

**Clinic Surveillance of
Sexually Transmitted Infections
in New Zealand**

October to December 2010

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**This report is available on the Internet at www.surv.esr.cri.nz
STI data requests may be emailed to survqueries@esr.cri.nz**

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Introduction

The cornerstone of communicable disease surveillance in New Zealand is statutorily-mandated disease notification. However, with the exception of acquired immune deficiency syndrome, the late sequelae of human immunodeficiency virus infection and hepatitis B, sexually transmitted infections (STIs) are not notifiable. Therefore surveillance efforts are based on voluntary provision of clinic-based data from sexual health clinics (SHCs), family planning clinics (FPCs) and student and youth health clinics (SYHCs), and microbiologic data from diagnostic laboratories. Population and disease coverage varies by data source.

Clinic-based surveillance of STIs has traditionally been based on data from specialist SHCs (provide a free and confidential sexual health service). Since 1998, clinic-based STI surveillance has been progressively expanded to include data from FPCs (provide sexual and reproductive health services) and SYHCs (provide general and/or specialist health services for students and staff, and often operate as drop-in centres) to provide a more comprehensive picture of the disease burden in New Zealand. At present, data from SHCs provide the most comprehensive information on the epidemiology of STIs in New Zealand. This is for a number of reasons including the stability of both the number of SHCs across New Zealand and the number of SHCs participating in the surveillance programme, and the availability of ethnicity data.

In addition to clinic-based surveillance, laboratory-based surveillance of gonorrhoea began in the Auckland, Waikato and Bay of Plenty regions in 1998. Laboratory surveillance of chlamydia began in the Waikato and Bay of Plenty regions in 1998 and in the Auckland region in 2001. Since June 2004, efforts have been made to extend STI surveillance to additional laboratories across New Zealand. Improvements to the reporting of laboratory surveillance data were implemented during 2009. Population-based rates of chlamydia and gonorrhoea for many district health boards (DHBs) and estimates of national rates based on the data from these DHBs are now reported. Quarterly reports for laboratory-based STI surveillance are produced separately and are available at www.surv.esr.cri.nz.

The number of cases of STIs reported through the clinic-based surveillance system underestimates the true burden of STIs in New Zealand because a substantial percentage of STIs are diagnosed by other health care providers, particularly primary health care practitioners. Laboratories receive specimens from all health providers, and so, provide a useful, complementary source of STI data. For example, in areas where both clinic and laboratory surveillance data are collected, laboratory data aggregated across New Zealand in 2009 reported nearly four-times the number of chlamydia and gonorrhoea cases compared with that reported by clinic-based surveillance.

This report presents data on chlamydia, gonorrhoea, genital herpes, genital warts, syphilis, non-specific urethritis (NSU), chancroid, granuloma inguinale (GI) and lymphogranuloma venereum (LGV) cases reported in the fourth quarter (October to December) 2010 from SHCs, FPCs and SYHCs across New Zealand.

Methods

All results and analyses are based on data submitted prior to 1 March 2010. Any data submitted after this date are not included in this report due to time constraints. All results should be regarded as provisional.

Data collection

Clinics record anonymous data on the age, sex and ethnicity of all individuals meeting one or more of the STI surveillance case definitions (see Appendix). Each month clinics send the demographic data of cases and the total number of clinic visits either directly to ESR or via a regional co-ordinator. Data are either entered directly into the national STI surveillance database by ESR staff or entered into a regional surveillance database by a regional co-ordinator. Data from regional STI surveillance databases are sent electronically to ESR each month where they are merged with data on the national STI surveillance database.

STIs currently under clinic-based surveillance are chlamydia, gonorrhoea, genital herpes, genital warts, syphilis, NSU, chancroid, GI and LGV (see Appendix for case definitions).

Analysis methods

Clinic-based STI surveillance data stored in the database were extracted and analysed using Microsoft Access and Excel.

Case numbers

The STIs under surveillance include both probable and confirmed case definitions for chlamydia, gonorrhoea, chancroid, GI and LGV. However, case numbers and clinic visit rates presented in this report relate to confirmed cases of these diseases only (unless otherwise stated).

Calculation of rates

Clinic visit infection rates for the quarter were calculated by dividing the total number of confirmed reported cases of each STI by the total number of clinic visits for any reason. This denominator includes all new and follow-up visits made by clinic attendees, whether for sexual or other health reasons. For specialised youth centres (one-stop shops) the denominator does not include non-clinical visits such as career advice and counselling.

Clinic visit infection rates that are based on fewer than five cases should be interpreted with caution as these are unstable and provide an unreliable basis for comparisons. Care should also be exercised when interpreting and comparing rates based on fewer than 20 cases. Consideration should be given to the absolute number of cases in the categories analysed with rates, because categories with the highest rates may sometimes involve a relatively small proportion of the overall disease burden.

Clinic-based STI surveillance data cannot be used to calculate population rates due to problems with defining clinic catchments, clientele and variations in geographical location.

Data limitations

Clinics participating in STI surveillance are located in cities and some larger rural towns. Most other rural towns and isolated populations have limited or no access to the services offered by SHCs and FPCs and they rely on other health care providers. University and polytechnic student health clinics provide services only to those students and staff who attend their institution.

While STIs are diagnosed and treated by a range of primary healthcare providers, including general practitioners (GPs), SHCs diagnose a substantial proportion of the total number of STIs and their data are useful for trend analysis and can provide an alert for changes occurring in the wider population. Data presented for SYHCs in New Zealand may not be representative of all SYHCs because not all provide STI surveillance data and some provide incomplete data.

Valid comparisons between infection rates at different clinic types are not possible due to differences in the range of services provided which affect the denominator (total clinic visits for any reason) used to calculate rates. SHCs provide mainly STI-related sexual health services, FPCs provide mainly non-STI sexual and reproductive health services and SYHCs provide mainly general health services. Those attending SHCs are more likely to have opportunistic STI testing than those attending other clinic types for other reasons. As a result, STI rates at SHCs are higher than STI rates at other clinic types.

Caution should also be taken when making comparisons between years within each clinic type, especially when comparing case counts. This is because both the number of participating clinics and the number of months of data supplied by a particular clinic can vary over time due to data supply constraints. Also, a zero case or visit count can indicate either that data was not supplied or that there were no cases/visits.

Data completeness

Sexual health clinics

In the fourth quarter (October to December) 2010, 27 SHCs participated in the STI surveillance programme. All 27 clinics submitted STI data by the date required for all three months of the fourth quarter.

Family planning clinics

In the fourth quarter (October to December) 2010, 34 FPCs participated in the STI surveillance programme. All 34 clinics submitted STI data by the date required for the fourth quarter, of which, 33 clinics submitted data for all three months of the quarter. FPCs include some outreach clinics based in schools or tertiary institutions, which may have been closed during holidays.

Student and youth health clinics

In the fourth quarter (October to December) 2010, 15 SYHCs participated in the STI surveillance programme. All 15 clinics submitted STI data by the date required for the fourth quarter, of which, 13 clinics submitted data for all three months of the quarter. It should be noted that some SYHCs based in schools or tertiary institutions may have been closed during holidays.

