Government of **Western Australia**
Department of **Health**

The Epidemiology of Notifiable Sexually Transmitted Infections and Blood-Borne Viruses in Western Australia 2022 - Appendix

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Contributors/Editors

Kellie Mitchell, Caitlin Wilshin, Byron Minas and Carolien Giele

Communicable Disease Control Directorate
Department of Health, Western Australia
PO Box 8172
Perth Business Centre
Western Australia 6849

Telephone: (08) 9222 4222 (switchboard)

Facsimile: (08) 9222 0227

Web: ww2.health.wa.gov.au

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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

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 2013 to 2022. 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 2013 and 2022 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 patient Aboriginality or test result 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 2013 to 2022 will be made available in a separate report.

1.2 Data collection by Aboriginality

Within WA, 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 2022) 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 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, 2022

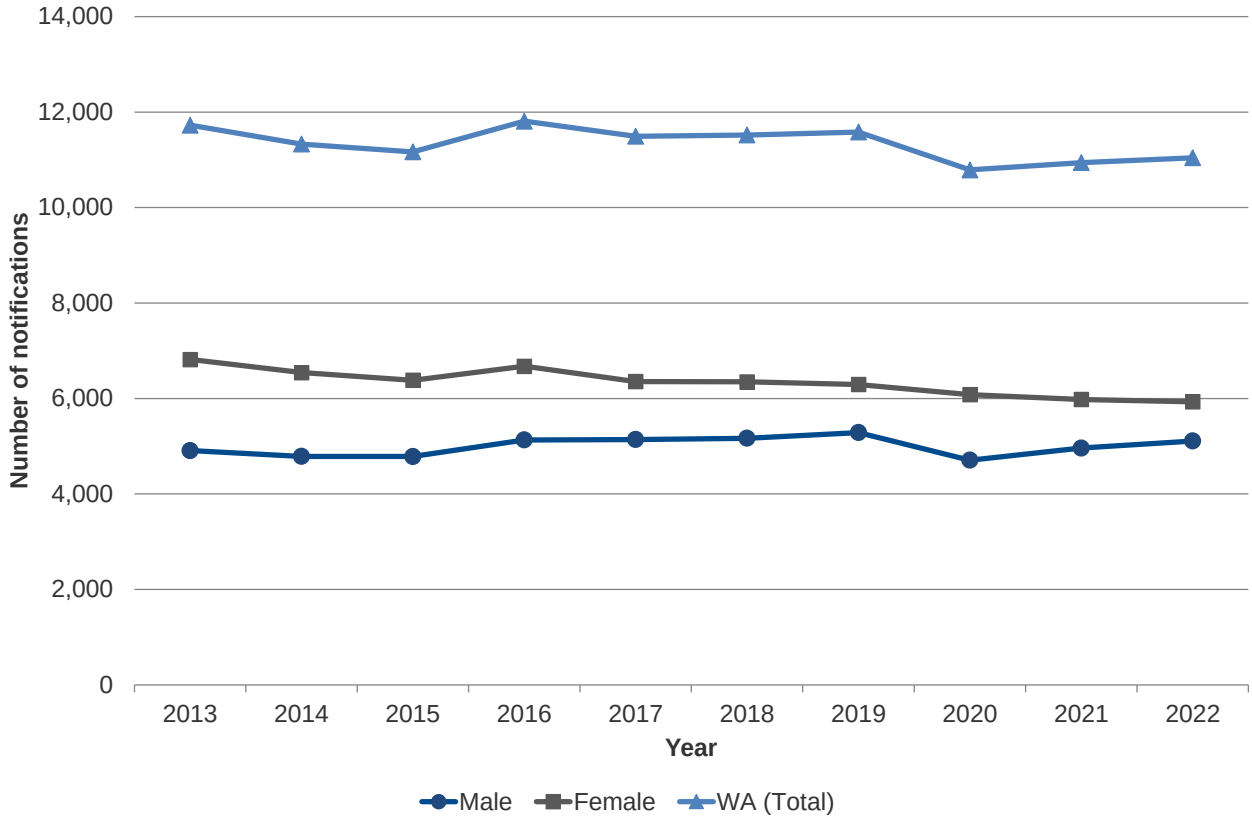
Great Southern	Goldfields	Kimberley	Metropolitan				Midwest	Pilbara	South West	Wheatbelt		
6316	0872	6725	6000	6053	6108	6175	6514	6710	6218	6041	6392	6480
6317	6346	6726	6003	6054	6109	6176	6515	6712	6220	6042	6393	6484
6318	6348	6728	6004	6055	6110	6180	6517	6713	6221	6043	6401	6485
6320	6429	6740	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, 2022

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	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	1	0.6	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	8	8.9	6	6.7	2	2.2	0	0.0	2	2.2
	Female	46	54.3	22	26.0	3	3.5	0	0.0	3	3.5
	Total	54	31.0	28	16.1	5	2.9	0	0.0	5	2.9
15–19	Male	686	895.1	206	268.8	26	33.9	3	3.9	29	37.8
	Female	1,527	2,048.3	300	402.4	42	56.3	4	5.4	46	61.7
	Total	2,213	1,463.8	506	334.7	68	45.0	7	4.6	75	49.6
20–24	Male	1,477	1,844.2	366	457.0	60	74.9	4	5.0	64	79.9
	Female	2,164	2,879.4	367	488.3	66	87.8	9	12.0	75	99.8
	Total	3,641	2,345.4	733	472.2	127	81.8	13	8.4	140	90.2
25–29	Male	1,050	1,239.2	342	403.6	84	99.1	14	16.5	98	115.7
	Female	1,107	1,268.2	251	287.6	60	68.7	9	10.3	69	79.1
	Total	2,157	1,253.9	593	344.7	145	84.3	23	13.4	168	97.7
30–34	Male	717	698.5	342	333.2	97	94.5	17	16.6	114	111.1
	Female	534	488.8	171	156.5	43	39.4	14	12.8	57	52.2
	Total	1,251	590.4	513	242.1	141	66.5	31	14.6	172	81.2
35–39	Male	452	447.3	279	276.1	85	84.1	13	12.9	98	97.0
	Female	277	275.3	111	110.3	41	40.7	11	10.9	52	51.7
	Total	730	362.0	390	193.4	126	62.5	24	11.9	150	74.4
40–44	Male	271	343.5	174	220.5	52	65.9	11	13.9	63	79.8
	Female	140	178.0	52	66.1	19	24.2	9	11.4	28	35.6
	Total	411	260.8	226	143.4	71	45.1	20	12.7	91	57.8
45–49	Male	130	137.6	87	92.1	35	37.1	17	18.0	52	55.0
	Female	78	82.0	28	29.4	13	13.7	9	9.5	22	23.1
	Total	208	109.7	115	60.7	48	25.3	26	13.7	74	39.0
50+	Male	319	73.1	154	35.3	70	16.0	50	11.5	120	27.5
	Female	58	12.4	33	7.1	10	2.1	33	7.1	43	9.2
	Total	377	41.8	187	20.7	81	9.0	83	9.2	164	18.2
WA (Total)	**Male**	**5,110**	**421.5**	**1,956**	**161.2**	**511**	**40.8**	**129**	**9.6**	**640**	**50.4**
	Female	**5,931**	**513.1**	**1,336**	**114.2**	**297**	**24.7**	**98**	**7.4**	**395**	**32.1**
	Total	**11,042**	**465.3**	**3,292**	**137.3**	**812**	**32.7**	**227**	**8.5**	**1,039**	**41.2**

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)
Non-infectious syphilis = More than two years or unknown duration
Total syphilis = Infectious syphilis + Non-infectious syphilis
WA (Total) includes one chlamydia and four infectious syphilis notifications 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, 2013 to 2022



Notes: WA (Total) includes two notifications in 2015, one notification in 2016, three notifications in 2018, three notifications in 2019, one notification in 2020, two notifications in 2021 and one notifications in 2022 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, 2022

Region	Sex						Rate ratio (Male:Female)
	Male		Female		Total		
	Number	ASR	Number	ASR	Number	ASR	
Goldfields	108	523.0	197	972.2	305	745.5	0.5
Great Southern	66	287.0	76	386.6	142	328.8	0.7
Kimberley	246	1,741.0	376	2,389.1	622	2,054.9	0.7
Metropolitan	4,143	410.0	4,486	462.0	8,630	434.0	0.9
Midwest	97	466.8	165	790.8	262	626.2	0.6
Pilbara	165	1,797.5	216	1,592.4	381	1,605.8	1.1
South West	201	318.3	289	444.1	490	378.5	0.7
Wheatbelt	69	272.5	102	473.0	171	358.9	0.6
WA (Total)	**5,110**	**421.5**	**5,931**	**513.1**	**11,042**	**465.3**	**0.8**

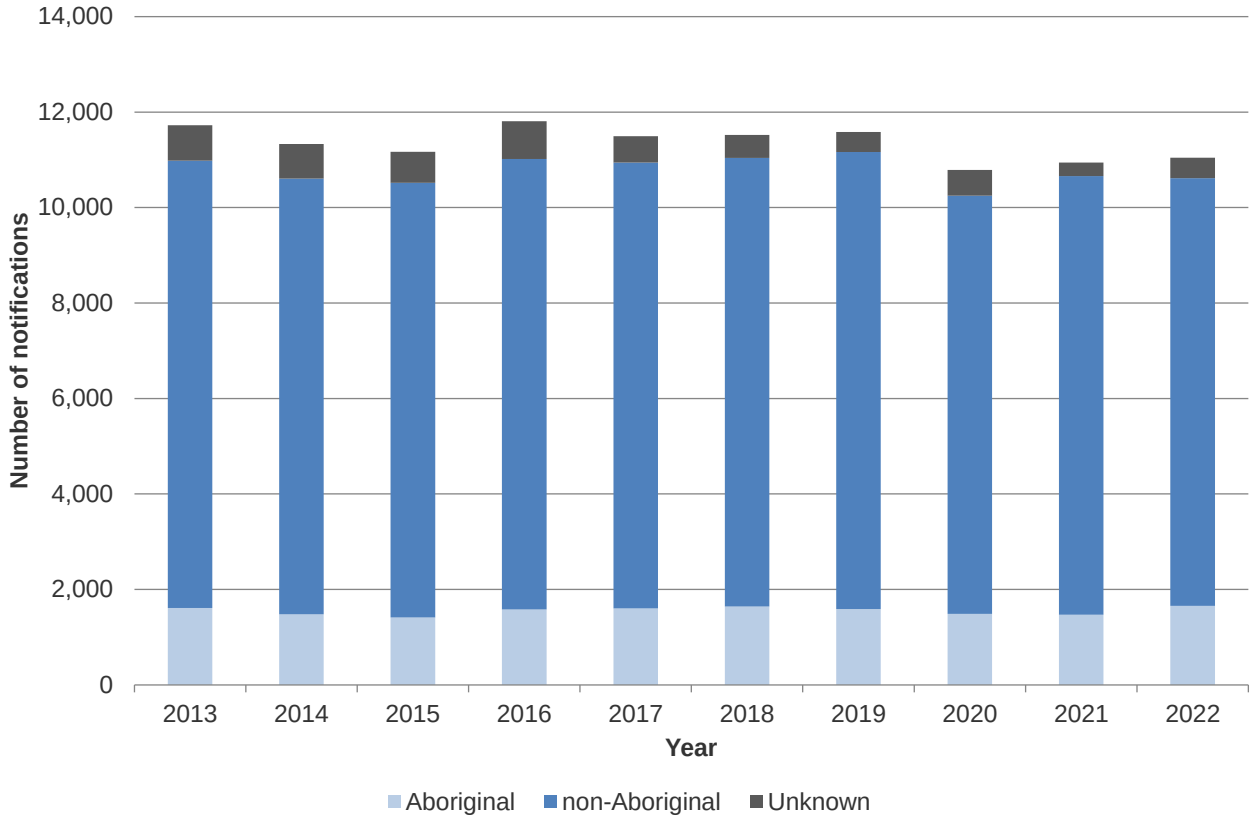
Notes: Number = Number of notifications reported to the DoH
ASR = Age-standardised notification rate per 100,000 population
Rate ratio (Male:Female) = ASR (Male) / ASR (Female)
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Column totals include cases with overseas or unknown 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, 2013 to 2022

Region	Rate	Year									
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Goldfields	Number	411	367	302	396	319	344	327	304	287	305
	Crude	672.7	612.9	516.1	700.2	568.9	623.7	608.8	577.1	554.3	603.4
	ASR	681.7	630.8	536.4	720.8	594.7	675.9	663.7	653.4	654.6	745.5
Great Southern	Number	185	177	188	180	163	186	165	168	145	142
	Crude	311.2	294.7	311.8	298.8	269.2	305.9	270.9	275.0	236.5	231.0
	ASR	378.3	368.8	390.6	381.7	348.5	409.7	375.0	395.8	338.4	328.8
Kimberley	Number	667	667	646	598	636	630	536	534	515	622
	Crude	1,722.2	1,768.4	1,742.8	1,643.1	1,759.9	1,749.1	1,512.5	1,521.1	1,479.1	1,807.0
	ASR	1,706.6	1,770.5	1,736.7	1,614.7	1,795.5	1,832.3	1,595.3	1,641.0	1,638.9	2,054.9
Metropolitan	Number	8,886	8,636	8,608	9,122	8,986	9,021	9,177	8,400	8,718	8,630
	Crude	456.2	436.6	429.7	450.8	439.8	437.1	440.0	399.0	410.0	401.9
	ASR	429.4	415.0	413.3	440.3	437.8	442.3	451.1	415.2	435.1	434.0
Midwest	Number	380	310	286	352	306	261	222	315	278	262
	Crude	567.8	464.7	433.3	541.8	477.8	413.6	356.7	514.3	460.8	441.2
	ASR	639.4	530.6	500.5	630.1	575.9	516.2	454.2	673.8	628.7	626.2
Pilbara	Number	426	384	362	384	342	327	366	303	332	381
	Crude	655.6	597.2	574.4	624.0	556.9	530.6	606.5	505.0	555.9	644.7
	ASR	678.7	634.6	627.8	668.4	657.6	655.4	760.5	722.9	968.0	1,605.8
South West	Number	548	563	579	561	521	567	572	569	494	490
	Crude	323.3	326.5	331.7	319.5	294.4	317.8	318.0	314.2	270.6	266.4
	ASR	380.9	390.4	404.5	398.7	371.0	407.9	418.0	431.5	378.0	378.5
Wheatbelt	Number	185	200	173	174	177	153	181	153	141	171
	Crude	235.7	254.8	221.4	225.1	229.5	200.3	238.4	203.0	188.3	230.2
	ASR	316.2	344.0	301.2	310.4	319.9	289.5	349.2	302.1	288.6	358.9
WA (Total)	**Number**	**11,724**	**11,330**	**11,167**	**11,809**	**11,494**	**11,519**	**11,581**	**10,788**	**10,941**	**11,042**
	Crude	**471.4**	**450.0**	**439.5**	**462.0**	**446.3**	**443.9**	**443.0**	**409.9**	**412.6**	**413.4**
	ASR	**460.2**	**443.9**	**438.9**	**467.5**	**460.2**	**465.4**	**470.6**	**443.7**	**455.7**	**465.3**

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 2 Number of chlamydia notifications by Aboriginality, WA, 2013 to 2022



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, 2022

Region	Aboriginality						Total		Rate ratio (Aboriginal: non-Aboriginal)
	Aboriginal		non-Aboriginal		Unknown				
	Number	ASR	Number	ASR	Number	%Total	Number	ASR	
Goldfields	140	1,491.7	163	542.4	2	0.7%	305	745.5	2.8
Great Southern	15	402.6	120	305.2	7	4.9%	142	328.8	1.3
Kimberley	506	2,373.3	104	1,221.3	12	1.9%	622	2,054.9	1.9
Metropolitan	553	939.3	7,708	398.3	369	4.3%	8,630	434.0	2.4
Midwest	122	1,065.4	131	449.1	9	3.4%	262	626.2	2.4
Pilbara	231	1,769.5	147	1,820.6	3	0.8%	381	1,605.8	1.0
South West	51	710.9	416	342.8	23	4.7%	490	378.5	2.1
Wheatbelt	38	859.7	131	308.8	2	1.2%	171	358.9	2.8
WA (Total)	**1,656**	**1,251.3**	**8,958**	**397.7**	**428**	**3.9%**	**11,042**	**465.3**	**3.1**

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, 2022

Aboriginality	Sex				Total		Rate ratio (Male:Female)
	Male		Female				
	Number	ASR	Number	ASR	Number	ASR	
Aboriginal	588	912.8	1,068	1,608.7	1,656	1,251.3	0.6
non-Aboriginal	4,323	375.0	4,634	423.9	8,958	397.7	0.9
WA (Total)	5,110	421.5	5,931	513.1	11,042	465.3	0.8
Rate ratio (Aboriginal:non-Aboriginal)	**N/A**	**2.4**	**N/A**	**3.8**	**N/A**	**3.1**	**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 people
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, 2022

Where infection acquired	Sex				WA (Total)	
	Male		Female			
	Number	%Total	Number	%Total	Number	%Total
WA	3,277	64.1%	3,836	64.7%	7,114	64.4%
Interstate	26	0.5%	21	0.4%	47	0.4%
Overseas	74	1.4%	34	0.6%	108	1.0%
Unknown	1,733	33.9%	2,040	34.4%	3,773	34.2%
Total	**5,110**	**100.0%**	**5,931**	**100.0%**	**11,042**	**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 people
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, 2022

Notifications	State/Territory								AUS (Total)
	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	
Number	1,462	25,837	2,576	23,354	5,617	1,653	22,815	11,045	94,359
Crude rate	317.2	313.6	1,029.8	434.2	306.2	289.2	340.3	390.9	359.2

Notes: Number = Number of notifications reported to state and territory health authorities
Crude rate = Crude rate per 100,000 population
Data sourced from NNDSS 12 September 2023; data are provisional and subject to future revision

Table 9 Number and age-specific rate of chlamydia notifications by sex and Aboriginality, WA, 2022

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	5	86.4	3	3.6	0	0.0%	8	8.9	24.1
	Female	33	560.7	12	15.2	1	2.2%	46	54.3	36.9
	Total	38	325.6	15	9.2	1	1.9%	54	31.0	35.3
15–19	Male	192	3,745.6	472	659.9	22	3.2%	686	895.1	5.7
	Female	403	7,810.1	1,088	1,569.0	36	2.4%	1,527	2,048.3	5.0
	Total	595	5,784.6	1,560	1,107.5	58	2.6%	2,213	1,463.8	5.2
20–24	Male	165	3,337.4	1,256	1,671.3	56	3.8%	1,477	1,844.2	2.0
	Female	334	7,297.4	1,736	2,459.5	94	4.3%	2,164	2,879.4	3.0
	Total	499	5,241.0	2,992	2,053.1	150	4.1%	3,641	2,345.4	2.6
25–29	Male	79	1,550.8	920	1,154.5	51	4.9%	1,050	1,239.2	1.3
	Female	162	3,548.0	888	1,073.9	57	5.1%	1,107	1,268.2	3.3
	Total	241	2,494.8	1,808	1,113.5	108	5.0%	2,157	1,253.9	2.2
30–34	Male	66	1,399.5	624	637.4	27	3.8%	717	698.5	2.2
	Female	76	1,750.3	440	419.5	18	3.4%	534	488.8	4.2
	Total	142	1,567.7	1,064	524.7	45	3.6%	1,251	590.4	3.0
35–39	Male	31	958.0	399	407.9	22	4.9%	452	447.3	2.3
	Female	33	983.0	232	238.5	12	4.3%	277	275.3	4.1
	Total	64	970.7	632	324.0	34	4.7%	730	362.0	3.0
40–44	Male	28	983.8	237	311.6	6	2.2%	271	343.5	3.2
	Female	16	599.3	114	150.1	10	7.1%	140	178.0	4.0
	Total	44	797.7	351	230.9	16	3.9%	411	260.8	3.5
45–49	Male	11	376.6	111	121.3	8	6.2%	130	137.6	3.1
	Female	7	232.8	71	77.1	0	0.0%	78	82.0	3.0
	Total	18	303.6	182	99.1	8	3.8%	208	109.7	3.1
50+	Male	11	128.5	301	70.3	7	2.2%	319	73.1	1.8
	Female	4	38.6	53	11.6	1	1.7%	58	12.4	3.3
	Total	15	79.3	354	40.0	8	2.1%	377	41.8	2.0
WA (Total)	**Male**	**588**	**912.8**	**4,323**	**375.0**	**199**	**3.9%**	**5,110**	**421.5**	**2.4**
	Female	**1,068**	**1,608.7**	**4,634**	**423.4**	**229**	**3.9%**	**5,931**	**513.1**	**3.8**
	Total	**1,656**	**1,251.3**	**8,958**	**397.7**	**428**	**3.9%**	**11,042**	**465.3**	**3.1**

