34	45.7
	Total	2,331	1,549.4	540	324.8	53	35.2	8	5.3	61	40.5
20–24	Male	1,658	2,110.4	489	571.8	46	58.6	9	11.5	55	70.0
	Female	2,454	3,332.1	523	656.0	65	88.3	15	20.4	80	108.6
	Total	4,112	2,701.5	1,012	612.4	111	72.9	24	15.8	135	88.7
25–29	Male	1,369	1,671.6	590	633.9	69	84.3	14	17.1	83	101.3
	Female	1,297	1,519.8	391	436.2	60	70.3	11	12.9	71	83.2
	Total	2,666	1,594.1	982	540.3	129	77.1	25	14.9	154	92.1
30–34	Male	869	844.9	504	495.8	77	74.9	15	14.6	92	89.4
	Female	666	599.6	257	247.9	46	41.4	16	14.4	62	55.8
	Total	1,536	718.0	761	370.3	123	57.5	31	14.5	154	72.0
35–39	Male	582	566.5	369	335.4	65	63.3	12	11.7	77	74.9
	Female	370	360.7	168	153.5	40	39.0	14	13.6	54	52.6
	Total	952	463.7	537	244.7	105	51.1	26	12.7	131	63.8
40–44	Male	353	458.3	240	248.5	45	58.4	10	13.0	55	71.4
	Female	200	259.6	107	110.3	23	29.8	11	14.3	34	44.1
	Total	553	358.9	347	179.3	68	44.1	21	13.6	89	57.8
45–49	Male	203	212.1	163	182.6	31	32.4	12	12.5	43	44.9
	Female	90	93.1	58	65.8	9	9.3	9	9.3	18	18.6
	Total	293	152.3	221	124.6	40	20.8	21	10.9	61	31.7
50+	Male	358	80.5	242	50.4	52	11.7	69	15.5	121	27.2
	Female	75	15.8	48	9.5	10	2.1	28	5.9	38	8.0
	Total	433	47.1	290	29.4	62	6.7	97	10.5	159	17.3
WA (Total)	**Male**	**6,106**	**508.2**	**2,804**	**210.5**	**410**	**32.9**	**143**	**10.5**	**553**	**43.4**
	Female	**6,837**	**594.8**	**1,919**	**153.4**	**283**	**23.5**	**110**	**8.4**	**393**	**31.9**
	Total	**12,944**	**548.8**	**4,724**	**181.8**	**693**	**28.0**	**253**	**9.4**	**946**	**37.5**

Notes: Number = Number of notifications reported to the DoH
Rate (Age group) = Age-specific rate
Rate (WA Total) = Age-standardised notification rate per 100,000 population
Infectious syphilis = Primary syphilis + Secondary syphilis + Early latent syphilis (less than two years duration)
Non-infectious syphilis = More than two years or unknown duration
Total syphilis = Infectious syphilis + Non-infectious syphilis
WA (Total) includes one chlamydia and one gonorrhoea notification among transgender people
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Figure 1 Number of chlamydia notifications by sex, WA, 2014 to 2023



Notes: WA (Total) includes two notifications in 2015, one notification in 2016, three notifications in 2018, three notifications in 2019 and one notification each in 2020, 2021, 2022 and 2023 among transgender people
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 3 Number and ASR of chlamydia notifications by region and sex, WA, 2023

Region	Sex						Rate ratio (Male:Female)
	Male		Female		Total		
	Number	ASR	Number	ASR	Number	ASR	
Goldfields	110	371.4	210	867.4	320	600.0	0.4
Great Southern	80	341.9	99	436.7	179	386.8	0.8
Kimberley	244	1,279.6	443	2,187.4	688	1,746.3	0.6
Metropolitan	688	65.8	5,017	478.2	10,196	487.4	0.1
Midwest	108	385.7	165	630.2	273	503.1	0.6
Pilbara	186	622.6	268	1,165.3	454	871.6	0.5
South West	260	362.7	343	502.5	603	429.7	0.7
Wheatbelt	70	245.1	103	429.2	173	328.3	0.6
WA (Total)	**6,106**	**465.7**	**6,837**	**559.0**	**12,944**	**510.1**	**0.8**

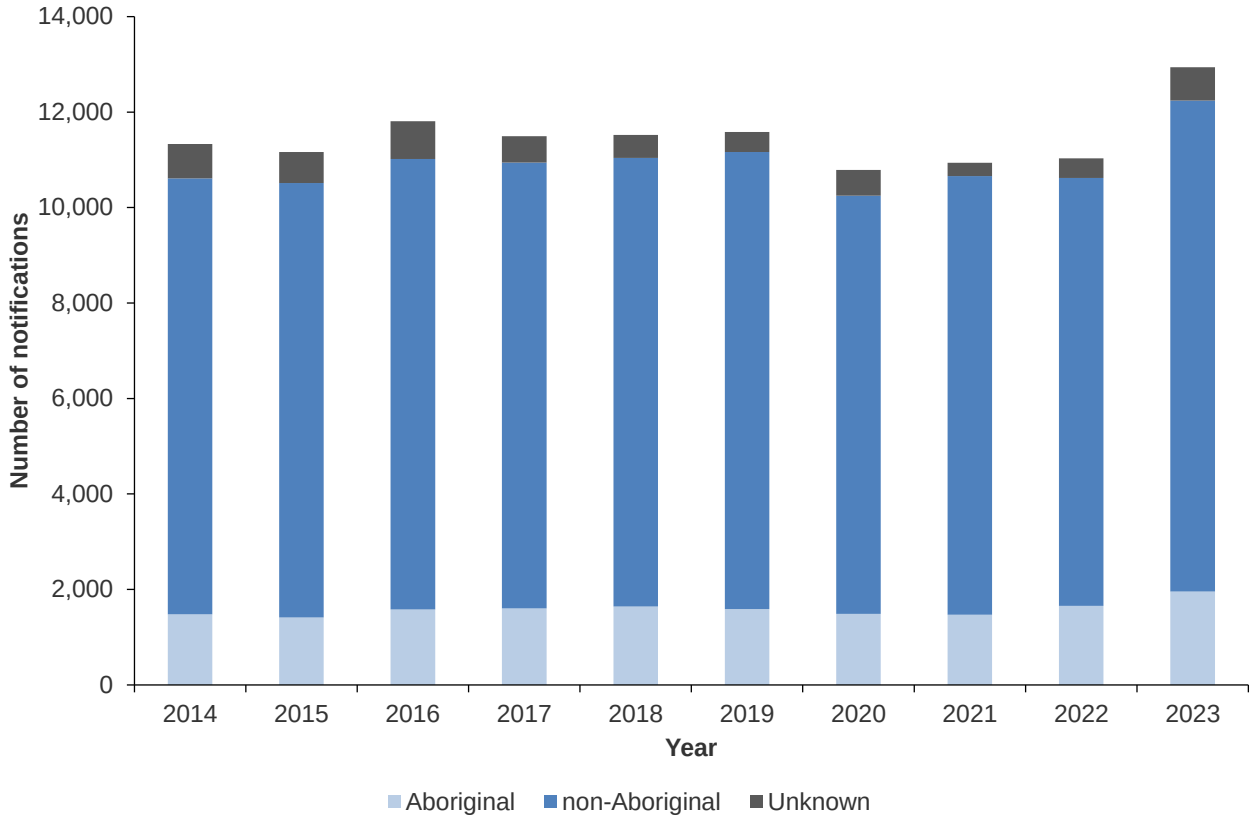
Notes: Number = Number of notifications reported to the DoH
ASR = Age-standardised notification rate per 100,000 population
Rate ratio (Male:Female) = ASR (Male) / ASR (Female)
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Column totals include cases with overseas or unknown addresses, which are not shown in the table
WA (Total) includes one notification in a transgender person
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 4 Number, crude rate and ASR of chlamydia notifications by region, WA, 2014 to 2023

Region	Rate	Year									
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Goldfields	Number	367	302	396	319	345	327	304	287	306	320
	Crude	612.9	516.1	700.2	563.8	613.0	582.4	540.2	505.7	537.2	560.1
	ASR	630.8	536.4	720.8	575.1	634.8	598.8	582.1	550.3	579.1	600.0
Great Southern	Number	177	188	180	163	186	165	168	145	142	179
	Crude	294.7	311.8	298.8	267.2	301.4	264.5	265.8	226.8	220.5	274.7
	ASR	368.8	390.6	381.7	349.1	404.5	363.1	375.8	318.4	308.2	386.8
Kimberley	Number	667	646	597	636	630	536	534	516	622	688
	Crude	1,768.4	1,742.8	1,640.4	1,736.1	1,700.5	1,429.4	1,398.9	1,333.1	1,597.9	1,742.3
	ASR	1,770.5	1,736.7	1,612.6	1,721.2	1,681.3	1,415.7	1,385.7	1,334.8	1,586.1	1,746.3
Metropolitan	Number	8,637	8,606	9,121	8,986	9,021	9,178	8,400	8,716	8,633	10,196
	Crude	436.7	429.6	450.8	438.2	433.7	433.2	387.8	396.9	387.1	449.3
	ASR	415.1	413.2	440.3	438.1	441.6	446.0	404.4	422.6	413.4	487.4
Midwest	Number	310	286	352	306	261	222	315	278	262	273
	Crude	464.7	433.3	541.8	470.3	400.2	339.0	475.3	413.5	386.7	398.6
	ASR	530.6	500.5	630.1	557.8	482.5	411.5	582.2	515.3	482.3	503.1
Pilbara	Number	384	362	384	342	327	366	303	332	381	454
	Crude	597.2	574.4	624.0	566.5	548.5	619.5	515.1	570.1	646.4	777.3
	ASR	634.6	627.8	668.4	624.5	578.4	645.2	551.1	608.9	739.0	871.6
South West	Number	563	579	561	521	567	572	569	494	490	603
	Crude	326.5	331.7	319.5	292.3	313.4	311.2	304.0	259.2	252.9	306.0
	ASR	390.4	404.5	398.7	370.1	404.6	405.6	407.5	355.8	349.0	429.7
Wheatbelt	Number	200	173	174	177	153	181	153	141	172	173
	Crude	254.8	221.4	225.1	229.1	199.0	235.8	198.4	181.5	219.6	220.1
	ASR	344.0	301.2	310.4	317.4	282.3	336.9	288.8	269.6	324.0	328.3
WA (Total)	**Number**	**11,331**	**11,165**	**11,807**	**11,494**	**11,520**	**11,582**	**10,788**	**10,940**	**11,047**	**12,944**
	Crude	**450.1**	**439.5**	**461.9**	**444.5**	**440.1**	**435.5**	**397.7**	**397.9**	**396.1**	**456.9**
	ASR	**443.9**	**438.8**	**467.4**	**459.2**	**462.1**	**461.7**	**427.7**	**436.7**	**436.0**	**510.1**

Notes: Number = Number of notifications reported to the DoH
Crude = Crude notification rate per 100,000 population
ASR = Age-standardised notification rate per 100,000 population
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Figure 2 Number of chlamydia notifications by Aboriginality, WA, 2014 to 2023



Notes: Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 5 Number and ASR of chlamydia notifications by region and Aboriginality, WA, 2023

Region	Aboriginality						Total		Rate ratio (Aboriginal: non-Aboriginal)
	Aboriginal		non-Aboriginal		Unknown				
	Number	ASR	Number	ASR	Number	%Total	Number	ASR	
Goldfields	146	1,817.3	171	377.0	3	0.9%	320	600.0	4.8
Great Southern	28	701.2	138	327.6	13	7.3%	179	386.8	2.1
Kimberley	570	2,463.8	102	626.1	16	2.3%	688	1,746.3	3.9
Metropolitan	733	965.1	8,844	438.2	619	6.1%	10,196	487.4	2.2
Midwest	125	1,276.4	142	313.9	6	2.2%	273	503.1	4.1
Pilbara	278	1,959.4	161	414.9	15	3.3%	454	871.6	4.7
South West	50	601.1	528	401.7	25	4.1%	603	429.7	1.5
Wheatbelt	26	485.8	142	297.9	5	2.9%	173	328.3	1.6
WA (Total)	**1,957**	**1,304.1**	**10,284**	**429.1**	**703**	**5.4%**	**12,944**	**510.1**	**3.0**

Notes: Number = Number of notifications reported to the DoH
ASR = Age-standardised notification rate per 100,000 population
% (Total) = Number (Unknown) / Total number (Region)
Rate ratio (Aboriginal:non-Aboriginal) = ASR (Aboriginal) / ASR (non-Aboriginal)
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Calculations by Aboriginality are based on notifications of known Aboriginal status only (i.e. notifications of unknown Aboriginal status are excluded)
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 6 Number and ASR of chlamydia notifications by Aboriginality and sex, WA, 2023

Aboriginality	Sex				Total		Rate ratio (Male:Female)
	Male		Female				
	Number	ASR	Number	ASR	Number	ASR	
Aboriginal	676	883.7	1,281	1,759.9	1,957	1,304.1	0.5
non-Aboriginal	5,075	408.9	5,208	452.6	10,284	429.1	0.9
WA (Total)	6,106	465.7	6,837	559.0	12,944	510.1	0.8
Rate ratio (Aboriginal:non-Aboriginal)	**N/A**	**2.2**	**N/A**	**3.9**	**N/A**	**3.0**	**0.6**

Notes: Number = Number of notifications reported to the DoH
ASR = Age-standardised notification rate per 100,000 population
Rate ratio (Male:Female) = ASR (Male) / ASR (Female)
Rate ratio (Aboriginal:non-Aboriginal) = Aboriginal to non-Aboriginal rate ratio = ASR (Aboriginal) / ASR (non-Aboriginal)
N/A = Not applicable
Calculations by Aboriginality are based on notifications of known Aboriginal status only (i.e. notifications of unknown Aboriginal status are excluded)
WA (Total) includes one notification in a transgender person
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 7 Number and proportion of chlamydia notifications by where infection was acquired and sex, WA, 2023

Where infection acquired	Sex				WA (Total)	
	Male		Female			
	Number	%Total	Number	%Total	Number	%Total
WA	3,590	58.8%	4,102	60.0%	7,692	59.4%
Interstate	49	0.8%	28	0.4%	77	0.6%
Overseas	192	3.1%	75	1.1%	267	2.1%
Unknown	2,275	37.3%	2,632	38.5%	4,908	37.9%
Total	**6,106**	**100.0%**	**6,837**	**100.0%**	**12,944**	**100.0%**

Notes: Number = Number of notifications reported to the DoH
% Total = Number of notifications (Where infection acquired) / Total number of notifications (Sex) or overall
WA (Total) includes one notification in a transgender person
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 8 Number and crude rate of chlamydia notifications by state and territory, Australia, 2023

Notifications	State/Territory								AUS (Total)
	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	
Number	1,549	31,400	3,056	26,154	6,414	1,743	26,756	12,941	110,013
Crude rate	332.0	377.0	1,210.0	479.0	346.0	304.0	393.0	450.0	414.0

Notes: Number = Number of notifications reported to state and territory health authorities
Crude rate = Crude rate per 100,000 population
Data sourced from NNDSS 11 June 2024; data are provisional and subject to future revision

Table 9 Number and age-specific rate of chlamydia notifications by sex and Aboriginality, WA, 2023

Age group (Years)	Sex	Aboriginality						Total		Rate ratio (Aboriginal: non-Aboriginal)
		Aboriginal		non-Aboriginal		Unknown				
		Number	Rate	Number	Rate	Number	%Total	Number	Rate	
0–9	Male	0	0.0	0	0.0	0	N/A	0	0.0	N/A
	Female	0	0.0	0	0.0	0	N/A	0	0.0	N/A
	Total	0	0.0	0	0.0	0	N/A	0	0.0	N/A
10–14	Male	9	126.7	2	2.3	0	0.0%	11	11.5	56.2
	Female	39	550.1	18	21.6	0	0.0%	57	63.1	25.4
	Total	48	338.2	20	11.6	0	0.0%	68	36.5	29.1
15–19	Male	198	3,212.7	475	596.7	30	4.3%	703	819.6	5.4
	Female	430	7,184.3	1,147	1,539.9	50	3.1%	1,628	2,023.5	4.7
	Total	628	5,163.7	1,622	1,052.5	80	3.4%	2,331	1,402.2	4.9
20–24	Male	201	3,521.9	1,368	1,713.5	88	5.3%	1,658	1,938.7	2.1
	Female	379	7,409.7	1,945	2,606.3	129	5.3%	2,454	3,078.1	2.8
	Total	580	5,359.4	3,313	2,144.9	217	5.3%	4,112	2,488.4	2.5
25–29	Male	105	1,965.8	1,184	1,349.3	80	5.8%	1,369	1,470.8	1.5
	Female	214	4,307.9	990	1,169.3	93	7.2%	1,297	1,446.8	3.7
	Total	319	3,094.4	2,174	1,268.4	173	6.5%	2,666	1,466.7	2.4
30–34	Male	73	1,389.5	740	767.7	56	6.4%	869	854.9	1.8
	Female	104	2,318.1	522	526.2	40	6.0%	666	642.5	4.4
	Total	177	1,817.2	1,263	645.0	96	6.3%	1,536	747.4	2.8
35–39	Male	51	1,125.0	483	457.9	47	8.1%	582	529.1	2.5
	Female	70	1,771.2	283	268.3	17	4.6%	370	338.1	6.6
	Total	121	1,425.9	766	363.1	64	6.7%	952	433.8	3.9
40–44	Male	22	617.0	303	325.7	28	7.9%	353	365.6	1.9
	Female	28	840.1	162	173.0	10	5.0%	200	206.2	4.9
	Total	50	724.8	465	249.1	38	6.9%	553	285.7	2.9
45–49	Male	7	194.0	183	213.6	13	6.4%	203	227.4	0.9
	Female	10	320.9	77	90.6	3	3.3%	90	102.2	3.5
	Total	17	252.8	260	152.4	16	5.5%	293	165.2	1.7
50+	Male	10	91.7	337	71.8	11	3.1%	358	74.6	1.3
	Female	7	58.3	64	13.0	4	5.3%	75	14.8	4.5
	Total	17	74.2	401	41.7	15	3.5%	433	44.0	1.8
WA (Total)	**Male**	**676**	**912.8**	**5,075**	**375.0**	**353**	**5.8%**	**6,106**	**421.5**	**2.4**
	Female	**1,281**	**1,608.7**	**5,208**	**452.0**	**346**	**5.1%**	**6,837**	**513.1**	**3.6**
	Total	**1,957**	**1,304.1**	**10,284**	**429.1**	**699**	**5.4%**	**12,944**	**510.1**	**3.0**

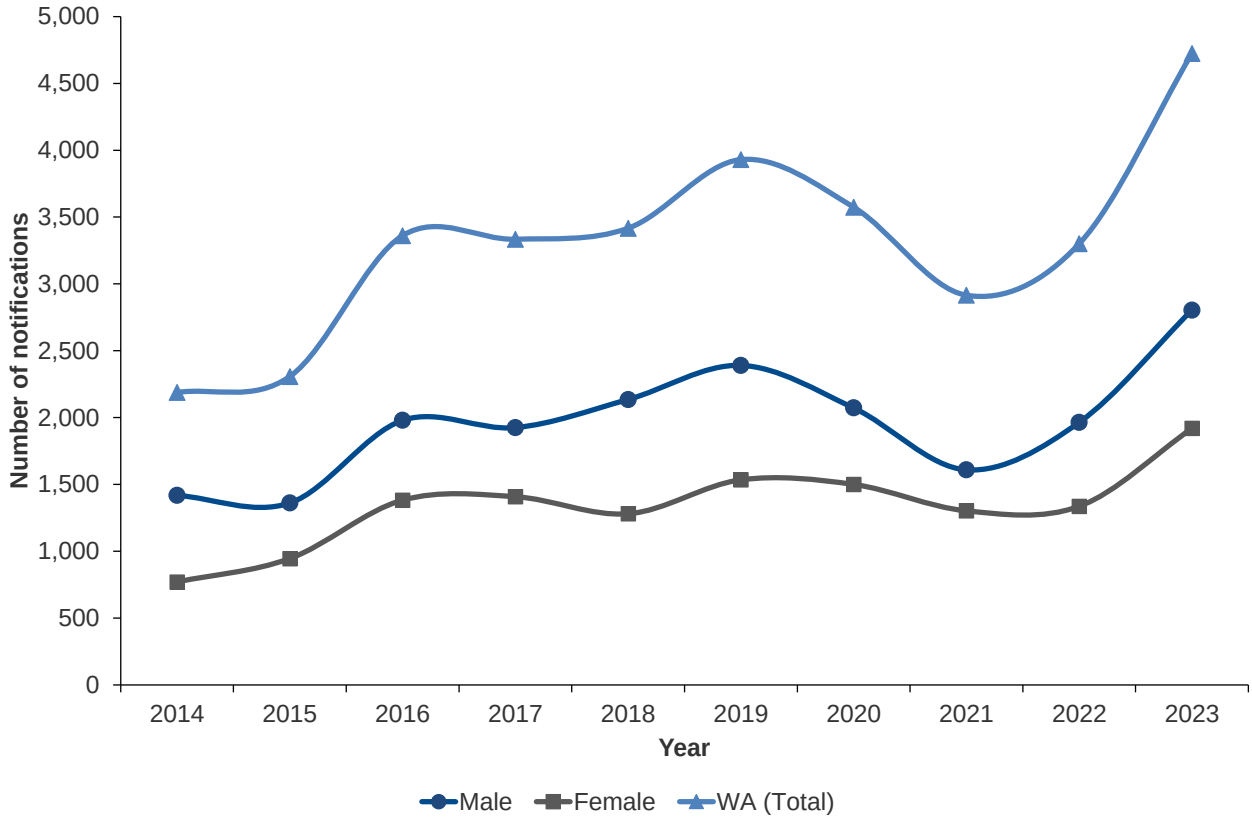
Notes: Number = Number of notifications reported to the DoH
Rate (Age group) = Age-specific rate
Rate (WA Total) = Age-standardised notification rate per 100,000 population
% (Total) = Number (Unknown) / Total number (Age group)
N/A = Not applicable
Rate ratio (Aboriginal:non-Aboriginal) = Aboriginal to non-Aboriginal rate ratio = Aboriginal rate (Age group) / non-Aboriginal rate (Age group)
Calculations by Aboriginality are based on notifications of known Aboriginal status only (i.e. notifications of unknown Aboriginal status are excluded)
WA (Total) includes one notification in a transgender person
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 10 Number and age-specific rate of chlamydia notifications by region and Aboriginality, WA, 2023