Overview of Data

Sexual health clinics

In the fourth quarter (October to December) 2010, SHCs reported 21 024 clinic visits. A total of 1199 cases of chlamydia, 208 cases of gonorrhoea, 192 cases of genital herpes, 651 cases of genital warts, 21 cases of syphilis and 184 cases of NSU (males only) were reported in this quarter. No cases of chancroid, GI or LGV were reported in this quarter.

Family planning clinics

In the fourth quarter (October to December) 2010, FPCs reported 46 389 clinic visits. A total of 659 cases of chlamydia, 45 cases of gonorrhoea, 54 cases of genital herpes, 69 cases of genital warts, and two cases of NSU (males only) were reported in this quarter. No cases of syphilis, chancroid, GI or LGV were reported in this quarter.

Student and youth health clinics

In the fourth quarter (October to December) 2010, SYHCs reported 49 641 clinic visits. A total of 234 cases of chlamydia, 13 cases of gonorrhoea, 24 cases of genital herpes, 26 cases of genital warts, and two cases of NSU (males only) were reported in this quarter. No cases of syphilis, chancroid, GI or LGV were reported in this quarter.

The numbers of cases, clinic visit rate and the rate change between the fourth quarter (October to December) of 2009 and 2010 for each STI by clinic type are shown in Table 1. Note that because of the large denominator (Table 2) and small number of cases for some STIs, clinic visit rates and rate change may not be reflected in Table 1. Tables 2 to 13 present STI case numbers and clinic visit rates by clinic type, including site of infection and demographic data.

Table 1. Number of cases, clinic visit rate and rate change between the fourth quarter of 2009 and 2010, by STI and clinic type

Clinic type	STI	October to December 2009		October to December 2010		Clinic visit rate ¹ change ² between quarters
		Number of cases	Clinic visit rate ¹ (%)	Number of cases	Clinic visit rate ¹ (%)	
SHCs	Chlamydia	1075	5.2	1199	5.7	▲
	Gonorrhoea	163	0.8	208	1.0	▲
	Genital herpes	194	0.9	192	0.9	—
	Genital warts	722	3.5	651	3.1	▼
	Syphilis	27	0.1	21	0.1	—
	NSU (males only)	172	2.0	184	2.2	▲
FPCs	Chlamydia	799	1.7	659	1.4	▼
	Gonorrhoea	43	0.1	45	0.1	—
	Genital herpes	62	0.1	54	0.1	—
	Genital warts	142	0.3	69	0.1	▼
	Syphilis	1	0.0	0	0.0	—
	NSU (males only)	3	0.1	2	0.1	—
SYHCs	Chlamydia	160	0.3	234	0.5	▲
	Gonorrhoea	1	0.0	13	0.0	—
	Genital herpes	15	0.0	24	0.0	—
	Genital warts	58	0.1	26	0.1	—
	Syphilis	1	0.0	0	0.0	—
	NSU (males only)	5	0.0	2	0.0	—

¹ Clinic visit rate = no. of cases/total no. of clinic visits, expressed as a percentage

² — no change in rate; ▲ rate increase; ▼ rate decrease; comparison of crude rates not tested for significance
Clinic visit rates may be unreliable where fewer than five cases were reported.

Clinic Surveillance Data

All clinic data

Table 2. Number of clinic visits, number of cases and clinic visit rates by STI and clinic type, October to December 2010

<u>Clinic Type, by area</u>		<u>Total Clinic</u> <u>Visits¹</u>	<u>Chlamydia</u>	<u>Gonorrhoea</u>	<u>Genital</u> <u>Herpes³</u>	<u>Genital</u> <u>Warts³</u>	<u>Syphilis⁴</u>
North							
Sexual Health Clinics	No.	5,942	407	94	42	227	13
	Rate ³		6.8%	1.6%	0.7%	3.8%	0.2%
Family Planning Clinics	No.	16,578	218	12	8	18	0
	Rate ³		1.3%	0.1%	0.0%	0.1%	0.0%
Student & Youth Health Clinics	No.	7,022	45	0	2	0	0
	Rate ³		0.6%	0.0%	0.0%	0.0%	0.0%
Subtotal North		29,542	670	106	52	245	13
Midland							
Sexual Health Clinics	No.	7,183	460	74	60	169	2
	Rate ³		6.4%	1.0%	0.8%	2.4%	0.0%
Family Planning Clinics	No.	7,760	171	14	8	15	0
	Rate ³		2.2%	0.2%	0.1%	0.2%	0.0%
Student & Youth Health Clinics	No.	10,696	10	0	2	0	0
	Rate ³		0.1%	0.0%	0.0%	0.0%	0.0%
Subtotal Midland		25,639	641	88	70	184	2
Central							
Sexual Health Clinics	No.	4,368	186	30	42	132	5
	Rate ³		4.3%	0.7%	1.0%	3.0%	0.1%
Family Planning Clinics	No.	10,473	161	12	26	11	0
	Rate ³		1.5%	0.1%	0.2%	0.1%	0.0%
Student & Youth Health Clinics	No.	14,975	139	9	7	8	0
	Rate ³		0.9%	0.1%	0.0%	0.1%	0.0%
Subtotal Central		29,816	486	51	75	151	5
South							
Sexual Health Clinics	No.	3,531	146	10	48	123	1
	Rate ³		4.1%	0.3%	1.4%	3.5%	0.0%
Family Planning Clinics	No.	11,578	109	7	12	25	0
	Rate ³		0.9%	0.1%	0.1%	0.2%	0.0%
Student & Youth Health Clinics	No.	16,948	40	4	13	18	0
	Rate ³		0.2%	0.0%	0.1%	0.1%	0.0%
Subtotal South		32,057	295	21	73	166	1
All regions							
Sexual Health Clinics	No.	21,024	1,199	208	192	651	21
	Rate.		5.7%	1.0%	0.9%	3.1%	0.1%
Family Planning Clinics	No.	46,389	659	45	54	69	0
	Rate.		1.4%	0.1%	0.1%	0.1%	0.0%
Student & Youth Health Clinics	No.	49,641	234	13	24	26	0
	Rate.		0.5%	0.0%	0.0%	0.1%	0.0%
Total	No.	117,054	2,092	266	270	746	21
	Rate.		1.8%	0.2%	0.2%	0.6%	0.0%

¹ Total no. clinic visits = total no. of clinics visits for report period for any reason

² Rate = total no. of cases/total no. of clinic visits, expressed as a percentage

³ First presentation at that clinic

⁴ Infectious syphilis (primary, secondary and early latent)

Clinic visit rates may be unreliable where fewer than five cases were reported.