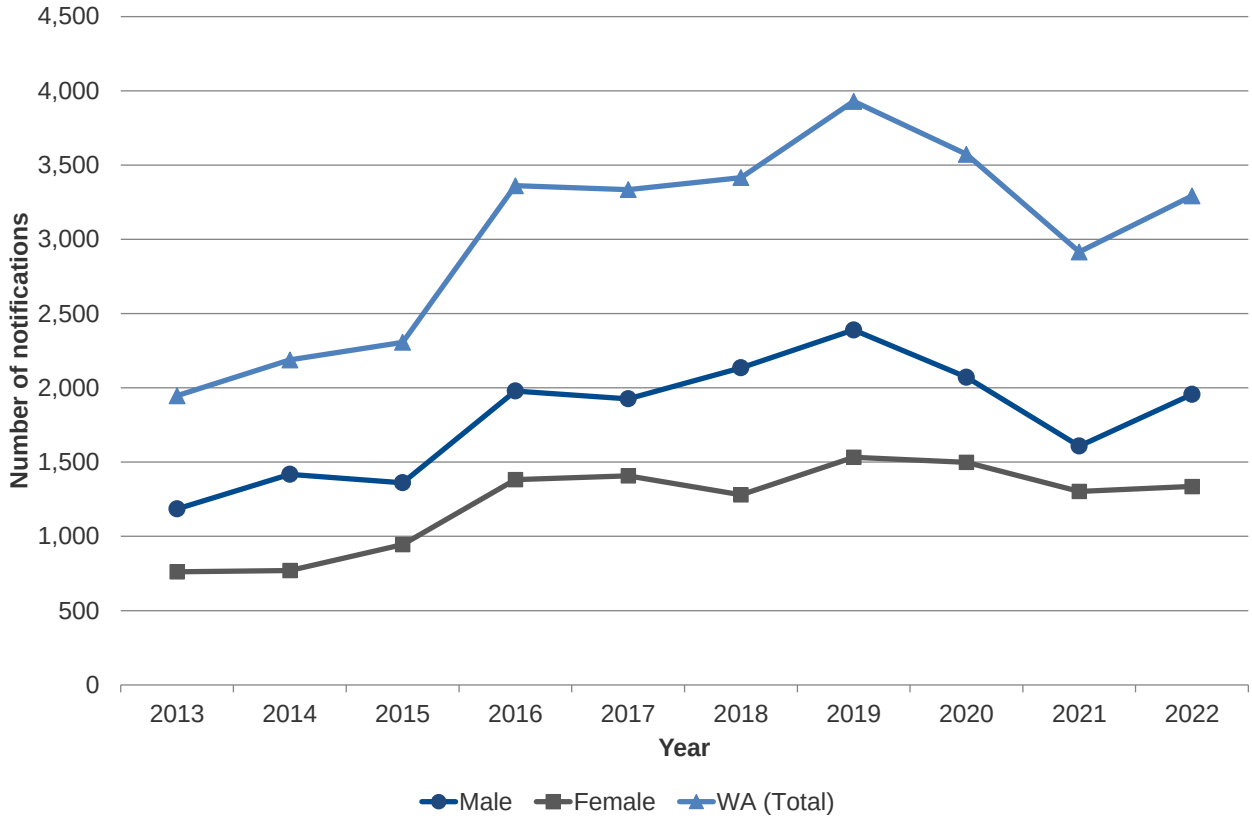
Notes: Number = Number of notifications reported to the DoH
Rate (Age group) = Age-specific rate
Rate (WA Total) = Age-standardised notification rate per 100,000 population
% (Total) = Number (Unknown) / Total number (Age group)
N/A = Not applicable
Rate ratio (Aboriginal:non-Aboriginal) = Aboriginal 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, 2022

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	48	49	18	12	5	3	1	2	0	140
		Rate	0.0	259.4	6,896.6	6,630.6	3,108.8	1,796.4	1,041.7	755.7	220.8	148.7	N/A	1,491.7
	non-Aboriginal	Number	0	0	29	61	38	20	6	2	4	3	0	163
		Rate	0.0	0.0	1,139.9	4,398.0	1,249.6	546.4	179.4	89.5	122.3	20.2	N/A	542.4
	Total	Number	0	2	77	112	56	32	11	5	5	5	0	305
		Rate	0.0	59.6	2,374.3	5,255.7	1,544.8	738.9	287.4	189.8	134.2	30.8	N/A	745.5
Great	Aboriginal	Number	0	0	6	4	3	1	0	0	1	0	0	15
Southern		Rate	0.0	0.0	1,685.4	1,646.1	1,219.5	476.2	0.0	0.0	719.4	0.0	N/A	402.6
	non-Aboriginal	Number	0	0	41	50	11	4	7	5	0	2	0	120
		Rate	0.0	0.0	1,230.9	2,084.2	510.9	123.0	231.4	163.1	0.0	7.5	N/A	305.2
	Total	Number	0	0	49	57	15	5	8	5	1	2	0	142
		Rate	0.0	0.0	1,327.9	2,155.0	624.2	144.3	249.1	155.1	24.4	7.3	N/A	328.8
Kimberley	Aboriginal	Number	0	17	183	130	74	52	21	14	7	8	0	506
		Rate	0.0	856.0	12,257.2	8,873.7	4,396.9	3,123.1	1,582.5	1,199.7	645.2	228.4	N/A	2,373.3
	non-Aboriginal	Number	0	0	14	35	24	16	8	0	4	3	0	104
		Rate	0.0	0.0	3,535.4	7,261.4	4,332.1	1,063.8	631.4	0.0	319.2	52.8	N/A	1,221.3
	Total	Number	0	17	198	170	101	70	29	14	11	12	0	622
		Rate	0.0	585.6	10,470.7	8,722.4	4,508.9	2,207.5	1,117.1	652.1	469.9	130.7	N/A	2,055.1
Metropolitan	Aboriginal	Number	0	9	199	168	86	47	24	15	4	1	0	553
		Rate	0.0	186.9	4,417.3	3,732.5	1,890.5	1,193.8	922.7	715.3	173.2	14.6	N/A	939.3
	non-Aboriginal	Number	0	11	1,276	2,547	1,579	934	556	323	162	320	0	7,708
		Rate	0.0	8.3	1,111.1	1,943.7	1,120.8	546.2	341.0	256.1	108.7	45.8	N/A	398.3
	Total	Number	0	21	1,528	2,835	1,760	1,018	612	354	174	328	0	8,630
		Rate	0.0	15.3	1,280.4	2,091.1	1,210.2	581.8	369.3	275.8	115.1	46.5	N/A	434.0
Midwest	Aboriginal	Number	0	4	46	40	17	5	4	2	3	1	0	122
		Rate	0.0	353.0	4,831.9	4,866.2	2,354.6	756.4	842.1	459.8	535.7	50.3	N/A	1,065.4
	non-Aboriginal	Number	0	0	29	44	28	15	8	1	2	4	0	131
		Rate	0.0	0.0	1,065.0	3,151.9	1,322.0	463.0	257.8	40.2	52.2	18.0	N/A	449.1
	Total	Number	0	4	75	87	48	23	12	3	5	5	0	262
		Rate	0.0	94.7	2,038.0	3,915.4	1,689.5	589.4	335.3	102.6	113.8	20.7	N/A	625.8
Pilbara	Aboriginal	Number	0	5	87	78	33	14	5	5	2	2	0	231
		Rate	0.0	426.3	9,167.5	10,209.4	2,957.0	1,099.8	475.7	625.8	250.0	84.1	N/A	1,769.5
	non-Aboriginal	Number	0	1	34	43	31	20	10	3	0	5	0	147
		Rate	0.0	40.1	2,156.0	22,872.3	1,038.5	284.9	168.0	72.2	0.0	49.9	N/A	1,820.6
	Total	Number	0	6	121	124	64	34	15	8	2	7	0	381
		Rate	0.0	163.6	4,786.4	15,938.3	1,559.8	409.7	214.0	161.3	39.1	56.3	N/A	1,605.9
South West	Aboriginal	Number	0	1	19	18	3	6	2	2	0	0	0	51
		Rate	0.0	133.5	2,729.9	3,015.1	657.9	1,846.2	749.1	843.9	0.0	0.0	N/A	710.9
	non-Aboriginal	Number	0	3	108	154	65	33	20	12	7	14	0	416
		Rate	0.0	23.5	878.0	2,377.3	855.5	337.0	178.4	121.8	52.4	19.2	N/A	342.8
	Total	Number	0	4	129	184	73	42	23	14	7	14	0	490
		Rate	0.0	29.6	992.7	2,600.3	906.3	414.9	200.3	138.7	51.2	19.0	N/A	378.5
Wheatbelt	Aboriginal	Number	0	0	7	12	7	5	3	3	0	1	0	38
		Rate	0.0	0.0	1,129.0	3,260.9	2,372.9	1,700.7	1,604.3	1,415.1	0.0	95.1	N/A	859.7
	non-Aboriginal	Number	0	0	27	45	20	16	13	4	3	3	0	131
		Rate	0.0	0.0	856.1	1,828.5	653.6	485.1	316.4	131.1	63.6	8.9	N/A	308.8
	Total	Number	0	0	34	58	28	21	16	7	3	4	0	171
		Rate	0.0	0.0	900.2	2,048.7	834.3	583.8	372.3	214.4	60.5	11.5	N/A	358.9
WA (Total)	**Aboriginal**	**Number**	**0**	**38**	**595**	**499**	**241**	**142**	**64**	**44**	**18**	**15**	**0**	**1,656**
		Rate	**0.0**	**325.6**	**5,784.6**	**5,241.0**	**2,494.8**	**1,567.7**	**970.7**	**797.7**	**303.6**	**79.3**	**N/A**	**1,251.3**
	non-Aboriginal	**Number**	**0**	**15**	**1,560**	**2,992**	**1,808**	**1,064**	**632**	**351**	**182**	**354**	**0**	**8,958**
		Rate	**0.0**	**9.2**	**1,107.5**	**2,053.1**	**1,113.5**	**524.7**	**324.0**	**230.9**	**99.1**	**40.0**	**N/A**	**397.7**
	Total	**Number**	**0**	**54**	**2,213**	**3,641**	**2,157**	**1,251**	**730**	**411**	**208**	**377**	**0**	**11,042**
		Rate	**0.0**	**31.0**	**1,463.8**	**2,345.4**	**1,253.9**	**590.4**	**362.0**	**260.8**	**109.7**	**41.8**	**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, 2013 to 2022



Notes: WA (Total) includes one notification each in 2015, 2017 and 2018, six notifications in 2019, two notifications in 2020 and four notifications in 2021 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, 2022

Region	Sex						Rate ratio (Male:Female)
	Male		Female		Total		
	Number	ASR	Number	ASR	Number	ASR	
Goldfields	79	340.2	94	431.1	173	388.5	0.8
Great Southern	9	36.8	9	36.2	18	36.5	1.0
Kimberley	255	1,706.4	279	1,580.5	534	1,628.6	1.1
Metropolitan	1,396	139.5	763	79.7	2,159	109.2	1.8
Midwest	40	156.4	31	128.3	71	141.1	1.2
Pilbara	122	838.5	118	657.9	240	701.5	1.3
South West	32	45.4	27	37.7	59	40.9	1.2
Wheatbelt	17	61.4	13	50.9	30	56.2	1.2
WA (Total)	**1,956**	**161.2**	**1,336**	**114.2**	**3,292**	**137.3**	**1.4**

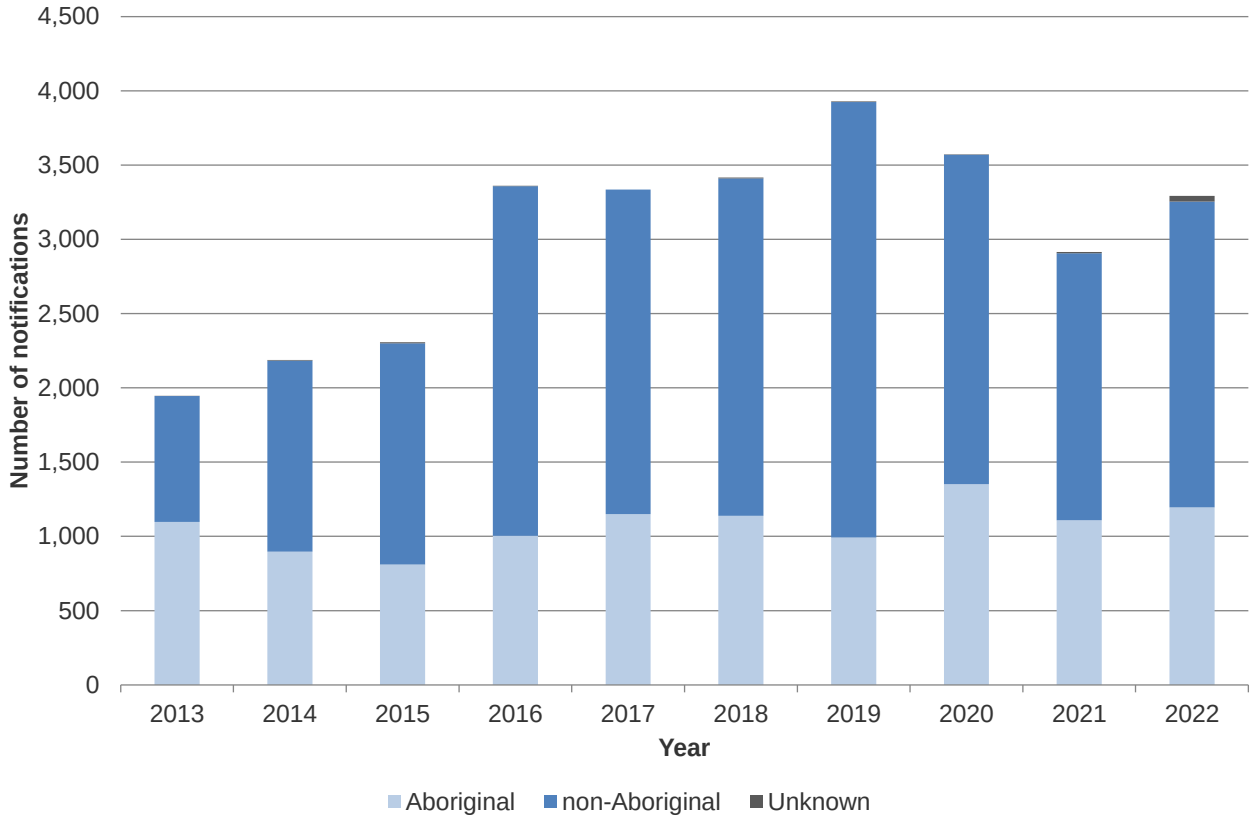
Notes: Number = Number of notifications reported to the DoH
ASR = Age-standardised notification rate per 100,000 population
Rate ratio (Male:Female) = ASR (Male) / ASR (Female)
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Column totals include cases with overseas or unknown addresses, which are not shown in the table
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, 2013 to 2022

Region	Rate	Year									
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Goldfields	Number	147	144	145	127	211	258	135	197	219	173
	Crude	240.6	240.5	247.8	224.6	376.3	467.8	251.4	374.0	422.9	342.3
	ASR	249.2	247.3	255.5	232.7	396.4	496.4	269.4	411.7	471.6	388.5
Great Southern	Number	21	8	11	14	11	14	31	19	15	18
	Crude	35.3	13.3	18.2	23.2	18.2	23.0	50.9	31.1	24.5	29.3
	ASR	41.6	16.2	20.4	30.9	24.2	31.1	69.2	46.2	34.3	36.5
Kimberley	Number	527	521	409	464	514	390	334	548	423	534
	Crude	1,360.7	1,381.3	1,103.4	1,274.9	1,422.3	1,082.8	942.5	1,561.0	1,214.9	1,551.4
	ASR	1,355.8	1,363.0	1,095.3	1,273.7	1,456.8	1,103.2	984.1	1,640.4	1,314.2	1,628.6
Metropolitan	Number	921	1,258	1,432	2,274	2,176	2,326	2,911	2,286	1,870	2,159
	Crude	47.3	63.6	71.5	112.4	106.5	112.7	139.6	108.6	87.9	100.5
	ASR	45.5	60.7	68.3	109.4	105.2	112.9	141.1	111.5	91.6	109.2
Midwest	Number	76	61	55	129	111	76	99	105	62	71
	Crude	113.6	91.4	83.3	198.6	173.3	120.4	159.0	171.4	102.8	119.6
	ASR	125.8	104.2	95.9	231.2	208.4	150.3	200.7	218.4	132.8	141.1
Pilbara	Number	211	139	172	217	185	216	213	245	232	240
	Crude	324.7	216.2	272.9	352.6	301.3	350.5	353.0	408.4	388.5	406.1
	ASR	367.0	227.1	315.9	417.4	355.7	417.9	428.6	524.9	591.9	701.5
South West	Number	20	31	56	95	86	97	157	121	57	59
	Crude	11.8	18.0	32.1	54.1	48.6	54.4	87.3	66.8	31.2	32.1
	ASR	13.3	20.4	37.9	65.9	59.9	67.9	114.0	90.9	40.7	40.9
Wheatbelt	Number	20	19	21	28	36	26	37	39	32	30
	Crude	25.5	24.2	26.9	36.2	46.7	34.0	48.7	51.7	42.7	40.4
	ASR	30.9	32.5	34.9	46.9	61.9	43.2	68.7	74.5	63.4	56.4
WA (Total)	**Number**	**1,947**	**2,188**	**2,307**	**3,361**	**3,335**	**3,416**	**3,929**	**3,573**	**2,915**	**3,292**
	Crude	**78.3**	**86.9**	**90.8**	**131.5**	**129.5**	**131.6**	**150.3**	**135.7**	**109.9**	**123.3**
	ASR	**78.0**	**86.2**	**90.5**	**133.0**	**133.1**	**136.2**	**157.0**	**145.0**	**119.0**	**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, 2013 to 2022



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, 2022

Region	Aboriginality						Total		Rate ratio (Aboriginal: non-Aboriginal)
	Aboriginal		non-Aboriginal		Unknown				
	Number	ASR	Number	ASR	Number	%Total	Number	ASR	
Goldfields	146	1,689.5	25	83.2	2	1.2%	173	388.5	20.3
Great Southern	6	204.2	12	29.1	0	0.0%	18	36.5	7.0
Kimberley	517	2,450.9	14	159.6	3	0.6%	534	1,628.6	15.4
Metropolitan	232	409.5	1,897	95.5	30	1.4%	2,159	109.2	4.3
Midwest	55	533.3	16	48.0	0	0.0%	71	141.1	11.1
Pilbara	220	1,690.3	19	184.6	1	0.4%	240	701.5	9.2
South West	9	153.8	49	39.7	1	1.7%	59	40.9	3.9
Wheatbelt	10	195.0	19	37.1	1	3.3%	30	56.2	5.3
WA (Total)	**1,195**	**953.2**	**2,059**	**88.1**	**38**	**1.2%**	**3,292**	**137.3**	**10.8**

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, 2022

Aboriginality	Sex				Total		Rate ratio (Male:Female)
	Male		Female				
	Number	ASR	Number	ASR	Number	ASR	
Aboriginal	562	924.7	633	988.5	1,195	953.2	0.9
non-Aboriginal	1,366	115.8	693	61.1	2,059	88.1	1.9
WA (Total)	1,956	161.2	1,336	114.2	3,292	137.3	1.4
Rate ratio (Aboriginal:non-Aboriginal)	**N/A**	**8.0**	**N/A**	**16.2**	**N/A**	**10.8**	**0.5**

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)
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)
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, 2022

Where infection acquired	Sex				WA (Total)	
	Male		Female			
	Number	%Total	Number	%Total	Number	%Total
WA	1,442	73.7%	1,014	75.9%	2,456	74.6%
Interstate	20	1.0%	9	0.7%	29	0.9%
Overseas	45	2.3%	7	0.5%	52	1.6%
Unknown	449	23.0%	306	22.9%	755	22.9%
Total	**1,956**	**100.0%**	**1,336**	**100.0%**	**3,292**	**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
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, 2022

Notifications	State/Territory								AUS (Total)
	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	
Number	369	10,294	2,079	5,887	1,790	258	9,198	3,301	33,176
Crude rate	80.1	124.9	831.1	109.5	97.6	45.1	137.2	116.8	126.3

Notes: Number = Number of notifications reported to state and territory health authorities
Crude rate = Crude rate per 100,000 population
Data sourced from NNDSS 12 September 2023; data are provisional and subject to future revision

Table 17 Number and age-specific rate of gonorrhoea notifications by sex and Aboriginality, WA, 2022

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	1	0.6	0	0.0%	1	0.6	0.0
	Total	0	0.0	1	0.3	0	0.0%	1	0.3	0.0
10–14	Male	4	69.1	2	2.4	0	0.0%	6	6.7	29.0
	Female	20	339.8	2	2.5	0	0.0%	22	26.0	134.0
	Total	24	205.7	4	2.5	0	0.0%	28	16.1	83.6
15–19	Male	132	2,575.1	71	99.3	3	1.5%	206	268.8	25.9
	Female	205	3,972.9	92	132.7	3	1.0%	300	402.4	29.9
	Total	337	3,276.3	163	115.7	6	1.2%	506	334.7	28.3
20–24	Male	141	2,851.9	215	286.1	10	2.7%	366	457.0	10.0
	Female	169	3,692.4	196	277.7	2	0.5%	367	488.3	13.3
	Total	310	3,256.0	411	282.0	12	1.6%	733	472.2	11.5
25–29	Male	84	1,649.0	255	320.0	3	0.9%	342	403.6	5.2
	Female	108	2,365.3	138	166.9	5	2.0%	251	287.6	14.2
	Total	192	1,987.6	393	242.0	8	1.3%	593	344.7	8.2
30–34	Male	83	1,760.0	256	261.5	3	0.9%	342	333.2	6.7
	Female	70	1,612.2	101	96.3	0	0.0%	171	156.5	16.7
	Total	153	1,689.1	357	176.0	3	0.6%	513	242.1	9.6
35–39	Male	55	1,699.6	221	225.9	3	1.1%	279	276.1	7.5
	Female	43	1,280.9	68	69.9	0	0.0%	111	110.3	18.3
	Total	98	1,486.4	289	148.1	3	0.8%	390	193.4	10.0
40–44	Male	34	1,194.7	136	178.8	4	2.3%	174	220.5	6.7
	Female	13	486.9	39	51.4	0	0.0%	52	66.1	9.5
	Total	47	852.1	175	115.1	4	1.8%	226	143.4	7.4
45–49	Male	14	479.3	72	78.7	1	1.1%	87	92.1	6.1
	Female	3	99.8	25	27.1	0	0.0%	28	29.4	3.7
	Total	17	286.8	97	52.8	1	0.9%	115	60.7	5.4
50+	Male	15	175.3	138	32.2	1	0.6%	154	35.3	5.4
	Female	2	19.3	31	6.8	0	0.0%	33	7.1	2.8
	Total	17	89.9	169	19.1	1	0.5%	187	20.7	4.7
WA (Total)	**Male**	**562**	**924.7**	**1,366**	**115.8**	**28**	**1.4%**	**1,956**	**161.2**	**8.0**
	Female	**633**	**988.5**	**693**	**60.6**	**10**	**0.7%**	**1,336**	**114.2**	**16.3**
	Total	**1,195**	**953.2**	**2,059**	**88.1**	**38**	**1.2%**	**3,292**	**137.3**	**10.8**