Region	Aboriginality	Rate	Age group (Years)										
			0–9	10–14	15–19	20–24	25–29	30–34	35–39	40–44	45–49	50+	Unknown	Total
Goldfields	Aboriginal	Number	0	0	34	41	34	14	13	6	3	1	0	146
		Rate	0.0	0.0	5,301.5	6,632.8	5,609.3	2,989.4	2,587.2	1,434.3	671.6	65.1	N/A	1,491.7
	non-Aboriginal	Number	0	1	26	60	39	21	5	8	3	8	0	171
		Rate	0.0	32.5	1,041.6	2,017.1	1,058.4	550.9	126.8	240.2	95.5	46.7	N/A	542.4
	Total	Number	0	1	61	102	74	35	18	14	6	9	0	320
		Rate	0.0	26.0	1,944.3	2,840.5	1,724.4	817.9	404.9	373.4	167.1	48.2	N/A	745.5
Great	Aboriginal	Number	0	0	9	8	7	1	3	0	0	0	0	28
Southern		Rate	0.0	0.0	2,280.1	3,391.2	2,403.4	453.8	1,383.7	0.0	0.0	0.0	N/A	701.2
	non-Aboriginal	Number	0	0	38	38	33	13	7	5	1	3	0	138
		Rate	0.0	0.0	1,059.1	1,580.3	1,183.5	393.3	201.6	142.4	27.5	10.6	N/A	305.2
	Total	Number	0	0	52	47	44	14	10	7	2	3	0	179
		Rate	0.0	0.0	1,305.8	1,780.2	1,428.9	397.2	270.9	189.4	52.1	10.3	N/A	328.8
Kimberley	Aboriginal	Number	0	23	213	139	87	53	22	14	10	9	0	570
		Rate	0.0	1,094.2	11,965.8	8,627.4	6,001.3	3,064.8	1,453.2	1,041.4	907.5	231.7	N/A	2,373.3
	non-Aboriginal	Number	0	1	18	32	16	15	9	6	2	3	0	102
		Rate	0.0	93.3	2,389.0	3,484.5	918.8	772.7	507.3	429.3	154.8	49.7	N/A	1,221.3
	Total	Number	0	24	234	176	106	71	31	20	12	14	0	688
		Rate	0.0	751.1	9,238.7	6,963.4	3,321.8	1,934.7	942.9	729.5	501.2	141.2	N/A	1,753.8
Metropolitan	Aboriginal	Number	0	11	216	231	117	70	58	22	4	4	0	733
		Rate	0.0	153.4	3,570.8	4,007.1	2,097.5	1,378.1	1,402.3	717.3	126.7	41.1	N/A	939.3
	non-Aboriginal	Number	0	14	1,340	2,841	1,886	1,096	674	404	236	353	0	8,844
		Rate	0.0	10.0	1,047.9	2,134.1	1,311.9	671.1	383.2	261.9	169.7	46.5	N/A	398.3
	Total	Number	0	25	1,618	3,267	2,161	1,252	793	456	255	369	0	10,196
		Rate	0.0	17.0	1,208.3	2,352.7	1,446.6	743.7	440.6	290.0	179.3	48.0	N/A	434.0
Midwest	Aboriginal	Number	0	3	39	48	17	11	5	2	0	0	0	125
		Rate	0.0	294.2	4,655.3	6,843.9	2,806.8	2,181.6	919.5	437.9	0.0	0.0	N/A	1,065.4
	non-Aboriginal	Number	0	0	30	44	21	24	9	6	0	8	0	142
		Rate	0.0	0.0	976.6	1,633.6	620.9	659.8	231.5	162.7	0.0	31.6	N/A	449.1
	Total	Number	0	3	69	94	39	35	15	10	0	8	0	273
		Rate	0.0	65.6	1,766.3	2,777.5	978.6	844.6	338.5	241.4	0.0	28.9	N/A	501.4
Pilbara	Aboriginal	Number	0	10	91	87	47	21	14	6	0	2	0	278
		Rate	0.0	864.4	8,427.5	9,362.8	4,776.1	1,989.4	1,408.0	769.6	0.0	99.7	N/A	1,769.5
	non-Aboriginal	Number	0	0	38	42	43	20	4	7	2	5	0	161
		Rate	0.0	0.0	1,996.4	1,987.8	1,075.6	393.9	71.5	169.5	57.8	53.0	N/A	1,820.6
	Total	Number	0	10	134	134	91	43	18	14	2	8	0	454
		Rate	0.0	238.6	4,486.6	4,408.4	1,826.8	700.9	273.0	285.3	48.3	70.0	N/A	876.6
South West	Aboriginal	Number	0	1	15	17	6	6	5	0	0	0	0	50
		Rate	0.0	107.6	1,775.5	2,791.2	1,078.9	1,411.9	1,272.1	0.0	0.0	0.0	N/A	601.1
	non-Aboriginal	Number	0	3	100	194	88	44	50	20	13	16	0	528
		Rate	0.0	23.0	910.9	2,606.4	1,013.0	403.9	412.4	161.4	107.0	19.8	N/A	342.8
	Total	Number	0	4	119	218	99	55	57	22	13	16	0	603
		Rate	0.0	28.6	1,006.5	2,707.5	1,071.4	485.9	455.2	171.8	103.8	19.5	N/A	378.5
Wheatbelt	Aboriginal	Number	0	0	11	9	4	1	0	0	0	1	0	26
		Rate	0.0	0.0	277.9	284.4	107.8	25.2	0.0	0.0	0.0	2.7	N/A	859.7
	non-Aboriginal	Number	0	1	31	48	25	17	6	6	3	5	0	142
		Rate	0.0	160.5	5,866.5	13,778.5	10,579.9	6,653.4	2,847.8	2,575.7	1,185.4	382.7	N/A	308.8
	Total	Number	0	1	42	60	29	18	7	7	3	6	0	173
		Rate	0.0	24.0	1,223.4	2,132.7	835.0	485.4	162.2	175.3	70.4	16.7	N/A	358.9
WA (Total)	**Aboriginal**	**Number**	**0**	**48**	**628**	**580**	**319**	**177**	**121**	**50**	**17**	**17**	**0**	**1,957**
		Rate	**0.0**	**338.2**	**5,163.7**	**5,359.4**	**3,094.4**	**1,817.2**	**1,425.9**	**724.8**	**252.8**	**74.2**	**N/A**	**1,251.3**
	non-Aboriginal	**Number**	**0**	**20**	**1,622**	**3,313**	**2,174**	**1,263**	**766**	**465**	**260**	**401**	**0**	**10,284**
		Rate	**0.0**	**11.6**	**1,052.5**	**2,144.9**	**1,268.4**	**645.0**	**363.1**	**249.1**	**152.4**	**41.7**	**N/A**	**397.7**
	Total	**Number**	**0**	**68**	**2,331**	**4,112**	**2,666**	**1,536**	**952**	**553**	**293**	**433**	**0**	**12,944**
		Rate	**0.0**	**36.5**	**1,402.2**	**2,488.4**	**1,466.7**	**747.4**	**433.8**	**285.7**	**165.2**	**44.0**	**N/A**	**465.3**

Notes: Number = Number of notifications reported to the DoH
Rate (Age group) = Age-specific rate
Rate (WA Total) = Age-standardised notification rate per 100,000 population
N/A = Not applicable
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Calculations by Aboriginality are based on notifications of known Aboriginal status only (i.e. notifications of unknown Aboriginal status are excluded)
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Figure 3 Number of gonorrhoea notifications by sex, WA, 2014 to 2023



Notes: WA (Total) includes one notification each in 2015, 2017 and 2018, six notifications in 2019, two notifications in 2020, four notifications in 2021 and one notification in 2023 among transgender people
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 11 Number and ASR of gonorrhoea notifications by region and sex, WA, 2023

Region	Sex						Rate ratio (Male:Female)
	Male		Female		Total		
	Number	ASR	Number	ASR	Number	ASR	
Goldfields	90	303.0	135	551.0	225	417.6	0.5
Great Southern	13	57.7	14	59.8	27	59.0	1.0
Kimberley	194	1,006.7	273	1,329.1	467	1,172.0	0.8
Metropolitan	2,208	203.5	1,241	119.8	3,450	161.6	1.7
Midwest	41	137.7	52	194.2	93	165.4	0.7
Pilbara	103	333.7	106	431.6	209	379.0	0.8
South West	100	134.0	82	115.3	182	124.0	1.2
Wheatbelt	31	102.3	13	51.3	44	77.5	2.0
WA (Total)	**2,804**	**211.2**	**1,919**	**153.8**	**4,724**	**182.5**	**1.4**

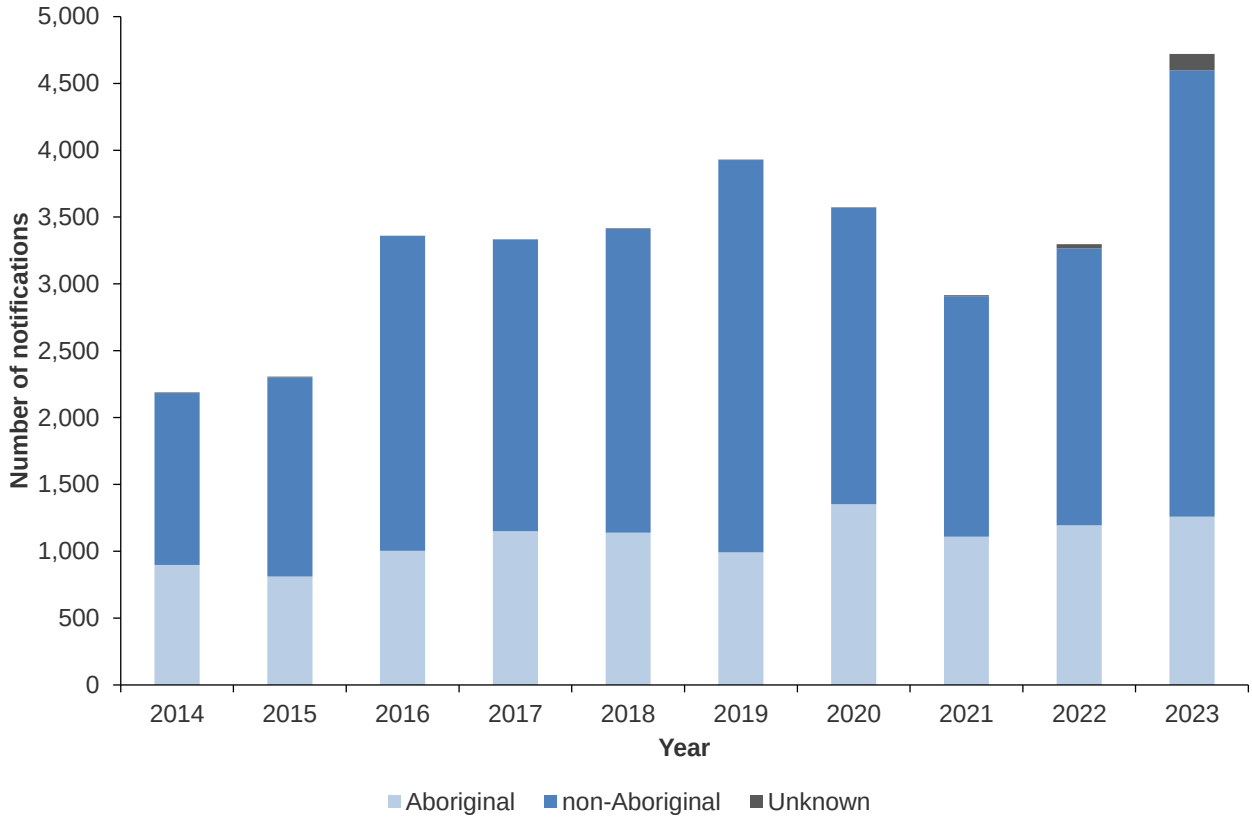
Notes: Number = Number of notifications reported to the DoH
ASR = Age-standardised notification rate per 100,000 population
Rate ratio (Male:Female) = ASR (Male) / ASR (Female)
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Column totals include cases with overseas or unknown addresses, which are not shown in the table
WA (Total) includes one notification in a transgender person
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 12 Number, crude rate and ASR of gonorrhoea notifications by region, WA, 2014 to 2023

Region	Rate	Year									
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Goldfields	Number	144	145	127	211	258	135	197	219	173	225
	Crude	240.5	247.8	224.6	372.9	458.4	240.4	350.0	385.9	303.7	393.8
	ASR	247.3	255.5	232.7	384.9	471.3	249.1	369.6	415.1	324.3	388.5
Great Southern	Number	8	11	14	11	14	31	19	15	18	27
	Crude	13.3	18.2	23.2	18.0	22.7	49.7	30.1	23.5	27.9	41.4
	ASR	16.2	20.4	30.9	24.2	30.5	66.7	42.8	31.3	38.3	36.5
Kimberley	Number	521	409	464	513	390	334	548	423	534	467
	Crude	1,381.3	1,103.4	1,274.9	1,400.4	1,052.7	890.7	1,435.5	1,092.9	1,371.9	1,182.7
	ASR	1,363.0	1,095.3	1,273.7	1,396.8	1,020.7	879.6	1,405.3	1,077.4	1,348.0	1,628.6
Metropolitan	Number	1,258	1,432	2,274	2,176	2,326	2,912	2,287	1,870	2,167	3,450
	Crude	63.6	71.5	112.4	106.1	111.8	137.5	105.6	85.1	97.2	152.0
	ASR	60.7	68.3	109.4	105.1	112.3	139.5	108.7	89.0	102.1	109.2
Midwest	Number	61	55	129	111	76	99	105	62	71	93
	Crude	91.4	83.3	198.6	170.6	116.5	151.2	158.4	92.2	104.8	135.8
	ASR	104.2	95.9	231.2	201.9	140.5	181.9	193.5	112.8	124.9	141.1
Pilbara	Number	139	172	217	185	216	213	245	232	240	209
	Crude	216.2	272.9	352.6	306.4	362.3	360.5	416.5	398.4	407.2	357.8
	ASR	227.1	315.9	417.4	341.7	384.9	382.9	422.2	404.6	445.9	701.5
South West	Number	31	56	95	86	97	157	121	57	59	182
	Crude	18.0	32.1	54.1	48.2	53.6	85.4	64.6	29.9	30.5	92.4
	ASR	20.4	37.9	65.9	59.3	66.5	108.6	84.4	37.8	40.8	40.9
Wheatbelt	Number	19	21	28	36	26	37	39	32	30	44
	Crude	24.2	26.9	36.2	46.6	33.8	48.2	50.6	41.2	38.3	56.0
	ASR	32.5	34.9	46.9	61.5	42.5	66.5	71.7	59.3	51.7	77.5
WA (Total)	**Number**	**2,188**	**2,307**	**3,361**	**3,334**	**3,416**	**3,930**	**3,574**	**2,915**	**3,300**	**4,724**
	Crude	**86.9**	**90.8**	**131.5**	**128.9**	**130.5**	**147.8**	**131.7**	**106.0**	**118.3**	**166.7**
	ASR	**86.2**	**90.5**	**133.0**	**132.7**	**135.1**	**154.3**	**140.1**	**114.3**	**128.2**	**137.3**

Notes: Number = Number of notifications reported to the DoH
Crude = Crude notification rate per 100,000 population
ASR = Age-standardised notification rate per 100,000 population
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Figure 4 Number of gonorrhoea notifications by Aboriginality, WA, 2014 to 2023



Notes: Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 13 Number and ASR of gonorrhoea notifications by region and Aboriginality, WA, 2023

Region	Aboriginality						Total		Rate ratio (Aboriginal: non-Aboriginal)
	Aboriginal		non-Aboriginal		Unknown				
	Number	ASR	Number	ASR	Number	%Total	Number	ASR	
Goldfields	189	2,400.0	35	73.6	1	0.4%	225	417.6	32.6
Great Southern	5	152.1	22	53.9	0	0.0%	27	59.0	2.8
Kimberley	426	1,889.0	36	203.5	5	1.1%	467	1,172.0	9.3
Metropolitan	360	490.0	2,979	143.7	111	3.2%	3,450	161.6	3.4
Midwest	72	789.8	21	43.8	0	0.0%	93	165.4	18.0
Pilbara	177	1,261.2	23	49.4	9	4.3%	209	379.0	25.5
South West	17	211.6	164	117.6	1	0.5%	182	124.0	1.8
Wheatbelt	12	260.6	32	57.9	0	0.0%	44	77.5	4.5
WA (Total)	**1,258**	**870.3**	**3,339**	**134.7**	**127**	**2.7%**	**4,724**	**182.5**	**6.5**

Notes: Number = Number of notifications reported to the DoH
ASR = Age-standardised notification rate per 100,000 population
% (Total) = Number (Unknown) / Total number (Region)
Rate ratio (Aboriginal:non-Aboriginal) = ASR (Aboriginal) / ASR (non-Aboriginal)
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Calculations by Aboriginality are based on notifications of known Aboriginal status only (i.e. notifications of unknown Aboriginal status are excluded)
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 14 Number and ASR of gonorrhoea notifications by Aboriginality and sex, WA, 2023

Aboriginality	Sex				Total		Rate ratio (Male:Female)
	Male		Female				
	Number	ASR	Number	ASR	Number	ASR	
Aboriginal	510	698.2	748	1057.2	1,258	870.3	0.7
non-Aboriginal	2,201	173.8	1,137	95.2	3,339	134.7	1.8
WA (Total)	2,804	211.2	1,919	153.8	4,724	182.5	1.4
Rate ratio (Aboriginal:non-Aboriginal)	**N/A**	**4.0**	**N/A**	**11.1**	**N/A**	**6.5**	**0.4**

Notes: Number = Number of notifications reported to the DoH
ASR = Age-standardised notification rate per 100,000 population
Rate ratio (Male:Female) = ASR (Male) / ASR (Female)
Rate ratio (Aboriginal:non-Aboriginal) = ASR (Aboriginal) / ASR (non-Aboriginal)
N/A = Not applicable
Calculations by Aboriginality are based on notifications of known Aboriginal status only (i.e. notifications of unknown Aboriginal status are excluded)
WA (Total) includes one notification in a transgender person
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 15 Number and proportion of gonorrhoea notifications by where infection was acquired and sex, WA, 2023

Where infection acquired	Sex				WA (Total)	
	Male		Female			
	Number	%Total	Number	%Total	Number	%Total
WA	1,969	70.2%	1,429	74.5%	3,399	72.0%
Interstate	44	1.6%	14	0.7%	58	1.2%
Overseas	142	5.1%	31	1.6%	173	3.7%
Unknown	649	23.1%	445	23.2%	1,094	23.2%
Total	**2,804**	**100.0%**	**1,919**	**100.0%**	**4,724**	**100.0%**

Notes: Number = Number of notifications reported to the DoH
% Total = Number of notifications (Sex & Where infection acquired) / Total number of notifications (Sex) or overall
WA (Total) includes one notification in a transgender person
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 16 Number and crude rate of gonorrhoea notifications by state and territory, Australia, 2023

Notifications	State/Territory								AUS (Total)
	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	
Number	484	12,466	2,492	7,549	2,267	367	10,094	4,732	40,451
Crude rate	104.0	149.0	987.0	138.0	122.0	64.0	148.0	164.0	152.0

Notes: Number = Number of notifications reported to state and territory health authorities
Crude rate = Crude rate per 100,000 population
Data sourced from NNDSS 11 June 2024; data are provisional and subject to future revision

Table 17 Number and age-specific rate of gonorrhoea notifications by sex and Aboriginality, WA, 2023

Age group (Years)	Sex	Aboriginality						Total		Rate ratio (Aboriginal: non-Aboriginal)
		Aboriginal		non-Aboriginal		Unknown				
		Number	Rate	Number	Rate	Number	%Total	Number	Rate	
0–9	Male	0	0.0	1	0.6	0	0.0%	1	0.6	0.0
	Female	0	0.0	0	0.0	0	N/A	0	0.0	N/A
	Total	0	0.0	1	0.3	0	0.0%	1	0.3	0.0
10–14	Male	7	98.6	0	0.0	0	0.0%	7	7.3	N/A
	Female	23	324.4	3	3.6	0	0.0%	26	28.8	90.0
	Total	30	211.4	3	1.7	0	0.0%	33	17.7	121.2
15–19	Male	104	1,687.5	88	110.5	3	1.5%	199	232.0	15.3
	Female	201	3,358.2	136	182.6	3	0.9%	341	423.9	18.4
	Total	305	2,507.8	224	145.4	6	1.1%	540	324.8	17.3
20–24	Male	119	2,085.1	354	443.4	10	2.0%	489	571.8	4.7
	Female	210	4,105.6	302	404.7	2	0.4%	523	656.0	10.1
	Total	329	3,040.1	656	424.7	12	1.2%	1,012	612.4	7.2
25–29	Male	105	1,965.8	457	520.8	3	0.5%	590	633.9	3.8
	Female	153	3,079.9	230	271.6	5	1.3%	391	436.2	11.3
	Total	258	2,502.7	688	401.4	8	0.8%	982	540.3	6.2
30–34	Male	87	1,656.0	405	420.2	12	2.4%	504	495.8	3.9
	Female	85	1,894.6	166	167.3	6	2.3%	257	247.9	11.3
	Total	172	1,765.9	571	291.6	18	2.4%	761	370.3	6.1
35–39	Male	46	1,014.7	312	295.8	3	0.8%	369	335.4	3.4
	Female	41	1,037.4	124	117.5	3	1.8%	168	153.5	8.8
	Total	87	1,025.3	436	206.7	3	0.6%	537	244.7	5.0
40–44	Male	18	504.8	216	232.2	4	1.7%	240	248.5	2.2
	Female	25	750.1	82	87.5	0	0.0%	107	110.3	8.6
	Total	43	623.3	298	159.6	4	1.2%	347	179.3	3.9
45–49	Male	11	304.9	146	170.4	6	3.7%	163	182.6	1.8
	Female	7	224.6	51	60.0	0	0.0%	58	65.8	3.7
	Total	18	267.7	197	115.4	6	2.7%	221	124.6	2.3
50+	Male	13	119.3	222	47.3	1	0.4%	242	50.4	2.5
	Female	3	25.0	43	8.7	2	4.2%	48	9.5	2.9
	Total	16	69.8	265	27.5	1	0.3%	290	29.4	2.5
WA (Total)	**Male**	**510**	**924.7**	**2,201**	**115.8**	**28**	**1.0%**	**2,804**	**161.2**	**8.0**
	Female	**748**	**988.5**	**1,137**	**94.9**	**10**	**0.5%**	**1,919**	**114.2**	**10.4**
	Total	**1,258**	**953.2**	**3,339**	**88.1**	**38**	**0.8%**	**4,724**	**137.3**	**10.8**

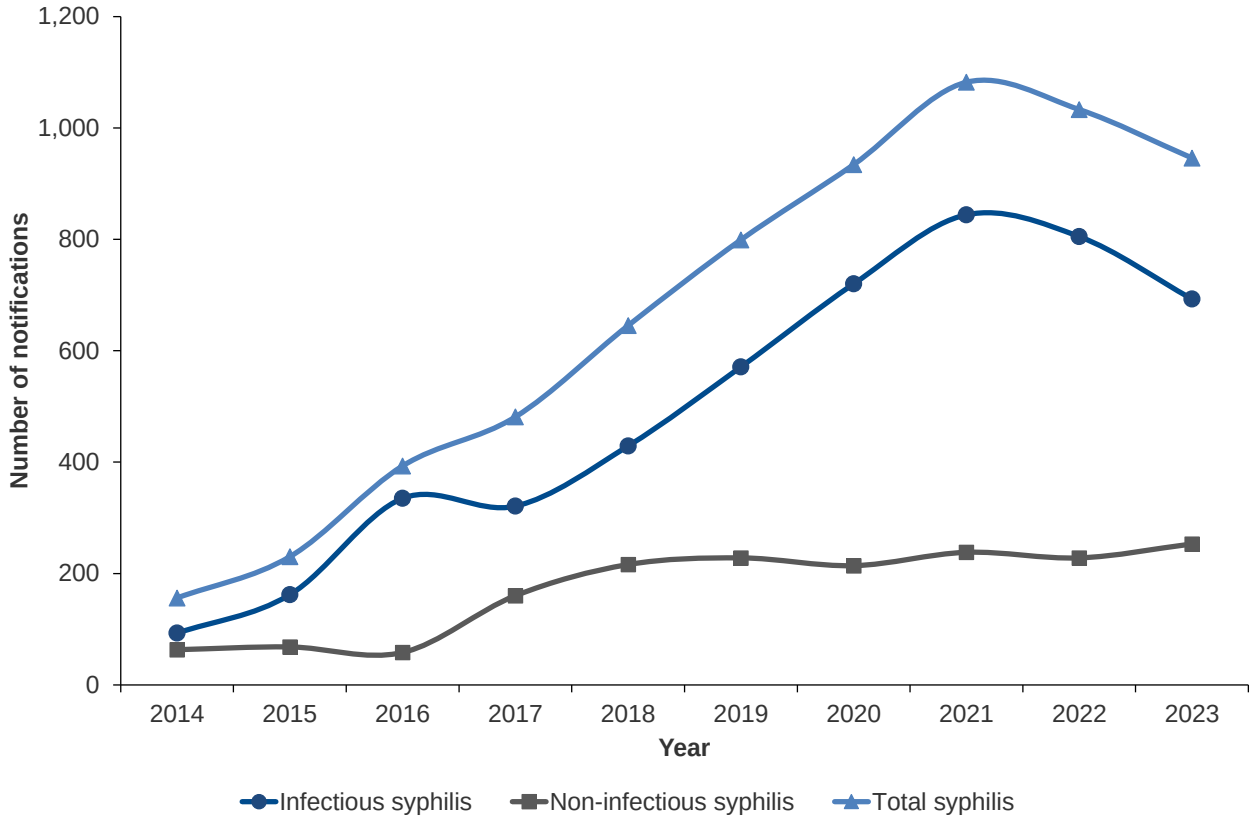
Notes: Number = Number of notifications reported to the DoH
Rate (Age group) = Age-specific rate
Rate (WA Total) = Age-standardised notification rate per 100,000 population
% (Total) = Number (Unknown) / Total number (Age group)
Rate ratio (Aboriginal:non-Aboriginal) = Aboriginal to non-Aboriginal rate ratio = Aboriginal rate (Age group) / non-Aboriginal rate (Age group)
N/A = Not applicable
Calculations by Aboriginality are based on notifications of known Aboriginal status only (i.e. notifications of unknown Aboriginal status are excluded)
WA (Total) includes one notification in a transgender person
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 18 Number and age-specific rate of gonorrhoea notifications by region and Aboriginality, WA, 2023