Table 3. Chlamydia – cases by site of infection, October to December 2010

	Confirmed						Total ¹
	Uncomplicated, lower anogenital		PID/epididymitis		Other site		
	No. ²	% ³	No. ²	% ³	No. ²	% ³	No. ²
Sexual Health Clinics	1143	95.3%	52	4.3%	5	0.4%	1200
Family Planning Clinics	648	98.3%	11	1.7%	0	0.0%	659
Student & Youth Health Clinics	229	97.9%	1	0.4%	4	1.7%	234
Total	2020	96.5%	64	3.1%	9	0.4%	2093

Table 4. Gonorrhoea – cases by site of infection, October to December 2010

	<i>Confirmed</i>										Total ¹
	Uncomplicated infection				PID/ epididymitis		Extra-genital				
	Urogenital		Anorectal				Pharynx		Other site		
	No. ²	% ³	No. ²	% ³	No. ²	% ³	No. ²	% ³	No. ²	% ³	No. ²
Sexual Health Clinics	196	93.8%	4	1.9%	1	0.5%	8	3.8%	0	0.0%	209
Family Planning Clinics	42	93.3%	0	0.0%	3	6.7%	0	0.0%	0	0.0%	45
Student & Youth Health Clinics	13	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	13
Total	251	94.0%	4	1.5%	4	1.5%	8	3.0%	0	0.0%	267

¹ Total = total no. of cases by clinic type; note that some cases may be counted more than once if the disease was confirmed at more than one site. Cases where site was not specified are not included.

² No. = no. of cases by site

³ % = no. of cases by site/total no. of cases by clinic type, expressed as a percentage

Sexual health clinic data

Table 5. Chlamydia – number of cases and clinic visit rates at SHCs, October to December 2009 and 2010

Total Clinic Visits¹			2009 Total		2010 Total	
2009	2010	Clinic	No.	Rate²	No.	Rate²
577	690	Whangarei	44	7.6%	42	6.1%
128	130	Dargaville	6	4.7%	0	0.0%
63	110	Kaikohe	4	6.3%	9	8.2%
5113	5012	Auckland	265	5.2%	356	7.1%
5881	5942	North	319	5.4%	407	6.8%
2226	2076	Hamilton	135	6.1%	113	5.4%
2405	2306	Tauranga	167	6.9%	152	6.6%
312	200	Rotorua	19	6.1%	11	5.5%
437	469	Whakatane	35	8.0%	54	11.5%
0	1157	Taupo	0	0.0%	43	3.7%
530	524	New Plymouth	44	8.3%	28	5.3%
0	451	Gisborne	0	0.0%	59	13.1%
5910	7183	Midland	400	6.8%	460	6.4%
292	285	Napier	44	15.1%	45	15.8%
163	144	Hastings	29	17.8%	41	28.5%
274	181	Wanganui	13	4.7%	11	6.1%
2122	932	Palmerston North/Levin/Dannevirke	69	3.3%	8	0.9%
1741	1697	Wellington	46	2.6%	54	3.2%
189	105	Lower Hutt	6	3.2%	2	1.9%
41	81	Porirua	1	2.4%	2	2.5%
669	837	Nelson	13	1.9%	21	2.5%
115	106	Wairau (Blenheim)	1	0.9%	2	1.9%
5606	4368	Central	222	4.0%	186	4.3%
103	77	Greymouth	4	3.9%	4	5.2%
118	135	Westport/Buller	10	8.5%	14	10.4%
2039	2018	Christchurch	51	2.5%	78	3.9%
22	30	Ashburton	1	4.5%	1	3.3%
132	95	Timaru	7	5.3%	2	2.1%
634	808	Dunedin	28	4.4%	21	2.6%
417	368	Invercargill/Gore/Wyndham	33	7.9%	26	7.1%
3465	3531	South	134	3.9%	146	4.1%
20862	21024	Total	1075	5.2%	1199	5.7%

¹ Total no. clinic visits = total no. clinic visits for the report period for any reason.

² Rate = total no. cases/total no. clinic visits, expressed as a percentage.

Clinic visit rates may be unreliable where fewer than five cases were reported.

Note: People seek treatment for STIs from a variety of sources, including sexual health clinics, family planning clinics, student and youth health clinics, and general practitioners. The rates in the table above are for the type of clinic indicated; these rates may not be representative of other types of clinics or the general population.

Table 6. Gonorrhoea – number of cases and clinic visit rates at SHCs, October to December 2009 and 2010

Total Clinic Visits¹			2009 Total		2010 Total	
2009	2010	Clinic	No.	Rate²	No.	Rate²
577	690	Whangarei	2	0.3%	12	1.7%
128	130	Dargaville	0	0.0%	0	0.0%
63	110	Kaikohe	1	1.6%	0	0.0%
5113	5012	Auckland	50	1.0%	82	1.6%
5881	5942	North	53	0.9%	94	1.6%
2226	2076	Hamilton	22	1.0%	16	0.8%
2405	2306	Tauranga	16	0.7%	14	0.6%
312	200	Rotorua	4	1.3%	2	1.0%
437	469	Whakatane	2	0.5%	11	2.3%
0	1157	Taupo	0	0.0%	1	0.1%
530	524	New Plymouth	4	0.8%	8	1.5%
0	451	Gisborne	0	0.0%	22	4.9%
5910	7183	Midland	48	0.8%	74	1.0%
292	285	Napier	15	5.1%	3	1.1%
163	144	Hastings	8	4.9%	3	2.1%
274	181	Wanganui	7	2.6%	6	3.3%
2122	932	Palmerston North/Levin/Dannevirke	6	0.3%	2	0.2%
1741	1697	Wellington	8	0.5%	9	0.5%
189	105	Lower Hutt	0	0.0%	0	0.0%
41	81	Porirua	0	0.0%	0	0.0%
669	837	Nelson	2	0.3%	7	0.8%
115	106	Wairau (Blenheim)	0	0.0%	0	0.0%
5606	4368	Central	46	0.8%	30	0.7%
103	77	Greymouth	1	1.0%	1	1.3%
118	135	Westport/Buller	0	0.0%	0	0.0%
2039	2018	Christchurch	6	0.3%	5	0.2%
22	30	Ashburton	0	0.0%	0	0.0%
132	95	Timaru	2	1.5%	0	0.0%
634	808	Dunedin	2	0.3%	2	0.2%
417	368	Invercargill/Gore/Wyndham	5	1.2%	2	0.5%
3465	3531	South	16	0.5%	10	0.3%
20862	21024	Total	163	0.8%	208	1.0%

¹ Total no. clinic visits = total no. clinic visits for the report period for any reason.

² Rate = total no. cases/total no. clinic visits, expressed as a percentage.

Clinic visit rates may be unreliable where fewer than five cases were reported.

Note: People seek treatment for STIs from a variety of sources, including sexual health clinics, family planning clinics, student and youth health clinics, and general practitioners. The rates in the table above are for the type of clinic indicated; these rates may not be representative of other types of clinics or the general population.