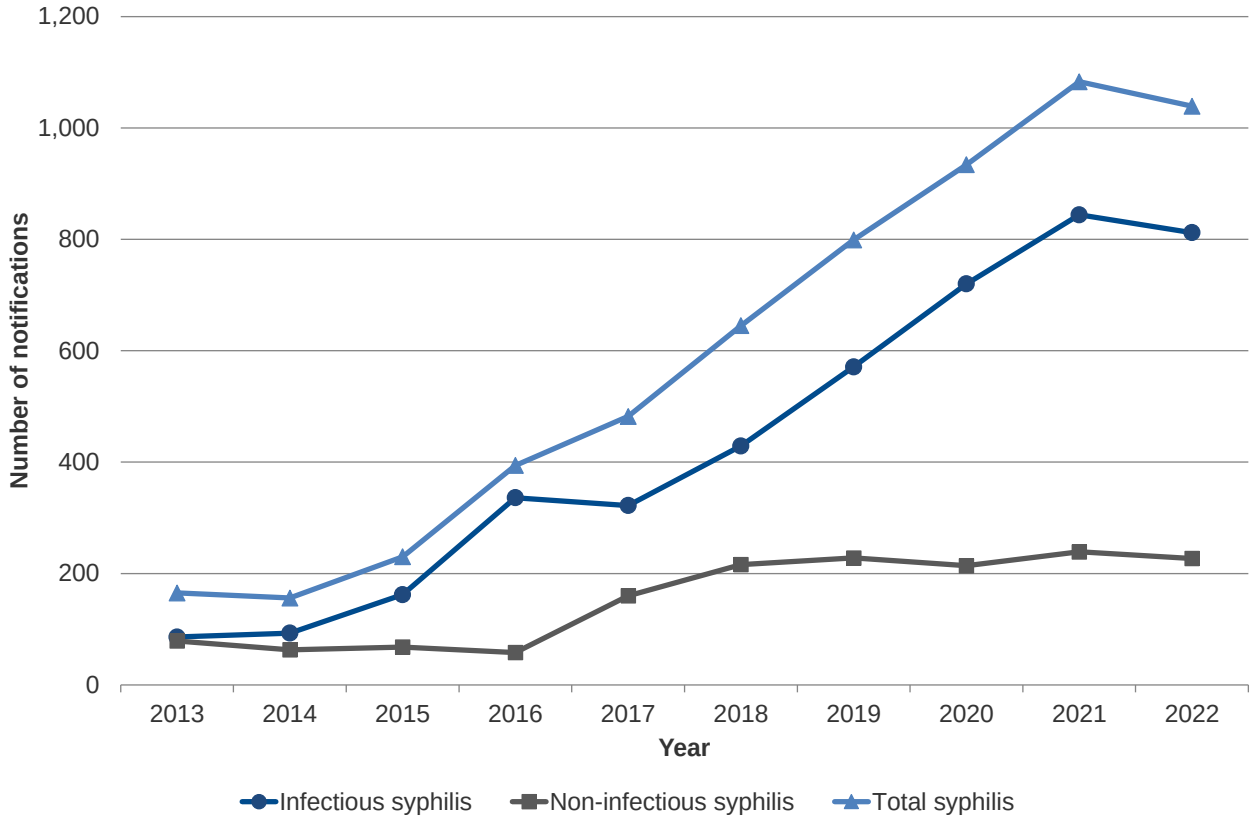
Notes: Number = Number of notifications reported to the DoH
Rate (Age group) = Age-specific rate
Rate (WA Total) = Age-standardised notification rate per 100,000 population
% (Total) = Number (Unknown) / Total number (Age group)
Rate ratio (Aboriginal:non-Aboriginal) = Aboriginal to non-Aboriginal rate 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)
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, 2022

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	37	32	27	24	17	2	2	3	0	146
		Rate	0.0	259.4	5,316.1	4,330.2	4,663.2	3,592.8	3,541.7	503.8	441.5	223.0	N/A	1,689.5
	non-Aboriginal	Number	0	0	5	9	3	3	0	2	2	1	0	25
		Rate	0.0	0.0	196.5	648.9	98.7	82.0	0.0	89.5	61.1	6.7	N/A	83.6
	Total	Number	0	2	42	42	30	28	17	4	4	4	0	173
		Rate	0.0	59.6	1,295.1	1,970.9	827.6	646.5	444.2	151.9	107.4	24.7	N/A	388.5
Great	Aboriginal	Number	0	0	1	1	1	1	1	1	0	0	0	6
Southern		Rate	0.0	0.0	280.9	411.5	406.5	476.2	543.5	653.6	0.0	0.0	N/A	204.2
	non-Aboriginal	Number	0	0	5	4	0	1	2	0	0	0	0	12
		Rate	0.0	0.0	150.1	166.7	0.0	30.8	66.1	0.0	0.0	0.0	N/A	29.1
	Total	Number	0	0	6	5	1	2	3	1	0	0	0	18
		Rate	0.0	0.0	162.6	189.0	41.6	57.7	93.4	31.0	0.0	0.0	N/A	36.5
Kimberley	Aboriginal	Number	0	10	148	122	100	63	40	24	4	6	0	517
		Rate	0.0	503.5	9,912.9	8,327.6	5,941.8	3,783.8	3,014.3	2,056.6	368.7	171.3	N/A	2,450.9
	non-Aboriginal	Number	0	0	2	5	2	0	3	0	0	2	0	14
		Rate	0.0	0.0	505.1	1,037.3	361.0	0.0	236.8	0.0	0.0	35.2	N/A	159.3
	Total	Number	0	10	151	128	103	63	43	24	4	8	0	534
		Rate	0.0	344.5	7,985.2	6,567.5	4,598.2	1,986.8	1,656.4	1,117.8	170.9	87.1	N/A	1,628.6
Metropolitan	Aboriginal	Number	0	4	75	64	30	33	17	6	3	0	0	232
		Rate	0.0	83.1	1,664.8	1,421.9	659.5	838.2	653.6	286.1	129.9	0.0	N/A	409.5
	non-Aboriginal	Number	1	4	143	363	370	335	273	168	90	150	0	1,897
		Rate	0.4	3.0	124.5	277.0	262.6	195.9	167.4	133.2	60.4	21.5	N/A	95.5
	Total	Number	1	8	223	436	406	369	293	178	94	151	0	2,159
		Rate	0.4	5.8	186.9	321.6	279.2	210.9	176.8	138.7	62.2	21.4	N/A	109.2
Midwest	Aboriginal	Number	0	3	12	17	7	5	5	1	0	5	0	55
		Rate	0.0	264.8	1,260.5	2,068.1	969.5	756.4	1,052.6	229.9	0.0	251.6	N/A	533.3
	non-Aboriginal	Number	0	0	2	4	1	2	0	3	0	4	0	16
		Rate	0.0	0.0	73.4	286.5	47.2	61.7	0.0	120.6	0.0	18.0	N/A	48.0
	Total	Number	0	3	14	21	8	7	5	4	0	9	0	71
		Rate	0.0	71.0	380.4	945.1	281.6	179.4	139.7	136.8	0.0	37.2	N/A	141.1
Pilbara	Aboriginal	Number	0	5	59	68	25	24	17	12	8	2	0	220
		Rate	0.0	426.3	6,217.1	8,900.5	2,240.1	1,885.3	1,617.5	1,501.9	1,000.0	84.1	N/A	1,690.3
	non-Aboriginal	Number	0	0	4	4	8	0	2	0	0	1	0	19
		Rate	0.0	0.0	253.6	2,127.7	268.0	0.0	33.6	0.0	0.0	10.0	N/A	184.6
	Total	Number	0	5	63	73	33	24	19	12	8	3	0	240
		Rate	0.0	136.3	2,492.1	9,383.0	804.3	289.2	271.1	242.0	156.4	24.1	N/A	701.5
South West	Aboriginal	Number	0	0	2	3	1	1	1	1	0	0	0	9
		Rate	0.0	0.0	287.4	502.5	219.3	307.7	374.5	421.9	0.0	0.0	N/A	153.8
	non-Aboriginal	Number	0	0	1	16	4	12	4	2	3	7	0	49
		Rate	0.0	0.0	8.1	247.0	52.6	122.5	35.7	20.3	22.5	9.6	N/A	39.7
	Total	Number	0	0	3	19	6	13	5	3	3	7	0	59
		Rate	0.0	0.0	23.1	268.5	74.5	128.4	43.6	29.7	21.9	9.5	N/A	40.9
Wheatbelt	Aboriginal	Number	0	0	3	3	1	2	0	0	0	1	0	10
		Rate	0.0	0.0	483.9	815.2	339.0	680.3	0.0	0.0	0.0	95.1	N/A	195.0
	non-Aboriginal	Number	0	0	1	3	3	3	4	0	2	3	0	19
		Rate	0.0	0.0	31.7	121.9	98.0	91.0	97.3	0.0	42.4	8.9	N/A	37.4
	Total	Number	0	0	4	6	4	6	4	0	2	4	0	30
		Rate	0.0	0.0	105.9	211.9	119.2	166.8	93.1	0.0	40.3	11.5	N/A	56.1
WA (Total)	**Aboriginal**	**Number**	**0**	**24**	**337**	**310**	**192**	**153**	**98**	**47**	**17**	**17**	**0**	**1,195**
		Rate	**0.0**	**205.7**	**3,276.3**	**3,256.0**	**1,987.6**	**1,689.1**	**1,486.4**	**852.1**	**286.8**	**89.9**	**N/A**	**953.2**
	non-Aboriginal	**Number**	**1**	**4**	**163**	**411**	**393**	**357**	**289**	**175**	**97**	**169**	**0**	**2,059**
		Rate	**0.3**	**2.5**	**115.7**	**282.0**	**242.0**	**176.0**	**148.1**	**115.1**	**52.8**	**19.1**	**N/A**	**88.1**
	Total	**Number**	**1**	**28**	**506**	**733**	**593**	**513**	**390**	**226**	**115**	**187**	**0**	**3,292**
		Rate	**0.3**	**16.1**	**334.7**	**472.2**	**344.7**	**242.1**	**193.4**	**143.4**	**60.7**	**20.7**	**N/A**	**137.3**

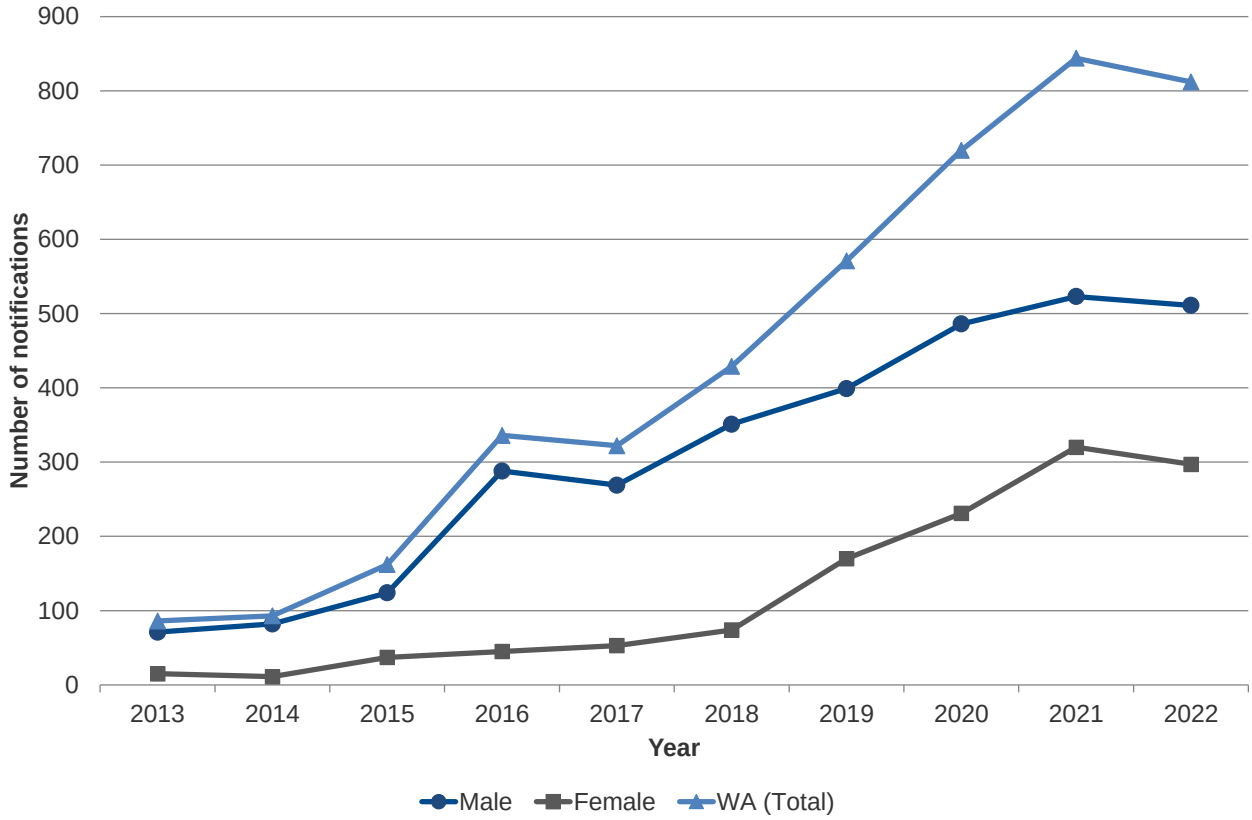
Notes: Number = Number of notifications reported to the DoH
Rate (Age group) = Age-specific rate
Rate (WA Total) = Age-standardised notification rate per 100,000 population
N/A = Not applicable
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Calculations by Aboriginality are 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, 2013 to 2022



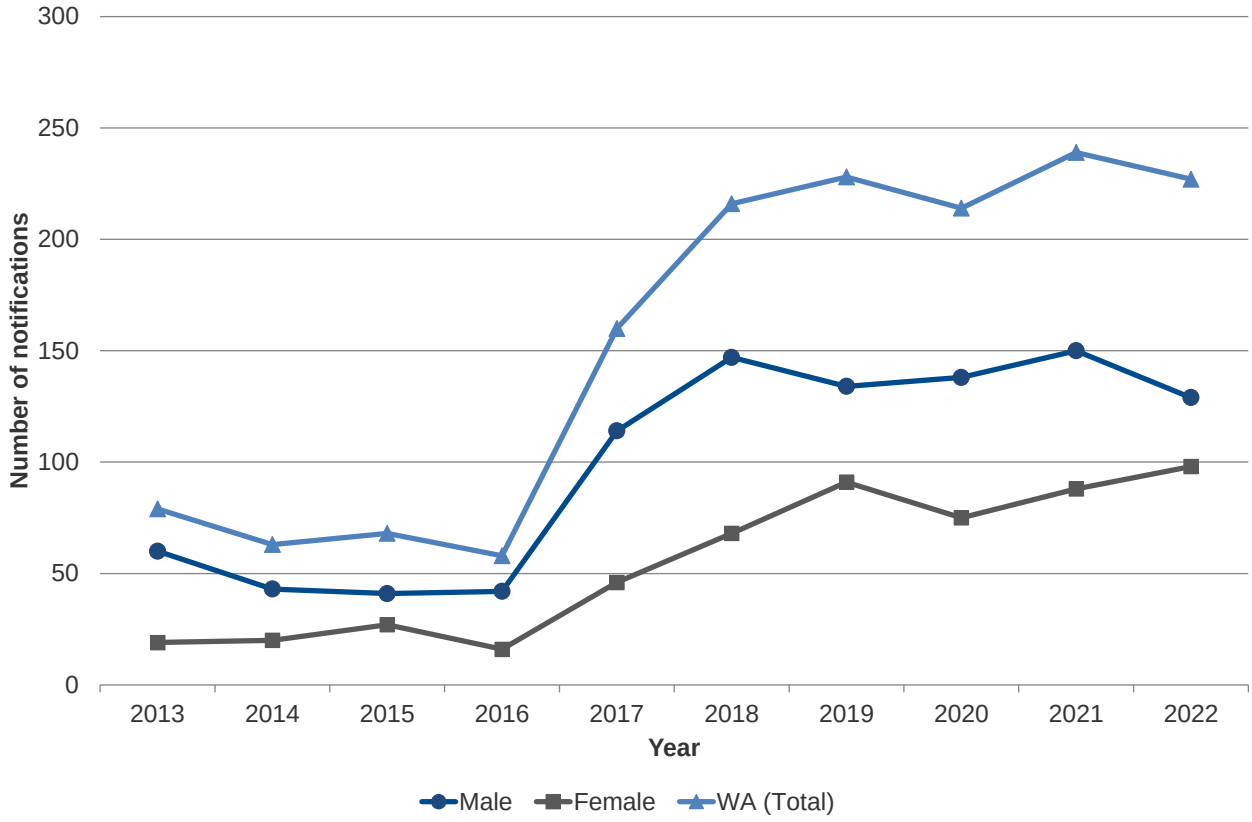
Notes: Infectious syphilis = Primary syphilis + Secondary syphilis + Early latent syphilis (less than two years duration)
Non-infectious syphilis = More than two years or unknown duration
Total syphilis = Infectious syphilis + Non-infectious syphilis
In addition to the number of notifications above, two cases of congenital syphilis were notified to the DoH in 2013, one case each was notified in 2018 and 2019, and four cases each were notified in 2020, 2021 and 2022
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, 2013 to 2022



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, 2013 to 2022



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, 2022

Region	Disease stage	Sex						Rate ratio (Male:Female)
		Male		Female		Total		
		Number	ASR	Number	ASR	Number	ASR	
Goldfields	Infectious	6	29.3	16	73.7	22	50.7	0.4
	Non-infectious	11	43.7	6	24.7	17	34.2	1.8
	Total syphilis	17	73.0	22	98.4	39	84.9	0.7
Great Southern	Infectious	4	15.9	3	14.4	7	14.8	1.1
	Non-infectious	4	13.1	2	12.5	6	11.7	1.0
	Total syphilis	8	29.0	5	26.9	13	26.5	1.1
Kimberley	Infectious	62	433.4	56	350.1	118	384.7	1.2
	Non-infectious	8	50.3	7	41.8	15	47.1	1.2
	Total syphilis	70	483.7	63	391.9	133	431.8	1.2
Metropolitan	Infectious	371	35.7	147	14.4	522	25.0	2.5
	Non-infectious	74	6.8	60	5.5	134	6.1	1.2
	Total syphilis	445	42.5	207	19.9	656	31.2	2.1
Midwest	Infectious	11	46.4	17	79.7	28	62.9	0.6
	Non-infectious	10	33.8	6	25.5	16	29.6	1.3
	Total syphilis	21	80.2	23	105.2	44	92.5	0.8
Pilbara	Infectious	47	359.7	47	251.3	94	271.0	1.4
	Non-infectious	9	91.3	11	53.7	20	55.0	1.7
	Total syphilis	56	450.9	58	305.1	114	326.0	1.5
South West	Infectious	6	10.4	6	9.6	12	9.9	1.1
	Non-infectious	7	8.3	4	4.3	11	6.4	2.0
	Total syphilis	13	18.7	10	13.9	23	16.4	1.3
Wheatbelt	Infectious	2	5.6	3	16.0	5	9.8	0.3
	Non-infectious	4	13.5	1	5.8	5	9.3	2.3
	Total syphilis	6	19.1	4	21.8	10	19.1	0.9
WA (Total)	**Infectious**	**511**	**40.8**	**297**	**24.7**	**812**	**32.7**	**1.7**
	Non-infectious	**129**	**9.6**	**98**	**7.4**	**227**	**8.5**	**1.3**
	Total syphilis	**640**	**50.4**	**395**	**32.1**	**1,039**	**41.2**	**1.6**

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)
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
WA (Total) includes four infectious syphilis notifications among transgender people
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, 2013 to 2022

Region	Rate	Year									
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Goldfields	Number	2	4	9	5	5	9	31	27	29	22
	Crude	3.3	6.7	15.4	8.8	8.9	16.3	57.7	51.3	56.0	43.5
	ASR	3.2	6.7	15.4	9.6	8.7	15.7	59.3	56.7	62.0	50.7
Great Southern	Number	0	0	0	1	2	2	7	6	6	7
	Crude	0.0	0.0	0.0	1.7	3.3	3.3	11.5	9.8	9.8	11.4
	ASR	0.0	0.0	0.0	2.3	4.6	4.7	15.9	12.3	12.2	14.8
Kimberley	Number	0	11	36	44	58	46	89	100	148	118
	Crude	0.0	29.2	97.1	120.9	160.5	127.7	251.1	284.9	425.1	342.8
	ASR	0.0	32.8	95.6	119.7	167.0	130.4	259.3	294.1	468.9	384.7
Metropolitan	Number	71	75	114	263	241	310	332	465	477	522
	Crude	3.6	3.8	5.7	13.0	11.8	15.0	15.9	22.1	22.4	24.3
	ASR	3.6	3.7	5.5	13.0	11.7	15.2	16.0	22.6	23.2	25.0
Midwest	Number	3	1	0	6	3	4	9	13	12	28
	Crude	4.5	1.5	0.0	9.2	4.7	6.3	14.5	21.2	19.9	47.2
	ASR	5.1	1.6	0.0	10.4	5.0	5.3	17.6	27.3	26.9	62.9
Pilbara	Number	2	0	2	2	1	45	88	80	146	94
	Crude	3.1	0.0	3.2	3.2	1.6	73.0	145.8	133.3	244.5	159.1
	ASR	1.9	0.0	2.6	2.4	1.6	90.6	202.6	162.3	411.4	271.0
South West	Number	1	0	1	8	8	7	3	18	16	12
	Crude	0.6	0.0	0.6	4.6	4.5	3.9	1.7	9.9	8.8	6.5
	ASR	0.6	0.0	0.7	4.6	5.3	4.3	1.9	13.5	11.7	9.9
Wheatbelt	Number	5	2	0	5	3	4	7	5	6	5
	Crude	6.4	2.5	0.0	6.5	3.9	5.2	9.2	6.6	8.0	6.7
	ASR	7.4	2.2	0.0	8.3	4.5	6.3	12.6	9.4	12.0	9.8
WA (Total)	**Number**	**86**	**93**	**162**	**336**	**322**	**429**	**571**	**720**	**844**	**812**
	Crude	**3.5**	**3.7**	**6.4**	**13.1**	**12.5**	**16.5**	**21.8**	**27.4**	**31.8**	**30.4**
	ASR	**3.4**	**3.7**	**6.3**	**13.3**	**12.8**	**17.0**	**22.8**	**28.8**	**34.3**	**32.7**