Region	Aboriginality	Rate	Age group (Years)										
			0–9	10–14	15–19	20–24	25–29	30–34	35–39	40–44	45–49	50+	Unknown	Total
Goldfields	Aboriginal	Number	0	2	34	51	44	25	18	8	3	4	0	189
		Rate	0.0	264.2	5,301.5	8,250.5	7,259.0	5,338.2	3,582.3	1,912.4	671.6	260.3	N/A	1,689.5
	non-Aboriginal	Number	0	0	2	6	5	2	8	4	4	4	0	35
		Rate	0.0	0.0	80.1	201.7	135.7	52.5	202.9	120.1	127.3	23.4	N/A	73.3
	Total	Number	0	2	36	57	50	27	26	12	7	8	0	225
		Rate	0.0	52.1	1,147.5	1,587.3	1,165.1	630.9	584.8	320.1	195.0	42.9	N/A	388.5
Great	Aboriginal	Number	0	0	1	0	0	3	0	0	0	1	0	5
Southern		Rate	0.0	0.0	253.3	0.0	0.0	1,361.5	0.0	0.0	0.0	125.3	N/A	156.4
	non-Aboriginal	Number	0	0	3	4	9	3	3	0	0	0	0	22
		Rate	0.0	0.0	83.6	166.3	322.8	90.8	86.4	0.0	0.0	0.0	N/A	53.9
	Total	Number	0	0	4	4	9	6	3	0	0	1	0	27
		Rate	0.0	0.0	100.4	151.5	292.3	170.2	81.3	0.0	0.0	3.4	N/A	36.5
Kimberley	Aboriginal	Number	0	11	119	106	93	53	18	13	8	5	0	426
		Rate	0.0	523.3	6,685.1	6,579.2	6,415.2	3,064.8	1,189.0	967.0	726.0	128.7	N/A	2,450.9
	non-Aboriginal	Number	0	0	3	8	2	7	3	9	2	2	0	36
		Rate	0.0	0.0	398.2	871.1	114.9	360.6	169.1	644.0	154.8	33.1	N/A	204.2
	Total	Number	0	11	123	117	95	61	21	22	10	7	0	467
		Rate	0.0	344.3	4,856.2	4,629.1	2,977.1	1,662.2	638.7	802.4	417.7	70.6	N/A	1,628.6
Metropolitan	Aboriginal	Number	0	6	82	100	72	45	35	13	6	1	0	360
		Rate	0.0	83.7	1,355.6	1,734.7	1,290.8	885.9	846.2	423.9	190.0	10.3	N/A	490.8
	non-Aboriginal	Number	1	3	201	591	615	512	392	253	171	240	0	2,979
		Rate	0.4	2.1	157.2	444.0	427.8	313.5	222.9	164.0	122.9	31.6	N/A	95.5
	Total	Number	1	9	290	711	721	573	440	272	183	250	0	3,450
		Rate	0.4	6.1	216.6	512.0	482.6	340.4	244.5	173.0	128.7	32.5	N/A	109.2
Midwest	Aboriginal	Number	0	3	17	17	13	8	7	2	1	4	0	72
		Rate	0.0	294.2	2,029.2	2,423.9	2,146.4	1,586.6	1,287.4	437.9	201.5	171.0	N/A	533.3
	non-Aboriginal	Number	0	0	2	7	2	3	1	1	2	3	0	21
		Rate	0.0	0.0	65.1	259.9	59.1	82.5	25.7	27.1	55.1	11.8	N/A	48.0
	Total	Number	0	3	19	24	15	11	8	3	3	7	0	93
		Rate	0.0	65.6	486.4	709.1	376.4	265.4	180.6	72.4	72.7	25.3	N/A	141.1
Pilbara	Aboriginal	Number	0	6	46	45	31	34	8	6	0	1	0	177
		Rate	0.0	518.6	4,260.1	4,842.8	3,150.2	3,221.0	804.6	769.6	0.0	49.8	N/A	1,690.3
	non-Aboriginal	Number	0	0	3	3	4	3	3	6	1	0	0	23
		Rate	0.0	0.0	157.6	142.0	100.1	59.1	53.6	145.3	28.9	0.0	N/A	184.6
	Total	Number	0	6	51	52	36	38	12	12	1	1	0	209
		Rate	0.0	143.1	1,707.6	1,710.7	722.7	619.4	182.0	244.5	24.2	8.7	N/A	701.5
South West	Aboriginal	Number	0	2	3	5	2	4	1	0	0	0	0	17
		Rate	0.0	215.3	355.1	820.9	359.6	941.3	254.4	0.0	0.0	0.0	N/A	211.6
	non-Aboriginal	Number	0	0	6	32	33	31	20	19	12	11	0	164
		Rate	0.0	0.0	54.7	429.9	379.9	284.5	165.0	153.3	98.8	13.6	N/A	39.7
	Total	Number	0	2	10	37	35	35	21	19	12	11	0	182
		Rate	0.0	14.3	84.6	459.5	378.8	309.2	167.7	148.4	95.8	13.4	N/A	40.9
Wheatbelt	Aboriginal	Number	0	0	3	5	3	0	0	1	0	0	0	12
		Rate	0.0	0.0	75.8	158.0	80.9	0.0	0.0	23.7	0.0	0.0	N/A	195.0
	non-Aboriginal	Number	0	0	3	2	5	3	5	5	4	5	0	32
		Rate	0.0	0.0	567.7	574.1	2,116.0	1,174.1	2,373.1	2,146.4	1,580.5	382.7	N/A	886.5
	Total	Number	0	0	6	7	8	3	5	6	4	5	0	44
		Rate	0.0	0.0	174.8	248.8	230.3	80.9	115.9	150.3	93.8	13.9	N/A	82.6
WA (Total)	**Aboriginal**	**Number**	**0**	**30**	**305**	**329**	**258**	**172**	**87**	**43**	**18**	**16**	**0**	**1,258**
		Rate	**0.0**	**211.4**	**2,507.8**	**3,040.1**	**2,502.7**	**1,765.9**	**1,025.3**	**623.3**	**267.7**	**69.8**	**N/A**	**953.2**
	non-Aboriginal	**Number**	**1**	**3**	**224**	**656**	**688**	**571**	**436**	**298**	**197**	**265**	**0**	**3,339**
		Rate	**0.3**	**1.7**	**145.4**	**424.7**	**401.4**	**291.6**	**206.7**	**159.6**	**115.4**	**27.5**	**N/A**	**88.1**
	Total	**Number**	**1**	**33**	**540**	**1,012**	**982**	**761**	**537**	**347**	**221**	**290**	**0**	**4,724**
		Rate	**0.3**	**17.7**	**324.8**	**612.4**	**540.3**	**370.3**	**244.7**	**179.3**	**124.6**	**29.4**	**N/A**	**137.3**

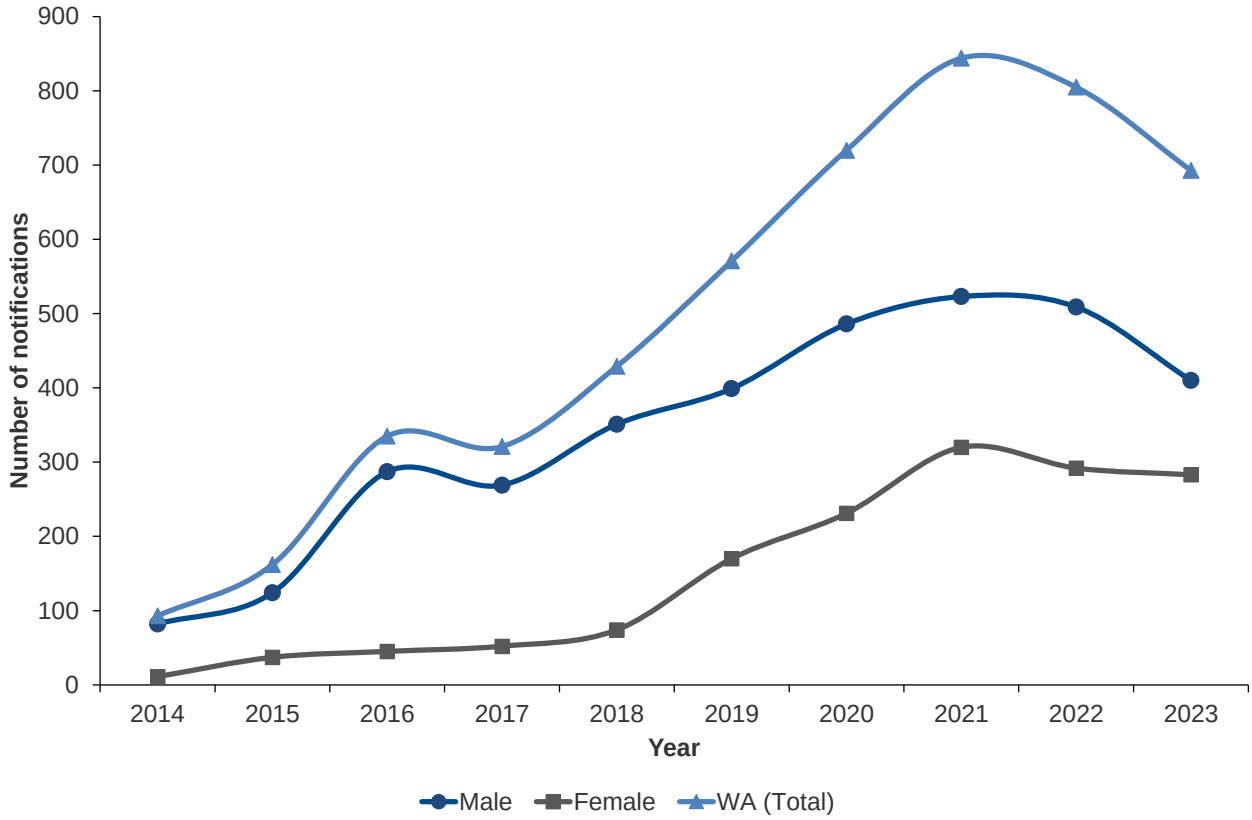
Notes: Number = Number of notifications reported to the DoH
Rate (Age group) = Age-specific rate
Rate (WA Total) = Age-standardised notification rate per 100,000 population
N/A = Not applicable
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Calculations by Aboriginality are based on notifications of known Aboriginal status only (i.e. notifications of unknown Aboriginal status are excluded)
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Figure 5 Number of syphilis notifications by disease status, WA, 2014 to 2023



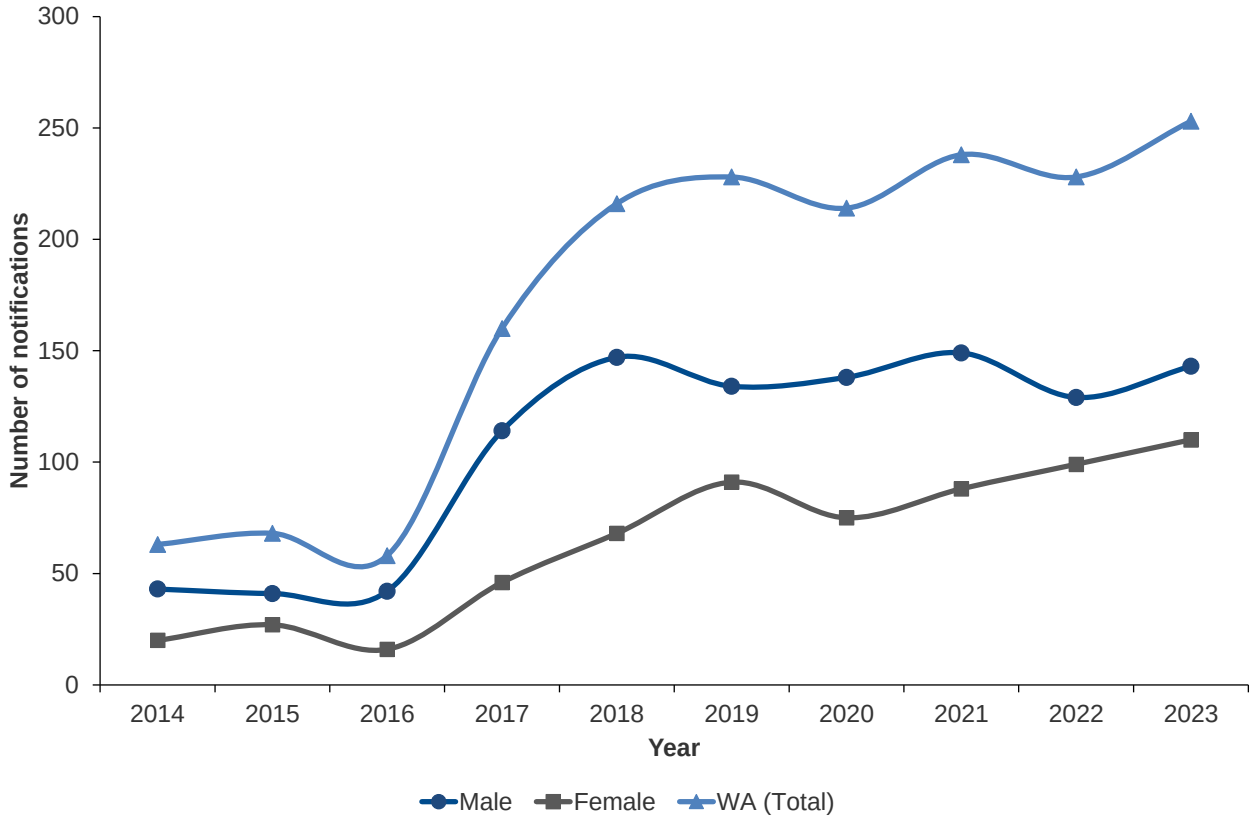
Notes: Infectious syphilis = Primary syphilis + Secondary syphilis + Early latent syphilis (less than two years duration)
Non-infectious syphilis = More than two years or unknown duration
Total syphilis = Infectious syphilis + Non-infectious syphilis
In addition to the number of notifications above, one case each of congenital syphilis were notified to the DoH in 2018 and 2019, and four cases each were notified in 2020, 2021, 2022 and 2023
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Figure 6 Number of infectious syphilis notifications by sex, WA, 2014 to 2023



Notes: Infectious syphilis = Primary syphilis + Secondary syphilis + Early latent syphilis (less than two years duration)
WA (Total) includes one notification in 2015, three notifications in 2016, four notifications in 2018, two notifications in 2019, three notifications in 2020, one notification in 2021, and four notifications in 2022 among transgender people
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Figure 7 Number of non-infectious syphilis notifications by sex, WA, 2014 to 2023



Notes: Non-infectious syphilis = More than two years or unknown duration
WA (Total) includes one notification in 2018, three notifications in 2019, and one notification each in 2020 and 2021 among transgender people
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 19 Number, crude rate and ASR syphilis notifications by region and sex, WA, 2023

Region	Disease stage	Sex						Rate ratio (Male:Female)
		Male		Female		Total		
		Number	ASR	Number	ASR	Number	ASR	
Goldfields	Infectious	14	48.0	26	104.5	40	73.9	0.5
	Non-infectious	6	19.1	13	53.2	19	35.0	0.4
	Total syphilis	20	67.1	39	157.7	59	108.9	0.4
Great Southern	Infectious	4	18.7	3	13.7	7	16.4	1.4
	Non-infectious	5	18.0	1	1.6	6	9.8	11.0
	Total syphilis	9	36.7	4	15.3	13	26.2	2.4
Kimberley	Infectious	31	157.7	39	191.1	70	175.0	0.8
	Non-infectious	1	5.5	5	24.9	6	15.5	0.2
	Total syphilis	32	163.3	44	216.1	76	190.5	0.8
Metropolitan	Infectious	288	26.3	131	12.2	419	19.2	2.2
	Non-infectious	92	7.8	63	5.6	155	6.6	1.4
	Total syphilis	380	34.1	194	17.8	574	25.9	1.9
Midwest	Infectious	11	37.5	11	43.0	22	40.0	0.9
	Non-infectious	13	32.0	9	28.3	22	30.5	1.1
	Total syphilis	24	69.5	20	71.3	44	70.5	1.0
Pilbara	Infectious	44	136.1	63	239.0	107	183.5	0.6
	Non-infectious	11	120.3	9	41.5	20	68.3	2.9
	Total syphilis	55	256.4	72	280.5	127	251.8	0.9
South West	Infectious	11	14.3	6	9.8	17	11.9	1.5
	Non-infectious	8	9.8	1	1.3	9	5.6	7.4
	Total syphilis	19	24.1	7	11.2	26	17.5	2.2
Wheatbelt	Infectious	4	13.4	4	15.8	8	14.3	0.9
	Non-infectious	5	13.5	9	32.5	14	22.1	0.4
	Total syphilis	9	26.9	13	48.2	22	36.4	0.6
WA (Total)	**Infectious**	**410**	**30.5**	**283**	**22.3**	**693**	**26.4**	**1.4**
	Non-infectious	**143**	**9.7**	**110**	**8.1**	**253**	**8.8**	**1.2**
	Total syphilis	**553**	**40.2**	**393**	**30.3**	**946**	**35.2**	**1.3**

Notes: Number = Number of notifications reported to the DoH
ASR = Age-standardised notification rate per 100,000 population
Rate ratio (Male:Female) = ASR (Male) / ASR (Female)
Infectious syphilis = Primary syphilis + Secondary syphilis + Early latent syphilis (less than two years duration)
Non-infectious syphilis = More than two years or unknown duration
Total syphilis = Infectious syphilis + Non-infectious syphilis
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 20 Number, crude rate and ASR of infectious syphilis notifications by region, WA, 2014 to 2023

Region	Rate	Year									
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Goldfields	Number	4	9	5	5	9	31	27	30	19	40
	Crude	6.7	15.4	8.8	8.8	16.0	55.2	48.0	52.9	33.4	70.0
	ASR	6.7	15.4	9.6	8.4	15.5	56.1	50.3	57.7	35.0	73.9
Great Southern	Number	0	0	1	2	2	7	6	6	7	7
	Crude	0.0	0.0	1.7	3.3	3.2	11.2	9.5	9.4	10.9	10.7
	ASR	0.0	0.0	2.3	4.5	4.5	15.2	11.5	11.1	13.3	16.4
Kimberley	Number	11	36	44	57	46	89	100	147	118	70
	Crude	29.2	97.1	120.9	155.6	124.2	237.4	262.0	379.8	303.1	177.3
	ASR	32.8	95.6	119.7	157.6	120.3	234.0	252.6	382.1	305.4	175.0
Metropolitan	Number	75	114	262	241	310	332	465	478	518	419
	Crude	3.8	5.7	12.9	11.8	14.9	15.7	21.5	21.8	23.2	18.5
	ASR	3.7	5.5	12.9	11.6	15.1	15.8	22.0	22.5	23.9	19.2
Midwest	Number	1	0	6	3	4	9	13	12	28	22
	Crude	1.5	0.0	9.2	4.6	6.1	13.7	19.6	17.8	41.3	32.1
	ASR	1.6	0.0	10.4	5.0	5.1	16.0	23.8	21.9	50.4	40.0
Pilbara	Number	0	2	2	1	45	88	80	148	95	107
	Crude	0.0	3.2	3.2	1.7	75.5	148.9	136.0	254.1	161.2	183.2
	ASR	0.0	2.6	2.4	1.6	82.3	204.9	137.1	266.1	162.8	183.5
South West	Number	0	1	8	8	7	3	18	16	12	17
	Crude	0.0	0.6	4.6	4.5	3.9	1.6	9.6	8.4	6.2	8.6
	ASR	0.0	0.7	4.6	5.4	4.2	1.8	12.6	11.0	8.9	11.9
Wheatbelt	Number	2	0	5	3	4	7	5	6	6	8
	Crude	2.5	0.0	6.5	3.9	5.2	9.1	6.5	7.7	7.7	10.2
	ASR	2.2	0.0	8.3	4.4	6.2	12.3	8.9	11.0	10.2	14.3
WA (Total)	**Number**	**93**	**162**	**335**	**321**	**429**	**571**	**720**	**844**	**805**	**693**
	Crude	**3.7**	**6.4**	**13.1**	**12.4**	**16.4**	**21.5**	**26.5**	**30.7**	**28.9**	**24.5**
	ASR	**3.7**	**6.3**	**13.3**	**12.7**	**16.9**	**22.3**	**27.8**	**32.9**	**30.7**	**26.4**

Notes: Number = Number of notifications reported to the DoH
Crude = Crude notification rate per 100,000 population
ASR = Age-standardised notification rate per 100,000 population
Infectious syphilis = Primary syphilis + Secondary syphilis + Early latent syphilis (less than two years duration)
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 21 Number, crude rate and ASR of non-infectious syphilis notifications by region, WA, 2014 to 2023

Region	Rate	Year									
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Goldfields	Number	3	3	4	8	17	38	12	22	18	19
	Crude	5.0	5.1	7.1	14.1	30.2	67.7	21.3	38.8	31.6	33.3
	ASR	4.8	6.0	7.2	15.0	27.7	68.2	21.0	38.0	33.3	35.0
Great Southern	Number	0	0	0	0	1	3	0	1	6	6
	Crude	0.0	0.0	0.0	0.0	1.6	4.8	0.0	1.6	9.3	9.2
	ASR	0.0	0.0	0.0	0.0	2.2	5.3	0.0	2.2	10.9	9.8
Kimberley	Number	2	0	1	4	2	5	1	8	15	6
	Crude	5.3	0.0	2.7	10.9	5.4	13.3	2.6	20.7	38.5	15.2
	ASR	5.9	0.0	2.8	17.2	5.7	13.7	2.1	20.7	39.3	15.5
Metropolitan	Number	51	59	48	137	164	153	178	158	134	155
	Crude	2.6	2.9	2.4	6.7	7.9	7.2	8.2	7.2	6.0	6.8
	ASR	2.4	2.9	2.3	6.6	7.7	7.0	8.1	7.1	5.9	6.6
Midwest	Number	2	1	0	1	10	7	5	13	16	22
	Crude	3.0	1.5	0.0	1.5	15.3	10.7	7.5	19.3	23.6	32.1
	ASR	2.7	1.8	0.0	1.8	16.0	10.8	7.6	19.5	25.0	30.5
Pilbara	Number	3	1	2	4	12	9	8	21	20	20
	Crude	4.7	1.6	3.2	6.6	20.1	15.2	13.6	36.1	33.9	34.2
	ASR	4.4	1.4	16.9	5.1	26.9	27.3	18.5	47.3	70.0	68.3
South West	Number	1	3	2	4	6	5	6	6	11	9
	Crude	0.6	1.7	1.1	2.2	3.3	2.7	3.2	3.1	5.7	4.6
	ASR	0.7	2.0	1.3	2.5	3.7	3.2	3.7	3.6	5.8	5.6
Wheatbelt	Number	0	0	0	0	1	4	2	8	5	14
	Crude	0.0	0.0	0.0	0.0	1.3	5.2	2.6	10.3	6.4	17.8
	ASR	0.0	0.0	0.0	0.0	0.8	6.9	2.7	13.2	8.1	22.1
WA (Total)	**Number**	**63**	**68**	**58**	**160**	**216**	**228**	**214**	**238**	**228**	**253**
	Crude	**2.5**	**2.7**	**2.3**	**6.2**	**8.3**	**8.6**	**7.9**	**8.7**	**8.2**	**8.9**
	ASR	**2.4**	**2.7**	**2.2**	**6.2**	**8.1**	**8.4**	**7.8**	**8.6**	**8.1**	**8.8**

Notes: Number = Number of notifications reported to the DoH
Crude = Crude notification rate per 100,000 population
ASR = Age-standardised notification rate per 100,000 population
Non-infectious syphilis = More than two years or unknown duration
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 22 Number, crude rate and ASR of total syphilis notifications by region, WA, 2014 to 2023