Table 7. Genital herpes – number of cases and clinic visit rates at SHCs, October to December 2009 and 2010

<u>Total Clinic Visits¹</u>			<u>2009 Total</u>		<u>2010 Total</u>	
<u>2009</u>	<u>2010</u>	<u>Clinic</u>	<u>No.</u>	<u>Rate²</u>	<u>No.</u>	<u>Rate²</u>
577	690	Whangarei	5	0.9%	3	0.4%
128	130	Dargaville	0	0.0%	0	0.0%
63	110	Kaikohe	1	1.6%	0	0.0%
5113	5012	Auckland	36	0.7%	39	0.8%
5881	5942	North	42	0.7%	42	0.7%
2226	2076	Hamilton	16	0.7%	24	1.2%
2405	2306	Tauranga	28	1.2%	19	0.8%
312	200	Rotorua	0	0.0%	1	0.5%
437	469	Whakatane	2	0.5%	0	0.0%
0	1157	Taupo	0	0.0%	3	0.3%
530	524	New Plymouth	13	2.5%	13	2.5%
0	451	Gisborne	0	0.0%	0	0.0%
5910	7183	Midland	59	1.0%	60	0.8%
292	285	Napier	9	3.1%	4	1.4%
163	144	Hastings	2	1.2%	2	1.4%
274	181	Wanganui	4	1.5%	6	3.3%
2122	932	Palmerston North/Levin/Dannevirke	7	0.3%	9	1.0%
1741	1697	Wellington	11	0.6%	13	0.8%
189	105	Lower Hutt	1	0.5%	1	1.0%
41	81	Porirua	0	0.0%	0	0.0%
669	837	Nelson	10	1.5%	5	0.6%
115	106	Wairau (Blenheim)	2	1.7%	2	1.9%
5606	4368	Central	46	0.8%	42	1.0%
103	77	Greymouth	0	0.0%	0	0.0%
118	135	Westport/Buller	2	1.7%	2	1.5%
2039	2018	Christchurch	22	1.1%	25	1.2%
22	30	Ashburton	0	0.0%	0	0.0%
132	95	Timaru	2	1.5%	4	4.2%
634	808	Dunedin	8	1.3%	4	0.5%
417	368	Invercargill/Gore/Wyndham	13	3.1%	13	3.5%
3465	3531	South	47	1.4%	48	1.4%
20862	21024	Total	194	0.9%	192	0.9%

¹ Total no. clinic visits = total no. clinic visits for the report period for any reason.

² Rate = total no. cases/total no. clinic visits, expressed as a percentage.

Clinic visit rates may be unreliable where fewer than five cases were reported.

Note: People seek treatment for STIs from a variety of sources, including sexual health clinics, family planning clinics, student and youth health clinics, and general practitioners. The rates in the table above are for the type of clinic indicated; these rates may not be representative of other types of clinics or the general population.

Table 8. Genital warts – number of cases and clinic visit rates at SHCs, October to December 2009 and 2010

<u>Total Clinic Visits¹</u>			<u>2009 Total</u>		<u>2010 Total</u>	
<u>2009</u>	<u>2010</u>	<u>Clinic</u>	<u>No.</u>	<u>Rate²</u>	<u>No.</u>	<u>Rate²</u>
577	690	Whangarei	18	3.1%	16	2.3%
128	130	Dargaville	1	0.8%	0	0.0%
63	110	Kaikohe	0	0.0%	1	0.9%
5113	5012	Auckland	170	3.3%	210	4.2%
5881	5942	North	189	3.2%	227	3.8%
2226	2076	Hamilton	119	5.3%	81	3.9%
2405	2306	Tauranga	65	2.7%	56	2.4%
312	200	Rotorua	14	4.5%	7	3.5%
437	469	Whakatane	11	2.5%	8	1.7%
0	1157	Taupo	0	0.0%	5	0.4%
530	524	New Plymouth	32	6.0%	12	2.3%
0	451	Gisborne	0	0.0%	0	0.0%
5910	7183	Midland	241	4.1%	169	2.4%
292	285	Napier	24	8.2%	19	6.7%
163	144	Hastings	13	8.0%	5	3.5%
274	181	Wanganui	4	1.5%	3	1.7%
2122	932	Palmerston North/Levin/Dannevirke	24	1.1%	17	1.8%
1741	1697	Wellington	52	3.0%	42	2.5%
189	105	Lower Hutt	13	6.9%	1	1.0%
41	81	Porirua	6	14.6%	7	8.6%
669	837	Nelson	17	2.5%	29	3.5%
115	106	Wairau (Blenheim)	13	11.3%	9	8.5%
5606	4368	Central	166	3.0%	132	3.0%
103	77	Greymouth	7	6.8%	1	1.3%
118	135	Westport/Buller	4	3.4%	5	3.7%
2039	2018	Christchurch	52	2.6%	63	3.1%
22	30	Ashburton	2	9.1%	3	10.0%
132	95	Timaru	6	4.5%	4	4.2%
634	808	Dunedin	27	4.3%	32	4.0%
417	368	Invercargill/Gore/Wyndham	28	6.7%	15	4.1%
3465	3531	South	126	3.6%	123	3.5%
20862	21024	Total	722	3.5%	651	3.1%

¹ Total no. clinic visits = total no. clinic visits for the report period for any reason.

² Rate = total no. cases/total no. clinic visits, expressed as a percentage.

Clinic visit rates may be unreliable where fewer than five cases were reported.

Note: People seek treatment for STIs from a variety of sources, including sexual health clinics, family planning clinics, student and youth health clinics, and general practitioners. The rates in the table above are for the type of clinic indicated; these rates may not be representative of other types of clinics or the general population.

Table 9. Syphilis – number of cases and clinic visit rates at SHCs, October to December 2009 and 2010

<u>Total Clinic Visits¹</u>			<u>2009 Total</u>		<u>2010 Total</u>	
<u>2009</u>	<u>2010</u>	<u>Clinic</u>	<u>No.</u>	<u>Rate²</u>	<u>No.</u>	<u>Rate²</u>
577	690	Whangarei	0	0.0%	0	0.0%
128	130	Dargaville	0	0.0%	0	0.0%
63	110	Kaikohe	0	0.0%	0	0.0%
5113	5012	Auckland	4	0.1%	13	0.3%
5881	5942	North	4	0.1%	13	0.2%
2226	2076	Hamilton	2	0.1%	1	0.0%
2405	2306	Tauranga	0	0.0%	0	0.0%
312	200	Rotorua	0	0.0%	1	0.5%
437	469	Whakatane	0	0.0%	0	0.0%
0	1157	Taupo	0	0.0%	0	0.0%
530	524	New Plymouth	1	0.2%	0	0.0%
0	451	Gisborne	0	0.0%	0	0.0%
5910	7183	Midland	3	0.1%	2	0.0%
292	285	Napier	0	0.0%	0	0.0%
163	144	Hastings	0	0.0%	0	0.0%
274	181	Wanganui	0	0.0%	0	0.0%
2122	932	Palmerston North/Levin/Dannevirke	0	0.0%	1	0.1%
1741	1697	Wellington	7	0.4%	3	0.2%
189	105	Lower Hutt	3	1.6%	0	0.0%
41	81	Porirua	1	2.4%	0	0.0%
669	837	Nelson	0	0.0%	1	0.1%
115	106	Wairau (Blenheim)	0	0.0%	0	0.0%
5606	4368	Central	11	0.2%	5	0.1%
103	77	Greymouth	2	1.9%	0	0.0%
118	135	Westport/Buller	0	0.0%	0	0.0%
2039	2018	Christchurch	7	0.3%	1	0.0%
22	30	Ashburton	0	0.0%	0	0.0%
132	95	Timaru	0	0.0%	0	0.0%
634	808	Dunedin	0	0.0%	0	0.0%
417	368	Invercargill/Gore/Wyndham	0	0.0%	0	0.0%
3465	3531	South	9	0.3%	1	0.0%
20862	21024	Total	27	0.1%	21	0.1%

¹ Total no. clinic visits = total no. clinic visits for the report period for any reason.