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, 2013 to 2022

Region	Rate	Year									
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Goldfields	Number	2	3	3	4	8	17	38	12	22	17
	Crude	3.3	5.0	5.1	7.1	14.3	30.8	70.8	22.8	42.5	33.6
	ASR	3.0	4.8	6.0	7.2	15.1	28.1	70.4	22.4	41.2	34.2
Great Southern	Number	1	0	0	0	0	1	3	0	1	6
	Crude	1.7	0.0	0.0	0.0	0.0	1.6	4.9	0.0	1.6	9.8
	ASR	1.1	0.0	0.0	0.0	0.0	2.2	5.4	0.0	2.4	11.7
Kimberley	Number	4	2	0	1	4	2	5	1	8	15
	Crude	10.3	5.3	0.0	2.7	11.1	5.6	14.1	2.8	23.0	43.6
	ASR	10.5	5.9	0.0	2.8	18.0	5.9	14.3	2.4	22.9	47.1
Metropolitan	Number	67	51	59	48	137	164	153	178	159	134
	Crude	3.4	2.6	2.9	2.4	6.7	7.9	7.3	8.5	7.5	6.2
	ASR	3.3	2.4	2.9	2.3	6.7	7.8	7.1	8.3	7.4	6.1
Midwest	Number	2	2	1	0	1	10	7	5	13	16
	Crude	3.0	3.0	1.5	0.0	1.6	15.8	11.2	8.2	21.5	26.9
	ASR	3.3	2.7	1.8	0.0	1.8	16.8	11.3	8.2	22.7	29.6
Pilbara	Number	3	3	1	2	4	12	9	8	21	20
	Crude	4.6	4.7	1.6	3.2	6.5	19.5	14.9	13.3	35.2	33.8
	ASR	3.8	4.4	1.4	16.9	5.0	23.7	26.8	20.5	44.1	55.0
South West	Number	0	1	3	2	4	6	5	6	6	11
	Crude	0.0	0.6	1.7	1.1	2.3	3.4	2.8	3.3	3.3	6.0
	ASR	0.0	0.7	2.0	1.3	2.5	3.8	3.4	4.0	4.0	6.4
Wheatbelt	Number	0	0	0	0	0	1	4	2	8	5
	Crude	0.0	0.0	0.0	0.0	0.0	1.3	5.3	2.7	10.7	6.7
	ASR	0.0	0.0	0.0	0.0	0.0	0.8	7.1	2.8	14.4	9.3
WA (Total)	**Number**	**79**	**63**	**68**	**58**	**160**	**216**	**228**	**214**	**239**	**227**
	Crude	**3.2**	**2.5**	**2.7**	**2.3**	**6.2**	**8.3**	**8.7**	**8.1**	**9.0**	**8.5**
	ASR	**3.1**	**2.4**	**2.7**	**2.2**	**6.2**	**8.2**	**8.5**	**8.1**	**9.0**	**8.5**

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, 2013 to 2022

Region	Rate	Year									
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Goldfields	Number	4	7	12	9	13	26	69	39	51	39
	Crude	6.5	11.7	20.5	15.9	23.2	47.1	128.5	74.0	98.5	77.2
	ASR	6.3	11.5	21.4	16.8	23.8	43.8	129.7	79.0	103.1	84.9
Great Southern	Number	1	0	0	1	2	3	10	6	7	13
	Crude	1.7	0.0	0.0	1.7	3.3	4.9	16.4	9.8	11.4	21.1
	ASR	1.1	0.0	0.0	2.3	4.6	7.0	21.3	12.3	14.5	26.5
Kimberley	Number	4	13	36	45	62	48	94	101	156	133
	Crude	10.3	34.5	97.1	123.6	171.6	133.3	265.2	287.7	448.0	386.4
	ASR	10.5	38.7	95.6	122.5	185.0	136.4	273.5	296.4	491.8	431.8
Metropolitan	Number	138	126	173	311	378	474	485	643	636	656
	Crude	7.1	6.4	8.6	15.4	18.5	23.0	23.3	30.5	29.9	30.5
	ASR	6.9	6.1	8.4	15.3	18.3	23.0	23.1	30.9	30.6	31.2
Midwest	Number	5	3	1	6	4	14	16	18	25	44
	Crude	7.5	4.5	1.5	9.2	6.2	22.2	25.7	29.4	41.4	74.1
	ASR	8.4	4.2	1.8	10.4	6.8	22.1	28.9	35.5	49.6	92.5
Pilbara	Number	5	3	3	4	5	57	97	88	167	114
	Crude	7.7	4.7	4.8	6.5	8.1	92.5	160.8	146.7	279.6	192.9
	ASR	5.8	4.4	4.0	19.3	6.5	114.3	229.4	182.8	455.5	326.0
South West	Number	1	1	4	10	12	13	8	24	22	23
	Crude	0.6	0.6	2.3	5.7	6.8	7.3	4.4	13.3	12.1	12.5
	ASR	0.6	0.7	2.6	6.0	7.8	8.1	5.3	17.6	15.7	16.4
Wheatbelt	Number	5	2	0	5	3	5	11	7	14	10
	Crude	6.4	2.5	0.0	6.5	3.9	6.5	14.5	9.3	18.7	13.5
	ASR	7.4	2.2	0.0	8.3	4.5	7.0	19.7	12.2	26.5	19.1
WA (Total)	**Number**	**165**	**156**	**230**	**394**	**482**	**645**	**799**	**934**	**1,083**	**1,039**
	Crude	**6.6**	**6.2**	**9.1**	**15.4**	**18.7**	**24.9**	**30.6**	**35.5**	**40.8**	**38.9**
	ASR	**6.4**	**6.1**	**9.0**	**15.6**	**19.0**	**25.2**	**31.3**	**36.9**	**43.3**	**41.2**

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, two cases of congenital syphilis were notified to the DoH in 2013, one case each was notified in 2018 and 2019, and four cases each were notified in 2020, 2021 and 2022
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, 2022

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	2	34.6	0	0.0	0	N/A	2	2.2	N/A
	Female	3	51.0	0	0.0	0	0.0%	3	3.5	N/A
	Total	5	42.8	0	0.0	0	0.0%	5	2.9	N/A
15–19	Male	23	448.7	3	4.2	0	0.0%	26	33.9	107.0
	Female	38	736.4	4	5.8	0	0.0%	42	56.3	127.7
	Total	61	593.0	7	5.0	0	0.0%	68	45.0	119.3
20–24	Male	29	586.6	31	41.3	0	0.0%	60	74.9	14.2
	Female	46	1,005.0	20	28.3	0	0.0%	66	87.8	35.5
	Total	75	787.7	52	35.7	0	0.0%	127	81.8	22.1
25–29	Male	22	431.9	62	77.8	0	0.0%	84	99.1	5.6
	Female	37	810.3	22	26.6	1	1.7%	60	68.7	30.5
	Total	59	610.8	85	52.3	1	0.7%	145	84.3	11.7
30–34	Male	20	424.1	77	78.7	0	0.0%	97	94.5	5.4
	Female	25	575.8	18	17.2	0	0.0%	43	39.4	33.5
	Total	45	496.8	96	47.3	0	0.0%	141	66.5	10.5
35–39	Male	23	710.8	62	63.4	0	0.0%	85	84.1	11.2
	Female	21	625.6	20	20.6	0	0.0%	41	40.7	30.4
	Total	44	667.4	82	42.0	0	0.0%	126	62.5	15.9
40–44	Male	17	597.3	35	46.0	0	0.0%	52	65.9	13.0
	Female	9	337.1	10	13.2	0	0.0%	19	24.2	25.6
	Total	26	471.4	45	29.6	0	0.0%	71	45.1	15.9
45–49	Male	11	376.6	24	26.2	0	0.0%	35	37.1	14.4
	Female	7	232.8	6	6.5	0	0.0%	13	13.7	35.7
	Total	18	303.6	30	16.3	0	0.0%	48	25.3	18.6
50+	Male	11	128.5	59	13.8	0	0.0%	70	16.0	9.3
	Female	5	48.3	5	1.1	0	0.0%	10	2.1	44.0
	Total	16	84.6	65	7.4	0	0.0%	81	9.0	11.5
WA (Total)	**Male**	**158**	**299.7**	**353**	**28.8**	**0**	**0.0%**	**511**	**40.8**	**10.4**
	Female	**191**	**328.4**	**105**	**8.9**	**1**	**0.3%**	**297**	**24.7**	**37.0**
	Total	**349**	**311.7**	**462**	**18.8**	**1**	**0.1%**	**812**	**32.7**	**16.6**

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)
WA (Total) includes four notifications among transgender people
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, 2022

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	3	58.5	0	0.0	0	N/A	3	3.9	N/A
	Female	4	77.5	0	0.0	0	0.0%	4	5.4	N/A
	Total	7	68.1	0	0.0	0	0.0%	7	4.6	N/A
20–24	Male	1	20.2	3	4.0	0	0.0%	4	5.0	5.1
	Female	1	21.8	8	11.3	0	0.0%	9	12.0	1.9
	Total	2	21.0	11	7.5	0	0.0%	13	8.4	2.8
25–29	Male	1	19.6	12	15.1	1	7.1%	14	16.5	1.3
	Female	2	43.8	6	7.3	1	11.1%	9	10.3	6.0
	Total	3	31.1	18	11.1	2	8.7%	23	13.4	2.8
30–34	Male	4	84.8	13	13.3	0	0.0%	17	16.6	6.4
	Female	4	92.1	10	9.5	0	0.0%	14	12.8	9.7
	Total	8	88.3	23	11.3	0	0.0%	31	14.6	7.8
35–39	Male	3	92.7	9	9.2	1	7.7%	13	12.9	10.1
	Female	4	119.2	7	7.2	0	0.0%	11	10.9	16.6
	Total	7	106.2	16	8.2	1	4.2%	24	11.9	12.9
40–44	Male	2	70.3	9	11.8	0	0.0%	11	13.9	5.9
	Female	3	112.4	6	7.9	0	0.0%	9	11.4	14.2
	Total	5	90.6	15	9.9	0	0.0%	20	12.7	9.2
45–49	Male	7	239.6	10	10.9	0	0.0%	17	18.0	21.9
	Female	4	133.0	3	3.3	2	22.2%	9	9.5	40.9
	Total	11	185.6	13	7.1	2	7.7%	26	13.7	26.2
50+	Male	13	151.9	36	8.4	1	2.0%	50	11.5	18.1
	Female	15	144.8	18	3.9	0	0.0%	33	7.1	36.7
	Total	28	148.0	54	6.1	1	1.2%	83	9.2	24.2
WA (Total)	**Male**	**34**	**86.1**	**92**	**7.1**	**3**	**2.3%**	**129**	**9.6**	**12.0**
	Female	**37**	**85.5**	**58**	**4.5**	**3**	**3.1%**	**98**	**7.4**	**18.9**
	Total	**71**	**85.6**	**150**	**5.8**	**6**	**2.6%**	**227**	**8.5**	**14.8**

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)
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, 2022

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	2	34.6	0	0.0	0	0.0%	2	2.2	N/A
	Female	3	51.0	0	0.0	0	0.0%	3	3.5	N/A
	Total	5	42.8	0	0.0	0	0.0%	5	2.9	N/A
15–19	Male	26	507.2	3	4.2	0	0.0%	29	37.8	120.9
	Female	42	814.0	4	5.8	0	0.0%	46	61.7	141.1
	Total	68	661.1	7	5.0	0	0.0%	75	49.6	133.0
20–24	Male	30	606.8	34	45.2	0	0.0%	64	79.9	13.4
	Female	47	1,026.9	28	39.7	0	0.0%	75	99.8	25.9
	Total	77	808.7	63	43.2	0	0.0%	140	90.2	18.7
25–29	Male	23	451.5	74	92.9	1	1.0%	98	115.7	4.9
	Female	39	854.1	28	33.9	2	2.9%	69	79.1	25.2
	Total	62	641.8	103	63.4	3	1.8%	168	97.7	10.1
30–34	Male	24	508.9	90	91.9	0	0.0%	114	111.1	5.5
	Female	29	667.9	28	26.7	0	0.0%	57	52.2	25.0
	Total	53	585.1	119	58.7	0	0.0%	172	81.2	10.0
35–39	Male	26	803.5	71	72.6	1	1.0%	98	97.0	11.1
	Female	25	744.7	27	27.8	0	0.0%	52	51.7	26.8
	Total	51	773.5	98	50.2	1	0.7%	150	74.4	15.4
40–44	Male	19	667.6	44	57.9	0	0.0%	63	79.8	11.5
	Female	12	449.4	16	21.1	0	0.0%	28	35.6	21.3
	Total	31	562.0	60	39.5	0	0.0%	91	57.8	14.2
45–49	Male	18	616.2	34	37.1	0	0.0%	52	55.0	16.6
	Female	11	365.8	9	9.8	2	9.1%	22	23.1	37.4
	Total	29	489.2	43	23.4	2	2.7%	74	39.0	20.9
50+	Male	24	280.4	95	22.2	1	0.8%	120	27.5	12.6
	Female	20	193.0	23	5.0	0	0.0%	43	9.2	38.3
	Total	44	232.6	119	13.5	1	0.6%	164	18.2	17.3
WA (Total)	**Male**	**192**	**385.8**	**445**	**36.0**	**3**	**0.5%**	**640**	**50.4**	**10.7**
	Female	**228**	**414.0**	**163**	**13.4**	**4**	**1.0%**	**395**	**32.1**	**30.9**
	Total	**420**	**397.2**	**612**	**24.6**	**7**	**0.7%**	**1,039**	**41.2**	**16.1**

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)
WA (Total) includes four notifications among transgender people
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, 2022

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	3	6	5	2	4	0	1	0	0	21
		Rate	0.0	0.0	431.0	811.9	863.6	299.4	833.3	0.0	220.8	0.0	N/A	249.2
	non-Aboriginal	Number	0	0	0	0	1	0	0	0	0	0	0	1
		Rate	0.0	0.0	0.0	0.0	32.9	0.0	0.0	0.0	0.0	0.0	N/A	2.4
	Total	Number	0	0	3	6	6	2	4	0	1	0	0	22
		Rate	0.0	0.0	92.5	281.6	165.5	46.2	104.5	0.0	26.8	0.0	N/A	50.7
Great	Aboriginal	Number	0	0	1	0	0	1	1	0	0	1	0	4
Southern		Rate	0.0	0.0	280.9	0.0	0.0	476.2	543.5	0.0	0.0	160.3	N/A	143.3
	non-Aboriginal	Number	0	0	0	1	1	0	0	0	0	1	0	3
		Rate	0.0	0.0	0.0	41.7	46.4	0.0	0.0	0.0	0.0	3.8	N/A	7.2
	Total	Number	0	0	1	1	1	1	1	0	0	2	0	7
		Rate	0.0	0.0	27.1	37.8	41.6	28.9	31.1	0.0	0.0	7.3	N/A	14.1
Kimberley	Aboriginal	Number	0	3	26	30	11	7	12	10	5	9	0	113
		Rate	0.0	151.1	1,741.5	2,047.8	653.6	420.4	904.3	856.9	460.8	256.9	N/A	589.1
	non-Aboriginal	Number	0	0	1	0	0	0	1	1	1	1	0	5
		Rate	0.0	0.0	252.5	0.0	0.0	0.0	78.9	102.2	79.8	17.6	N/A	42.1
	Total	Number	0	3	27	30	11	7	13	11	6	10	0	118
		Rate	0.0	103.3	1,427.8	1,539.3	491.1	220.8	500.8	512.3	256.3	108.9	N/A	388.9
Metropolitan	Aboriginal	Number	0	0	6	16	23	19	9	8	7	3	0	91
		Rate	0.0	0.0	133.2	355.5	505.6	482.6	346.0	381.5	303.0	43.8	N/A	195.7
	non-Aboriginal	Number	0	0	5	47	77	90	78	43	28	62	0	430
		Rate	0.0	0.0	4.4	35.9	54.7	52.6	47.8	34.1	18.8	8.9	N/A	20.8
	Total	Number	0	0	11	63	101	109	87	51	35	65	0	522
		Rate	0.0	0.0	9.2	46.5	69.4	62.3	52.5	39.7	23.1	9.2	N/A	24.8
Midwest	Aboriginal	Number	0	0	8	3	4	3	1	1	0	1	0	21
		Rate	0.0	0.0	840.3	365.0	554.0	453.9	210.5	229.9	0.0	50.3	N/A	205.6
	non-Aboriginal	Number	0	0	0	1	2	2	1	1	0	0	0	7
		Rate	0.0	0.0	0.0	71.6	94.4	61.7	32.2	40.2	0.0	0.0	N/A	21.9
	Total	Number	0	0	8	4	6	5	2	2	0	1	0	28
		Rate	0.0	0.0	217.4	180.0	211.2	128.1	55.9	68.4	0.0	4.1	N/A	62.9
Pilbara	Aboriginal	Number	0	2	17	16	14	12	15	6	5	2	0	89
		Rate	0.0	170.5	1,791.4	2,094.2	1,254.5	942.7	1,427.2	750.9	625.0	84.1	N/A	674.2
	non-Aboriginal	Number	0	0	0	0	1	1	2	0	1	0	0	5
		Rate	0.0	0.0	0.0	0.0	33.5	14.2	33.6	0.0	23.2	0.0	N/A	7.7
	Total	Number	0	2	17	16	15	13	17	6	6	2	0	94
		Rate	0.0	54.5	672.5	2,056.6	365.6	156.6	242.6	121.0	117.3	16.1	N/A	267.7
South West	Aboriginal	Number	0	0	0	1	1	1	1	0	0	0	0	4
		Rate	0.0	0.0	0.0	167.5	219.3	307.7	374.5	0.0	0.0	0.0	N/A	79.2
	non-Aboriginal	Number	0	0	1	3	2	2	0	0	0	0	0	8
		Rate	0.0	0.0	8.1	46.3	26.3	20.4	0.0	0.0	0.0	0.0	N/A	7.1
	Total	Number	0	0	1	4	3	3	1	0	0	0	0	12
		Rate	0.0	0.0	7.7	56.5	37.2	29.6	8.7	0.0	0.0	0.0	N/A	9.9
Wheatbelt	Aboriginal	Number	0	0	0	2	1	0	0	1	0	0	0	4
		Rate	0.0	0.0	0.0	543.5	339.0	0.0	0.0	471.7	0.0	0.0	N/A	97.0
	non-Aboriginal	Number	0	0	0	0	0	0	0	0	0	1	0	1
		Rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	N/A	0.9
	Total	Number	0	0	0	2	1	0	0	1	0	1	0	5
		Rate	0.0	0.0	0.0	70.6	29.8	0.0	0.0	30.6	0.0	2.9	N/A	10.1
WA (Total)	**Aboriginal**	**Number**	**0**	**5**	**61**	**75**	**59**	**45**	**44**	**26**	**18**	**16**	**0**	**349**
		Rate	**0.0**	**42.8**	**593.0**	**787.7**	**610.8**	**496.8**	**667.4**	**471.4**	**303.6**	**84.6**	**N/A**	**311.7**
	non-Aboriginal	**Number**	**0**	**0**	**7**	**52**	**85**	**96**	**82**	**45**	**30**	**65**	**0**	**462**
		Rate	**0.0**	**0.0**	**5.0**	**35.7**	**52.3**	**47.3**	**42.0**	**29.6**	**16.3**	**7.4**	**N/A**	**18.8**
	Total	**Number**	**0**	**5**	**68**	**127**	**145**	**141**	**126**	**71**	**48**	**81**	**0**	**812**
		Rate	**0.0**	**2.9**	**45.0**	**81.8**	**84.3**	**66.5**	**62.5**	**45.1**	**25.3**	**9.0**	**N/A**	**32.7**

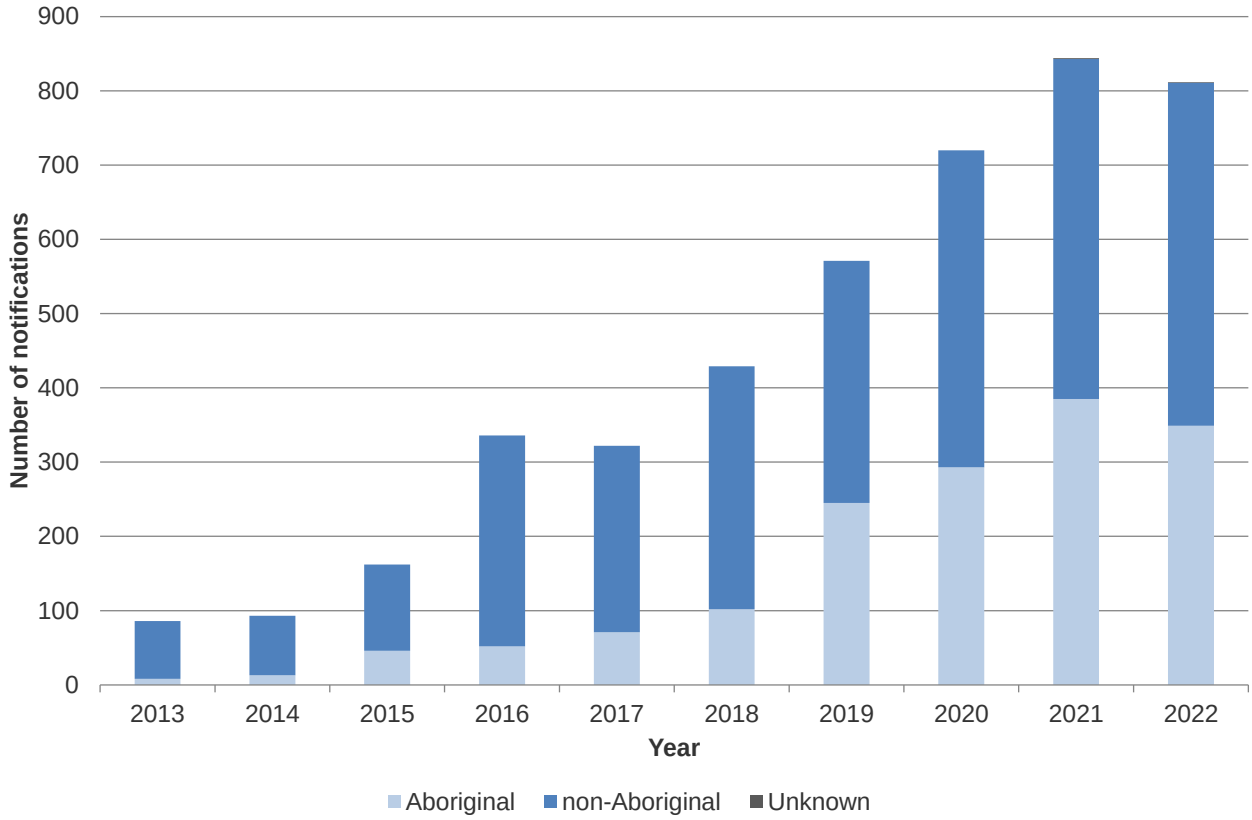
Notes: Number = Number of notifications reported to the DoH
Rate (Age group) = Age-specific rate
Rate (WA Total) = Age-standardised notification rate per 100,000 population
Infectious syphilis = Primary syphilis + Secondary syphilis + Early latent syphilis (less than two years duration)
N/A = Not applicable
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, 2022