Region	Rate	Year									
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Goldfields	Number	7	12	9	13	26	69	39	52	37	59
	Crude	11.7	20.5	15.9	23.0	46.2	122.9	69.3	91.6	65.0	103.3
	ASR	11.5	21.4	16.8	23.4	43.2	124.3	71.3	95.6	68.3	108.9
Great Southern	Number	0	0	1	2	3	10	6	7	13	13
	Crude	0.0	0.0	1.7	3.3	4.9	16.0	9.5	10.9	20.2	20.0
	ASR	0.0	0.0	2.3	4.5	6.7	20.5	11.5	13.3	24.3	26.2
Kimberley	Number	13	36	45	61	48	94	101	155	133	76
	Crude	34.5	97.1	123.6	166.5	129.6	250.7	264.6	400.5	341.7	192.5
	ASR	38.7	95.6	122.5	174.8	126.0	247.7	254.7	402.7	344.7	190.5
Metropolitan	Number	126	173	310	378	474	485	643	636	652	574
	Crude	6.4	8.6	15.3	18.4	22.8	22.9	29.7	29.0	29.2	25.3
	ASR	6.1	8.4	15.3	18.3	22.8	22.8	30.0	29.6	29.8	25.9
Midwest	Number	3	1	6	4	14	16	18	25	44	44
	Crude	4.5	1.5	9.2	6.1	21.5	24.4	27.2	37.2	64.9	64.2
	ASR	4.2	1.8	10.4	6.8	21.1	26.7	31.3	41.4	75.4	70.5
Pilbara	Number	3	3	4	5	57	97	88	169	115	127
	Crude	4.7	4.8	6.5	8.3	95.6	164.2	149.6	290.2	195.1	217.4
	ASR	4.4	4.0	19.3	6.8	109.3	232.3	155.5	313.4	232.8	251.8
South West	Number	1	4	10	12	13	8	24	22	23	26
	Crude	0.6	2.3	5.7	6.7	7.2	4.4	12.8	11.5	11.9	13.2
	ASR	0.7	2.6	6.0	7.9	7.8	5.1	16.2	14.7	14.7	17.5
Wheatbelt	Number	2	0	5	3	5	11	7	14	11	22
	Crude	2.5	0.0	6.5	3.9	6.5	14.3	9.1	18.0	14.0	28.0
	ASR	2.2	0.0	8.3	4.4	7.0	19.2	11.5	24.2	18.3	36.4
WA (Total)	**Number**	**156**	**230**	**393**	**481**	**645**	**799**	**934**	**1,082**	**1,033**	**946**
	Crude	**6.2**	**9.1**	**15.4**	**18.6**	**24.6**	**30.0**	**34.4**	**39.4**	**37.0**	**33.4**
	ASR	**6.1**	**9.0**	**15.5**	**18.9**	**25.0**	**30.7**	**35.6**	**41.5**	**38.8**	**35.2**

Notes: Number = Number of notifications reported to the DoH
Crude = Crude rate per 100,000 population
ASR = Age-standardised notification rate per 100,000 population
Total syphilis = Infectious syphilis + Non-infectious syphilis
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Column totals include cases with overseas or unknown addresses, which are not shown in the table
In addition to the number of notifications above, one case each of congenital syphilis were notified to the DoH in 2018 and 2019, and four cases each were notified in 2020, 2021, 2022 and 2023
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 23 Number and age-specific rate of infectious syphilis notifications by sex and Aboriginality, WA, 2023

Age group (Years)	Sex	Aboriginality						Total		Rate ratio (Aboriginal: non-Aboriginal)
		Aboriginal		non-Aboriginal		Unknown				
		Number	Rate	Number	Rate	Number	%Total	Number	Rate	
0–9	Male	0	0.0	0	0.0	0	N/A	0	0.0	N/A
	Female	0	0.0	0	0.0	0	N/A	0	0.0	N/A
	Total	0	0.0	0	0.0	0	N/A	0	0.0	N/A
10–14	Male	0	0.0	0	0.0	0	N/A	0	0.0	N/A
	Female	2	28.2	0	0.0	0	0.0%	2	2.2	N/A
	Total	2	14.1	0	0.0	0	0.0%	2	1.1	N/A
15–19	Male	24	389.4	1	1.3	0	0.0%	25	29.1	310.0
	Female	25	417.7	3	4.0	0	0.0%	28	34.8	103.7
	Total	49	402.9	4	2.6	0	0.0%	53	31.9	155.2
20–24	Male	17	297.9	26	32.6	3	6.5%	46	53.8	9.1
	Female	44	860.2	20	26.8	1	1.5%	65	81.5	32.1
	Total	61	563.7	46	29.8	4	3.6%	111	67.2	18.9
25–29	Male	27	505.5	42	47.9	0	0.0%	69	74.1	10.6
	Female	43	865.6	17	20.1	0	0.0%	60	66.9	43.1
	Total	70	679.0	59	34.4	0	0.0%	129	71.0	19.7
30–34	Male	19	361.7	57	59.1	1	1.3%	77	75.8	6.1
	Female	26	579.5	20	20.2	0	0.0%	46	44.4	28.7
	Total	45	462.0	77	39.3	1	0.8%	123	59.8	11.7
35–39	Male	20	441.2	44	41.7	1	1.5%	65	59.1	10.6
	Female	25	632.6	15	14.2	0	0.0%	40	36.5	44.5
	Total	45	530.3	59	28.0	1	1.0%	105	47.8	19.0
40–44	Male	11	308.5	34	36.6	0	0.0%	45	46.6	8.4
	Female	10	300.1	13	13.9	0	0.0%	23	23.7	21.6
	Total	21	304.4	47	25.2	0	0.0%	68	35.1	12.1
45–49	Male	3	83.2	28	32.7	0	0.0%	31	34.7	2.5
	Female	4	128.4	5	5.9	0	0.0%	9	10.2	21.8
	Total	7	104.1	33	19.3	0	0.0%	40	22.6	5.4
50+	Male	10	91.7	42	9.0	0	0.0%	52	10.8	10.2
	Female	5	41.6	5	1.0	0	0.0%	10	2.0	41.1
	Total	15	65.5	47	4.9	0	0.0%	62	6.3	13.4
WA (Total)	**Male**	**131**	**200.6**	**274**	**21.1**	**5**	**1.2%**	**410**	**30.4**	**9.5**
	Female	**184**	**287.7**	**98**	**7.9**	**1**	**0.4%**	**283**	**22.2**	**36.4**
	Total	**315**	**241.0**	**372**	**14.5**	**6**	**0.9%**	**693**	**26.2**	**16.7**

Notes: Number = Number of notifications reported to the DoH
Rate (Age group) = Age-specific rate
Rate (WA Total) = Age-standardised notification rate per 100,000 population
% (Total) = Number (Unknown) / Total number (Age group)
Rate ratio (Aboriginal:non-Aboriginal) = Aboriginal to non-Aboriginal rate ratio = Aboriginal rate (Age group) / non-Aboriginal rate (Age group)
Infectious syphilis = Primary syphilis + Secondary syphilis + Early latent syphilis (less than two years duration)
N/A = Not applicable
Calculations by Aboriginality are based on notifications of known Aboriginal status only (i.e. notifications of unknown Aboriginal status are excluded)
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 24 Number and age-specific rate of non-infectious syphilis notifications by sex and Aboriginality, WA, 2023

Age group (Years)	Sex	Aboriginality						Total		Rate ratio (Aboriginal: non-Aboriginal)
		Aboriginal		non-Aboriginal		Unknown				
		Number	Rate	Number	Rate	Number	%Total	Number	Rate	
0–9	Male	0	0.0	0	0.0	0	N/A	0	0.0	N/A
	Female	0	0.0	0	0.0	0	N/A	0	0.0	N/A
	Total	0	0.0	0	0.0	0	N/A	0	0.0	N/A
10–14	Male	0	0.0	0	0.0	0	N/A	0	0.0	N/A
	Female	0	0.0	0	0.0	0	N/A	0	0.0	N/A
	Total	0	0.0	0	0.0	0	N/A	0	0.0	N/A
15–19	Male	0	0.0	2	2.5	0	0.0%	2	2.3	0.0
	Female	6	100.2	0	0.0	0	0.0%	6	7.5	N/A
	Total	6	49.3	2	1.3	0	0.0%	8	4.8	38.0
20–24	Male	3	52.6	5	6.3	1	11.1%	9	10.5	8.4
	Female	4	78.2	11	14.7	0	0.0%	15	18.8	5.3
	Total	7	64.7	16	10.4	1	4.2%	24	14.5	6.2
25–29	Male	0	0.0	13	14.8	1	7.1%	14	15.0	0.0
	Female	5	100.7	6	7.1	0	0.0%	11	12.3	14.2
	Total	5	48.5	19	11.1	1	4.0%	25	13.8	4.4
30–34	Male	2	38.1	13	13.5	0	0.0%	15	14.8	2.8
	Female	9	200.6	6	6.0	1	6.3%	16	15.4	33.2
	Total	11	112.9	19	9.7	1	3.2%	31	15.1	11.6
35–39	Male	3	66.2	9	8.5	0	0.0%	12	10.9	7.8
	Female	4	101.2	10	9.5	0	0.0%	14	12.8	10.7
	Total	7	82.5	19	9.0	0	0.0%	26	11.8	9.2
40–44	Male	1	28.0	9	9.7	0	0.0%	10	10.4	2.9
	Female	4	120.0	7	7.5	0	0.0%	11	11.3	16.1
	Total	5	72.5	16	8.6	0	0.0%	21	10.9	8.5
45–49	Male	3	83.2	9	10.5	0	0.0%	12	13.4	7.9
	Female	5	160.4	3	3.5	1	11.1%	9	10.2	45.5
	Total	8	119.0	12	7.0	1	4.8%	21	11.8	16.9
50+	Male	23	211.0	45	9.6	1	1.4%	69	14.4	22.0
	Female	17	141.5	10	2.0	1	3.6%	28	5.5	69.8
	Total	40	174.6	55	5.7	2	2.1%	97	9.8	30.5
WA (Total)	**Male**	**35**	**80.0**	**105**	**7.6**	**3**	**2.1%**	**143**	**9.8**	**10.6**
	Female	**54**	**103.4**	**53**	**4.1**	**3**	**2.7%**	**110**	**8.0**	**25.3**
	Total	**89**	**90.1**	**158**	**5.8**	**6**	**2.4%**	**253**	**8.8**	**15.5**

Notes: Number = Number of notifications reported to the DoH
Rate (Age group) = Age-specific rate
Rate (WA Total) = Age-standardised notification rate per 100,000 population
% (Total) = Number (Unknown) / Total number (Age group)
Rate ratio (Aboriginal:non-Aboriginal) = Aboriginal to non-Aboriginal rate ratio = Aboriginal rate (Age group) / non-Aboriginal rate (Age group)
Non-infectious syphilis = More than two years or unknown duration
N/A = Not applicable
Calculations by Aboriginality are based on notifications of known Aboriginal status only (i.e. notifications of unknown Aboriginal status are excluded)
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 25 Number and age-specific rate of total syphilis notifications by sex and Aboriginality, WA, 2023

Age group (Years)	Sex	Aboriginality						Total		Rate ratio (Aboriginal: non-Aboriginal)
		Aboriginal		non-Aboriginal		Unknown				
		Number	Rate	Number	Rate	Number	%Total	Number	Rate	
0–9	Male	0	0.0	0	0.0	0	N/A	0	0.0	N/A
	Female	0	0.0	0	0.0	0	N/A	0	0.0	N/A
	Total	0	0.0	0	0.0	0	N/A	0	0.0	N/A
10–14	Male	0	0.0	0	0.0	0	N/A	0	0.0	N/A
	Female	2	28.2	0	0.0	0	0.0%	2	2.2	N/A
	Total	2	14.1	0	0.0	0	0.0%	2	1.1	N/A
15–19	Male	24	389.4	3	3.8	0	0.0%	27	31.5	103.3
	Female	31	517.9	3	4.0	0	0.0%	34	42.3	128.6
	Total	55	452.2	6	3.9	0	0.0%	61	36.7	116.2
20–24	Male	20	350.4	31	38.8	4	7.3%	55	64.3	9.0
	Female	48	938.4	31	41.5	1	1.3%	80	100.3	22.6
	Total	68	628.3	62	40.1	5	3.7%	135	81.7	15.7
25–29	Male	27	505.5	55	62.7	1	1.2%	83	89.2	8.1
	Female	48	966.3	23	27.2	0	0.0%	71	79.2	35.6
	Total	75	727.5	78	45.5	1	0.6%	154	84.7	16.0
30–34	Male	21	399.7	70	72.6	1	1.1%	92	90.5	5.5
	Female	35	780.1	26	26.2	1	1.6%	62	59.8	29.8
	Total	56	574.9	96	49.0	2	1.3%	154	74.9	11.7
35–39	Male	23	507.3	53	50.2	1	1.3%	77	70.0	10.1
	Female	29	733.8	25	23.7	0	0.0%	54	49.3	31.0
	Total	52	612.8	78	37.0	1	0.8%	131	59.7	16.6
40–44	Male	12	336.6	43	46.2	0	0.0%	55	57.0	7.3
	Female	14	420.1	20	21.4	0	0.0%	34	35.1	19.7
	Total	26	376.9	63	33.7	0	0.0%	89	46.0	11.2
45–49	Male	6	166.3	37	43.2	0	0.0%	43	48.2	3.9
	Female	9	288.8	8	9.4	1	5.6%	18	20.4	30.7
	Total	15	223.1	45	26.4	1	1.6%	61	34.4	8.5
50+	Male	33	302.7	87	18.5	1	0.8%	121	25.2	16.3
	Female	22	183.1	15	3.0	1	2.6%	38	7.5	60.2
	Total	55	240.0	102	10.6	2	1.3%	159	16.1	22.6
WA (Total)	**Male**	**166**	**280.6**	**379**	**28.6**	**8**	**1.4%**	**553**	**40.1**	**9.8**
	Female	**238**	**391.1**	**151**	**12.0**	**4**	**1.0%**	**393**	**30.1**	**32.6**
	Total	**404**	**331.1**	**530**	**20.3**	**12**	**1.3%**	**946**	**35.0**	**16.3**

Notes: Number = Number of notifications reported to the DoH
Rate (Age group) = Age-specific rate
Rate (WA Total) = Age-standardised notification rate per 100,000 population
% (Total) = Number (Unknown) / Total number (Age group)
Rate ratio (Aboriginal:non-Aboriginal) = Aboriginal to non-Aboriginal rate ratio = Aboriginal rate (Age group) / non-Aboriginal rate (Age group)
Total syphilis = Infectious syphilis + Non-infectious syphilis
N/A = Not applicable
Calculations by Aboriginality are based on notifications of known Aboriginal status only (i.e. notifications of unknown Aboriginal status are excluded)
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 26 Number and age-specific rate of infectious syphilis notifications by region and Aboriginality, WA, 2023

Region	Aboriginality	Rate	Age group (Years)											
			0–9	10–14	15–19	20–24	25–29	30–34	35–39	40–44	45–49	50+	Unknown	Total
Goldfields	Aboriginal	Number	0	0	4	10	7	7	4	3	0	0	0	35
		Rate	0.0	0.0	623.7	1,617.8	1,154.8	1,494.7	796.1	717.1	0.0	0.0	N/A	464.5
	non-Aboriginal	Number	0	0	0	3	0	2	0	0	0	0	0	5
		Rate	0.0	0.0	0.0	100.9	0.0	52.5	0.0	0.0	0.0	0.0	N/A	10.7
	Total	Number	0	0	4	13	7	9	4	3	0	0	0	40
		Rate	0.0	0.0	127.5	362.0	163.1	210.3	90.0	80.0	0.0	0.0	N/A	73.9
Great	Aboriginal	Number	0	0	0	1	0	0	0	0	0	1	0	2
Southern		Rate	0.0	0.0	0.0	423.9	0.0	0.0	0.0	0.0	0.0	125.3	N/A	64.4
	non-Aboriginal	Number	0	0	0	3	2	0	0	0	0	0	0	5
		Rate	0.0	0.0	0.0	124.8	71.7	0.0	0.0	0.0	0.0	0.0	N/A	13.6
	Total	Number	0	0	0	4	2	0	0	0	0	1	0	7
		Rate	0.0	0.0	0.0	151.5	64.9	0.0	0.0	0.0	0.0	3.4	N/A	15.9
Kimberley	Aboriginal	Number	0	0	14	11	15	6	5	5	1	5	0	62
		Rate	0.0	0.0	786.5	682.7	1,034.7	347.0	330.3	371.9	90.7	128.7	N/A	298.8
	non-Aboriginal	Number	0	0	0	1	0	1	1	2	1	2	0	8
		Rate	0.0	0.0	0.0	108.9	0.0	51.5	56.4	143.1	77.4	33.1	N/A	41.4
	Total	Number	0	0	14	12	15	7	6	7	2	7	0	70
		Rate	0.0	0.0	552.7	474.8	470.1	190.7	182.5	255.3	83.5	70.6	N/A	178.4
Metropolitan	Aboriginal	Number	0	0	9	8	19	21	17	5	3	6	0	88
		Rate	0.0	0.0	148.8	138.8	340.6	413.4	411.0	163.0	95.0	61.6	N/A	143.9
	non-Aboriginal	Number	0	0	3	33	54	69	53	39	31	43	0	325
		Rate	0.0	0.0	2.3	24.8	37.6	42.3	30.1	25.3	22.3	5.7	N/A	15.2
	Total	Number	0	0	12	45	73	91	71	44	34	49	0	419
		Rate	0.0	0.0	9.0	32.4	48.9	54.1	39.4	28.0	23.9	6.4	N/A	19.1
Midwest	Aboriginal	Number	0	0	2	6	3	1	2	1	1	1	0	17
		Rate	0.0	0.0	238.7	855.5	495.3	198.3	367.8	219.0	201.5	42.8	N/A	196.2
	non-Aboriginal	Number	0	0	0	1	2	1	0	0	1	0	0	5
		Rate	0.0	0.0	0.0	37.1	59.1	27.5	0.0	0.0	27.6	0.0	N/A	10.8
	Total	Number	0	0	2	7	5	2	2	1	2	1	0	22
		Rate	0.0	0.0	51.2	206.8	125.5	48.3	45.1	24.1	48.5	3.6	N/A	39.9
Pilbara	Aboriginal	Number	0	2	20	22	22	10	17	6	1	1	0	101
		Rate	0.0	172.9	1,852.2	2,367.6	2,235.6	947.3	1,709.7	769.6	147.3	49.8	N/A	748.2
	non-Aboriginal	Number	0	0	0	0	0	0	3	3	0	0	0	6
		Rate	0.0	0.0	0.0	0.0	0.0	0.0	53.6	72.7	0.0	0.0	N/A	9.7
	Total	Number	0	2	20	22	22	10	20	9	1	1	0	107
		Rate	0.0	47.7	669.6	723.8	441.6	163.0	303.4	183.4	24.2	8.7	N/A	184.4
South West	Aboriginal	Number	0	0	0	1	2	0	0	0	0	0	0	3
		Rate	0.0	0.0	0.0	164.2	359.6	0.0	0.0	0.0	0.0	0.0	N/A	37.1
	non-Aboriginal	Number	0	0	1	5	1	2	1	2	0	2	0	14
		Rate	0.0	0.0	9.1	67.2	11.5	18.4	8.2	16.1	0.0	2.5	N/A	9.9
	Total	Number	0	0	1	6	3	2	1	2	0	2	0	17
		Rate	0.0	0.0	8.5	74.5	32.5	17.7	8.0	15.6	0.0	2.4	N/A	11.8
Wheatbelt	Aboriginal	Number	0	0	0	1	2	0	0	1	1	1	0	6
		Rate	0.0	0.0	0.0	31.6	53.9	0.0	0.0	23.7	22.1	2.7	N/A	10.2
	non-Aboriginal	Number	0	0	0	0	0	1	0	1	0	0	0	2
		Rate	0.0	0.0	0.0	0.0	0.0	391.4	0.0	429.3	0.0	0.0	N/A	62.3
	Total	Number	0	0	0	1	2	1	0	2	1	1	0	8
		Rate	0.0	0.0	0.0	35.5	57.6	27.0	0.0	50.1	23.5	2.8	N/A	14.9
WA (Total)	**Aboriginal**	**Number**	**0**	**2**	**49**	**61**	**70**	**45**	**45**	**21**	**7**	**15**	**0**	**315**
		Rate	**0.0**	**14.1**	**402.9**	**563.7**	**679.0**	**462.0**	**530.3**	**304.4**	**104.1**	**65.5**	**N/A**	**241.0**
	non-Aboriginal	**Number**	**0**	**0**	**4**	**46**	**59**	**77**	**59**	**47**	**33**	**47**	**0**	**372**
		Rate	**0.0**	**0.0**	**2.6**	**29.8**	**34.4**	**39.3**	**28.0**	**25.2**	**19.3**	**4.9**	**N/A**	**14.5**
	Total	**Number**	**0**	**2**	**53**	**111**	**129**	**123**	**105**	**68**	**40**	**62**	**0**	**693**
		Rate	**0.0**	**1.1**	**31.9**	**67.2**	**71.0**	**59.8**	**47.8**	**35.1**	**22.6**	**6.3**	**N/A**	**26.2**

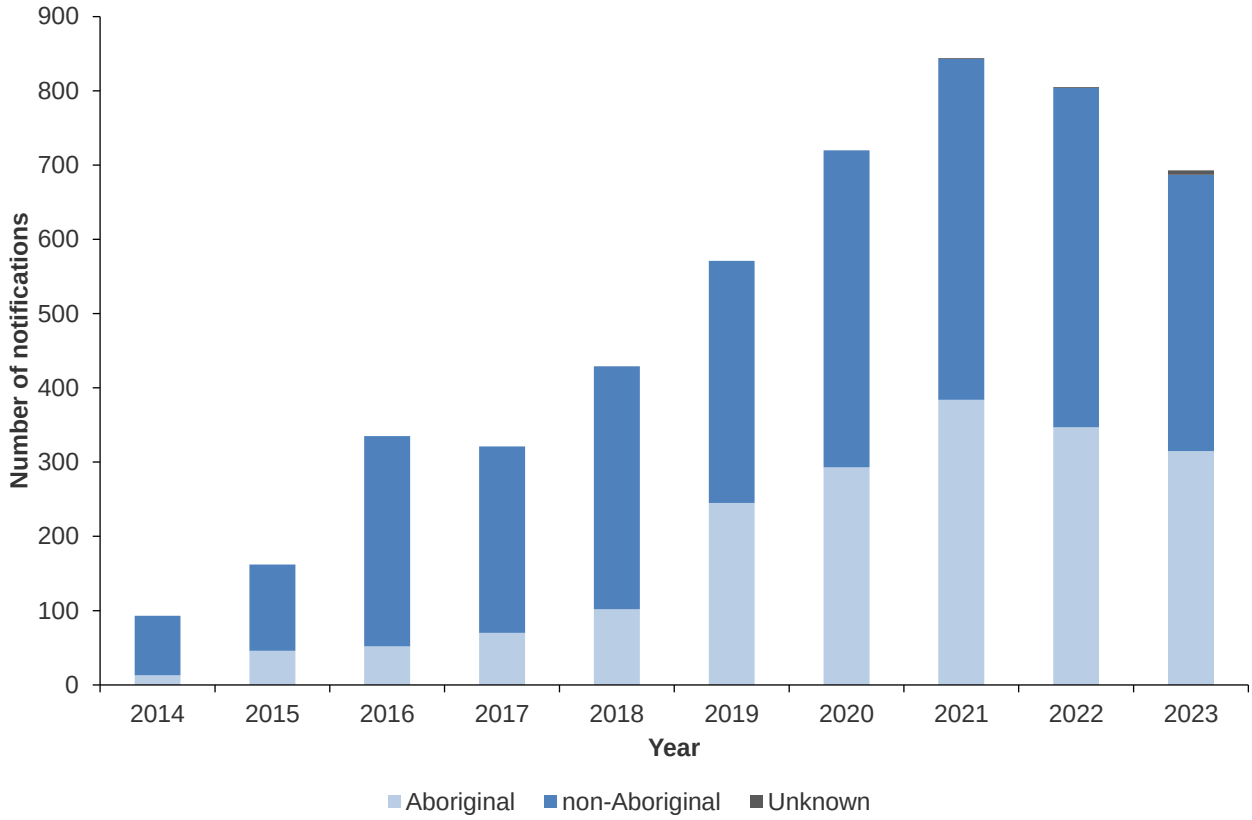
Notes: Number = Number of notifications reported to the DoH
Rate (Age group) = Age-specific rate
Rate (WA Total) = Age-standardised notification rate per 100,000 population
Infectious syphilis = Primary syphilis + Secondary syphilis + Early latent syphilis (less than two years duration)
N/A = Not applicable
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Calculations by Aboriginality are based on notifications of known Aboriginal status only (i.e. notifications of unknown Aboriginal status are excluded)
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 27 Number and age-specific rate of non-infectious syphilis notifications by region and Aboriginality, WA, 2023