² Rate = total no. cases/total no. clinic visits, expressed as a percentage.

Clinic visit rates may be unreliable where fewer than five cases were reported.

Note: People seek treatment for STIs from a variety of sources, including sexual health clinics, family planning clinics, student and youth health clinics, and general practitioners. The rates in the table above are for the type of clinic indicated; these rates may not be representative of other types of clinics or the general population.

Table 10. NSU (males only) – number of cases and clinic visit rates at SHCs, October to December 2009 and 2010

<u>Total Clinic Visits for males¹</u>			<u>2009 Total</u>		<u>2010 Total</u>	
<u>2009</u>	<u>2010</u>	<u>Clinic</u>	<u>No.</u>	<u>Rate²</u>	<u>No.</u>	<u>Rate²</u>
151	247	Whangarei	0	0.0%	0	0.0%
11	7	Dargaville	0	0.0%	0	0.0%
6	10	Kaikohe	0	0.0%	0	0.0%
2430	2445	Auckland	87	3.6%	94	3.8%
2598	2709	North	87	3.3%	94	3.5%
906	827	Hamilton	10	1.1%	22	2.7%
550	467	Tauranga	21	3.8%	18	3.9%
155	98	Rotorua	0	0.0%	0	0.0%
52	72	Whakatane	1	1.9%	2	2.8%
0	111	Taupo	0	0.0%	0	0.0%
221	224	New Plymouth	13	5.9%	8	3.6%
0	71	Gisborne	0	0.0%	0	0.0%
1884	1870	Midland	45	2.4%	50	2.7%
96	71	Napier	0	0.0%	0	0.0%
37	27	Hastings	0	0.0%	0	0.0%
106	69	Wanganui	0	0.0%	0	0.0%
907	434	Palmerston North/Levin/Dannevirke	8	0.9%	9	2.1%
957	928	Wellington	10	1.0%	11	1.2%
110	49	Lower Hutt	2	1.8%	1	2.0%
14	43	Porirua	0	0.0%	0	0.0%
296	311	Nelson	0	0.0%	2	0.6%
45	57	Wairau (Blenheim)	0	0.0%	0	0.0%
2568	1989	Central	20	0.8%	23	1.2%
56	32	Greymouth	0	0.0%	0	0.0%
41	60	Westport/Buller	1	2.4%	1	1.7%
1129	1027	Christchurch	16	1.4%	8	0.8%
12	21	Ashburton	0	0.0%	0	0.0%
60	48	Timaru	0	0.0%	0	0.0%
221	283	Dunedin	0	0.0%	0	0.0%
208	180	Invercargill/Gore/Wyndham	3	1.4%	8	4.4%
1727	1651	South	20	1.2%	17	1.0%
8777	8219	Total	172	2.0%	184	2.2%

¹ Total no. clinic visits = total no. clinic visits for the report period for any reason.

² Rate = total no. cases/total no. clinic visits, expressed as a percentage.

Clinic visit rates may be unreliable where fewer than five cases were reported.

Note: People seek treatment for STIs from a variety of sources, including sexual health clinics, family planning clinics, student and youth health clinics, and general practitioners. The rates in the table above are for the type of clinic indicated; these rates may not be representative of other types of clinics or the general population.

Table 11. Number of cases and clinic visit rates¹ for each STI by age, sex and ethnicity at SHCs, October to December 2010

		Age group (years)									
		<15	15-19	20-24	25-29	30-34	35-39	40-44	>44	Unk	Total
<u>Chlamydia</u>											
Males	European/Pakeha	0	38	93	47	29	14	7	20	0	248
		0.0	8.5	7.3	4.6	4.0	2.2	1.8	1.9	0.0	4.5
	Maori	1	54	53	32	15	10	5	1	0	171
		14.3	22.6	15.2	16.2	9.8	8.9	6.9	1.7	0.0	14.4
	Pacific Peoples	0	13	24	16	3	4	2	1	0	63
		0.0	28.3	24.0	24.2	4.6	12.5	6.9	5.0	-	17.5
	Other	0	3	14	11	6	5	3	3	0	45
		0.0	10.0	7.5	4.4	4.3	5.3	3.1	2.0	-	4.7
	Unknown	0	0	2	1	0	1	0	1	0	5
		0.0	0.0	5.0	2.4	0.0	6.3	0.0	2.0	0.0	2.3
Total		<u>1</u>	<u>108</u>	<u>186</u>	<u>107</u>	<u>53</u>	<u>34</u>	<u>17</u>	<u>26</u>	<u>0</u>	<u>532</u>
		<u>5.9</u>	<u>14.0</u>	<u>9.5</u>	<u>6.8</u>	<u>4.8</u>	<u>3.9</u>	<u>2.9</u>	<u>2.0</u>	<u>0.0</u>	<u>6.5</u>
Females	European/Pakeha	4	97	89	27	12	11	3	4	0	247
		4.0	4.7	4.0	2.2	1.8	2.0	0.9	0.7	0.0	3.2
	Maori	10	150	96	32	18	3	6	2	0	317
		7.8	12.0	11.0	6.9	6.9	1.7	6.4	2.0	0.0	9.4
	Pacific Peoples	0	14	28	10	5	4	2	0	0	63
		0.0	10.1	16.7	9.2	8.6	16.0	20.0	0.0	-	12.0
	Other	0	9	11	5	2	4	1	0	0	32
		0.0	6.5	4.4	2.1	1.6	3.8	1.8	0.0	-	3.0
	Unknown	0	5	1	2	0	0	0	0	0	8
		0.0	20.8	2.2	5.0	0.0	0.0	0.0	0.0	-	4.6
Total		<u>14</u>	<u>275</u>	<u>225</u>	<u>76</u>	<u>37</u>	<u>22</u>	<u>12</u>	<u>6</u>	<u>0</u>	<u>667</u>
		<u>5.9</u>	<u>7.6</u>	<u>6.3</u>	<u>3.7</u>	<u>3.3</u>	<u>2.5</u>	<u>2.4</u>	<u>0.7</u>	<u>0.0</u>	<u>5.2</u>
<u>Gonorrhoea</u>											
Males	European/Pakeha	0	5	14	6	6	2	4	5	0	42
		0.0	1.1	1.1	0.6	0.8	0.3	1.1	0.5	0.0	0.8
	Maori	1	19	16	5	7	3	1	0	0	52
		14.3	7.9	4.6	2.5	4.6	2.7	1.4	0.0	0.0	4.4
	Pacific Peoples	0	4	7	7	1	1	0	1	0	21
		0.0	8.7	7.0	10.6	1.5	3.1	0.0	5.0	-	5.8
	Other	0	0	0	2	1	1	2	2	0	8
		0.0	0.0	0.0	0.8	0.7	1.1	2.1	1.3	-	0.8
	Unknown	0	0	1	0	0	0	0	2	0	3
		0.0	0.0	2.5	0.0	0.0	0.0	0.0	3.9	0.0	1.4
Total		<u>1</u>	<u>28</u>	<u>38</u>	<u>20</u>	<u>15</u>	<u>7</u>	<u>7</u>	<u>10</u>	<u>0</u>	<u>126</u>
		<u>5.9</u>	<u>3.6</u>	<u>1.9</u>	<u>1.3</u>	<u>1.4</u>	<u>0.8</u>	<u>1.2</u>	<u>0.8</u>	<u>0.0</u>	<u>1.5</u>
Females	European/Pakeha	0	8	6	5	1	1	1	0	0	22
		0.0	0.4	0.3	0.4	0.2	0.2	0.3	0.0	0.0	0.3
	Maori	1	22	13	7	3	1	1	0	0	48
		0.8	1.8	1.5	1.5	1.1	0.6	1.1	0.0	0.0	1.4
	Pacific Peoples	0	2	3	1	0	0	1	0	0	7
		0.0	1.4	1.8	0.9	0.0	0.0	10.0	0.0	-	1.3
	Other	0	0	0	0	1	0	0	1	0	2
		0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.8	-	0.2
	Unknown	0	2	0	1	0	0	0	0	0	3
		0.0	8.3	0.0	2.5	0.0	0.0	0.0	0.0	-	1.7
Total		<u>1</u>	<u>34</u>	<u>22</u>	<u>14</u>	<u>5</u>	<u>2</u>	<u>3</u>	<u>1</u>	<u>0</u>	<u>82</u>
		<u>0.4</u>	<u>0.9</u>	<u>0.6</u>	<u>0.7</u>	<u>0.4</u>	<u>0.2</u>	<u>0.6</u>	<u>0.1</u>	<u>0.0</u>	<u>0.6</u>