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	6	7	6	4	4	1	3	2	0	33
		Rate	0.0	0.0	862.1	947.2	1,036.3	598.8	833.3	251.9	662.3	148.7	N/A	416.2
	non-Aboriginal	Number	0	0	0	0	2	2	0	0	1	0	0	5
		Rate	0.0	0.0	0.0	0.0	65.8	54.6	0.0	0.0	30.6	0.0	N/A	11.0
	Total	Number	0	0	6	7	8	6	4	1	5	2	0	39
		Rate	0.0	0.0	185.0	328.5	220.7	138.5	104.5	38.0	134.2	12.3	N/A	85.2
Great	Aboriginal	Number	0	0	1	0	0	1	1	0	0	2	0	5
Southern		Rate	0.0	0.0	280.9	0.0	0.0	476.2	543.5	0.0	0.0	320.5	N/A	189.2
	non-Aboriginal	Number	0	0	0	3	1	0	0	2	0	2	0	8
		Rate	0.0	0.0	0.0	125.1	46.4	0.0	0.0	65.3	0.0	7.5	N/A	18.9
	Total	Number	0	0	1	3	1	1	1	2	0	4	0	13
		Rate	0.0	0.0	27.1	113.4	41.6	28.9	31.1	62.1	0.0	14.7	N/A	26.0
Kimberley	Aboriginal	Number	0	3	30	30	11	7	16	12	6	13	0	128
		Rate	0.0	151.1	2,009.4	2,047.8	653.6	420.4	1,205.7	1,028.3	553.0	371.1	N/A	683.2
	non-Aboriginal	Number	0	0	1	0	0	0	1	1	1	1	0	5
		Rate	0.0	0.0	252.5	0.0	0.0	0.0	78.9	102.2	79.8	17.6	N/A	42.1
	Total	Number	0	3	31	30	11	7	17	13	7	14	0	133
		Rate	0.0	103.3	1,639.3	1,539.3	491.1	220.8	654.9	605.5	299.0	152.4	N/A	438.1
Metropolitan	Aboriginal	Number	0	0	6	17	23	22	9	8	11	14	0	110
		Rate	0.0	0.0	133.2	377.7	505.6	558.8	346.0	381.5	476.2	204.2	N/A	261.0
	non-Aboriginal	Number	0	0	5	53	90	106	92	54	39	101	0	540
		Rate	0.0	0.0	4.4	40.4	63.9	62.0	56.4	42.8	26.2	14.5	N/A	25.9
	Total	Number	0	0	11	70	116	128	102	62	51	116	0	656
		Rate	0.0	0.0	9.2	51.6	79.8	73.2	61.6	48.3	33.7	16.5	N/A	30.9
Midwest	Aboriginal	Number	0	0	8	3	6	3	3	1	2	3	0	29
		Rate	0.0	0.0	840.3	365.0	831.0	453.9	631.6	229.9	357.1	151.0	N/A	311.9
	non-Aboriginal	Number	0	0	0	2	2	4	2	1	0	4	0	15
		Rate	0.0	0.0	0.0	143.3	94.4	123.5	64.5	40.2	0.0	18.0	N/A	39.0
	Total	Number	0	0	8	5	8	7	5	2	2	7	0	44
		Rate	0.0	0.0	217.4	225.0	281.6	179.4	139.7	68.4	45.5	28.9	N/A	91.6
Pilbara	Aboriginal	Number	0	2	17	16	14	15	16	8	7	9	0	104
		Rate	0.0	170.5	1,791.4	2,094.2	1,254.5	1,178.3	1,522.4	1,001.3	875.0	378.6	N/A	820.3
	non-Aboriginal	Number	0	0	0	0	1	3	2	0	1	3	0	10
		Rate	0.0	0.0	0.0	0.0	33.5	42.7	33.6	0.0	23.2	29.9	N/A	18.4
	Total	Number	0	2	17	16	15	18	18	8	8	12	0	114
		Rate	0.0	54.5	672.5	2,056.6	365.6	216.9	256.8	161.3	156.4	96.6	N/A	302.2
South West	Aboriginal	Number	0	0	0	1	1	1	1	0	0	1	0	5
		Rate	0.0	0.0	0.0	167.5	219.3	307.7	374.5	0.0	0.0	97.1	N/A	107.0
	non-Aboriginal	Number	0	0	1	4	4	3	0	0	1	5	0	18
		Rate	0.0	0.0	8.1	61.7	52.6	30.6	0.0	0.0	7.5	6.9	N/A	13.3
	Total	Number	0	0	1	5	5	4	1	0	1	6	0	23
		Rate	0.0	0.0	7.7	70.7	62.1	39.5	8.7	0.0	7.3	8.1	N/A	16.3
Wheatbelt	Aboriginal	Number	0	0	0	2	1	0	0	1	0	0	0	4
		Rate	0.0	0.0	0.0	543.5	339.0	0.0	0.0	471.7	0.0	0.0	N/A	97.0
	non-Aboriginal	Number	0	0	0	1	1	0	1	1	0	2	0	6
		Rate	0.0	0.0	0.0	40.6	32.7	0.0	24.3	32.8	0.0	6.0	N/A	11.2
	Total	Number	0	0	0	3	2	0	1	2	0	2	0	10
		Rate	0.0	0.0	0.0	106.0	59.6	0.0	23.3	61.3	0.0	5.8	N/A	19.5
WA (Total)	**Aboriginal**	**Number**	**0**	**5**	**68**	**77**	**62**	**53**	**51**	**31**	**29**	**44**	**0**	**420**
		Rate	**0.0**	**42.8**	**661.1**	**808.7**	**641.8**	**585.1**	**773.5**	**562.0**	**489.2**	**232.6**	**N/A**	**397.2**
	non-Aboriginal	**Number**	**0**	**0**	**7**	**63**	**103**	**119**	**98**	**60**	**43**	**119**	**0**	**612**
		Rate	**0.0**	**0.0**	**5.0**	**43.2**	**63.4**	**58.7**	**50.2**	**39.5**	**23.4**	**13.5**	**N/A**	**24.6**
	Total	**Number**	**0**	**5**	**75**	**140**	**168**	**172**	**150**	**91**	**74**	**164**	**0**	**1,039**
		Rate	**0.0**	**2.9**	**49.6**	**90.2**	**97.7**	**81.2**	**74.4**	**57.8**	**39.0**	**18.2**	**N/A**	**41.2**

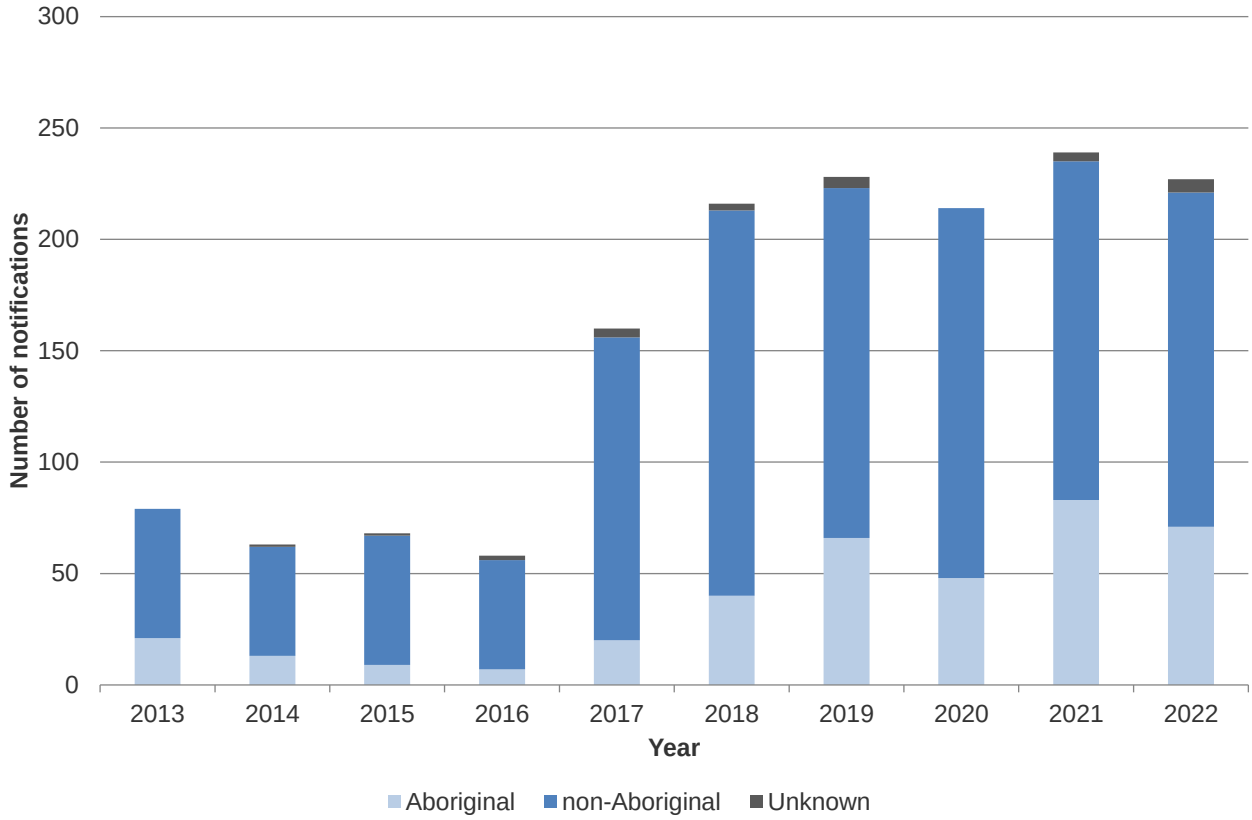
Notes: Number = Number of notifications reported to the DoH
Rate (Age group) = Age-specific rate
Rate (WA Total) = Age-standardised notification rate per 100,000 population
Non-infectious syphilis = More than two years or unknown duration
N/A = Not applicable
Metropolitan = East Metropolitan + North 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, 2013 to 2022



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, 2013 to 2022



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, 2022

Region	Disease stage	Aboriginality						Total		Rate ratio (Aboriginal: non-Aboriginal)
		Aboriginal		non-Aboriginal		Unknown				
		Number	ASR	Number	ASR	Number	%Total	Number	ASR	
Goldfields	Infectious	21	249.2	1	2.4	0	0.0%	22	50.7	104.6
	Non-infectious	12	165.1	4	8.7	1	5.9%	17	34.2	19.1
	Total syphilis	33	414.3	5	11.0	1	2.6%	39	84.9	37.5
Great Southern	Infectious	4	144.9	3	8.1	0	0.0%	7	14.8	17.9
	Non-infectious	1	47.6	5	11.5	0	0.0%	6	11.7	4.1
	Total syphilis	5	192.5	8	19.6	0	0.0%	13	26.5	9.8
Kimberley	Infectious	113	572.8	5	40.0	0	0.0%	118	384.7	14.3
	Non-infectious	15	90.4	0	0.0	0	0.0%	15	47.1	N/A
	Total syphilis	128	663.2	5	40.0	0	0.0%	133	431.8	16.6
Metropolitan	Infectious	91	193.0	430	21.0	1	0.2%	522	25.0	9.2
	Non-infectious	19	55.3	110	5.1	5	3.7%	134	6.1	10.8
	Total syphilis	110	248.3	540	26.1	6	0.9%	656	31.2	9.5
Midwest	Infectious	21	203.5	7	21.9	0	0.0%	28	62.9	9.3
	Non-infectious	8	102.3	8	17.6	0	0.0%	16	29.6	5.8
	Total syphilis	29	305.8	15	39.4	0	0.0%	44	92.5	7.8
Pilbara	Infectious	89	679.7	5	7.7	0	0.0%	94	271.0	88.2
	Non-infectious	15	157.1	5	28.7	0	0.0%	20	55.0	5.5
	Total syphilis	104	836.8	10	36.4	0	0.0%	114	326.0	23.0
South West	Infectious	4	79.2	8	7.1	0	0.0%	12	9.9	11.1
	Non-infectious	1	22.2	10	6.3	0	0.0%	11	6.4	3.5
	Total syphilis	5	101.4	18	13.4	0	0.0%	23	16.4	7.6
Wheatbelt	Infectious	4	97.0	1	0.6	0	0.0%	5	9.8	163.0
	Non-infectious	0	0.0	5	10.1	0	0.0%	5	9.3	0.0
	Total syphilis	4	97.0	6	10.7	0	0.0%	10	19.1	9.0
WA (Total)	**Infectious**	**349**	**311.7**	**462**	**18.8**	**1**	**0.1%**	**812**	**32.7**	**16.6**
	Non-infectious	**71**	**85.6**	**150**	**5.8**	**6**	**2.6%**	**227**	**8.5**	**14.8**
	Total syphilis	**420**	**397.2**	**612**	**24.6**	**7**	**0.7%**	**1,039**	**41.2**	**16.1**

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, 2022

Aboriginality	Disease stage	Sex				Total		Rate ratio (Male:Female)
		Male		Female				
		Number	ASR	Number	ASR	Number	ASR	
Aboriginal	Infectious	158	299.7	191	328.1	349	311.7	0.9
	Non-infectious	34	86.1	37	85.5	71	85.6	1.0
	Total syphilis	192	385.8	228	414.0	420	397.2	0.9
non-Aboriginal	Infectious	353	28.8	105	8.9	462	18.8	3.2
	Non-infectious	92	7.1	58	4.5	150	5.8	1.6
	Total syphilis	445	36.0	163	13.4	612	24.6	2.7
WA (Total)	Infectious	511	40.8	297	24.7	812	32.7	1.7
	Non-infectious	129	9.6	98	7.4	227	8.5	1.3
	Total syphilis	640	50.4	395	32.1	1,039	41.2	1.6
Rate ratio (Aboriginal:non-Aboriginal)	**Infectious**	**N/A**	**10.4**	**N/A**	**36.7**	**N/A**	**16.6**	**0.3**
	Non-infectious	**N/A**	**12.1**	**N/A**	**19.1**	**N/A**	**14.7**	**0.6**
	Total syphilis	**N/A**	**10.7**	**N/A**	**30.8**	**N/A**	**16.1**	**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)
WA (Total) includes four infectious syphilis notifications among transgender people
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, 2022

Where infection acquired	Disease stage	Sex				WA (Total)	
		Male		Female			
		Number	% Total	Number	% Total	Number	% Total
WA	Infectious	441	61.1%	277	38.4%	722	88.9%
	Non-infectious	50	58.8%	35	41.2%	85	37.4%
	Total syphilis	491	60.8%	312	38.7%	807	77.7%
Interstate	Infectious	9	75.0%	3	25.0%	12	1.5%
	Non-infectious	3	33.3%	6	66.7%	9	4.0%
	Total syphilis	12	57.1%	9	42.9%	21	2.0%
Overseas	Infectious	13	92.9%	1	7.1%	14	1.7%
	Non-infectious	14	70.0%	6	30.0%	20	8.8%
	Total syphilis	27	79.4%	7	20.6%	34	3.3%
Unknown	Infectious	48	75.0%	16	25.0%	64	7.9%
	Non-infectious	62	54.9%	51	45.1%	113	49.8%
	Total syphilis	110	62.1%	67	37.9%	177	17.0%
Total	**Infectious**	**511**	**62.9%**	**297**	**36.6%**	**812**	**78.2%**
	Non-infectious	**129**	**56.8%**	**98**	**43.2%**	**227**	**21.8%**
	Total syphilis	**640**	**61.6%**	**395**	**38.0%**	**1,039**	**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
WA (Total) includes four infectious syphilis notifications among transgender people
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, 2022

Notifications	State/Territory								AUS (Total)
	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	
Number	40	1,989	217	1,091	290	33	1,711	805	6,176
Crude rate	8.7	24.1	86.7	20.3	15.8	5.8	25.5	28.5	23.5

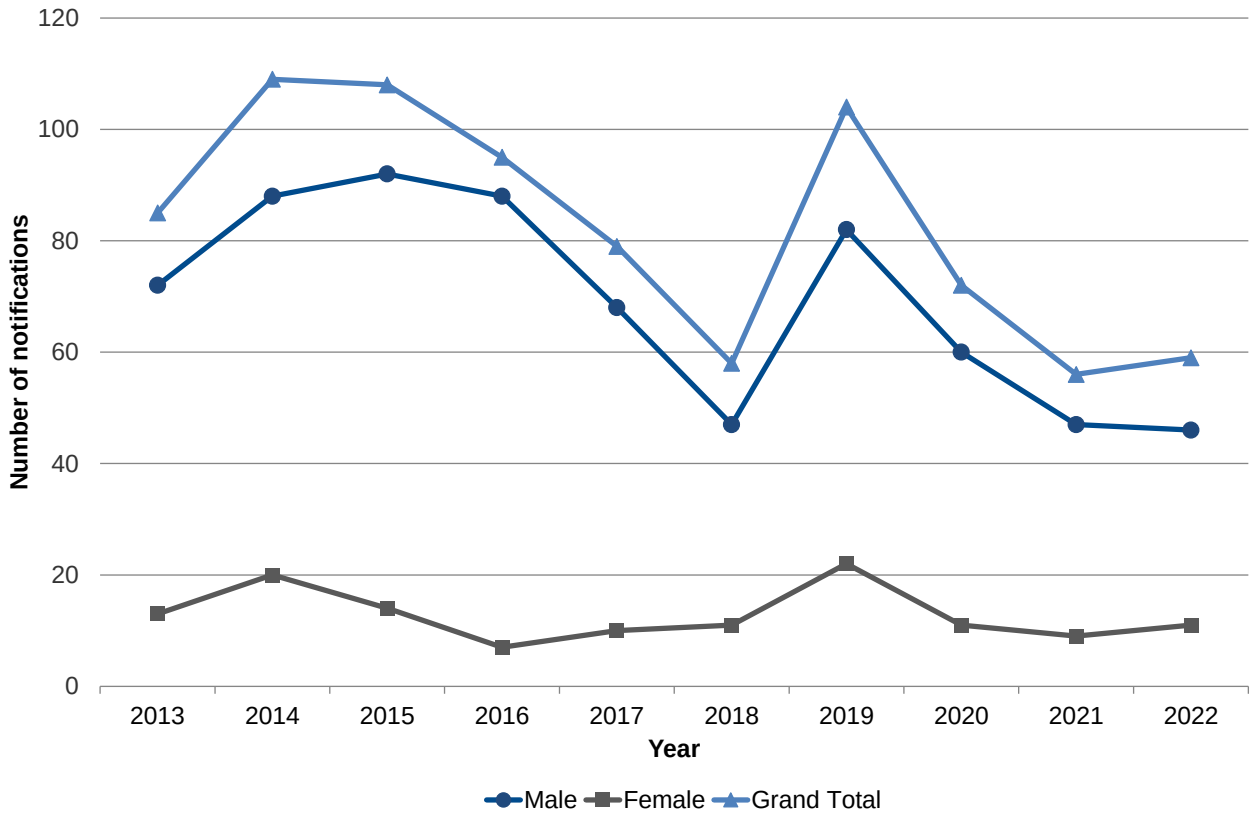
Notes: Number = Number of notifications reported to state and territory health authorities
Crude rate = Crude rate per 100,000 population
Data sourced from NNDSS 12 September 2023; data are provisional and subject to future revision. The follow-up and allocation of cases to infectious syphilis is highly 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, 2022

Notifications	State/Territory								AUS (Total)
	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	
Number	9	917	55	372	69	34	950	230	2,636
Crude rate	2.0	11.1	22.0	6.9	3.8	5.9	14.2	8.1	10.0

Notes: Number = Number of notifications reported to state and territory health authorities
Crude rate = Crude rate per 100,000 population
Data sourced from NNDSS 12 September 2023; 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, 2013 to 2022



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

Table 33 Number and ASR of HIV notifications by sex, WA, 2022

Notifications	Sex			Ratio (Male:Female)
	Male	Female	Total	
Number	48	11	59	4.4
ASR	3.5	0.7	2.1	5.0

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)

Table 34 Number, crude rate and ASR of HIV notifications, WA, 2013 to 2022

Rate	Year									
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Number	85	109	108	95	79	58	104	72	56	59
Crude	3.4	4.3	4.3	3.7	3.1	2.2	3.9	2.8	2.1	2.2
ASR	3.4	4.2	4.3	3.7	3.0	2.2	3.9	2.9	2.1	2.2