Region	Aboriginality	Rate	Age group (Years)											
			0–9	10–14	15–19	20–24	25–29	30–34	35–39	40–44	45–49	50+	Unknown	Total
Goldfields	Aboriginal	Number	0	0	4	2	0	0	4	1	2	2	0	15
		Rate	0.0	0.0	623.7	323.6	0.0	0.0	796.1	239.0	447.7	130.1	N/A	213.2
	non-Aboriginal	Number	0	0	0	0	2	0	1	0	0	1	0	4
		Rate	0.0	0.0	0.0	0.0	54.3	0.0	25.4	0.0	0.0	5.8	N/A	7.6
	Total	Number	0	0	4	2	2	0	5	1	2	3	0	19
		Rate	0.0	0.0	127.5	55.7	46.6	0.0	112.5	26.7	55.7	16.1	N/A	35.2
Great	Aboriginal	Number	0	0	0	0	0	0	0	1	0	1	0	2
Southern		Rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	548.3	0.0	125.3	N/A	77.7
	non-Aboriginal	Number	0	0	0	0	0	2	0	0	1	1	0	4
		Rate	0.0	0.0	0.0	0.0	0.0	60.5	0.0	0.0	27.5	3.5	N/A	7.5
	Total	Number	0	0	0	0	0	2	0	1	1	2	0	6
		Rate	0.0	0.0	0.0	0.0	0.0	56.7	0.0	27.1	26.1	6.9	N/A	10.1
Kimberley	Aboriginal	Number	0	0	2	1	0	0	0	0	0	1	0	4
		Rate	0.0	0.0	112.4	62.1	0.0	0.0	0.0	0.0	0.0	25.7	N/A	19.4
	non-Aboriginal	Number	0	0	0	1	1	0	0	0	0	0	0	2
		Rate	0.0	0.0	0.0	108.9	57.4	0.0	0.0	0.0	0.0	0.0	N/A	11.5
	Total	Number	0	0	2	2	1	0	0	0	0	1	0	6
		Rate	0.0	0.0	79.0	79.1	31.3	0.0	0.0	0.0	0.0	10.1	N/A	16.0
Metropolitan	Aboriginal	Number	0	0	0	1	3	5	1	0	2	13	0	25
		Rate	0.0	0.0	0.0	17.3	53.8	98.4	24.2	0.0	63.3	133.6	N/A	57.1
	non-Aboriginal	Number	0	0	2	14	10	14	17	12	9	47	0	125
		Rate	0.0	0.0	1.6	10.5	7.0	8.6	9.7	7.8	6.5	6.2	N/A	5.5
	Total	Number	0	0	2	16	14	20	18	12	11	62	0	155
		Rate	0.0	0.0	1.5	11.5	9.4	11.9	10.0	7.6	7.7	8.1	N/A	6.7
Midwest	Aboriginal	Number	0	0	0	0	0	3	1	1	0	12	0	17
		Rate	0.0	0.0	0.0	0.0	0.0	595.0	183.9	219.0	0.0	513.1	N/A	222.9
	non-Aboriginal	Number	0	0	0	0	2	1	0	0	0	2	0	5
		Rate	0.0	0.0	0.0	0.0	59.1	27.5	0.0	0.0	0.0	7.9	N/A	8.6
	Total	Number	0	0	0	0	2	4	1	1	0	14	0	22
		Rate	0.0	0.0	0.0	0.0	50.2	96.5	22.6	24.1	0.0	50.6	N/A	29.0
Pilbara	Aboriginal	Number	0	0	0	1	1	1	1	1	4	7	0	16
		Rate	0.0	0.0	0.0	107.6	101.6	94.7	100.6	128.3	589.1	348.8	N/A	180.5
	non-Aboriginal	Number	0	0	0	0	0	0	1	0	0	2	0	3
		Rate	0.0	0.0	0.0	0.0	0.0	0.0	17.9	0.0	0.0	21.2	N/A	7.5
	Total	Number	0	0	0	1	1	1	2	1	5	9	0	20
		Rate	0.0	0.0	0.0	32.9	20.1	16.3	30.3	20.4	120.8	78.7	N/A	39.8
South West	Aboriginal	Number	0	0	0	0	0	1	0	0	0	0	0	1
		Rate	0.0	0.0	0.0	0.0	0.0	235.3	0.0	0.0	0.0	0.0	N/A	17.8
	non-Aboriginal	Number	0	0	0	1	2	1	0	0	2	2	0	8
		Rate	0.0	0.0	0.0	13.4	23.0	9.2	0.0	0.0	16.5	2.5	N/A	5.1
	Total	Number	0	0	0	1	2	2	0	0	2	2	0	9
		Rate	0.0	0.0	0.0	12.4	21.6	17.7	0.0	0.0	16.0	2.4	N/A	5.6
Wheatbelt	Aboriginal	Number	0	0	0	2	1	1	0	1	0	4	0	9
		Rate	0.0	0.0	0.0	63.2	27.0	25.2	0.0	23.7	0.0	10.7	N/A	13.0
	non-Aboriginal	Number	0	0	0	0	1	1	0	3	0	0	0	5
		Rate	0.0	0.0	0.0	0.0	423.2	391.4	0.0	1,287.9	0.0	0.0	N/A	158.4
	Total	Number	0	0	0	2	2	2	0	4	0	4	0	14
		Rate	0.0	0.0	0.0	71.1	57.6	53.9	0.0	100.2	0.0	11.1	N/A	23.8
WA (Total)	**Aboriginal**	**Number**	**0**	**0**	**6**	**7**	**5**	**11**	**7**	**5**	**8**	**40**	**0**	**89**
		Rate	**0.0**	**0.0**	**49.3**	**64.7**	**48.5**	**112.9**	**82.5**	**72.5**	**119.0**	**174.6**	**N/A**	**90.1**
	non-Aboriginal	**Number**	**0**	**0**	**2**	**16**	**19**	**19**	**19**	**16**	**12**	**55**	**0**	**158**
		Rate	**0.0**	**0.0**	**1.3**	**10.4**	**11.1**	**9.7**	**9.0**	**8.6**	**7.0**	**5.7**	**N/A**	**5.8**
	Total	**Number**	**0**	**0**	**8**	**24**	**25**	**31**	**26**	**21**	**21**	**97**	**0**	**253**
		Rate	**0.0**	**0.0**	**4.8**	**14.5**	**13.8**	**15.1**	**11.8**	**10.9**	**11.8**	**9.8**	**N/A**	**8.8**

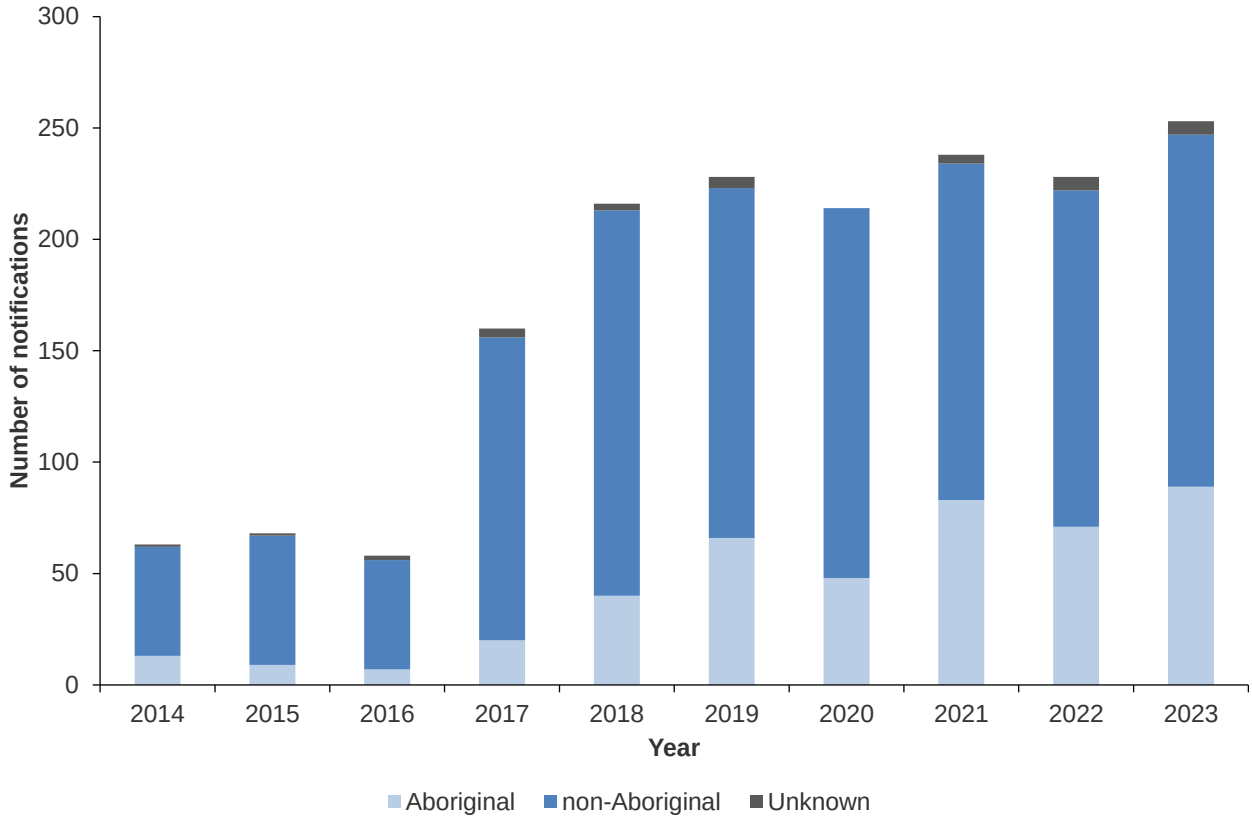
Notes: Number = Number of notifications reported to the DoH
Rate (Age group) = Age-specific rate
Rate (WA Total) = Age-standardised notification rate per 100,000 population
Non-infectious syphilis = More than two years or unknown duration
N/A = Not applicable
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Calculations by Aboriginality are based on notifications of known Aboriginal status only (i.e. notifications of unknown Aboriginal status are excluded)
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Figure 8 Number of infectious syphilis notifications by Aboriginality, WA, 2014 to 2023



Notes: Infectious syphilis = Primary syphilis + Secondary syphilis + Early latent syphilis (less than two years duration)
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Figure 9 Number of non-infectious syphilis notifications by Aboriginality, WA, 2014 to 2023



Notes: Non-infectious syphilis = More than two years or unknown duration
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 28 Number and ASR of syphilis notifications by region, disease status and Aboriginality, WA, 2023

Region	Disease stage	Aboriginality						Total		Rate ratio (Aboriginal: non-Aboriginal)
		Aboriginal		non-Aboriginal		Unknown				
		Number	ASR	Number	ASR	Number	%Total	Number	ASR	
Goldfields	Infectious	35	464.5	5	10.7	0	0.0%	40	73.9	43.3
	Non-infectious	15	206.5	4	7.7	0	0.0%	19	35.0	26.9
	Total syphilis	50	670.9	9	18.4	0	0.0%	59	108.9	36.4
Great Southern	Infectious	2	60.0	5	13.6	0	0.0%	7	16.4	4.4
	Non-infectious	2	72.4	4	7.3	0	0.0%	6	9.8	9.9
	Total syphilis	4	132.4	9	20.9	0	0.0%	13	26.2	6.3
Kimberley	Infectious	62	292.8	8	39.7	0	0.0%	70	175.0	7.4
	Non-infectious	4	18.1	2	11.5	0	0.0%	6	15.5	N/A
	Total syphilis	66	310.9	10	51.2	0	0.0%	76	190.5	6.1
Metropolitan	Infectious	88	140.2	325	15.3	6	1.4%	419	19.2	9.2
	Non-infectious	25	49.2	125	5.5	5	3.2%	155	6.6	8.9
	Total syphilis	113	189.4	450	20.8	11	1.9%	574	25.9	9.1
Midwest	Infectious	17	194.5	5	10.8	0	0.0%	22	40.0	18.0
	Non-infectious	17	216.5	5	9.0	0	0.0%	22	30.5	24.0
	Total syphilis	34	411.0	10	19.8	0	0.0%	44	70.5	20.7
Pilbara	Infectious	101	743.9	6	9.7	0	0.0%	107	183.5	77.0
	Non-infectious	16	187.2	3	38.5	1	5.0%	20	68.3	4.9
	Total syphilis	117	931.1	9	48.2	1	0.8%	127	251.8	19.3
South West	Infectious	3	37.1	14	10.0	0	0.0%	17	11.9	3.7
	Non-infectious	1	17.8	8	5.2	0	0.0%	9	5.6	3.4
	Total syphilis	4	54.9	22	15.2	0	0.0%	26	17.5	3.6
Wheatbelt	Infectious	6	169.3	2	3.9	0	0.0%	8	14.3	42.9
	Non-infectious	9	195.7	5	9.9	0	0.0%	14	22.1	19.9
	Total syphilis	15	365.0	7	13.8	0	0.0%	22	36.4	26.5
WA (Total)	**Infectious**	**315**	**237.5**	**372**	**14.6**	**6**	**0.9%**	**693**	**26.4**	**16.3**
	Non-infectious	**89**	**83.4**	**158**	**5.8**	**6**	**2.4%**	**253**	**8.8**	**14.4**
	Total syphilis	**404**	**320.9**	**530**	**20.4**	**12**	**1.3%**	**946**	**35.2**	**15.7**

Notes: Number = Number of notifications reported to the DoH
ASR = Age-standardised notification rate per 100,000 population
% (Total) = Number (Unknown) / Total number (Region and Disease status)
Rate ratio (Aboriginal:non-Aboriginal) = Aboriginal to non-Aboriginal rate ratio = ASR (Aboriginal) / ASR (non-Aboriginal)
Total syphilis = Infectious syphilis + Non-infectious syphilis
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Calculations by Aboriginality are based on notifications of known Aboriginal status only (i.e. notifications of unknown Aboriginal status are excluded)
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 29 Number and ASR of syphilis notifications by Aboriginality, disease status and sex, WA, 2023

Aboriginality	Disease stage	Sex				Total		Rate ratio (Male:Female)
		Male		Female				
		Number	ASR	Number	ASR	Number	ASR	
Aboriginal	Infectious	131	194.6	184	286.0	315	237.5	0.7
	Non-infectious	35	74.6	54	95.8	89	83.4	0.8
	Total syphilis	166	269.2	238	381.8	404	320.9	0.7
non-Aboriginal	Infectious	274	21.2	98	8.0	372	14.6	2.7
	Non-infectious	105	7.6	53	4.1	158	5.8	1.8
	Total syphilis	379	28.7	151	12.1	530	20.4	2.4
WA (Total)	Infectious	410	30.5	283	22.3	693	26.4	1.4
	Non-infectious	143	9.7	110	8.1	253	8.8	1.2
	Total syphilis	553	40.2	393	30.3	946	35.2	1.3
Rate ratio (Aboriginal:non-Aboriginal)	**Infectious**	**N/A**	**9.2**	**N/A**	**35.8**	**N/A**	**16.3**	**0.3**
	Non-infectious	**N/A**	**9.9**	**N/A**	**23.3**	**N/A**	**14.4**	**0.4**
	Total syphilis	**N/A**	**9.4**	**N/A**	**31.6**	**N/A**	**15.7**	**0.3**

Notes: Number = Number of notifications reported to the DoH
ASR = Age-standardised notification rate per 100,000 population
Rate ratio (Male:Female) = ASR (Male) / ASR (Female)
Rate ratio (Aboriginal:non-Aboriginal) = Aboriginal to non-Aboriginal rate ratio = ASR (Aboriginal) / ASR (non-Aboriginal)
Total syphilis = Infectious syphilis + Non-infectious syphilis
N/A = Not applicable
Calculations by Aboriginality are based on notifications of known Aboriginal status only (i.e. notifications of unknown Aboriginal status are excluded)
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 30 Number and proportion of syphilis notifications by where infection was acquired, disease status and sex, WA, 2023

Where infection acquired	Disease stage	Sex				WA (Total)	
		Male		Female			
		Number	% Total	Number	% Total	Number	% Total
WA	Infectious	298	54.2%	252	45.8%	550	79.4%
	Non-infectious	48	54.5%	40	45.5%	88	34.8%
	Total syphilis	346	54.2%	292	45.8%	638	67.4%
Interstate	Infectious	12	70.6%	5	29.4%	17	2.5%
	Non-infectious	3	42.9%	4	57.1%	7	2.8%
	Total syphilis	15	62.5%	9	37.5%	24	2.5%
Overseas	Infectious	27	84.4%	5	15.6%	32	4.6%
	Non-infectious	16	66.7%	8	33.3%	24	9.5%
	Total syphilis	43	76.8%	13	23.2%	56	5.9%
Unknown	Infectious	73	77.7%	21	22.3%	94	13.6%
	Non-infectious	76	56.7%	58	43.3%	134	53.0%
	Total syphilis	149	65.4%	79	34.6%	228	24.1%
Total	**Infectious**	**410**	**59.2%**	**283**	**40.8%**	**693**	**73.3%**
	Non-infectious	**143**	**56.5%**	**110**	**43.5%**	**253**	**26.7%**
	Total syphilis	**553**	**58.5%**	**393**	**41.5%**	**946**	**100.0%**

Notes: Number = Number of notifications reported to the DoH
% Total = Number of notifications (Where infection acquired and Disease status) / Total number of notifications (Sex) or overall
Total syphilis = Infectious syphilis + Non-infectious syphilis
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 31 Number and crude rate of infectious syphilis notifications by state and territory, Australia, 2023

Notifications	State/Territory								AUS (Total)
	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	
Number	32	2,080	227	1,384	323	68	1,716	693	6,523
Crude rate	7.0	25.0	90.0	25.0	17.0	12.0	25.0	24.0	24.0

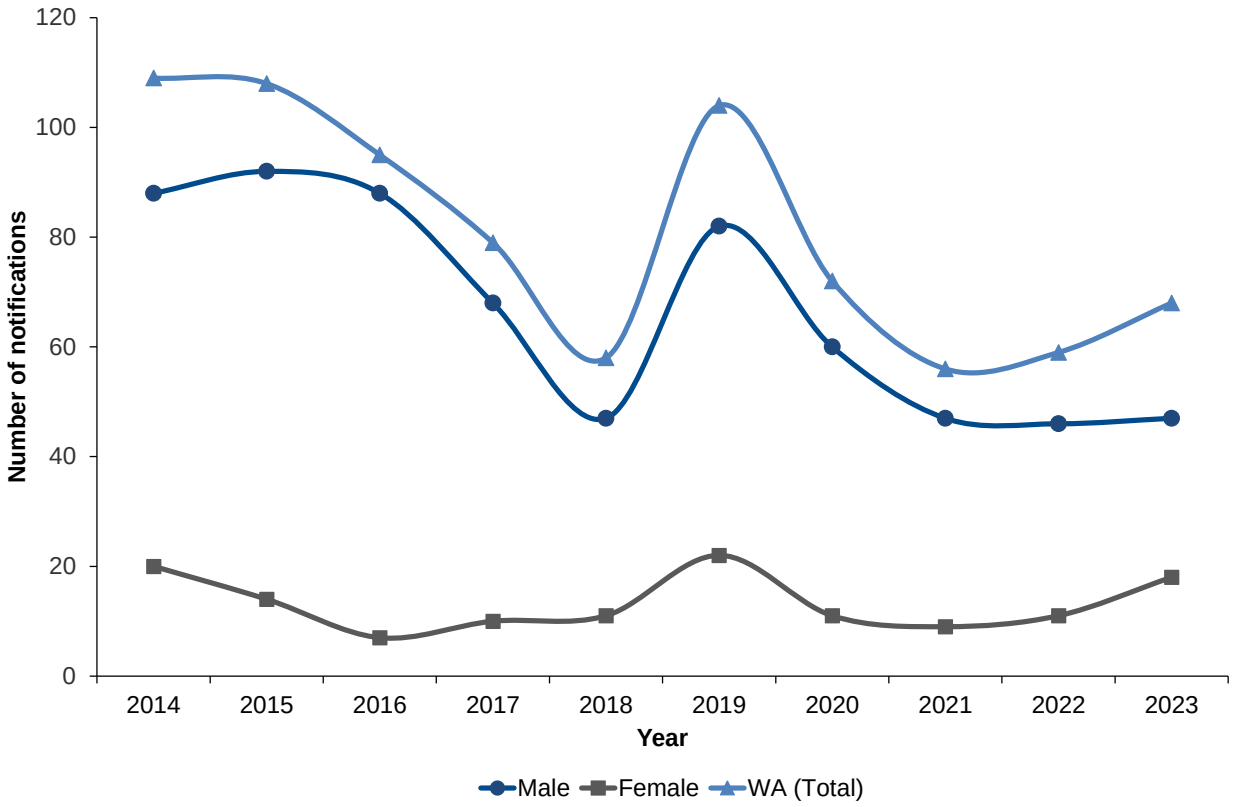
Notes: Number = Number of notifications reported to state and territory health authorities
Crude rate = Crude rate per 100,000 population
Data sourced from NNDSS 11 June 2024; data are provisional and subject to future revision. The follow-up and allocation of cases to infectious syphilis is highly dependent on public health follow-up, which is variable between jurisdictions. Trends between infectious and non-infectious syphilis cases within jurisdictions and over time therefore need to be interpreted cautiously.

Table 32 Number and crude rate of non-infectious syphilis notifications by state and territory, Australia, 2023

Notifications	State/Territory								AUS (Total)
	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	
Number	17	913	48	400	81	26	1,083	253	2,821
Crude rate	4.0	11.0	19.0	7.0	4.0	5.0	16.0	9.0	11.0

Notes: Number = Number of notifications reported to state and territory health authorities
Crude rate = Crude rate per 100,000 population
Data sourced from NNDSS 11 June 2024; data are provisional and subject to future revision. The follow-up and allocation of cases to infectious syphilis is highly dependent on public health follow-up, which is variable between jurisdictions. Trends between infectious and non-infectious syphilis cases within jurisdictions and over time therefore need to be interpreted cautiously.