¹ Rate = total no. of cases/total no. of clinic visits), expressed as a percentage.
Clinic visit rates may be unreliable where fewer than five cases were reported.

		Age group (years)									
		<15	15-19	20-24	25-29	30-34	35-39	40-44	>44	Unk	Total
<i>Genital Herpes (first presentation)</i>											
Males	European/Pakeha	0	9	18	11	6	15	5	11	0	75
		0.0	2.0	1.4	1.1	0.8	2.4	1.3	1.1	0.0	1.4
	Maori	0	0	3	1	2	3	2	0	0	11
		0.0	0.0	0.9	0.5	1.3	2.7	2.8	0.0	0.0	0.9
	Pacific Peoples	0	0	1	1	0	0	0	0	0	2
		0.0	0.0	1.0	1.5	0.0	0.0	0.0	0.0	-	0.6
	Other	0	0	0	2	0	0	0	0	0	2
		0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	-	0.2
Unknown	0	0	1	1	0	0	0	1	0	3	
	0.0	0.0	2.5	2.4	0.0	0.0	0.0	2.0	0.0	1.4	
Total	0	9	23	16	8	18	7	12	0	93	
	0.0	1.2	1.2	1.0	0.7	2.0	1.2	0.9	0.0	1.1	
Females	European/Pakeha	0	17	22	9	5	4	8	3	0	68
		0.0	0.8	1.0	0.7	0.8	0.7	2.5	0.6	0.0	0.9
	Maori	0	3	4	3	2	2	0	0	0	14
		0.0	0.2	0.5	0.6	0.8	1.1	0.0	0.0	0.0	0.4
	Pacific Peoples	0	0	0	2	0	0	0	0	0	2
		0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	-	0.4
	Other	0	0	2	3	1	0	2	2	0	10
		0.0	0.0	0.8	1.3	0.8	0.0	3.5	1.5	-	1.0
Unknown	0	0	0	1	0	2	1	1	0	5	
	0.0	0.0	0.0	2.5	0.0	13.3	7.1	5.0	-	2.9	
Total	0	20	28	18	8	8	11	6	0	99	
	0.0	0.6	0.8	0.9	0.7	0.9	2.2	0.7	0.0	0.8	
<i>Genital Warts (first presentation)</i>											
Males	European/Pakeha	0	22	80	56	33	21	17	26	0	255
		0.0	4.9	6.3	5.5	4.6	3.3	4.5	2.5	0.0	4.6
	Maori	0	5	15	7	3	5	2	1	0	38
		0.0	2.1	4.3	3.5	2.0	4.5	2.8	1.7	0.0	3.2
	Pacific Peoples	0	0	8	3	0	2	0	1	0	14
		0.0	0.0	8.0	4.5	0.0	6.3	0.0	5.0	-	3.9
	Other	0	2	2	10	5	3	3	2	0	27
		0.0	6.7	1.1	4.0	3.6	3.2	3.1	1.3	-	2.8
Unknown	0	1	2	0	0	0	0	3	0	6	
	0.0	12.5	5.0	0.0	0.0	0.0	0.0	5.9	0.0	2.8	
Total	0	30	107	76	41	31	22	33	0	340	
	0.0	3.9	5.5	4.8	3.7	3.5	3.8	2.5	0.0	4.1	
Females	European/Pakeha	1	44	95	30	13	5	5	16	0	209
		1.0	2.1	4.3	2.5	2.0	0.9	1.5	3.0	0.0	2.7
	Maori	0	27	23	7	2	3	1	0	0	63
		0.0	2.2	2.6	1.5	0.8	1.7	1.1	0.0	0.0	1.9
	Pacific Peoples	0	1	3	1	3	0	1	0	0	9
		0.0	0.7	1.8	0.9	5.2	0.0	10.0	0.0	-	1.7
	Other	0	1	7	6	2	3	0	5	0	24
		0.0	0.7	2.8	2.5	1.6	2.8	0.0	3.8	-	2.3
Unknown	0	1	4	1	0	0	0	0	0	6	
	0.0	4.2	8.9	2.5	0.0	0.0	0.0	0.0	-	3.5	
Total	1	74	132	45	20	11	7	21	0	311	
	0.4	2.0	3.7	2.2	1.8	1.3	1.4	2.6	0.0	2.4	

¹ Rate = total no. of cases/total no. of clinic visits), expressed as a percentage.
Clinic visit rates may be unreliable where fewer than five cases were reported.