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

Figure 11 Number of HIV notifications by Aboriginality, WA, 2013 to 2022

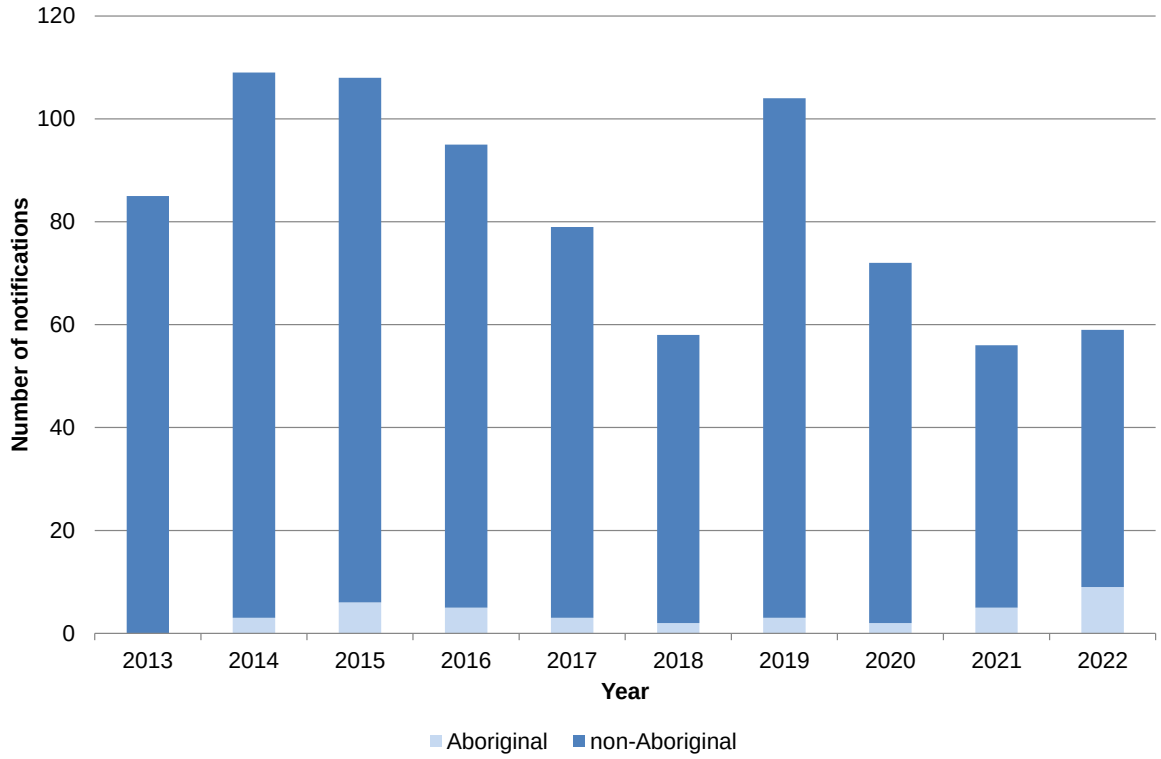
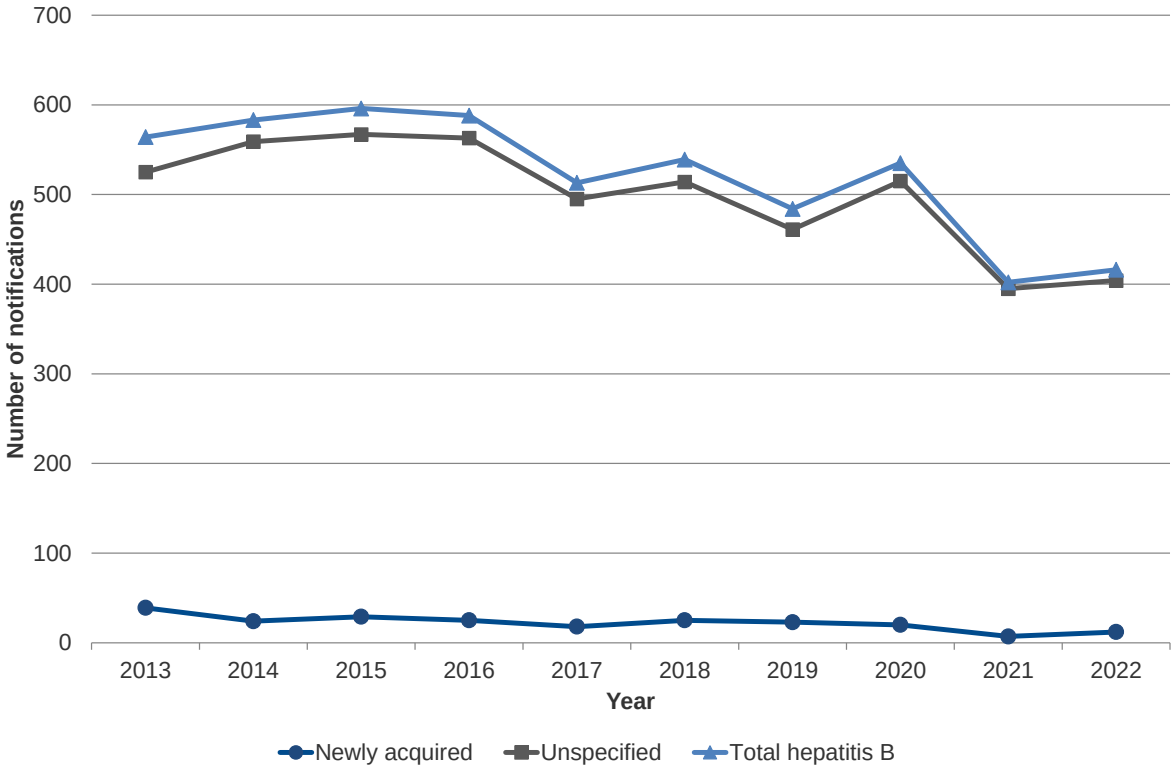


Table 35 Number of HIV notifications by Aboriginality, WA, 2017 to 2022

Year	Aboriginality						Total		Rate ratio (Aboriginal: non-Aboriginal)
	Aboriginal			non-Aboriginal					
	Number	Percent	ASR	Number	Percent	ASR	Number	ASR	
2017	3	3.8%	5.4	76	96.2%	3.6	79	3.7	1.5
2018	2	3.4%	3.3	56	96.6%	3.0	58	3.0	1.1
2019	3	2.9%	1.7	101	97.1%	2.2	104	2.2	0.8
2020	2	2.8%	3.1	70	97.2%	3.9	72	3.9	0.8
2021	5	8.9%	2.7	51	91.1%	2.9	56	2.9	0.9
2022	9	15.3%	6.0	50	84.7%	2.0	59	2.1	3.0

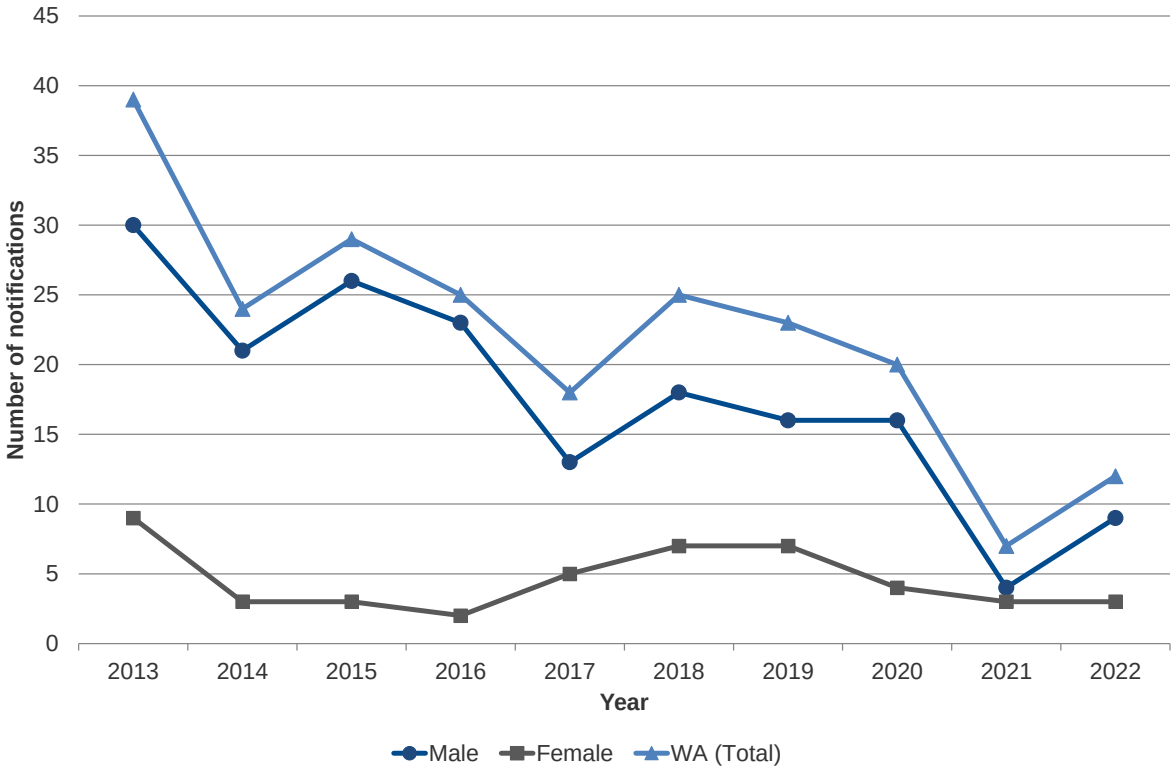
Notes: Number = Number of notifications reported to the DoH
ASR = Age-standardised notification rate per 100,000 population
Rate ratio (Aboriginal:non-Aboriginal) = ASR (Aboriginal) / ASR (non-Aboriginal)

Figure 12 Number of hepatitis B notifications by disease status, WA, 2013 to 2022



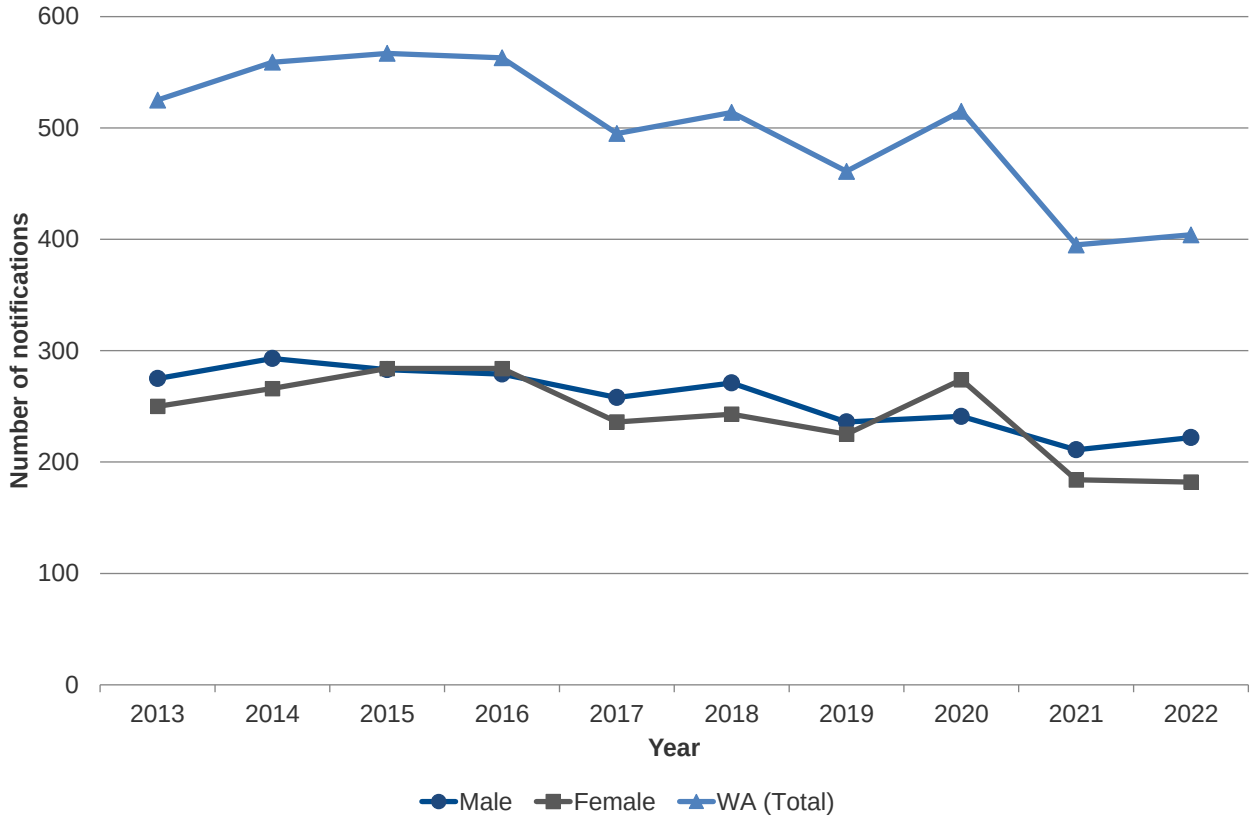
Notes: Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Figure 13 Number of newly acquired hepatitis B notifications by sex, WA, 2013 to 2022



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, 2013 to 2022



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, 2022

Region	Disease stage	Sex						Rate ratio (Male:Female)
		Male		Female		Total		
		Number	ASR	Number	ASR	Number	ASR	
Goldfields	Newly acquired	0	0.0	0	0.0	0	0.0	N/A
	Unspecified	6	23.1	1	2.9	7	13.1	8.0
	Total hepatitis B	6	23.1	1	2.9	7	13.1	8.0
Great Southern	Newly acquired	1	1.9	0	0.0	1	1.0	N/A
	Unspecified	4	15.9	0	0.0	4	8.3	N/A
	Total hepatitis B	5	17.8	0	0.0	5	9.3	N/A
Kimberley	Newly acquired	0	0.0	0	0.0	0	0.0	N/A
	Unspecified	5	40.1	5	29.0	10	35.3	1.4
	Total hepatitis B	5	40.1	5	29.0	10	35.3	1.4
Metropolitan	Newly acquired	4	0.4	2	0.2	6	0.3	1.7
	Unspecified	177	16.9	160	14.5	337	15.7	1.2
	Total hepatitis B	181	17.3	162	14.7	343	16.0	1.2
Midwest	Newly acquired	0	0.0	0	0.0	0	0.0	N/A
	Unspecified	5	21.6	8	31.4	13	26.4	0.7
	Total hepatitis B	5	21.6	8	31.4	13	26.4	0.7
Pilbara	Newly acquired	1	1.5	0	0.0	1	0.9	N/A
	Unspecified	12	54.5	2	9.3	14	28.2	5.8
	Total hepatitis B	13	56.0	2	9.3	15	29.1	6.0
South West	Newly acquired	3	3.1	1	1.1	4	2.1	2.8
	Unspecified	8	10.6	3	3.8	11	7.0	2.8
	Total hepatitis B	11	13.7	4	4.9	15	9.1	2.8
Wheatbelt	Newly acquired	0	0.0	0	0.0	0	0.0	N/A
	Unspecified	2	5.2	2	8.7	4	7.2	0.6
	Total hepatitis B	2	5.2	2	8.7	4	7.2	0.6
WA (Total)	**Newly acquired**	**9**	**0.7**	**3**	**0.3**	**12**	**0.5**	**2.4**
	Unspecified	**222**	**17.1**	**182**	**13.5**	**404**	**15.3**	**1.3**
	Total hepatitis B	**231**	**17.7**	**185**	**13.7**	**416**	**15.7**	**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)
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, 2013 to 2022

Region	Rate	Year									
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Goldfields	Number	2	0	1	0	0	1	2	1	0	0
	Crude	3.3	0.0	1.7	0.0	0.0	1.8	3.7	1.9	0.0	0.0
	ASR	3.3	0.0	1.6	0.0	0.0	1.8	3.6	1.8	0.0	0.0
Great Southern	Number	0	0	0	0	0	0	2	0	0	1
	Crude	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	1.6
	ASR	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	1.0
Kimberley	Number	1	1	0	0	0	1	0	0	0	0
	Crude	2.6	2.7	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0
	ASR	2.0	2.5	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0
Metropolitan	Number	28	22	24	22	13	20	16	11	7	6
	Crude	1.4	1.1	1.2	1.1	0.6	1.0	0.8	0.5	0.3	0.3
	ASR	1.4	1.1	1.2	1.1	0.6	1.0	0.7	0.5	0.4	0.3
Midwest	Number	0	0	0	0	0	0	0	2	0	0
	Crude	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0
	ASR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0
Pilbara	Number	1	0	1	0	0	1	1	1	0	1
	Crude	1.5	0.0	1.6	0.0	0.0	1.6	1.7	1.7	0.0	1.7
	ASR	1.4	0.0	1.6	0.0	0.0	2.6	2.8	2.8	0.0	0.9
South West	Number	4	1	3	2	5	2	2	3	0	4
	Crude	2.4	0.6	1.7	1.1	2.8	1.1	1.1	1.7	0.0	2.2
	ASR	2.4	0.6	1.9	1.2	2.9	1.0	0.8	1.7	0.0	2.1
Wheatbelt	Number	3	0	0	1	0	0	0	1	0	0
	Crude	3.8	0.0	0.0	1.3	0.0	0.0	0.0	1.3	0.0	0.0
	ASR	3.6	0.0	0.0	1.7	0.0	0.0	0.0	1.8	0.0	0.0
WA (Total)	**Number**	**39**	**24**	**29**	**25**	**18**	**25**	**23**	**20**	**7**	**12**
	Crude	**1.6**	**1.0**	**1.1**	**1.0**	**0.7**	**1.0**	**0.9**	**0.8**	**0.3**	**0.4**
	ASR	**1.6**	**0.9**	**1.2**	**1.0**	**0.7**	**1.0**	**0.8**	**0.8**	**0.3**	**0.5**

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, 2013 to 2022

Region	Rate	Year									
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Goldfields	Number	11	13	14	15	12	15	14	11	4	7
	Crude	18.0	21.7	23.9	26.5	21.4	27.2	26.1	20.9	7.7	13.8
	ASR	17.3	20.5	23.0	27.3	24.3	26.9	28.9	20.6	8.3	13.1
Great Southern	Number	10	6	3	5	4	4	7	1	6	4
	Crude	16.8	10.0	5.0	8.3	6.6	6.6	11.5	1.6	9.8	6.5
	ASR	18.0	12.8	6.0	9.0	8.6	7.6	12.4	1.1	13.4	8.3
Kimberley	Number	19	7	9	8	15	22	6	19	11	10
	Crude	49.1	18.6	24.3	22.0	41.5	61.1	16.9	54.1	31.6	29.1
	ASR	56.3	20.8	22.7	23.4	51.3	61.3	16.2	56.1	32.0	35.3
Metropolitan	Number	437	485	490	494	424	428	398	437	319	337
	Crude	22.4	24.5	24.5	24.4	20.8	20.7	19.1	20.8	15.0	15.7
	ASR	22.0	24.3	24.0	24.4	20.6	20.4	18.8	20.5	14.8	15.7
Midwest	Number	6	8	10	4	12	7	4	10	12	13
	Crude	9.0	12.0	15.2	6.2	18.7	11.1	6.4	16.3	19.9	21.9
	ASR	8.9	13.5	14.9	5.7	18.6	11.9	6.9	18.6	23.7	26.4
Pilbara	Number	14	15	19	11	13	15	15	17	19	14
	Crude	21.5	23.3	30.1	17.9	21.2	24.3	24.9	28.3	31.8	23.7
	ASR	17.3	16.5	28.0	37.3	26.0	19.4	28.0	34.5	32.9	28.2
South West	Number	20	12	16	16	5	19	13	8	16	11
	Crude	11.8	7.0	9.2	9.1	2.8	10.6	7.2	4.4	8.8	6.0
	ASR	12.6	7.9	10.0	9.8	3.1	10.9	6.7	4.9	9.8	7.0
Wheatbelt	Number	5	12	3	7	7	3	2	11	5	4
	Crude	6.4	15.3	3.8	9.1	9.1	3.9	2.6	14.6	6.7	5.4
	ASR	6.8	16.1	4.8	10.5	11.0	4.9	2.0	16.6	8.6	7.2
WA (Total)	**Number**	**525**	**559**	**567**	**563**	**495**	**514**	**461**	**515**	**395**	**404**
	Crude	**21.1**	**22.2**	**22.3**	**22.0**	**19.2**	**19.8**	**17.6**	**19.6**	**14.9**	**15.1**
	ASR	**20.8**	**22.1**	**22.1**	**22.1**	**19.2**	**19.7**	**17.4**	**19.4**	**14.8**	**15.3**

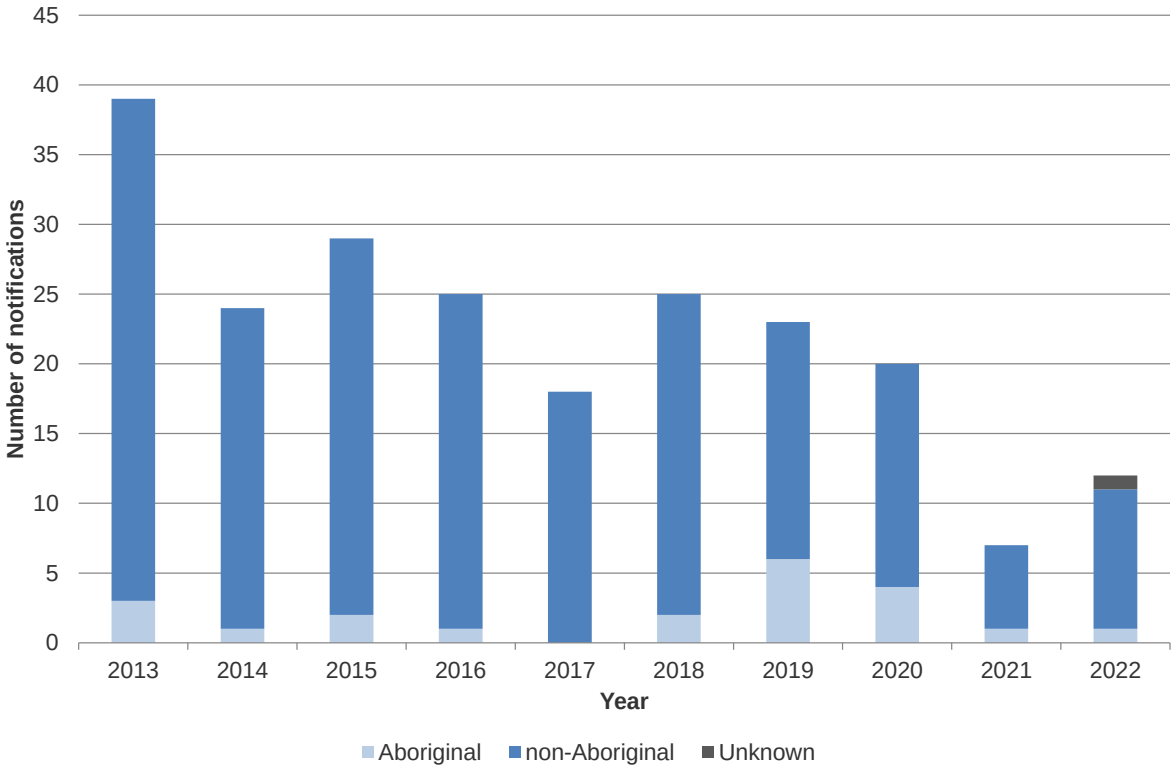
Notes: Number = Number of notifications reported to the DoH
Crude = Crude notification rate per 100,000 population
ASR = Age-standardised notification rate per 100,000 population
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Column totals include cases with overseas or unknown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

Table 39 Number, crude rate and ASR of total hepatitis B notifications by region, WA, 2013 to 2022