Figure 10 Number of HIV notifications by sex, WA, 2014 to 2023



Notes: WA (Total) includes one notification in 2014, two notifications in 2015, one notification in 2017, one notification in 2020, two notifications in 2022 and three notifications in 2023 among transgender people

Table 33 Number and ASR of HIV notifications by sex, WA, 2023

Notifications	Sex			Ratio (Male:Female)
	Male	Female	Total	
Number	47	18	68	2.6
ASR	3.3	1.3	2.4	2.5

Notes: Number = Number of notifications reported to the DoH
ASR = Age-standardised notification rate per 100,000 population
Rate ratio (Male:Female) = ASR (Male) / ASR (Female)

Table 34 Number, crude rate and ASR of HIV notifications, WA, 2014 to 2023

Rate	Year									
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Number	109	108	95	79	58	104	72	56	59	68
Crude	4.3	4.3	3.7	3.1	2.2	3.9	2.7	2.0	2.1	2.4
ASR	4.2	4.3	3.7	3.0	2.2	3.9	2.7	2.1	2.1	2.4

Notes: Number = Number of notifications reported to the DoH
Crude = Crude notification rate per 100,000 population
ASR = Age-standardised notification rate per 100,000 population

Figure 11 Number of HIV notifications by Aboriginality, WA, 2014 to 2023

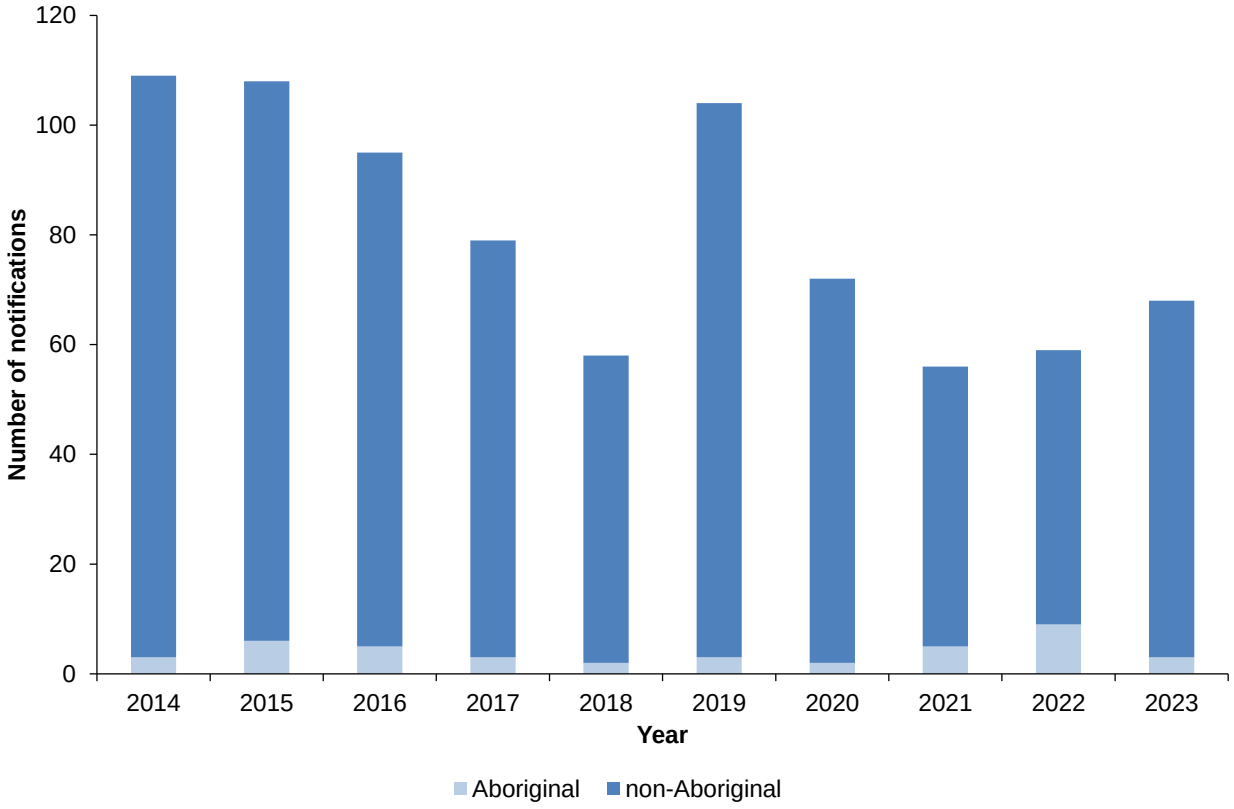
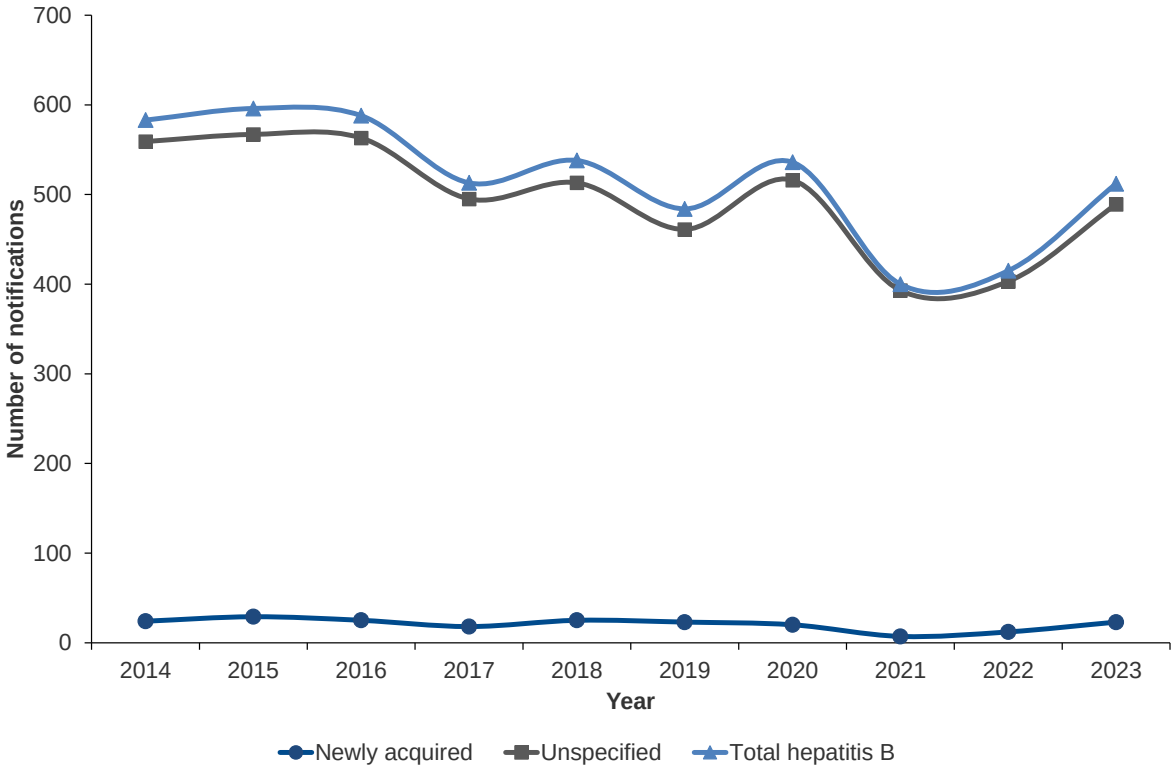


Table 35 Number of HIV notifications by Aboriginality, WA, 2019 to 2023

Year	Aboriginality						Total		Rate ratio (Aboriginal: Non-Aboriginal)
	Aboriginal			Non-Aboriginal					
	Number	Percent	ASR	Number	Percent	ASR	Number	ASR	
2019	3	2.9%	3.1	101	97.1%	3.9	104	4.0	0.8
2020	2	2.8%	2.5	70	97.2%	2.7	72	2.7	0.9
2021	5	8.9%	5.3	51	91.1%	1.9	56	2.1	2.7
2022	9	15.3%	9.0	50	84.7%	1.9	59	2.2	4.8
2023	3	4.4%	2.8	65	95.6%	2.4	68	2.5	1.2

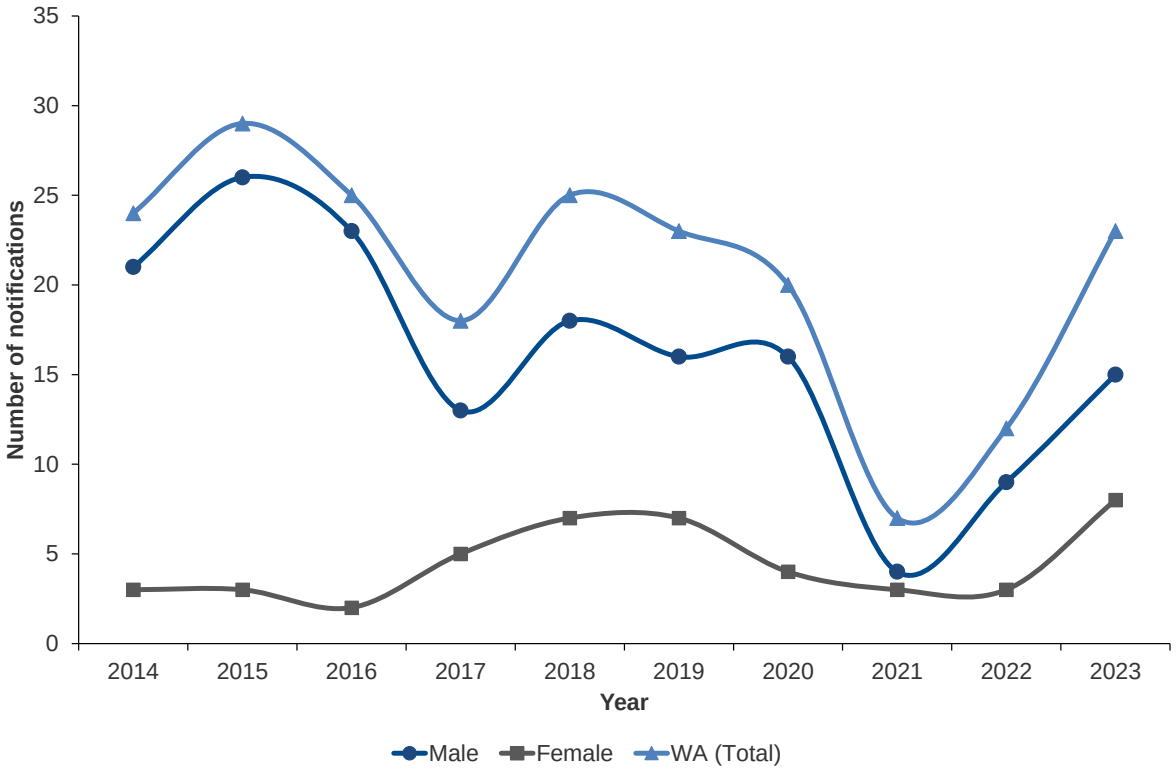
Notes: Number = Number of notifications reported to the DoH
ASR = Age-standardised notification rate per 100,000 population
Rate ratio (Aboriginal:non-Aboriginal) = ASR (Aboriginal) / ASR (non-Aboriginal)

Figure 12 Number of hepatitis B notifications by disease status, WA, 2014 to 2023



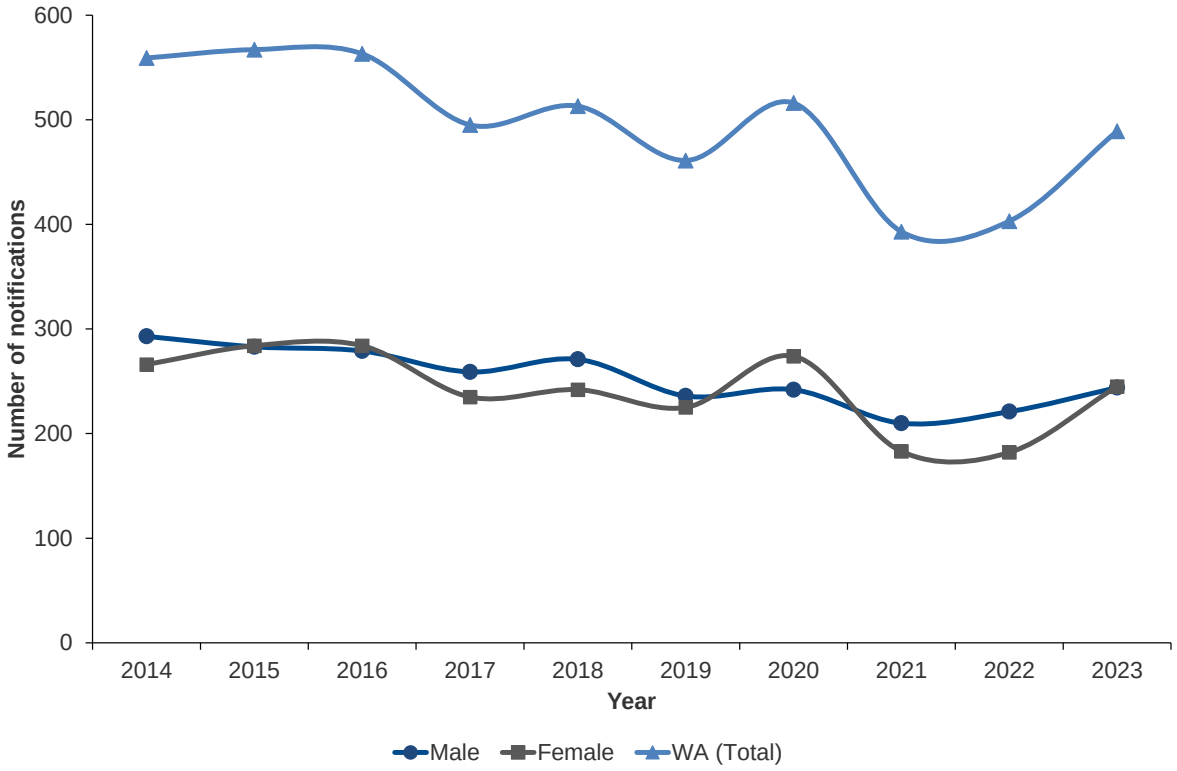
Notes: Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Figure 13 Number of newly acquired hepatitis B notifications by sex, WA, 2014 to 2023



Notes: Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Figure 14 Number of unspecified hepatitis B notifications by sex, WA, 2014 to 2023



Notes: WA (Total) includes one notification in 2017 in a transgender person
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 36 Number, crude rate and ASR of hepatitis B notifications by region and sex, WA, 2023

Region	Disease stage	Sex						Rate ratio (Male:Female)
		Male		Female		Total		
		Number	ASR	Number	ASR	Number	ASR	
Goldfields	Newly acquired	1	3.3	1	3.7	2	3.5	0.9
	Unspecified	4	13.2	4	17.5	8	15.2	0.8
	Total hepatitis B	5	16.5	5	21.2	10	18.7	0.8
Great Southern	Newly acquired	0	0.0	0	0.0	0	0.0	N/A
	Unspecified	3	13.6	4	13.0	7	13.5	1.0
	Total hepatitis B	3	13.6	4	13.0	7	13.5	1.0
Kimberley	Newly acquired	0	0.0	1	4.1	1	2.3	0.0
	Unspecified	6	31.9	6	25.9	12	29.4	1.2
	Total hepatitis B	6	31.9	7	30.0	13	31.7	1.1
Metropolitan	Newly acquired	11	1.0	5	0.4	16	0.7	2.2
	Unspecified	206	18.0	217	18.8	423	18.4	1.0
	Total hepatitis B	217	19.0	222	19.3	439	19.1	1.0
Midwest	Newly acquired	0	0.0	0	0.0	0	0.0	N/A
	Unspecified	7	21.2	4	12.0	11	16.7	1.8
	Total hepatitis B	7	21.2	4	12.0	11	16.7	1.8
Pilbara	Newly acquired	0	0.0	1	5.1	1	2.3	0.0
	Unspecified	7	19.1	5	27.5	12	23.7	0.7
	Total hepatitis B	7	19.1	6	32.6	13	26.1	0.6
South West	Newly acquired	3	2.4	0	0.0	3	1.2	N/A
	Unspecified	3	3.6	2	1.3	5	2.4	2.7
	Total hepatitis B	6	6.0	2	1.3	8	3.6	4.5
Wheatbelt	Newly acquired	0	0.0	0	0.0	0	0.0	N/A
	Unspecified	3	11.1	1	3.6	4	7.3	3.1
	Total hepatitis B	3	11.1	1	3.6	4	7.3	3.1
WA (Total)	**Newly acquired**	**15**	**1.0**	**8**	**0.6**	**23**	**0.8**	**1.7**
	Unspecified	**244**	**17.2**	**245**	**17.2**	**489**	**17.2**	**1.0**
	Total hepatitis B	**259**	**18.2**	**253**	**17.8**	**512**	**18.0**	**1.0**

Notes: Number = Number of notifications reported to the DoH
ASR = Age-standardised notification rate per 100,000 population
Rate ratio (Male:Female) = ASR (Male) / ASR (Female)
Total hepatitis B = Newly acquired hepatitis B + Unspecified hepatitis B
N/A = Not applicable
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 37 Number, crude rate and ASR of newly acquired hepatitis B notifications by region, WA, 2014 to 2023

Region	Rate	Year									
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Goldfields	Number	0	1	0	0	1	2	1	0	0	2
	Crude	0.0	1.7	0.0	0.0	1.8	3.6	1.8	0.0	0.0	3.5
	ASR	0.0	1.6	0.0	0.0	1.7	3.6	1.7	0.0	0.0	3.5
Great Southern	Number	0	0	0	0	0	2	0	0	1	0
	Crude	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	1.6	0.0
	ASR	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.9	0.0
Kimberley	Number	1	0	0	0	1	0	0	0	0	1
	Crude	2.7	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	2.5
	ASR	2.5	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	2.3
Metropolitan	Number	22	24	22	13	20	16	11	7	6	16
	Crude	1.1	1.2	1.1	0.6	1.0	0.8	0.5	0.3	0.3	0.7
	ASR	1.1	1.2	1.1	0.6	1.0	0.7	0.5	0.3	0.3	0.7
Midwest	Number	0	0	0	0	0	0	2	0	0	0
	Crude	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0
	ASR	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0
Pilbara	Number	0	1	0	0	1	1	1	0	1	1
	Crude	0.0	1.6	0.0	0.0	1.7	1.7	1.7	0.0	1.7	1.7
	ASR	0.0	1.6	0.0	0.0	1.9	2.6	2.5	0.0	1.2	2.3
South West	Number	1	3	2	5	2	2	3	0	4	3
	Crude	0.6	1.7	1.1	2.8	1.1	1.1	1.6	0.0	2.1	1.5
	ASR	0.6	1.9	1.2	2.8	1.0	0.8	1.7	0.0	2.0	1.2
Wheatbelt	Number	0	0	1	0	0	0	1	0	0	0
	Crude	0.0	0.0	1.3	0.0	0.0	0.0	1.3	0.0	0.0	0.0
	ASR	0.0	0.0	1.7	0.0	0.0	0.0	1.7	0.0	0.0	0.0
WA (Total)	**Number**	**24**	**29**	**25**	**18**	**25**	**23**	**20**	**7**	**12**	**23**
	Crude	**1.0**	**1.1**	**1.0**	**0.7**	**1.0**	**0.9**	**0.7**	**0.3**	**0.4**	**0.8**
	ASR	**0.9**	**1.2**	**1.0**	**0.7**	**1.0**	**0.8**	**0.7**	**0.3**	**0.4**	**0.8**

Notes: Number = Number of notifications reported to the DoH
Crude = Crude notification rate per 100,000 population
ASR = Age-standardised notification rate per 100,000 population
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 38 Number, crude rate and ASR of unspecified hepatitis B notifications by region, WA, 2014 to 2023

Region	Rate	Year									
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Goldfields	Number	13	14	15	12	15	14	11	4	7	8
	Crude	21.7	23.9	26.5	21.2	26.7	24.9	19.5	7.0	12.3	14.0
	ASR	20.5	23.0	27.3	24.0	26.7	27.6	18.9	7.3	11.4	15.2
Great Southern	Number	6	3	5	4	4	7	1	6	4	7
	Crude	10.0	5.0	8.3	6.6	6.5	11.2	1.6	9.4	6.2	10.7
	ASR	12.8	6.0	9.0	8.5	7.5	12.1	1.1	12.0	7.8	13.5
Kimberley	Number	7	9	8	15	21	6	20	11	11	12
	Crude	18.6	24.3	22.0	40.9	56.7	16.0	52.4	28.4	28.3	30.4
	ASR	20.8	22.7	23.4	51.5	58.7	15.8	52.2	29.6	32.2	29.4
Metropolitan	Number	485	490	494	424	428	398	437	318	337	423
	Crude	24.5	24.5	24.4	20.7	20.6	18.8	20.2	14.5	15.1	18.6
	ASR	24.3	24.0	24.4	20.5	20.3	18.5	19.8	14.1	15.0	18.4
Midwest	Number	8	10	4	12	7	4	10	12	12	11
	Crude	12.0	15.2	6.2	18.4	10.7	6.1	15.1	17.8	17.7	16.1
	ASR	13.5	14.9	5.7	18.3	11.5	6.3	16.8	20.7	19.7	16.7
Pilbara	Number	15	19	11	13	15	15	17	19	13	12
	Crude	23.3	30.1	17.9	21.5	25.2	25.4	28.9	32.6	22.1	20.5
	ASR	16.5	28.0	37.3	26.7	19.9	31.9	34.2	36.0	22.3	23.7
South West	Number	12	16	16	5	19	13	8	15	11	5
	Crude	7.0	9.2	9.1	2.8	10.5	7.1	4.3	7.9	5.7	2.5
	ASR	7.9	10.0	9.8	3.0	10.6	6.5	4.7	8.2	6.3	2.4
Wheatbelt	Number	12	3	7	7	3	2	11	5	4	4
	Crude	15.3	3.8	9.1	9.1	3.9	2.6	14.3	6.4	5.1	5.1
	ASR	16.1	4.8	10.5	11.0	4.8	2.0	15.7	8.3	6.2	7.3
WA (Total)	**Number**	**559**	**567**	**563**	**495**	**513**	**461**	**516**	**393**	**403**	**489**
	Crude	**22.2**	**22.3**	**22.0**	**19.1**	**19.6**	**17.3**	**19.0**	**14.3**	**14.4**	**17.3**
	ASR	**22.1**	**22.1**	**22.1**	**19.1**	**19.5**	**17.1**	**18.8**	**14.0**	**14.4**	**17.2**

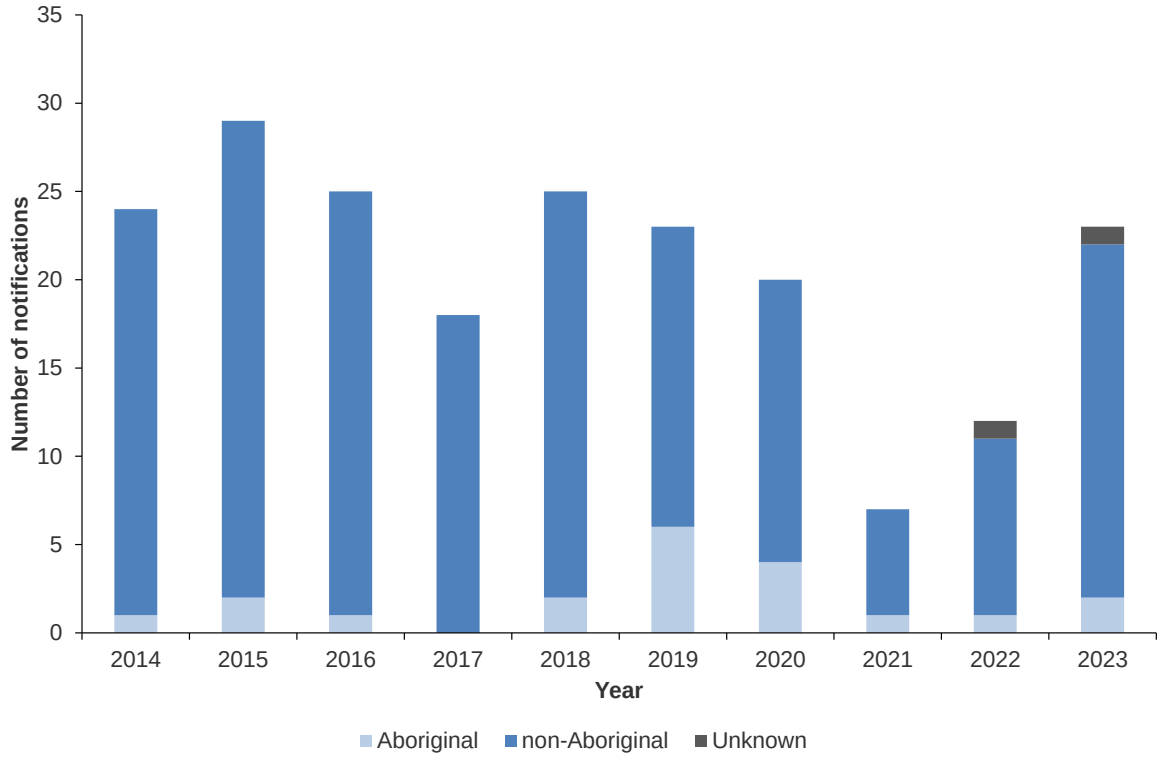
Notes: Number = Number of notifications reported to the DoH
Crude = Crude notification rate per 100,000 population
ASR = Age-standardised notification rate per 100,000 population
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 39 Number, crude rate and ASR of total hepatitis B notifications by region, WA, 2014 to 2023

Region	Rate	Year									
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Goldfields	Number	13	15	15	12	16	16	12	4	7	10
	Crude	21.7	25.6	26.5	21.2	28.4	28.5	21.3	7.0	12.3	17.5
	ASR	20.5	24.6	27.3	24.0	28.4	31.2	20.6	7.3	11.4	18.7
Great Southern	Number	6	3	5	4	4	9	1	6	5	7
	Crude	10.0	5.0	8.3	6.6	6.5	14.4	1.6	9.4	7.8	10.7
	ASR	12.8	6.0	9.0	8.5	7.5	15.6	1.1	12.0	8.7	13.5
Kimberley	Number	8	9	8	15	22	6	20	11	11	13
	Crude	21.2	24.3	22.0	40.9	59.4	16.0	52.4	28.4	28.3	32.9
	ASR	23.3	22.7	23.4	51.5	61.3	15.8	52.2	29.6	32.2	31.7
Metropolitan	Number	507	514	516	437	448	414	448	325	343	439
	Crude	25.6	25.7	25.5	21.3	21.5	19.5	20.7	14.8	15.4	19.3
	ASR	25.4	25.2	25.4	21.1	21.2	19.2	20.3	14.5	15.2	19.1
Midwest	Number	8	10	4	12	7	4	12	12	12	11
	Crude	12.0	15.2	6.2	18.4	10.7	6.1	18.1	17.8	17.7	16.1
	ASR	13.5	14.9	5.7	18.3	11.5	6.3	20.1	20.7	19.7	16.7
Pilbara	Number	15	20	11	13	16	16	18	19	14	13
	Crude	23.3	31.7	17.9	21.5	26.8	27.1	30.6	32.6	23.8	22.3
	ASR	16.5	29.6	37.3	26.7	21.8	34.4	36.7	36.0	23.4	26.1
South West	Number	13	19	18	10	21	15	11	15	15	8
	Crude	7.5	10.9	10.3	5.6	11.6	8.2	5.9	7.9	7.7	4.1
	ASR	8.6	11.9	11.0	5.8	11.5	7.2	6.4	8.2	8.3	3.6
Wheatbelt	Number	12	3	8	7	3	2	12	5	4	4
	Crude	15.3	3.8	10.4	9.1	3.9	2.6	15.6	6.4	5.1	5.1
	ASR	16.1	4.8	12.2	11.0	4.8	2.0	17.5	8.3	6.2	7.3
WA (Total)	**Number**	**583**	**596**	**588**	**513**	**538**	**484**	**536**	**400**	**415**	**512**
	Crude	**23.2**	**23.5**	**23.0**	**19.8**	**20.6**	**18.2**	**19.8**	**14.5**	**14.9**	**18.1**
	ASR	**23.1**	**23.2**	**23.1**	**19.8**	**20.4**	**17.9**	**19.5**	**14.3**	**14.8**	**18.0**