		Age group (years)									
		<u><15</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30-34</u>	<u>35-39</u>	<u>40-44</u>	<u>>44</u>	<u>Unk</u>	<u>Total</u>
<u>Syphilis</u>											
Males	European/Pakeha	0	0	2	0	3	1	2	3	0	11
		0.0	0.0	0.2	0.0	0.4	0.2	0.5	0.3	0.0	0.2
	Maori	0	1	0	0	0	1	0	0	0	2
		0.0	0.4	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.2
	Pacific Peoples	0	0	0	0	0	1	0	0	0	1
		0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	-	0.3
	Other	0	0	0	2	0	0	0	1	0	3
		0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.7	-	0.3
Total	0	1	2	2	3	3	2	4	0	17	
	0.0	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.0	0.2	
Females	Maori	0	0	0	0	0	0	0	1	0	1
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
	Other	0	0	0	0	0	2	0	1	0	3
		0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.8	-	0.3
	Total	0	0	0	0	0	2	0	2	0	4
	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.9	0.0	0.1	
<u>NSU (Males Only)</u>											
Males	European/Pakeha	0	10	32	28	11	16	10	14	0	121
		0.0	2.2	2.5	2.8	1.5	2.6	2.6	1.4	0.0	2.2
	Maori	0	5	9	5	2	3	4	3	0	31
		0.0	2.1	2.6	2.5	1.3	2.7	5.6	5.0	0.0	2.6
	Pacific Peoples	0	0	4	3	0	1	2	0	0	10
		0.0	0.0	4.0	4.5	0.0	3.1	6.9	0.0	-	2.8
	Other	0	0	4	7	4	1	2	1	0	19
		0.0	0.0	2.2	2.8	2.9	1.1	2.1	0.7	-	2.0
	Unknown	0	0	0	1	0	0	0	2	0	3
		0.0	0.0	0.0	2.4	0.0	0.0	0.0	3.9	0.0	1.4
Total	0	15	49	44	17	21	18	20	0	184	
	0.0	1.9	2.5	2.8	1.5	2.4	3.1	1.5	0.0	2.2	

¹ Rate = total no. of cases/total no. of clinic visits), expressed as a percentage.
Clinic visit rates may be unreliable where fewer than five cases were reported.

Family planning clinic data

Table 12. Number of cases and clinic visit rates¹ for each STI by age, sex and ethnicity at FPCs, October to December 2010

		Age group (years)									
		<15	15-19	20-24	25-29	30-34	35-39	40-44	>44	Unk	Total
<i>Chlamydia</i>											
Males	European/Pakeha	0	20	26	6	0	0	0	0	0	52
		0.0	5.0	6.9	4.5	0.0	0.0	0.0	0.0	-	4.3
	Maori	0	10	6	3	1	0	0	0	0	20
		0.0	7.6	8.5	13.6	9.1	0.0	0.0	0.0	-	8.0
	Pacific Peoples	0	5	4	3	1	1	0	0	0	14
		0.0	16.7	19.0	37.5	12.5	20.0	0.0	0.0	-	17.7
	Other	0	1	0	1	0	0	0	0	0	2
		0.0	3.3	0.0	7.1	0.0	0.0	0.0	0.0	-	2.1
	Unknown	0	2	4	0	0	0	0	0	0	6
		0.0	3.8	10.5	0.0	0.0	0.0	0.0	0.0	0.0	3.6
	Total	0	38	40	13	2	1	0	0	0	94
		0.0	5.9	7.6	6.7	1.7	0.8	0.0	0.0	0.0	5.2
Females	European/Pakeha	5	137	92	19	3	10	2	3	0	271
		1.2	1.4	1.0	0.5	0.1	0.5	0.2	0.2	0.0	0.9
	Maori	7	97	61	21	8	2	1	0	0	197
		2.9	3.8	3.3	2.7	1.6	0.7	0.5	0.0	-	3.0
	Pacific Peoples	0	32	22	6	3	0	0	0	0	63
		0.0	5.0	3.4	2.3	1.5	0.0	0.0	0.0	-	3.1
	Other	1	4	6	3	1	0	0	0	0	15
		9.1	0.7	0.7	0.5	0.2	0.0	0.0	0.0	-	0.4
	Unknown	1	10	2	4	2	0	0	0	0	19
		2.8	1.4	0.3	1.0	0.6	0.0	0.0	0.0	0.0	0.7
	Total	14	280	183	53	17	12	3	3	0	565
		1.9	2.0	1.4	0.9	0.5	0.4	0.2	0.1	0.0	1.3
<i>Gonorrhoea</i>											
Males	European/Pakeha	0	1	1	2	0	0	0	0	0	4
		0.0	0.2	0.3	1.5	0.0	0.0	0.0	0.0	-	0.3
	Maori	0	5	3	0	0	0	0	0	0	8
		0.0	3.8	4.2	0.0	0.0	0.0	0.0	0.0	-	3.2
	Unknown	0	0	1	0	0	0	0	0	0	1
		0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6
	Total	0	6	5	2	0	0	0	0	0	13
		0.0	1.0	1.0	1.2	0.0	0.0	0.0	0.0	0.0	0.8
Females	European/Pakeha	0	7	2	1	0	0	0	0	0	10
		0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Maori	0	9	5	1	0	1	0	0	0	16
		0.0	0.4	0.3	0.1	0.0	0.3	0.0	0.0	-	0.2
	Pacific Peoples	0	3	0	1	0	0	0	0	0	4
		0.0	0.5	0.0	0.4	0.0	0.0	0.0	0.0	-	0.2
	Other	0	0	1	0	0	0	0	0	0	1
		0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	-	0.0
	Unknown	0	0	1	0	0	0	0	0	0	1
		0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total	0	19	9	3	0	1	0	0	0	32
		0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1

¹ Rate = total no. of cases/total no. of clinic visits), expressed as a percentage.
Clinic visit rates may be unreliable where fewer than five cases were reported.

		Age group (years)									
		<15	15-19	20-24	25-29	30-34	35-39	40-44	>44	Unk	Total
<u>Genital Herpes (first presentation)</u>											
Males	European/Pakeha	0	3	5	1	1	1	0	0	0	11
		0.0	0.7	1.3	0.7	1.1	1.2	0.0	0.0	-	0.9
	Total	0	3	5	1	1	1	0	0	0	11
		0.0	0.7	1.3	0.7	1.1	1.2	0.0	0.0	0.0	0.9
Females	European/Pakeha	0	7	13	4	1	4	2	2	0	33
		0.0	0.1	0.1	0.1	0.0	0.2	0.2	0.1	0.0	0.1
	Maori	0	1	2	1	1	0	0	0	0	5
		0.0	0.0	0.1	0.1	0.2	0.0	0.0	0.0	-	0.1
	Other	0	0	1	0	0	0	1	0	0	2
		0.0	0.0	0.1	0.0	0.0	0.0	0.5	0.0	-	0.1
	Unknown	0	1	1	0	0	0	1	0	0	3
		0.0	0.1	0.2	0.0	0.0	0.0	0.5	0.0	0.0	0.1
Total	0	9	17	5	2	4	4	2	0	43	
	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.0	0.1	
<u>Genital Warts (first presentation)</u>											
Males	European/Pakeha	0	5	6	3	0	0	1	0	0	15
		0.0	1.2	1.6	2.2	0.0	0.0	1.8	0.0	-	1.2
	Maori	0	0	1	0	0	0	0	0	0	1
		0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	-	0.4
	Other	0	0	0	1	0	0	0	0	0	1
		0.0	0.0	0.0	7.1	0.0	0.0	0.0	0.0	-	1.1
	Unknown	0	1	0	0	0	0	0	1	0	2
		0.0	1.9	0.0	0.0	0.0	0.0	0.0	8.3	0.0	1.2
Total	0	6	7	4	0	0	1	1	0	19	
	0.0	1.0	1.4	2.1	0.0	0.0	1.4	1.4	0.0	1.1	
Females	European/Pakeha	0	17	11	2	1	0	0	2	0	33
		0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.1
	Maori	0	2	6	0	1	0	0	0	0	9
		0.0	0.1	0.3	0.0	0.2	0.0	0.0	0.0	-	0.1
	Pacific Peoples	1	2	0	0	0	0	0	0	0	3
		2.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	-	0.1
	Other	0	0	3	1	0	0	0	0	0	4
		0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.0	-	0.1
Unknown	0	0	1	0	0	0	0	0	0	1	
	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total	1	21	21	3	2	0	0	2	0	50	
	0.1	0.2	0.2	0.0	0.1	0.0	0.0	0.1	0.0	0.1	
<u>NSU (Males Only)</u>											
Males	European/Pakeha	0	0	0	1	0	0	0	0	0	1
		0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	-	0.1
	Unknown	0	1	0	0	0	0	0	0	0	1
		0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
Total	0	1	0	1	0	0	0	0	0	2	
	0.0	0.2	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.6	