Region	Rate	Year									
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Goldfields	Number	13	13	15	15	12	16	16	12	4	7
	Crude	21.3	21.7	25.6	26.5	21.4	29.0	29.8	22.8	7.7	13.8
	ASR	20.6	20.5	24.6	27.3	24.3	28.6	32.5	22.4	8.3	13.1
Great Southern	Number	10	6	3	5	4	4	9	1	6	5
	Crude	16.8	10.0	5.0	8.3	6.6	6.6	14.8	1.6	9.8	8.1
	ASR	18.0	12.8	6.0	9.0	8.6	7.6	16.1	1.1	13.4	9.3
Kimberley	Number	20	8	9	8	15	23	6	19	11	10
	Crude	51.6	21.2	24.3	22.0	41.5	63.9	16.9	54.1	31.6	29.1
	ASR	58.3	23.3	22.7	23.4	51.3	64.2	16.2	56.1	32.0	35.3
Metropolitan	Number	465	507	514	516	437	448	414	448	326	343
	Crude	23.9	25.6	25.7	25.5	21.4	21.7	19.8	21.3	15.3	16.0
	ASR	23.4	25.4	25.2	25.4	21.2	21.4	19.5	21.0	15.2	16.0
Midwest	Number	6	8	10	4	12	7	4	12	12	13
	Crude	9.0	12.0	15.2	6.2	18.7	11.1	6.4	19.6	19.9	21.9
	ASR	8.9	13.5	14.9	5.7	18.6	11.9	6.9	22.3	23.7	26.4
Pilbara	Number	15	15	20	11	13	16	16	18	19	15
	Crude	23.1	23.3	31.7	17.9	21.2	26.0	26.5	30.0	31.8	25.4
	ASR	18.7	16.5	29.6	37.3	26.0	22.0	30.8	37.2	32.9	29.1
South West	Number	24	13	19	18	10	21	15	11	16	15
	Crude	14.2	7.5	10.9	10.3	5.7	11.8	8.3	6.1	8.8	8.2
	ASR	15.0	8.6	11.9	11.0	5.9	11.8	7.5	6.7	9.8	9.1
Wheatbelt	Number	8	12	3	8	7	3	2	12	5	4
	Crude	10.2	15.3	3.8	10.4	9.1	3.9	2.6	15.9	6.7	5.4
	ASR	10.3	16.1	4.8	12.2	11.0	4.9	2.0	18.3	8.6	7.2
WA (Total)	**Number**	**564**	**583**	**596**	**588**	**513**	**539**	**484**	**535**	**402**	**416**
	Crude	**22.7**	**23.2**	**23.5**	**23.0**	**19.9**	**20.8**	**18.5**	**20.3**	**15.2**	**15.6**
	ASR	**22.3**	**23.1**	**23.2**	**23.1**	**19.9**	**20.6**	**18.3**	**20.2**	**15.1**	**15.7**

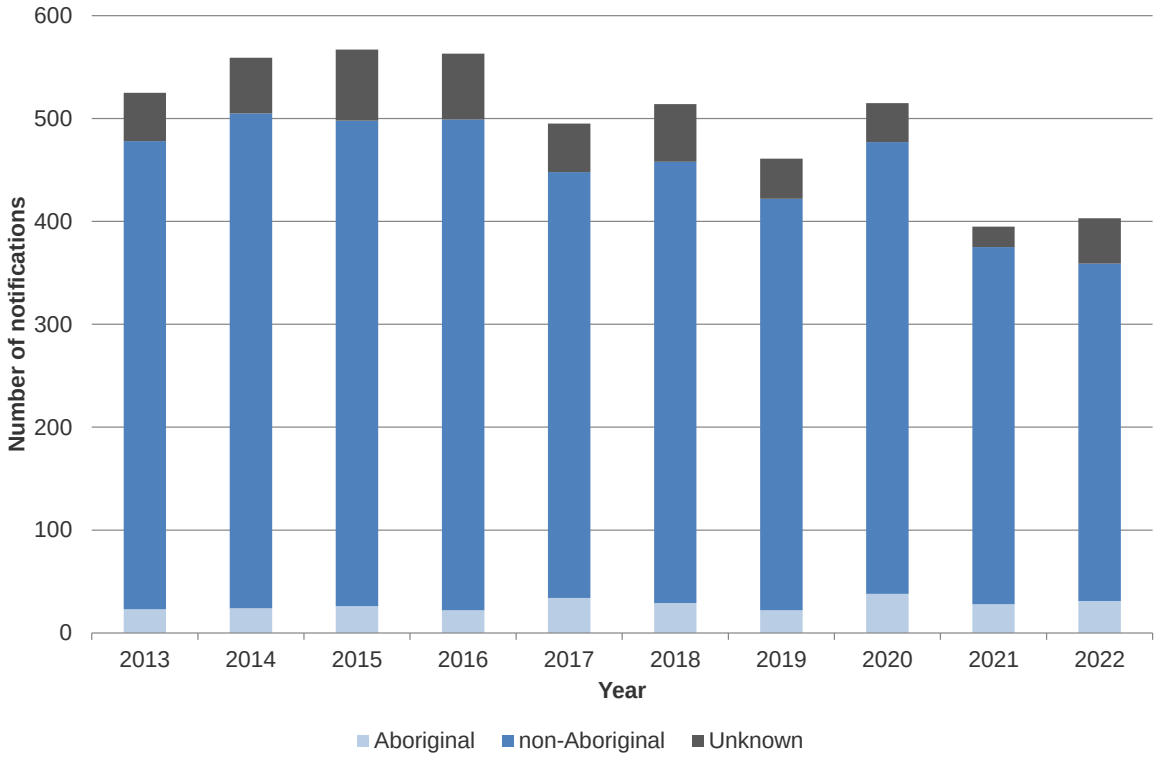
Notes: Total hepatitis B = Newly acquired hepatitis B + Unspecified hepatitis B
Number = Number of notifications reported to the DoH
Crude = Crude notification rate per 100,000 population
ASR = Age-standardised notification rate per 100,000 population
Metropolitan = East Metropolitan + North Metropolitan + 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, 2013 to 2022



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, 2013 to 2022



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, 2022

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	0	0.0	0	N/A	0	0.0	N/A
	Unspecified	4	72.5	3	6.9	0	0.0%	7	13.1	10.5
	Total hepatitis B	4	72.5	3	6.9	0	0.0%	7	13.1	10.5
Great Southern	Newly acquired	0	0.0	1	1.0	0	0.0%	1	1.0	0.0
	Unspecified	0	0.0	4	8.9	0	0.0%	4	8.3	0.0
	Total hepatitis B	0	0.0	5	9.9	0	0.0%	5	9.3	0.0
Kimberley	Newly acquired	0	0.0	0	0.0	0	N/A	0	0.0	N/A
	Unspecified	7	61.7	1	3.5	2	20.0%	10	35.3	N/A
	Total hepatitis B	7	61.7	1	3.5	2	20.0%	10	35.3	17.5
Metropolitan	Newly acquired	0	0.0	5	0.3	1	16.7%	6	0.3	0.0
	Unspecified	4	8.4	292	13.8	41	12.2%	337	15.7	0.6
	Total hepatitis B	4	8.4	297	14.1	42	12.2%	343	16.0	0.6
Midwest	Newly acquired	0	0.0	0	0.0	0	N/A	0	0.0	N/A
	Unspecified	8	97.9	5	12.5	0	0.0%	13	26.4	7.8
	Total hepatitis B	8	97.9	5	12.5	0	0.0%	13	26.4	7.8
Pilbara	Newly acquired	1	5.9	0	0.0	0	0.0%	1	0.9	N/A
	Unspecified	7	63.6	7	12.1	0	0.0%	14	28.2	5.3
	Total hepatitis B	8	69.5	7	12.1	0	0.0%	15	29.1	5.7
South West	Newly acquired	0	0.0	4	2.1	0	0.0%	4	2.1	0.0
	Unspecified	1	15.9	9	5.7	1	9.1%	11	7.0	2.8
	Total hepatitis B	1	15.9	13	7.8	1	6.7%	15	9.1	2.0
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	7.2	0.0
	Total hepatitis B	0	0.0	4	7.8	0	0.0%	4	7.2	0.0
WA (Total)	**Newly acquired**	**1**	**0.8**	**10**	**0.4**	**1**	8.3%	**12**	**0.5**	**2.1**
	Unspecified	**31**	**36.3**	**328**	**12.8**	**45**	**11.1%**	**404**	**15.3**	**2.8**
	Total hepatitis B	**32**	**37.2**	**338**	**13.2**	**46**	**11.1%**	**416**	**15.7**	**2.8**

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, 2022

Aboriginality	Disease stage	Sex				Total		Rate ratio (Male:Female)
		Male		Female				
		Number	ASR	Number	ASR	Number	ASR	
Aboriginal	Newly acquired	1	1.6	0	0.0	1	0.8	N/A
	Unspecified	20	53.2	11	22.6	31	36.3	2.4
	Total hepatitis B	21	54.8	11	22.6	32	37.2	2.4
non-Aboriginal	Newly acquired	8	0.6	2	0.2	10	0.4	3.2
	Unspecified	177	14.1	151	11.6	328	12.8	1.2
	Total hepatitis B	185	14.7	153	11.8	338	13.2	1.2
WA (Total)	Newly acquired	9	0.7	3	0.3	12	0.5	2.4
	Unspecified	222	17.1	182	13.5	404	15.3	1.3
	Total hepatitis B	231	17.7	185	13.7	416	15.7	1.3
Rate ratio (Aboriginal:non-Aboriginal)	**Newly acquired**	**N/A**	**2.7**	**N/A**	**0.0**	**N/A**	**2.1**	**N/A**
	Unspecified	**N/A**	**3.8**	**N/A**	**1.9**	**N/A**	**2.8**	**1.9**
	Total hepatitis B	**N/A**	**3.7**	**N/A**	**1.9**	**N/A**	**2.8**	**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, 2022

Where infection acquired	Disease stage	Sex				WA (Total)	
		Male		Female			
		Number	%Total	Number	%Total	Number	%Total
WA	Newly acquired	5	71.4%	2	28.6%	7	58.3%
	Unspecified	10	76.9%	3	23.1%	13	3.2%
	Total hepatitis B	15	75.0%	5	25.0%	20	4.8%
Interstate	Newly acquired	0	N/A	0	N/A	0	0.0%
	Unspecified	1	50.0%	1	50.0%	2	0.5%
	Total hepatitis B	1	50.0%	1	50.0%	2	0.5%
Overseas	Newly acquired	1	100.0%	0	0.0%	1	8.3%
	Unspecified	44	49.4%	45	50.6%	89	22.0%
	Total hepatitis B	45	50.0%	45	50.0%	90	21.6%
Unknown	Newly acquired	3	75.0%	1	25.0%	4	33.3%
	Unspecified	167	55.7%	133	44.3%	300	74.3%
	Total hepatitis B	170	55.9%	134	44.1%	304	73.1%
Total	**Newly acquired**	**9**	**75.0%**	**3**	**25.0%**	**12**	**2.9%**
	Unspecified	**222**	**55.0%**	**182**	**45.0%**	**404**	**97.1%**
	Total hepatitis B	**231**	**55.5%**	**185**	**44.5%**	**416**	**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, 2022

Notifications	State/Territory								AUS (Total)
	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	
Number	0	5	3	29	0	0	16	12	65
Crude rate	0.0	0.1	1.2	0.5	0.0	0.0	0.2	0.4	0.2

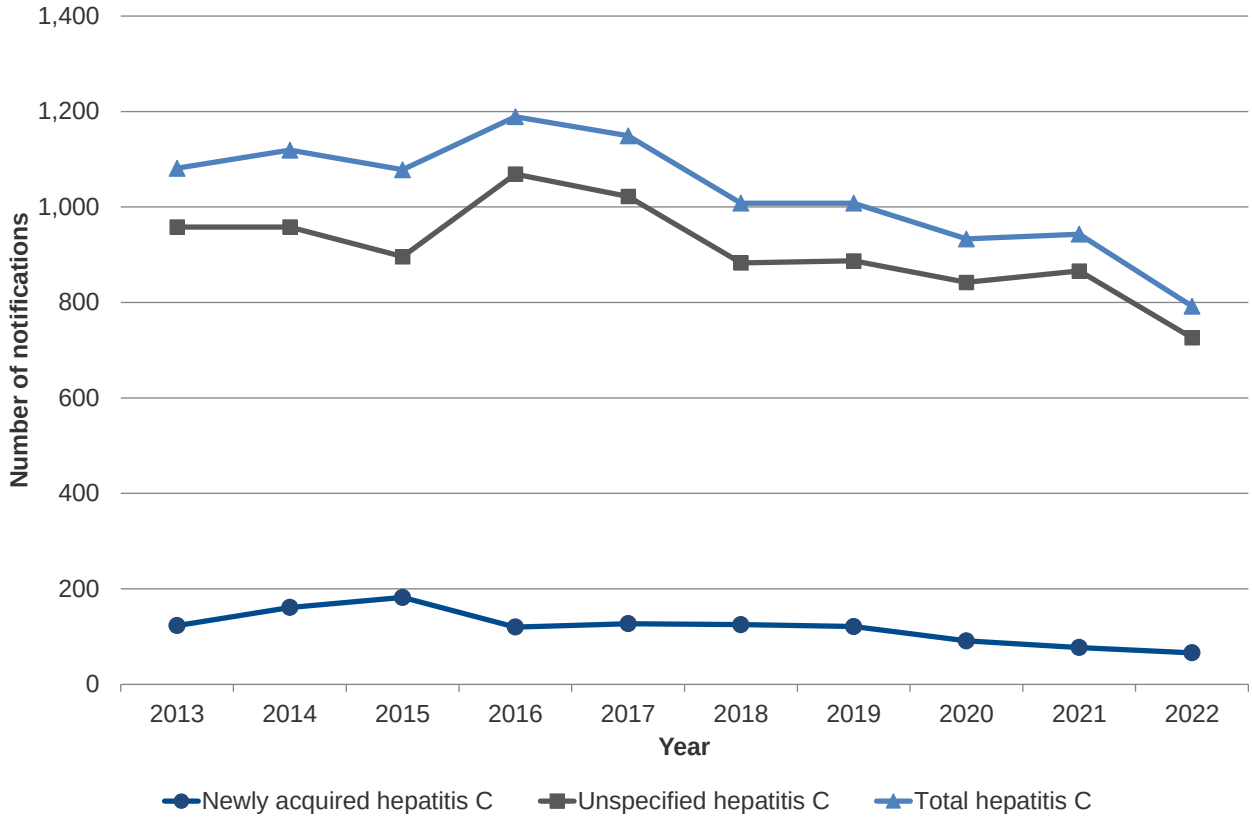
Notes: Number = Number of notifications reported to state and territory health authorities
Crude rate = Crude rate per 100,000 population
Data sourced from NNDSS 12 September 2023; data are provisional and subject to future revision. The follow-up and allocation of cases to newly acquired hepatitis B 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, 2022

Notifications	State/Territory								AUS (Total)
	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	
Number	88	2,051	42	774	192	62	1,381	418	5,008
Crude rate	19.1	24.9	16.8	14.4	10.5	10.8	20.6	14.8	19.1

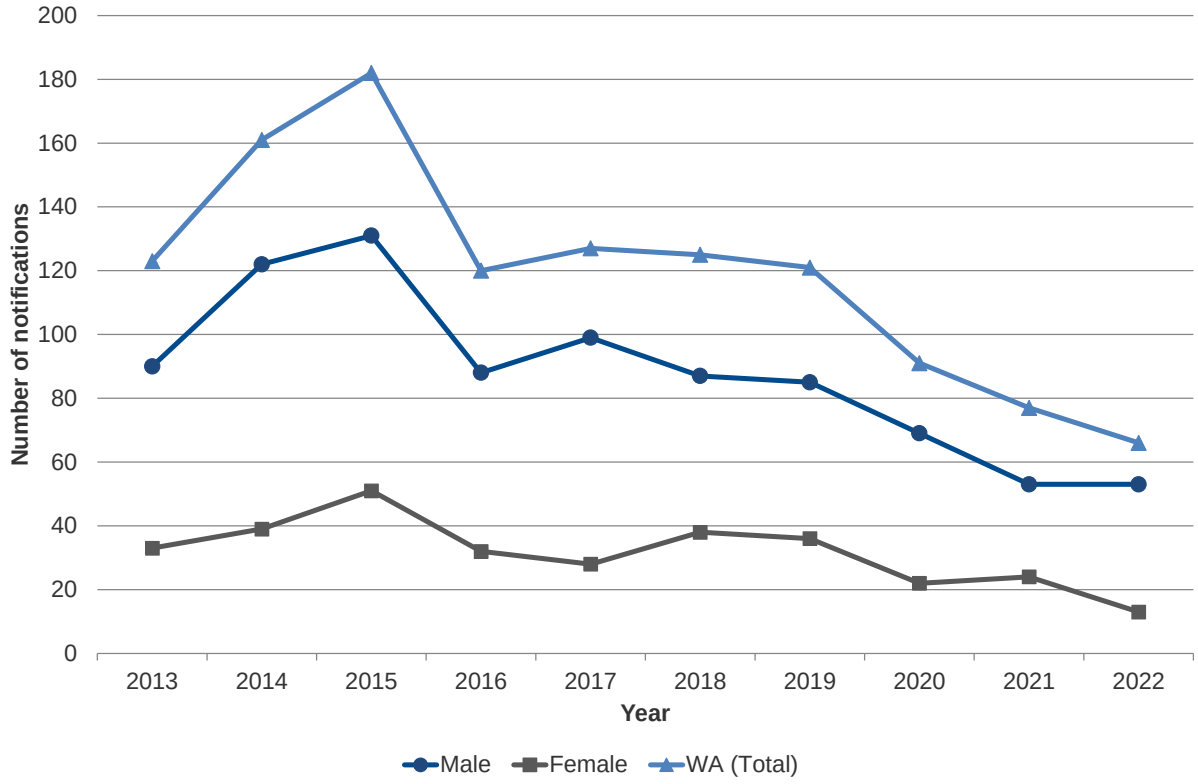
Notes: Number = Number of notifications reported to state and territory health authorities
Crude rate = Crude rate per 100,000 population
Data sourced from NNDSS 12 September 2023; data are provisional and subject to future revision. The follow-up and allocation of cases to newly acquired hepatitis B 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, 2013 to 2022



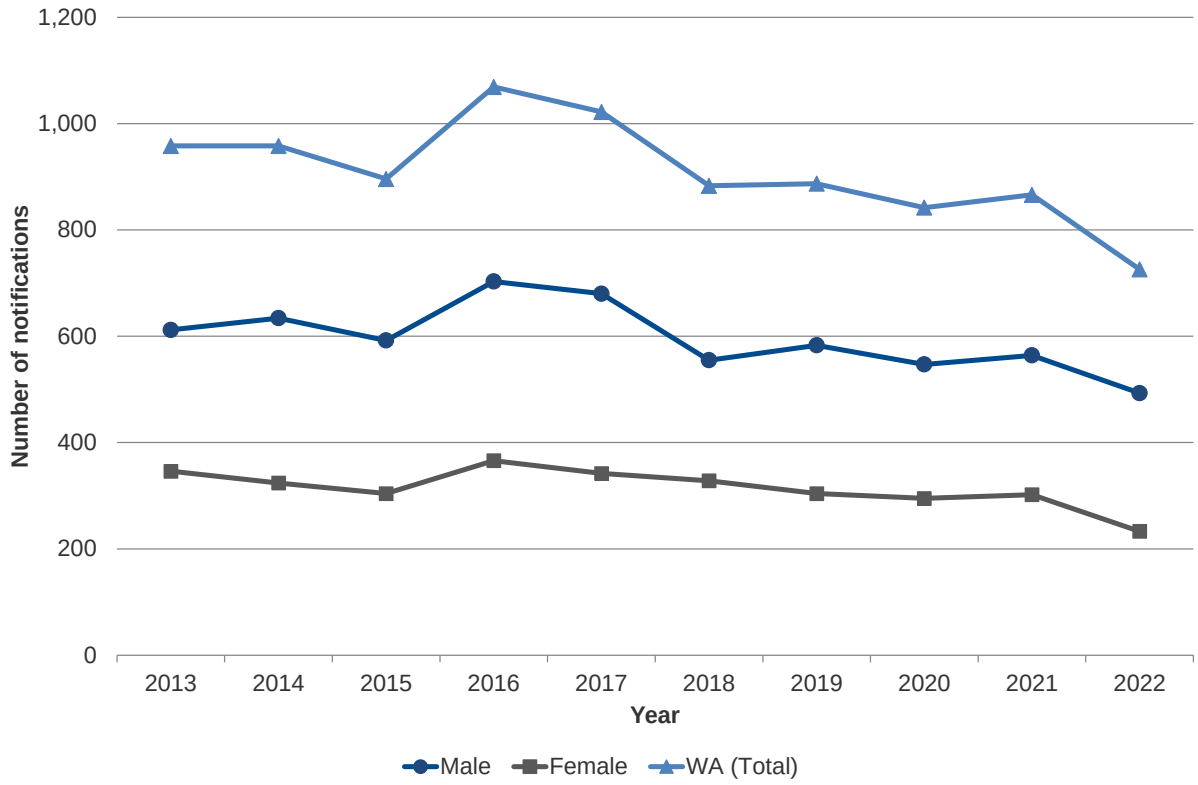
Notes: Notifications from Christmas Island, Curtin, Leonora, Perth, and Yongah Hill Immigration Detention Centres have been excluded

Figure 18 Number of newly acquired hepatitis C notifications by sex, WA, 2013 to 2022