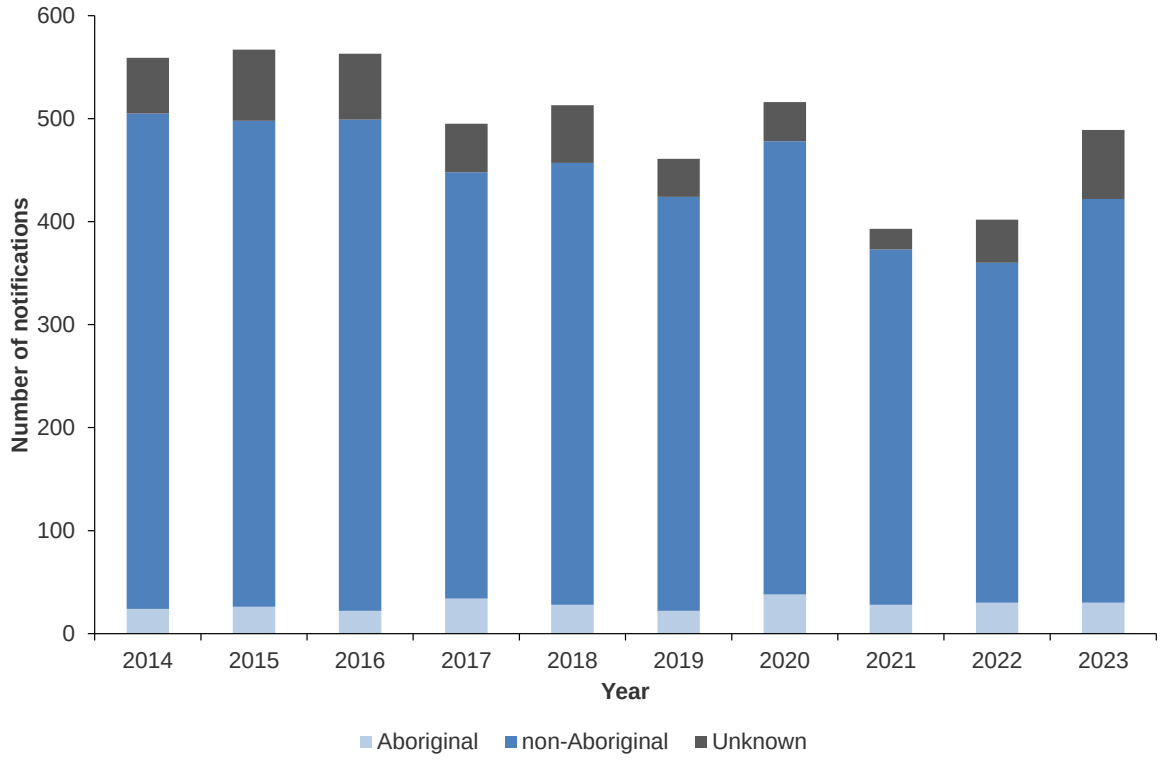
Notes: Total hepatitis B = Newly acquired hepatitis B + Unspecified hepatitis B
Number = Number of notifications reported to the DoH
Crude = Crude notification rate per 100,000 population
ASR = Age-standardised notification rate per 100,000 population
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Figure 15 Number of newly acquired hepatitis B notifications by Aboriginality, WA, 2014 to 2023



Notes: Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Figure 16 Number of unspecified hepatitis B notifications by Aboriginality, WA, 2014 to 2023



Notes: Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 40 Number and ASR of hepatitis B notifications by region, disease status and Aboriginality, WA, 2023

Region	Disease stage	Aboriginality						Total		Rate ratio (Aboriginal: non-Aboriginal)
		Aboriginal		non-Aboriginal		Unknown				
		Number	ASR	Number	ASR	Number	% Total	Number	ASR	
Goldfields	Newly acquired	0	0.0	2	3.9	0	0.0%	2	3.5	0.0
	Unspecified	1	10.9	7	15.0	0	0.0%	8	15.2	0.7
	Total hepatitis B	1	10.9	9	18.9	0	0.0%	10	18.7	0.6
Great Southern	Newly acquired	0	0.0	0	0.0	0	N/A	0	0.0	N/A
	Unspecified	0	0.0	7	14.6	0	0.0%	7	13.5	0.0
	Total hepatitis B	0	0.0	7	14.6	0	0.0%	7	13.5	0.0
Kimberley	Newly acquired	0	0.0	1	4.2	0	0.0%	1	2.3	0.0
	Unspecified	10	55.2	2	7.4	0	0.0%	12	29.4	7.5
	Total hepatitis B	10	55.2	3	11.5	0	0.0%	13	31.7	4.8
Metropolitan	Newly acquired	1	1.9	14	0.6	1	6.3%	16	0.7	2.9
	Unspecified	9	17.3	350	15.6	64	15.1%	423	18.4	1.1
	Total hepatitis B	10	19.1	364	16.2	65	14.8%	439	19.1	1.2
Midwest	Newly acquired	0	0.0	0	0.0	0	N/A	0	0.0	N/A
	Unspecified	6	82.4	4	7.7	1	9.1%	11	16.7	10.8
	Total hepatitis B	6	82.4	4	7.7	1	9.1%	11	16.7	10.8
Pilbara	Newly acquired	1	6.5	0	0.0	0	0.0%	1	2.3	N/A
	Unspecified	4	52.7	7	12.8	1	8.3%	12	23.7	4.1
	Total hepatitis B	5	59.2	7	12.8	1	7.7%	13	26.1	4.6
South West	Newly acquired	0	0.0	3	1.2	0	0.0%	3	1.2	0.0
	Unspecified	0	0.0	5	2.5	0	0.0%	5	2.4	0.0
	Total hepatitis B	0	0.0	8	3.7	0	0.0%	8	3.6	0.0
Wheatbelt	Newly acquired	0	0.0	0	0.0	0	N/A	0	0.0	N/A
	Unspecified	0	0.0	4	7.8	0	0.0%	4	7.3	0.0
	Total hepatitis B	0	0.0	4	7.8	0	0.0%	4	7.3	0.0
WA (Total)	**Newly acquired**	**2**	**1.5**	**20**	**0.7**	**1**	4.3%	**23**	**0.8**	**2.0**
	Unspecified	**30**	**29.1**	**392**	**14.3**	**67**	**13.7%**	**489**	**17.2**	**2.0**
	Total hepatitis B	**32**	**30.5**	**412**	**15.1**	**68**	**13.3%**	**512**	**18.0**	**2.0**

Notes: Number = Number of notifications reported to the DoH
ASR = Age-standardised notification rate per 100,000 population
% (Total) = Number (Unknown) / Total number (Region and Disease status)
Rate ratio (Aboriginal:non-Aboriginal) = Aboriginal to non-Aboriginal rate ratio = ASR (Aboriginal) / ASR (non-Aboriginal)
Total hepatitis B = Newly acquired hepatitis B + Unspecified hepatitis B
N/A = Not applicable
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Calculations by Aboriginality are based on notifications of known Aboriginal status only (i.e. notifications of unknown Aboriginal status are excluded)
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 41 Number and ASR of hepatitis B notifications by Aboriginality, disease status and sex, WA, 2023

Aboriginality	Disease stage	Sex				Total		Rate ratio (Male:Female)
		Male		Female				
		Number	ASR	Number	ASR	Number	ASR	
Aboriginal	Newly acquired	0	0.0	2	3.6	2	1.8	0.0
	Unspecified	21	47.1	9	21.2	30	33.8	2.2
	Total hepatitis B	21	47.1	11	24.8	32	35.7	1.9
non-Aboriginal	Newly acquired	14	1.0	6	0.5	20	0.8	2.1
	Unspecified	189	14.9	203	15.6	392	15.3	1.0
	Total hepatitis B	203	16.0	209	16.1	412	16.0	1.0
WA (Total)	Newly acquired	15	1.0	8	0.6	23	0.8	1.7
	Unspecified	244	17.2	245	17.2	489	17.2	1.0
	Total hepatitis B	259	18.2	253	17.8	512	18.0	1.0
Rate ratio (Aboriginal:non-Aboriginal)	**Newly acquired**	**N/A**	**0.0**	**N/A**	**7.1**	**N/A**	**2.4**	**0.0**
	Unspecified	**N/A**	**3.2**	**N/A**	**1.4**	**N/A**	**2.2**	**2.3**
	Total hepatitis B	**N/A**	**2.9**	**N/A**	**1.5**	**N/A**	**2.2**	**1.9**

Notes: Number = Number of notifications reported to the DoH
ASR = Age-standardised notification rate per 100,000 population
Rate ratio (Male:Female) = ASR (Male) / ASR (Female)
Total hepatitis B = Newly acquired hepatitis B + Unspecified hepatitis B
N/A = Not applicable
Calculations by Aboriginality are based on notifications of known Aboriginal status only (i.e. notifications of unknown Aboriginal status are excluded)
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 42 Number and proportion of hepatitis B notifications by where infection was acquired, disease status and sex, WA, 2023

Where infection acquired	Disease stage	Sex				WA (Total)	
		Male		Female			
		Number	%Total	Number	%Total	Number	%Total
WA	Newly acquired	5	62.5%	3	37.5%	8	34.8%
	Unspecified	16	69.6%	7	30.4%	23	4.7%
	Total hepatitis B	21	67.7%	10	32.3%	31	6.1%
Interstate	Newly acquired	0	N/A	0	N/A	0	0.0%
	Unspecified	3	75.0%	1	25.0%	4	0.8%
	Total hepatitis B	3	75.0%	1	25.0%	4	0.8%
Overseas	Newly acquired	2	66.7%	1	33.3%	3	13.0%
	Unspecified	58	43.9%	74	56.1%	132	27.0%
	Total hepatitis B	60	44.4%	75	55.6%	135	26.4%
Unknown	Newly acquired	8	66.7%	4	33.3%	12	52.2%
	Unspecified	167	50.6%	163	49.4%	330	67.5%
	Total hepatitis B	175	51.2%	167	48.8%	342	66.8%
Total	**Newly acquired**	**15**	**65.2%**	**8**	**34.8%**	**23**	**100.0%**
	Unspecified	**244**	**49.9%**	**245**	**50.1%**	**489**	**100.0%**
	Total hepatitis B	**259**	**50.6%**	**253**	**49.4%**	**512**	**100.0%**

Notes: Number = Number of notifications reported to the DoH
% Total = Number of notifications (Where infection acquired and Disease status) / Total number of notifications (Sex) or overall
Total hepatitis B = Newly acquired hepatitis B + Unspecified hepatitis B
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 43 Number and crude rate of newly acquired hepatitis B notifications by state and territory, Australia, 2023

Notifications	State/Territory								AUS (Total)
	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	
Number	0	12	4	28	2	2	16	23	87
Crude rate	0.0	0.1	2.0	0.5	0.1	0.4	0.2	0.8	0.3

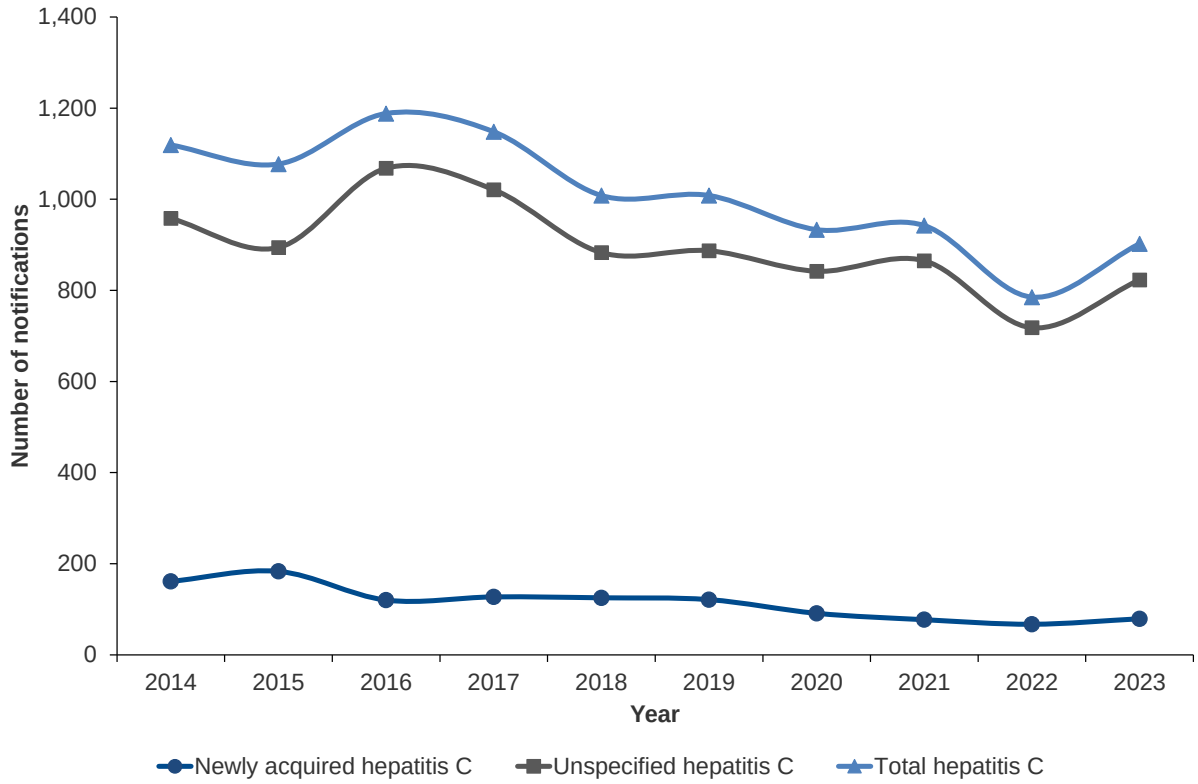
Notes: Number = Number of notifications reported to state and territory health authorities
Crude rate = Crude rate per 100,000 population
Data sourced from NNDSS 11 June 2024; data are provisional and subject to future revision. The follow-up and allocation of cases to newly acquired hepatitis B is highly dependent on public health follow-up which is variable between jurisdictions. Trends between newly acquired and unspecified hepatitis B cases within jurisdictions and over time therefore need to be interpreted cautiously.

Table 44 Number and crude rate of unspecified hepatitis B notifications by state and territory, Australia, 2023

Notifications	State/Territory								AUS (Total)
	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	
Number	84	1,951	90	994	237	50	1,404	496	5,306
Crude rate	18.0	23.0	36.0	18.0	13.0	9.0	21.0	17.0	20.0

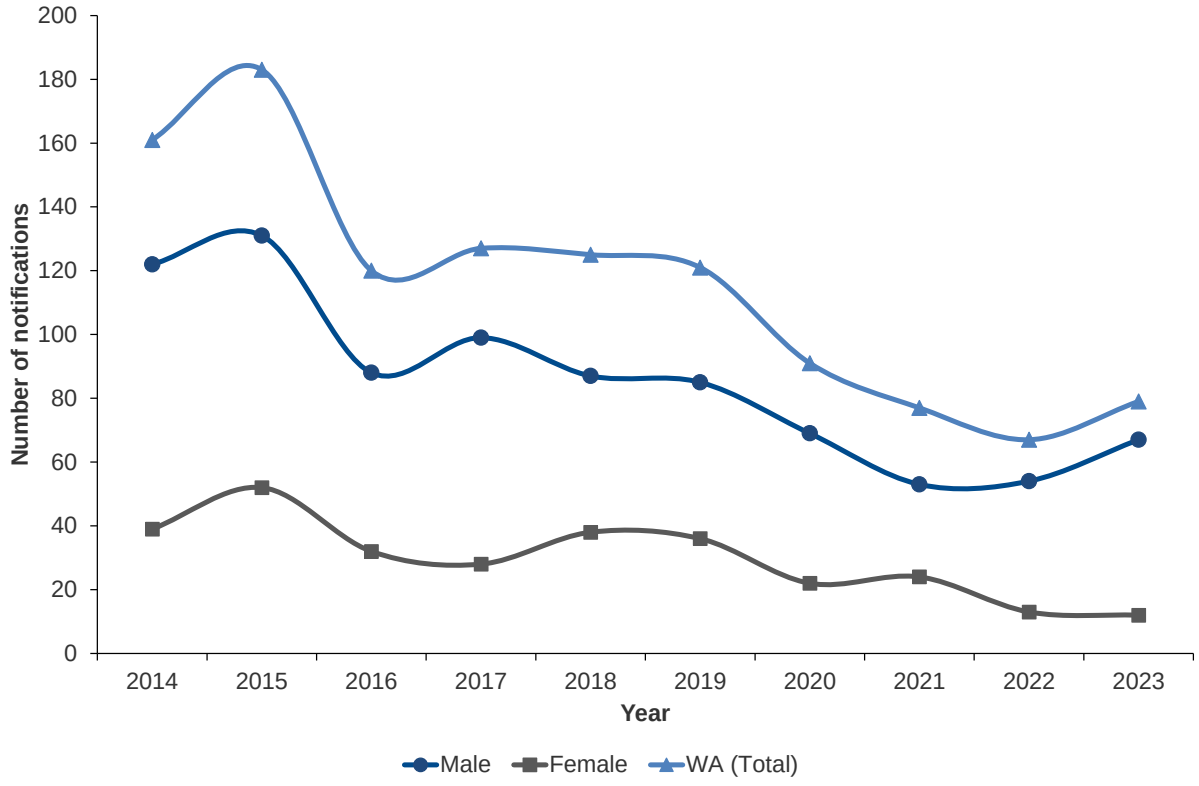
Notes: Number = Number of notifications reported to state and territory health authorities
Crude rate = Crude rate per 100,000 population
Data sourced from NNDSS 11 June 2024; data are provisional and subject to future revision. The follow-up and allocation of cases to newly acquired hepatitis B is highly dependent on public health follow-up which is variable between jurisdictions. Trends between newly acquired and unspecified hepatitis B cases within jurisdictions and over time therefore need to be interpreted cautiously.

Figure 17 Number of hepatitis C notifications by disease status, WA, 2014 to 2023



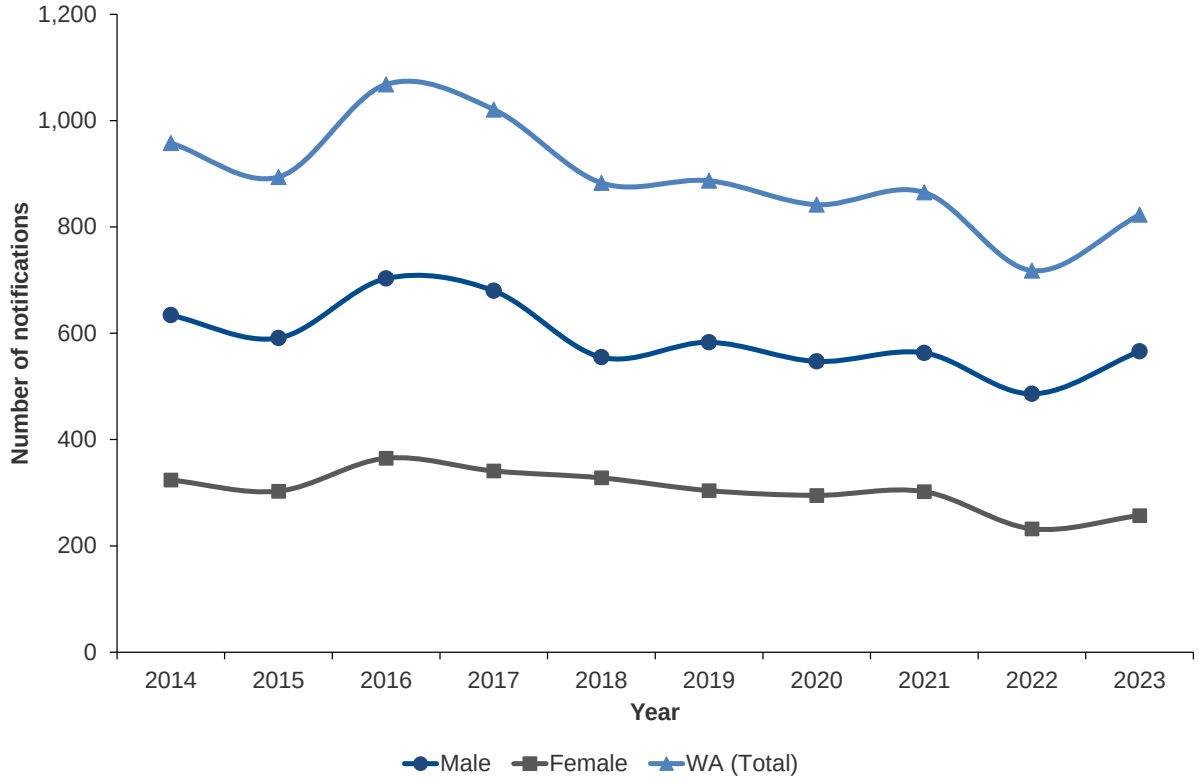
Notes: Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Figure 18 Number of newly acquired hepatitis C notifications by sex, WA, 2014 to 2023



Notes: Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Figure 19 Number of unspecified hepatitis C notifications by sex, WA, 2014 to 2023



Notes: Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 45 Number and ASR of hepatitis C notifications by region and sex, WA, 2023

Region	Disease stage	Sex						Rate ratio (Male:Female)
		Male		Female		Total		
		Number	ASR	Number	ASR	Number	ASR	
Goldfields	Newly acquired	2	7.6	0	0.0	2	4.1	N/A
	Unspecified	11	37.1	9	35.4	20	36.1	1.0
	Total hepatitis C	13	44.7	9	35.4	22	40.2	1.3
Great Southern	Newly acquired	7	29.6	0	0.0	7	15.2	N/A
	Unspecified	37	146.4	5	17.8	42	83.9	8.2
	Total hepatitis C	44	176.0	5	17.8	49	99.1	9.9
Kimberley	Newly acquired	1	4.3	0	0.0	1	2.1	N/A
	Unspecified	16	78.3	8	40.5	24	57.7	1.9
	Total hepatitis C	17	82.6	8	40.5	25	59.8	2.0
Metropolitan	Newly acquired	51	4.7	9	0.8	60	2.8	5.9
	Unspecified	424	38.2	189	16.7	613	27.5	2.3
	Total hepatitis C	475	42.9	198	17.5	673	30.3	2.4
Midwest	Newly acquired	2	7.2	2	7.7	4	7.3	0.9
	Unspecified	20	56.5	10	34.0	30	45.8	1.7
	Total hepatitis C	22	63.7	12	41.7	34	53.1	1.5
Pilbara	Newly acquired	0	0.0	0	0.0	0	0.0	N/A
	Unspecified	14	38.7	8	26.5	22	33.9	1.5
	Total hepatitis C	14	38.7	8	26.5	22	33.9	1.5
South West	Newly acquired	3	3.7	1	1.6	4	2.6	2.3
	Unspecified	26	32.6	19	17.9	45	25.7	1.8
	Total hepatitis C	29	36.3	20	19.5	49	28.3	1.9
Wheatbelt	Newly acquired	1	2.3	0	0.0	1	1.2	N/A
	Unspecified	13	35.0	7	24.2	20	30.1	1.4
	Total hepatitis C	14	37.3	7	24.2	21	31.3	1.5
WA (Total)	**Newly acquired**	**67**	**5.1**	**12**	**0.9**	**79**	**3.0**	**5.6**
	Unspecified	**566**	**41.1**	**257**	**18.4**	**823**	**29.9**	**2.2**
	Total hepatitis C	**633**	**46.2**	**269**	**19.3**	**902**	**32.9**	**2.4**