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, 2013 to 2022



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, 2022

Region	Disease stage	Sex						Rate ratio (Male:Female)
		Male		Female		Total		
		Number	ASR	Number	ASR	Number	ASR	
Goldfields	Newly acquired	1	6.0	1	5.6	2	5.8	1.1
	Unspecified	7	30.3	5	24.7	12	27.6	1.2
	Total hepatitis C	8	36.3	6	30.3	14	33.4	1.2
Great Southern	Newly acquired	6	26.3	0	0.0	6	13.9	N/A
	Unspecified	25	97.7	7	23.6	32	63.4	4.1
	Total hepatitis C	31	123.9	7	23.6	38	77.3	5.3
Kimberley	Newly acquired	0	0.0	0	0.0	0	0.0	N/A
	Unspecified	16	108.1	5	23.1	21	61.3	4.7
	Total hepatitis C	16	108.1	5	23.1	21	61.3	4.7
Metropolitan	Newly acquired	39	3.8	11	1.0	50	2.4	3.8
	Unspecified	370	35.3	165	15.5	535	25.3	2.3
	Total hepatitis C	409	39.1	176	16.5	585	27.8	2.4
Midwest	Newly acquired	1	4.4	1	3.1	2	3.7	1.4
	Unspecified	18	69.0	15	60.9	33	64.7	1.1
	Total hepatitis C	19	73.4	16	64.0	35	68.4	1.1
Pilbara	Newly acquired	1	2.1	0	0.0	1	1.4	N/A
	Unspecified	16	90.5	9	37.3	25	53.0	2.4
	Total hepatitis C	17	92.6	9	37.3	26	54.3	2.5
South West	Newly acquired	5	7.1	0	0.0	5	3.5	N/A
	Unspecified	30	38.4	19	21.9	49	30.4	1.8
	Total hepatitis C	35	45.5	19	21.9	54	33.8	2.1
Wheatbelt	Newly acquired	0	0.0	0	0.0	0	0.0	N/A
	Unspecified	10	24.9	7	27.0	17	25.3	0.9
	Total hepatitis C	10	24.9	7	27.0	17	25.3	0.9
WA (Total)	**Newly acquired**	**53**	**4.3**	**13**	**1.0**	**66**	**2.7**	**4.2**
	Unspecified	**493**	**38.1**	**233**	**17.9**	**726**	**28.0**	**2.1**
	Total hepatitis C	**546**	**42.4**	**246**	**18.9**	**792**	**30.7**	**2.2**

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, 2013 to 2022

Region	Rate	Year									
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Goldfields	Number	0	1	8	5	1	6	7	2	0	2
	Crude	0.0	1.7	13.7	8.8	1.8	10.9	13.0	3.8	0.0	4.0
	ASR	0.0	1.7	13.1	8.9	1.9	10.8	14.3	4.1	0.0	5.8
Great Southern	Number	11	16	14	6	12	9	9	2	0	6
	Crude	18.5	26.6	23.2	10.0	19.8	14.8	14.8	3.3	0.0	9.8
	ASR	23.9	34.5	31.3	13.1	27.7	20.9	21.2	4.7	0.0	13.9
Kimberley	Number	1	1	1	0	2	1	2	0	0	0
	Crude	2.6	2.7	2.7	0.0	5.5	2.8	5.6	0.0	0.0	0.0
	ASR	2.7	2.7	2.0	0.0	5.7	2.3	5.3	0.0	0.0	0.0
Metropolitan	Number	96	124	143	94	94	97	89	73	73	50
	Crude	4.9	6.3	7.1	4.6	4.6	4.7	4.3	3.5	3.4	2.3
	ASR	4.7	6.0	6.8	4.5	4.5	4.7	4.3	3.6	3.5	2.4
Midwest	Number	5	7	5	6	9	6	5	2	2	2
	Crude	7.5	10.5	7.6	9.2	14.1	9.5	8.0	3.3	3.3	3.4
	ASR	8.2	12.2	8.8	11.0	16.8	11.5	10.8	4.4	2.8	3.7
Pilbara	Number	2	0	0	4	2	3	4	3	1	1
	Crude	3.1	0.0	0.0	6.5	3.3	4.9	6.6	5.0	1.7	1.7
	ASR	3.5	0.0	0.0	4.4	2.7	4.9	4.8	4.0	1.9	1.4
South West	Number	6	9	7	3	0	2	5	7	0	5
	Crude	3.5	5.2	4.0	1.7	0.0	1.1	2.8	3.9	0.0	2.7
	ASR	3.8	6.3	5.0	2.2	0.0	1.6	4.2	5.0	0.0	3.5
Wheatbelt	Number	2	3	4	2	7	1	0	2	1	0
	Crude	2.5	3.8	5.1	2.6	9.1	1.3	0.0	2.7	1.3	0.0
	ASR	3.3	4.7	6.3	1.9	12.0	1.8	0.0	3.4	1.4	0.0
WA (Total)	**Number**	**123**	**161**	**182**	**120**	**127**	**125**	**121**	**91**	**77**	**66**
	Crude	**4.9**	**6.4**	**7.2**	**4.7**	**4.9**	**4.8**	**4.6**	**3.5**	**2.9**	**2.5**
	ASR	**4.8**	**6.2**	**7.0**	**4.7**	**4.9**	**4.9**	**4.8**	**3.7**	**3.1**	**2.7**

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, 2013 to 2022

Region	Rate	Year									
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Goldfields	Number	34	24	26	30	23	29	43	26	18	12
	Crude	55.7	40.1	44.4	53.0	41.0	52.6	80.1	49.4	34.8	23.7
	ASR	53.5	38.7	43.0	51.7	40.1	52.1	77.3	49.5	36.9	27.6
Great Southern	Number	28	32	26	42	36	29	34	29	34	32
	Crude	47.1	53.3	43.1	69.7	59.5	47.7	55.8	47.5	55.4	52.1
	ASR	52.6	62.8	46.7	82.2	73.5	52.1	72.0	62.9	72.0	63.4
Kimberley	Number	23	19	19	15	25	11	17	17	28	21
	Crude	59.4	50.4	51.3	41.2	69.2	30.5	48.0	48.4	80.4	61.0
	ASR	58.2	50.0	60.1	42.6	64.8	31.4	49.2	49.8	82.0	61.3
Metropolitan	Number	757	737	664	800	771	668	609	627	658	535
	Crude	38.9	37.3	33.1	39.5	37.7	32.4	29.2	29.8	30.9	24.9
	ASR	38.4	36.6	32.8	39.3	37.6	32.2	29.1	30.0	31.4	25.3
Midwest	Number	29	31	41	45	43	40	50	32	39	33
	Crude	43.3	46.5	62.1	69.3	67.1	63.4	80.3	52.2	64.6	55.6
	ASR	46.1	48.3	65.9	70.4	70.8	70.6	90.3	57.3	68.3	64.7
Pilbara	Number	24	18	24	23	13	18	15	20	19	25
	Crude	36.9	28.0	38.1	37.4	21.2	29.2	24.9	33.3	31.8	42.3
	ASR	32.7	24.9	32.4	33.0	19.1	25.2	22.3	40.4	26.4	53.0
South West	Number	47	70	66	73	67	61	81	68	47	49
	Crude	27.7	40.6	37.8	41.6	37.9	34.2	45.0	37.5	25.7	26.6
	ASR	29.3	44.8	40.8	45.1	39.7	38.0	49.8	43.8	29.7	30.4
Wheatbelt	Number	16	25	28	39	43	25	36	22	22	17
	Crude	20.4	31.8	35.8	50.5	55.8	32.7	47.4	29.2	29.4	22.9
	ASR	21.8	34.3	36.9	56.9	59.1	37.5	54.2	29.2	33.1	25.3
WA (Total)	**Number**	**958**	**958**	**896**	**1,069**	**1,022**	**883**	**887**	**842**	**866**	**726**
	Crude	**38.5**	**38.1**	**35.3**	**41.8**	**39.7**	**34.0**	**33.9**	**32.0**	**32.7**	**27.2**
	ASR	**38.2**	**37.5**	**35.0**	**41.7**	**39.7**	**34.1**	**34.2**	**32.5**	**33.4**	**28.0**

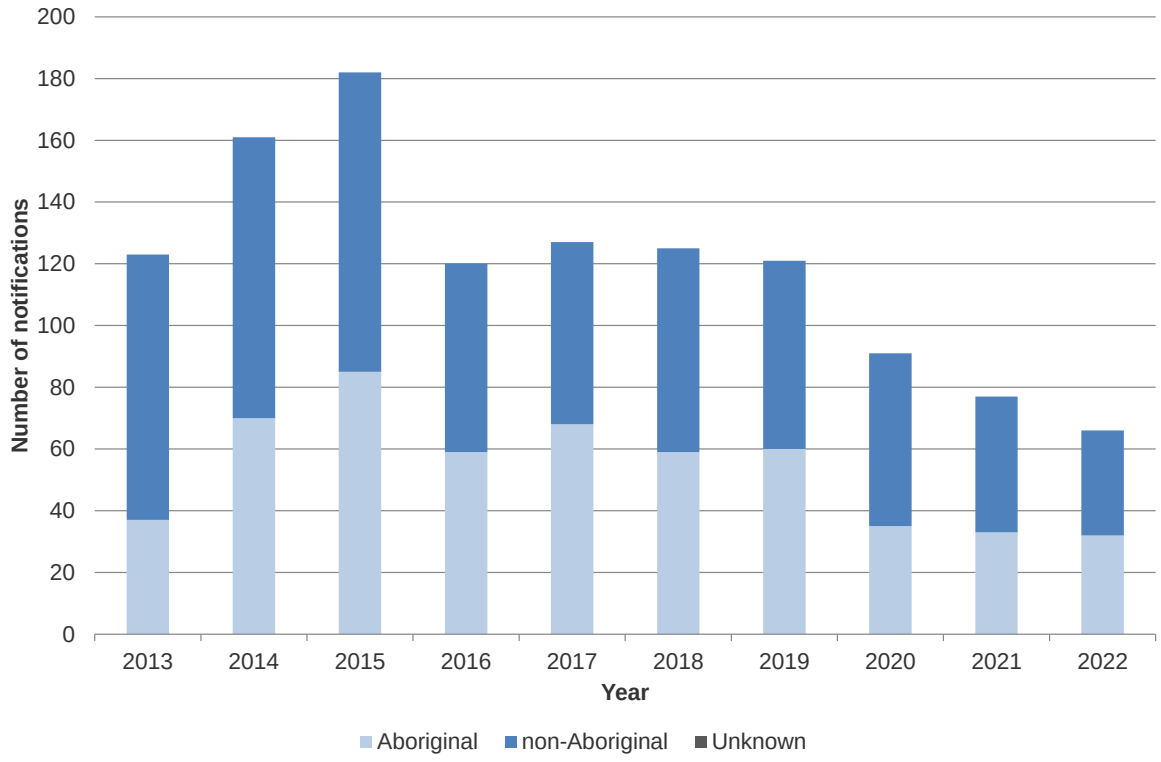
Notes: Number = Number of notifications reported to the DoH
Crude = Crude notification rate per 100,000 population
ASR = Age-standardised notification rate per 100,000 population
Metropolitan = East Metropolitan + North Metropolitan + South Metropolitan
Column totals include cases with overseas or unknown 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 48 Number, crude rate and ASR of total hepatitis C notifications by region, WA, 2013 to 2022

Region	Rate	Year									
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Goldfields	Number	34	25	34	35	24	35	50	28	18	14
	Crude	55.7	41.8	58.1	61.9	42.8	63.5	93.1	53.2	34.8	27.7
	ASR	53.5	40.3	56.2	60.6	42.1	62.9	91.6	53.6	36.9	33.4
Great Southern	Number	39	48	40	48	48	38	43	31	34	38
	Crude	65.6	79.9	66.3	79.7	79.3	62.5	70.6	50.7	55.4	61.8
	ASR	76.5	97.2	78.0	95.3	101.1	72.9	93.2	67.6	72.0	77.3
Kimberley	Number	24	20	20	15	27	12	19	17	28	21
	Crude	62.0	53.0	54.0	41.2	74.7	33.3	53.6	48.4	80.4	61.0
	ASR	61.0	52.7	62.1	42.6	70.5	33.7	54.6	49.8	82.0	61.3
Metropolitan	Number	853	861	807	894	865	765	698	700	731	585
	Crude	43.8	43.5	40.3	44.2	42.3	37.1	33.5	33.2	34.4	27.2
	ASR	43.1	42.6	39.6	43.9	42.0	36.9	33.4	33.6	34.9	27.8
Midwest	Number	34	38	46	51	52	46	55	34	41	35
	Crude	50.8	57.0	69.7	78.5	81.2	72.9	88.4	55.5	68.0	58.9
	ASR	54.3	60.4	74.6	81.4	87.6	82.1	101.1	61.8	71.1	68.4
Pilbara	Number	26	18	24	27	15	21	19	23	20	26
	Crude	40.0	28.0	38.1	43.9	24.4	34.1	31.5	38.3	33.5	44.0
	ASR	36.2	24.9	32.4	37.4	21.7	30.1	27.1	44.5	28.4	54.3
South West	Number	53	79	73	76	67	63	86	75	47	54
	Crude	31.3	45.8	41.8	43.3	37.9	35.3	47.8	41.4	25.7	29.4
	ASR	33.1	51.1	45.8	47.3	39.7	39.6	54.0	48.8	29.7	33.8
Wheatbelt	Number	18	28	32	41	50	26	36	24	23	17
	Crude	22.9	35.7	41.0	53.0	64.8	34.0	47.4	31.8	30.7	22.9
	ASR	25.1	39.0	43.2	58.8	71.2	39.3	54.2	32.6	34.5	25.3
WA (Total)	**Number**	**1,081**	**1,119**	**1,078**	**1,189**	**1,149**	**1,008**	**1,008**	**933**	**943**	**792**
	Crude	**43.5**	**44.4**	**42.4**	**46.5**	**44.6**	**38.8**	**38.6**	**35.4**	**35.6**	**29.7**
	ASR	**43.0**	**43.8**	**42.0**	**46.4**	**44.6**	**39.0**	**39.0**	**36.2**	**36.5**	**30.7**

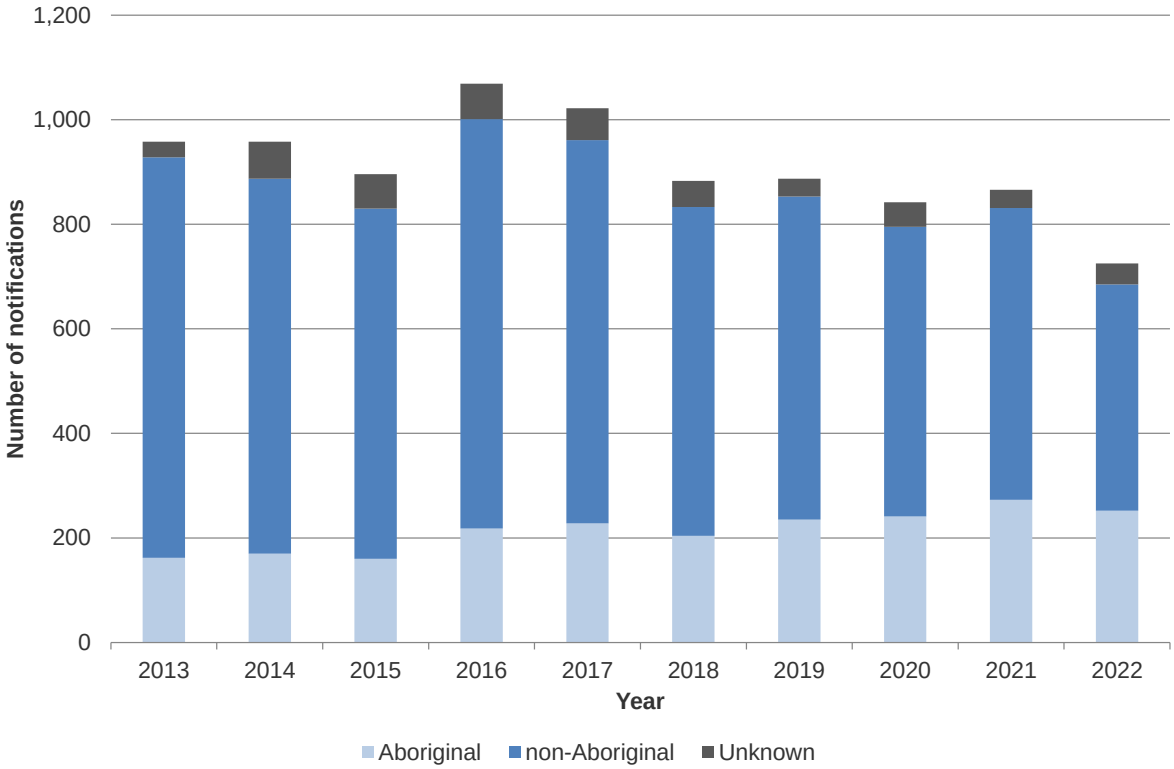
Notes: Total hepatitis C = Newly acquired hepatitis C + Unspecified hepatitis C
Number = Number of notifications reported to the DoH
Crude = Crude notification rate per 100,000 population
ASR = Age-standardised notification rate per 100,000 population
Metropolitan = East Metropolitan + North Metropolitan + 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, 2013 to 2022



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, 2013 to 2022



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, 2022

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	19.2	1	3.4	0	0.0%	2	5.8	5.6
	Unspecified	7	84.0	5	11.0	0	0.0%	12	27.6	7.7
	Total hepatitis C	8	103.2	6	14.4	0	0.0%	14	33.4	7.2
Great Southern	Newly acquired	3	101.4	3	7.0	0	0.0%	6	13.9	14.4
	Unspecified	11	410.9	19	35.5	2	6.3%	32	63.4	11.6
	Total hepatitis C	14	512.3	22	42.6	2	5.3%	38	77.3	12.0
Kimberley	Newly acquired	0	0.0	0	0.0	0	N/A	0	0.0	N/A
	Unspecified	12	66.0	9	51.4	0	0.0%	21	61.3	1.3
	Total hepatitis C	12	66.0	9	51.4	0	0.0%	21	61.3	1.3
Metropolitan	Newly acquired	22	42.5	28	1.4	0	0.0%	50	2.4	31.2
	Unspecified	159	365.5	341	16.1	35	6.5%	535	25.3	22.7
	Total hepatitis C	181	408.0	369	17.5	35	6.0%	585	27.8	23.3
Midwest	Newly acquired	2	28.7	0	0.0	0	0.0%	2	3.7	N/A
	Unspecified	24	297.8	9	15.2	0	0.0%	33	64.7	19.6
	Total hepatitis C	26	326.5	9	15.2	0	0.0%	35	68.4	21.5
Pilbara	Newly acquired	1	8.7	0	0.0	0	0.0%	1	1.4	N/A
	Unspecified	20	167.9	5	10.6	0	0.0%	25	53.0	15.8
	Total hepatitis C	21	176.7	5	10.6	0	0.0%	26	54.3	16.6
South West	Newly acquired	3	37.1	2	1.1	0	0.0%	5	3.5	33.6
	Unspecified	13	246.8	33	19.6	3	6.1%	49	30.4	12.6
	Total hepatitis C	16	283.9	35	20.7	3	5.6%	54	33.8	13.7
Wheatbelt	Newly acquired	0	0.0	0	0.0	0	N/A	0	0.0	N/A
	Unspecified	6	168.9	11	13.4	0	0.0%	17	25.3	12.6
	Total hepatitis C	6	168.9	11	13.4	0	0.0%	17	25.3	12.6
WA (Total)	**Newly acquired**	**32**	**28.0**	**34**	**1.4**	**0**	**0.0%**	**66**	**2.7**	**20.0**
	Unspecified	**252**	**243.1**	**433**	**16.8**	**40**	**5.5%**	**726**	**28.0**	**14.4**
	Total hepatitis C	**284**	**271.0**	**467**	**18.2**	**40**	**5.1%**	**792**	**30.7**	**14.9**

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, 2022

Aboriginality	Disease stage	Sex				Total		Rate ratio (Male:Female)
		Male		Female				
		Number	ASR	Number	ASR	Number	ASR	
Aboriginal	Newly acquired	27	45.4	5	9.5	32	28.0	4.8
	Unspecified	171	321.1	81	163.5	252	243.1	2.0
	Total hepatitis C	198	366.6	86	173.1	284	271.0	2.1
non-Aboriginal	Newly acquired	26	2.1	8	0.7	34	1.4	3.2
	Unspecified	299	23.3	134	10.4	433	16.8	2.2
	Total hepatitis C	325	25.4	142	11.1	467	18.2	2.3
WA (Total)	Newly acquired	53	4.3	13	1.0	66	2.7	4.2
	Unspecified	493	38.1	233	17.9	726	28.0	2.1
	Total hepatitis C	546	42.4	246	18.9	792	30.7	2.2
Rate ratio (Aboriginal:non-Aboriginal)	**Newly acquired**	**N/A**	**21.3**	**N/A**	**14.4**	**N/A**	**20.0**	**1.5**
	Unspecified	**N/A**	**13.8**	**N/A**	**15.7**	**N/A**	**14.4**	**0.9**
	Total hepatitis C	**N/A**	**14.4**	**N/A**	**15.6**	**N/A**	**14.9**	**0.9**

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)
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, 2022

Where infection acquired	Disease stage	Sex				WA (Total)	
		Male		Female			
		Number	%Total	Number	%Total	Number	%Total
WA	Newly acquired	38	77.6%	11	22.4%	49	74.2%
	Unspecified	63	71.6%	25	28.4%	88	12.1%
	Total hepatitis C	101	73.7%	36	26.3%	137	17.3%
Interstate	Newly acquired	1	100.0%	0	0.0%	1	1.5%
	Unspecified	3	30.0%	7	70.0%	10	1.4%
	Total hepatitis C	4	36.4%	7	63.6%	11	1.4%
Overseas	Newly acquired	0	N/A	0	N/A	0	0.0%
	Unspecified	6	42.9%	8	57.1%	14	1.9%
	Total hepatitis C	6	42.9%	8	57.1%	14	1.8%
Unknown	Newly acquired	14	87.5%	2	12.5%	16	24.2%
	Unspecified	421	68.6%	193	31.4%	614	84.6%
	Total hepatitis C	435	69.0%	195	31.0%	630	79.5%
Total	**Newly acquired**	**53**	**80.3%**	**13**	**19.7%**	**66**	**8.3%**
	Unspecified	**493**	**67.9%**	**233**	**32.1%**	**726**	**91.7%**
	Total hepatitis C	**546**	**68.9%**	**246**	**31.1%**	**792**	**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, 2022

Notifications	State/Territory								AUS (Total)
	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	
Number	8	20	0	406	19	3	33	66	555
Crude rate	1.7	0.2	0.0	7.5	1.0	0.5	0.5	2.3	2.1

Notes: Number = Number of notifications reported to state and territory health authorities
Crude rate = Crude rate per 100,000 population
Data sourced from NNDSS 12 September 2023; 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, 2022

Notifications	State/Territory								AUS (Total)
	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	
Number	89	2,482	78	1,372	200	106	1,179	736	6,242
Crude rate	19.3	30.1	31.2	25.5	10.9	18.5	17.6	26.1	23.8

Notes: Number = Number of notifications reported to state and territory health authorities
Crude rate = Crude rate per 100,000 population
Data sourced from NNDSS 12 September 2023; 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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