Notes: Number = Number of notifications reported to the DoH
ASR = Age-standardised notification rate per 100,000 population
Rate ratio (Male:Female) = ASR (Male) / ASR (Female)
Total hepatitis C = Newly acquired hepatitis C + Unspecified hepatitis C
N/A = Not applicable
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 46 Number, crude rate and ASR of newly acquired hepatitis C notifications by region, WA, 2014 to 2023

Region	Rate	Year									
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Goldfields	Number	1	8	5	1	6	7	2	0	2	2
	Crude	1.7	13.7	8.8	1.8	10.7	12.5	3.6	0.0	3.5	3.5
	ASR	1.7	13.1	8.9	1.9	10.4	12.5	3.8	0.0	4.1	4.1
Great Southern	Number	16	14	6	12	9	9	2	0	6	7
	Crude	26.6	23.2	10.0	19.7	14.6	14.4	3.2	0.0	9.3	10.7
	ASR	34.5	31.3	13.1	27.3	20.3	20.5	4.6	0.0	12.9	15.2
Kimberley	Number	1	1	0	2	1	2	0	0	0	1
	Crude	2.7	2.7	0.0	5.5	2.7	5.3	0.0	0.0	0.0	2.5
	ASR	2.7	2.0	0.0	5.5	2.2	4.8	0.0	0.0	0.0	2.1
Metropolitan	Number	124	144	94	94	97	89	73	73	51	60
	Crude	6.3	7.2	4.6	4.6	4.7	4.2	3.4	3.3	2.3	2.6
	ASR	6.0	6.8	4.5	4.5	4.7	4.3	3.5	3.4	2.4	2.8
Midwest	Number	7	5	6	9	6	5	2	2	2	4
	Crude	10.5	7.6	9.2	13.8	9.2	7.6	3.0	3.0	3.0	5.8
	ASR	12.2	8.8	11.0	16.1	10.8	9.5	3.7	2.7	3.4	7.3
Pilbara	Number	0	0	4	2	3	4	3	1	1	0
	Crude	0.0	0.0	6.5	3.3	5.0	6.8	5.1	1.7	1.7	0.0
	ASR	0.0	0.0	4.4	2.7	4.9	5.0	4.0	1.9	1.6	0.0
South West	Number	9	7	3	0	2	5	7	0	5	4
	Crude	5.2	4.0	1.7	0.0	1.1	2.7	3.7	0.0	2.6	2.0
	ASR	6.3	5.0	2.2	0.0	1.6	3.9	4.7	0.0	3.2	2.6
Wheatbelt	Number	3	4	2	7	1	0	2	1	0	1
	Crude	3.8	5.1	2.6	9.1	1.3	0.0	2.6	1.3	0.0	1.3
	ASR	4.7	6.3	1.9	11.9	1.8	0.0	3.3	1.2	0.0	1.2
WA (Total)	**Number**	**161**	**183**	**120**	**127**	**125**	**121**	**91**	**77**	**67**	**79**
	Crude	**6.4**	**7.2**	**4.7**	**4.9**	**4.8**	**4.5**	**3.4**	**2.8**	**2.4**	**2.8**
	ASR	**6.2**	**7.0**	**4.7**	**4.9**	**4.9**	**4.7**	**3.6**	**2.9**	**2.6**	**3.0**

Notes: Number = Number of notifications reported to the DoH
Crude = Crude notification rate per 100,000 population
ASR = Age-standardised notification rate per 100,000 population
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 47 Number, crude rate and ASR of unspecified hepatitis C notifications by region, WA, 2014 to 2023

Region	Rate	Year									
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Goldfields	Number	24	26	30	23	29	43	26	18	12	20
	Crude	40.1	44.4	53.0	40.7	51.5	76.6	46.2	31.7	21.1	35.0
	ASR	38.7	43.0	51.7	39.7	50.7	73.5	44.7	31.0	21.4	36.1
Great Southern	Number	32	26	42	36	29	34	29	34	32	42
	Crude	53.3	43.1	69.7	59.0	47.0	54.5	45.9	53.2	49.7	64.5
	ASR	62.8	46.7	82.2	72.6	51.0	69.3	59.9	66.3	58.9	83.9
Kimberley	Number	19	19	15	25	11	17	17	28	21	24
	Crude	50.4	51.3	41.2	68.2	29.7	45.3	44.5	72.3	53.9	60.8
	ASR	50.0	60.1	42.6	63.7	30.0	46.2	42.6	72.0	52.9	57.7
Metropolitan	Number	737	662	799	770	668	609	627	658	528	613
	Crude	37.3	33.0	39.5	37.6	32.1	28.7	28.9	30.0	23.7	27.0
	ASR	36.6	32.7	39.3	37.4	31.9	28.6	29.1	30.2	23.9	27.5
Midwest	Number	31	41	45	43	40	50	32	38	33	30
	Crude	46.5	62.1	69.3	66.1	61.3	76.3	48.3	56.5	48.7	43.8
	ASR	48.3	65.9	70.4	69.5	67.8	83.8	51.3	57.1	53.4	45.8
Pilbara	Number	18	24	23	13	18	15	20	19	25	22
	Crude	28.0	38.1	37.4	21.5	30.2	25.4	34.0	32.6	42.4	37.7
	ASR	24.9	32.4	33.0	19.5	26.0	24.0	34.1	28.9	40.6	33.9
South West	Number	70	66	73	67	61	81	68	47	48	45
	Crude	40.6	37.8	41.6	37.6	33.7	44.1	36.3	24.7	24.8	22.8
	ASR	44.8	40.8	45.1	39.3	37.1	47.7	40.8	27.4	26.6	25.7
Wheatbelt	Number	25	28	39	43	25	36	22	22	17	20
	Crude	31.8	35.8	50.5	55.7	32.5	46.9	28.5	28.3	21.7	25.4
	ASR	34.3	36.9	56.9	58.7	36.6	52.9	28.0	29.9	22.6	30.1
WA (Total)	**Number**	**958**	**894**	**1,068**	**1,021**	**883**	**887**	**842**	**865**	**718**	**823**
	Crude	**38.1**	**35.2**	**41.8**	**39.5**	**33.7**	**33.4**	**31.0**	**31.5**	**25.7**	**29.0**
	ASR	**37.5**	**34.9**	**41.7**	**39.5**	**33.8**	**33.5**	**31.4**	**32.0**	**26.1**	**29.9**

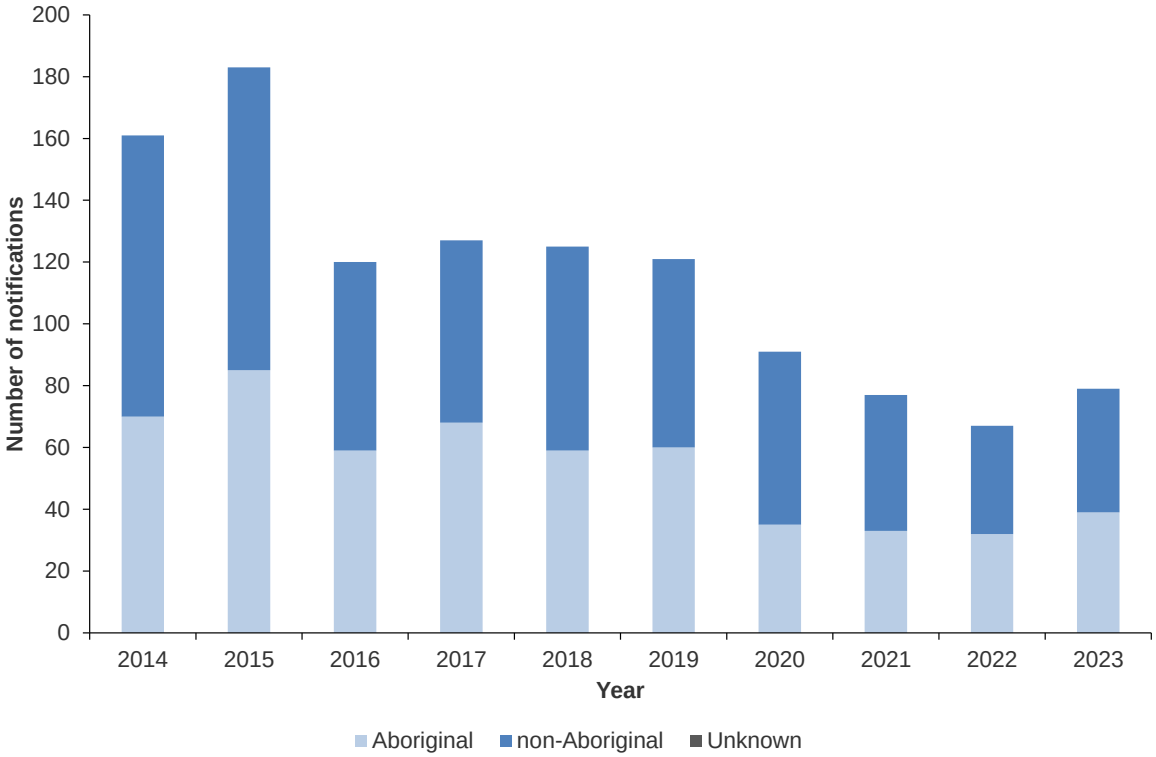
Notes: Number = Number of notifications reported to the DoH
Crude = Crude notification rate per 100,000 population
ASR = Age-standardised notification rate per 100,000 population
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 48 Number, crude rate and ASR of total hepatitis C notifications by region, WA, 2014 to 2023

Region	Rate	Year									
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Goldfields	Number	25	34	35	24	35	50	28	18	14	22
	Crude	41.8	58.1	61.9	42.4	62.2	89.0	49.8	31.7	24.6	38.5
	ASR	40.3	56.2	60.6	41.6	61.1	86.0	48.5	31.0	25.4	40.2
Great Southern	Number	48	40	48	48	38	43	31	34	38	49
	Crude	79.9	66.3	79.7	78.7	61.6	68.9	49.0	53.2	59.0	75.2
	ASR	97.2	78.0	95.3	99.9	71.3	89.8	64.4	66.3	71.8	99.1
Kimberley	Number	20	20	15	27	12	19	17	28	21	25
	Crude	53.0	54.0	41.2	73.7	32.4	50.7	44.5	72.3	53.9	63.3
	ASR	52.7	62.1	42.6	69.2	32.2	51.0	42.6	72.0	52.9	59.8
Metropolitan	Number	861	806	893	864	765	698	700	731	579	673
	Crude	43.5	40.2	44.1	42.1	36.8	32.9	32.3	33.3	26.0	29.7
	ASR	42.6	39.5	43.8	41.8	36.6	32.9	32.6	33.7	26.3	30.3
Midwest	Number	38	46	51	52	46	55	34	40	35	34
	Crude	57.0	69.7	78.5	79.9	70.5	84.0	51.3	59.5	51.7	49.6
	ASR	60.4	74.6	81.4	85.6	78.7	93.2	55.0	59.7	56.8	53.1
Pilbara	Number	18	24	27	15	21	19	23	20	26	22
	Crude	28.0	38.1	43.9	24.8	35.2	32.2	39.1	34.3	44.1	37.7
	ASR	24.9	32.4	37.4	22.3	30.9	29.0	38.1	30.8	42.2	33.9
South West	Number	79	73	76	67	63	86	75	47	53	49
	Crude	45.8	41.8	43.3	37.6	34.8	46.8	40.1	24.7	27.4	24.9
	ASR	51.1	45.8	47.3	39.3	38.6	51.6	45.5	27.4	29.8	28.3
Wheatbelt	Number	28	32	41	50	26	36	24	23	17	21
	Crude	35.7	41.0	53.0	64.7	33.8	46.9	31.1	29.6	21.7	26.7
	ASR	39.0	43.2	58.8	70.6	38.4	52.9	31.3	31.1	22.6	31.3
WA (Total)	**Number**	**1,119**	**1,077**	**1,188**	**1,148**	**1,008**	**1,008**	**933**	**942**	**785**	**902**
	Crude	**44.4**	**42.4**	**46.5**	**44.4**	**38.5**	**37.9**	**34.4**	**34.3**	**28.1**	**31.8**
	ASR	**43.8**	**41.9**	**46.4**	**44.4**	**38.7**	**38.3**	**35.0**	**34.9**	**28.6**	**32.9**

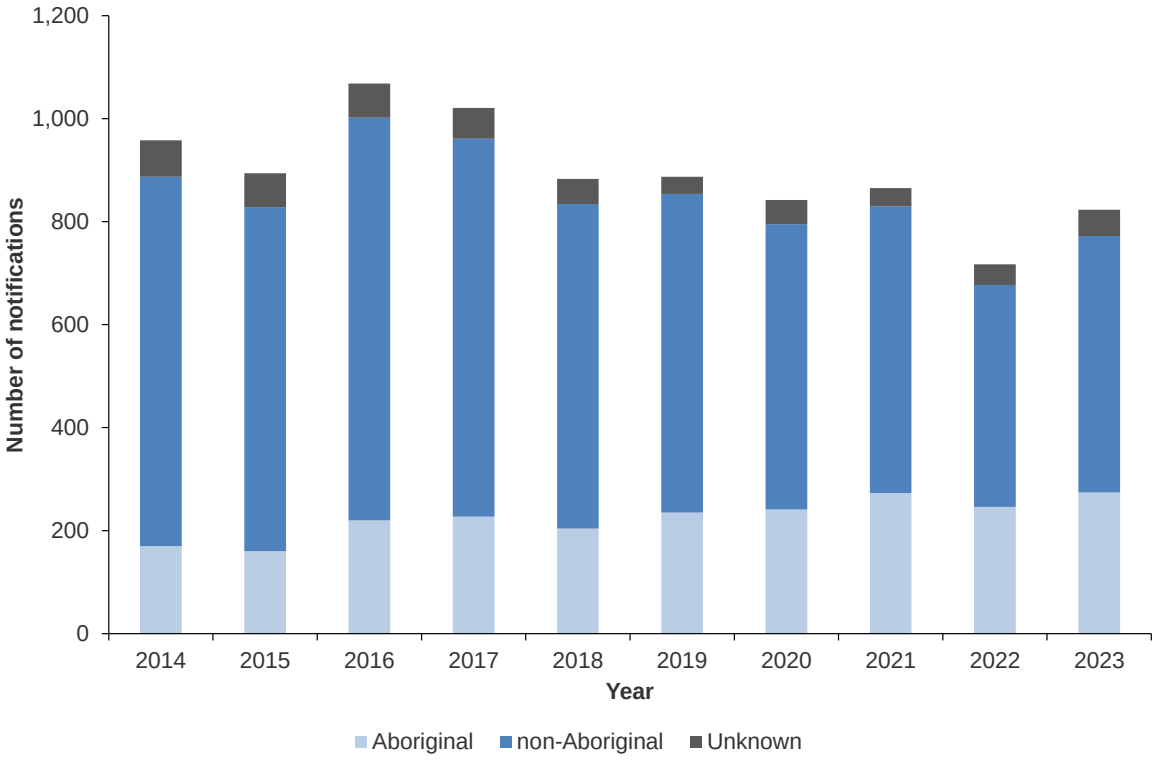
Notes: Total hepatitis C = Newly acquired hepatitis C + Unspecified hepatitis C
Number = Number of notifications reported to the DoH
Crude = Crude notification rate per 100,000 population
ASR = Age-standardised notification rate per 100,000 population
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Figure 20 Number of newly acquired hepatitis C notifications by Aboriginality, WA, 2014 to 2023



Notes: Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Figure 21 Number of unspecified hepatitis C notifications by Aboriginality, WA, 2014 to 2023



Notes: Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 49 Number and ASR of hepatitis C notifications by region, disease status and Aboriginality, WA, 2023

Region	Disease stage	Aboriginality						Total		Rate ratio (Aboriginal: non-Aboriginal)
		Aboriginal		non-Aboriginal		Unknown				
		Number	ASR	Number	ASR	Number	%Total	Number	ASR	
Goldfields	Newly acquired	1	10.9	1	2.3	0	0.0%	2	4.1	4.8
	Unspecified	7	110.1	12	24.3	1	5.0%	20	36.1	4.5
	Total hepatitis C	8	121.0	13	26.5	1	4.5%	22	40.2	4.6
Great Southern	Newly acquired	4	118.2	3	8.2	0	0.0%	7	15.2	14.4
	Unspecified	22	658.9	16	31.0	4	9.5%	42	83.9	21.2
	Total hepatitis C	26	777.0	19	39.2	4	8.2%	49	99.1	19.8
Kimberley	Newly acquired	1	4.4	0	0.0	0	0.0%	1	2.1	N/A
	Unspecified	17	85.6	7	31.6	0	0.0%	24	57.7	2.7
	Total hepatitis C	18	90.0	7	31.6	0	0.0%	25	59.8	2.9
Metropolitan	Newly acquired	29	44.6	31	1.5	0	0.0%	60	2.8	30.3
	Unspecified	179	287.1	393	17.8	41	6.7%	613	27.5	16.1
	Total hepatitis C	208	331.7	424	19.3	41	6.1%	673	30.3	17.2
Midwest	Newly acquired	3	35.6	1	2.1	0	0.0%	4	7.3	16.6
	Unspecified	15	198.1	14	20.2	1	3.3%	30	45.8	9.8
	Total hepatitis C	18	233.8	15	22.3	1	2.9%	34	53.1	10.5
Pilbara	Newly acquired	0	0.0	0	0.0	0	N/A	0	0.0	N/A
	Unspecified	16	122.5	3	6.6	3	13.6%	22	33.9	18.6
	Total hepatitis C	16	122.5	3	6.6	3	13.6%	22	33.9	18.6
South West	Newly acquired	0	0.0	4	2.7	0	0.0%	4	2.6	0.0
	Unspecified	10	143.1	35	19.4	0	0.0%	45	25.7	7.4
	Total hepatitis C	10	143.1	39	22.1	0	0.0%	49	28.3	6.5
Wheatbelt	Newly acquired	1	28.3	0	0.0	0	0.0%	1	1.2	N/A
	Unspecified	8	231.1	12	16.9	0	0.0%	20	30.1	13.7
	Total hepatitis C	9	259.5	12	16.9	0	0.0%	21	31.3	15.4
WA (Total)	**Newly acquired**	**39**	**30.3**	**40**	**1.6**	**0**	**0.0%**	**79**	**3.0**	**18.8**
	Unspecified	**274**	**220.2**	**498**	**18.4**	**51**	**6.2%**	**823**	**29.9**	**12.0**
	Total hepatitis C	**313**	**250.4**	**538**	**20.0**	**51**	**5.7%**	**902**	**32.9**	**12.5**

Notes: Number = Number of notifications reported to the DoH
ASR = Age-standardised notification rate per 100,000 population
% (Total) = Number (Unknown) / Total number (Region and Disease status)
Rate ratio (Aboriginal:non-Aboriginal) = Aboriginal to non-Aboriginal rate ratio = ASR (Aboriginal) / ASR (non-Aboriginal)
Total hepatitis C = Newly acquired hepatitis C + Unspecified hepatitis C
N/A = Not applicable
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Calculations by Aboriginality are based on notifications of known Aboriginal status only (i.e. notifications of unknown Aboriginal status are excluded)
Column totals include cases with overseas or unknown addresses, which are not shown in the table
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 50 Number and ASR of hepatitis C notifications by Aboriginality, disease status and sex, WA, 2023

Aboriginality	Disease stage	Sex				Total		Rate ratio (Male:Female)
		Male		Female				
		Number	ASR	Number	ASR	Number	ASR	
Aboriginal	Newly acquired	35	52.0	4	6.4	39	30.3	8.1
	Unspecified	193	288.4	81	145.8	274	220.2	2.0
	Total hepatitis C	228	340.4	85	152.2	313	250.4	2.2
non-Aboriginal	Newly acquired	32	2.6	8	0.6	40	1.6	4.0
	Unspecified	336	24.9	162	11.8	498	18.4	2.1
	Total hepatitis C	368	27.4	170	12.4	538	20.0	2.2
WA (Total)	Newly acquired	67	5.1	12	0.9	79	3.0	5.6
	Unspecified	566	41.1	257	18.4	823	29.9	2.2
	Total hepatitis C	633	46.2	269	19.3	902	32.9	2.4
Rate ratio (Aboriginal:non-Aboriginal)	**Newly acquired**	**N/A**	**20.4**	**N/A**	**9.9**	**N/A**	**18.8**	**2.1**
	Unspecified	**N/A**	**11.6**	**N/A**	**12.4**	**N/A**	**12.0**	**0.9**
	Total hepatitis C	**N/A**	**12.4**	**N/A**	**12.3**	**N/A**	**12.5**	**1.0**

Notes: Number = Number of notifications reported to the DoH
ASR = Age-standardised notification rate per 100,000 population
Rate ratio (Male:Female) = ASR (Male) / ASR (Female)
Rate ratio (Aboriginal:non-Aboriginal) = Aboriginal to non-Aboriginal rate ratio = ASR (Aboriginal) / ASR (non-Aboriginal)
Total hepatitis C = Newly acquired hepatitis C + Unspecified hepatitis C
N/A = Not applicable
Calculations by Aboriginality are based on notifications of known Aboriginal status only (i.e. notifications of unknown Aboriginal status are excluded)
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 51 Number and proportion of hepatitis C notifications by where infection was acquired, disease status and sex, WA, 2023

Where infection acquired	Disease stage	Sex				WA (Total)	
		Male		Female			
		Number	%Total	Number	%Total	Number	%Total
WA	Newly acquired	49	89.1%	6	10.9%	55	69.6%
	Unspecified	125	76.2%	39	23.8%	164	19.9%
	Total hepatitis C	174	79.5%	45	20.5%	219	24.3%
Interstate	Newly acquired	1	50.0%	1	50.0%	2	2.5%
	Unspecified	6	66.7%	3	33.3%	9	1.1%
	Total hepatitis C	7	63.6%	4	36.4%	11	1.2%
Overseas	Newly acquired	0	0.0%	1	100.0%	1	1.3%
	Unspecified	9	52.9%	8	47.1%	17	2.1%
	Total hepatitis C	9	50.0%	9	50.0%	18	2.0%
Unknown	Newly acquired	17	81.0%	4	19.0%	21	26.6%
	Unspecified	426	67.3%	207	32.7%	633	76.9%
	Total hepatitis C	443	67.7%	211	32.3%	654	72.5%
Total	**Newly acquired**	**67**	**84.8%**	**12**	**15.2%**	**79**	**100.0%**
	Unspecified	**566**	**68.8%**	**257**	**31.2%**	**823**	**100.0%**
	Total hepatitis C	**633**	**70.2%**	**269**	**29.8%**	**902**	**100.0%**

Notes: Number = Number of notifications reported to the DoH
% Total = Number of notifications (Where infection acquired and Disease status) / Total number of notifications (Sex) or overall
Total hepatitis C = Newly acquired hepatitis C + Unspecified hepatitis C
Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Table 52 Number and crude rate of newly acquired hepatitis C notifications by state and territory, Australia, 2023

Notifications	State/Territory								AUS (Total)
	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	
Number	6	95	1	591	31	4	35	116	879
Crude rate	1.0	1.0	0.4	11.0	2.0	0.7	0.5	4.0	3.3

Notes: Number = Number of notifications reported to state and territory health authorities
Crude rate = Crude rate per 100,000 population
Data sourced from NNDSS 11 June 2024; data are provisional and subject to future revision. The follow-up and allocation of cases to newly acquired hepatitis C is highly dependent on public health follow-up which is variable between jurisdictions. Trends between newly acquired and unspecified hepatitis C cases within jurisdictions and over time therefore need to be interpreted cautiously.

Table 53 Number and crude rate of unspecified hepatitis C notifications by state and territory, Australia, 2023

Notifications	State/Territory								AUS (Total)
	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	
Number	105	2,538	96	1,666	236	110	1,255	803	6,809
Crude rate	22.0	30.0	38.0	31.0	13.0	19.0	18.0	28.0	26.0

Notes: Number = Number of notifications reported to state and territory health authorities
Crude rate = Crude rate per 100,000 population
Data sourced from NNDSS 11 June 2024; data are provisional and subject to future revision. The follow-up and allocation of cases to newly acquired hepatitis C is highly dependent on public health follow-up which is variable between jurisdictions. Trends between newly acquired and unspecified hepatitis C cases within jurisdictions and over time therefore need to be interpreted cautiously.

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