¹ Rate = total no. of cases/total no. of clinic visits), expressed as a percentage.
Clinic visit rates may be unreliable where fewer than five cases were reported.

Student and youth health clinic data

Table 13. Number of cases and clinic visit rates¹ for each STI by age, sex and ethnicity at SYHCs, October to December 2010

		Age group (years)									
		<15	15-19	20-24	25-29	30-34	35-39	40-44	>44	Unk	Total
<u>Chlamydia</u>											
Males	European/Pakeha	0	10	14	2	0	0	0	0	0	26
		0.0	1.3	0.6	0.3	0.0	0.0	0.0	0.0	-	0.6
	Maori	0	4	6	0	0	0	0	0	0	10
		0.0	3.3	1.9	0.0	0.0	0.0	0.0	0.0	-	1.3
	Pacific Peoples	0	1	3	1	0	0	0	0	0	5
		0.0	3.0	3.3	2.5	0.0	0.0	0.0	0.0	-	1.7
	Other	0	0	5	0	0	0	0	0	0	5
		0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	-	0.2
	Unknown	0	1	1	1	0	0	0	0	0	3
		0.0	10.0	4.2	10.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		0	16	29	4	0	0	0	0	0	49
		0.0	1.3	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.3
Females	European/Pakeha	1	39	58	3	0	0	0	0	0	101
		5.6	1.3	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.8
	Maori	2	41	16	1	0	0	0	0	1	61
		9.5	7.1	1.5	0.5	0.0	0.0	0.0	0.0	100.0	2.5
	Pacific Peoples	0	2	7	0	0	0	0	0	0	9
		0.0	2.2	2.3	0.0	0.0	0.0	0.0	0.0	-	1.4
	Other	0	2	6	3	0	0	0	0	0	11
		0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	-	0.2
	Unknown	0	0	3	0	0	0	0	0	0	3
		0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		3	84	90	7	0	0	0	0	1	185
		5.7	2.0	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.5
<u>Gonorrhoea</u>											
Males	European/Pakeha	0	2	3	0	0	0	0	0	0	5
		0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	-	0.1
	Total	0	2	3	0	0	0	0	0	0	5
		0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Females	European/Pakeha	0	0	4	1	0	0	0	0	0	5
		0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	Maori	0	1	2	0	0	0	0	0	0	3
		0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total		0	1	6	1	0	0	0	0	0	8
		0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
<u>Genital Herpes (first presentation)</u>											
Males	European/Pakeha	0	0	4	0	0	0	0	0	0	4
		0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	-	0.1
	Maori	0	2	0	0	0	0	0	0	0	2
		0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	-	0.3
	Other	0	0	1	0	1	0	0	0	0	2
		0.0	0.0	0.1	0.0	0.3	0.0	0.0	0.0	-	0.1
Total		0	2	5	0	1	0	0	0	0	8
		0.0	0.2	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.1
Females	European/Pakeha	0	4	9	1	0	0	1	0	0	15
		0.0	0.1	0.1	0.1	0.0	0.0	0.6	0.0	0.0	0.1
	Maori	0	1	0	0	0	0	0	0	0	1
		0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total	0	5	9	1	0	0	1	0	0	16
		0.0	0.1	0.1	0.1	0.0	0.0	0.4	0.0	0.0	0.1

¹ Rate = total no. of cases/total no. of clinic visits), expressed as a percentage.
Clinic visit rates may be unreliable where fewer than five cases were reported.

		Age group (years)									
		<15	15-19	20-24	25-29	30-34	35-39	40-44	>44	Unk	Total
<u>Genital Warts (first presentation)</u>											
Males	European/Pakeha	0	0	6	1	0	0	0	0	0	7
		0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	-	0.2
	Other	0	1	0	0	0	0	0	0	0	1
		0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0
	Total	<u>0</u>	<u>1</u>	<u>6</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>8</u>
		<u>0.0</u>	<u>0.1</u>	<u>0.2</u>	<u>0.1</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1</u>
Females	European/Pakeha	0	3	11	0	0	0	0	0	0	14
		0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
	Maori	0	0	1	0	0	0	0	0	0	1
		0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Other	0	0	1	1	0	0	0	0	0	2
		0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	-	0.0
	Unknown	0	0	1	0	0	0	0	0	0	1
		0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total	<u>0</u>	<u>3</u>	<u>14</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>18</u>
	<u>0.0</u>	<u>0.1</u>	<u>0.1</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1</u>	
<u>NSU (Males Only)</u>											
Males	Other	0	0	1	0	0	0	0	0	0	1
		0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	-	0.0
	Unknown	0	0	0	0	0	0	0	0	1	1
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>2</u>
		<u>0.0</u>	<u>0.0</u>	<u>0.1</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	

¹ Rate = total no. of cases/total no. of clinic visits), expressed as a percentage.
Clinic visit rates may be unreliable where fewer than five cases were reported.

Appendix: STI Surveillance Case Definitions

STI	Case Definition
Chlamydia	<p><i>Confirmed</i> Laboratory detection of <i>Chlamydia trachomatis</i> in a clinical specimen. Cases should be classified as:</p> <ol style="list-style-type: none"> 1. uncomplicated infection of the lower anogenital* tract (* includes urogenital and anorectal infection) 2. pelvic inflammatory disease (PID) or epididymitis 3. infection of another site (e.g., eye or pharynx) <p><i>Probable</i> Cases must be <u>all</u> of the following:</p> <ul style="list-style-type: none"> • symptomatic, and • a contact of a confirmed case, and • no laboratory confirmation (test negative or test not done).
Gonorrhoea	<p><i>Confirmed</i> Laboratory isolation of <i>Neisseria gonorrhoeae</i> from a clinical specimen. Cases should be classified as:</p> <ol style="list-style-type: none"> 1. uncomplicated infection of one or both of the following: <ol style="list-style-type: none"> a) urogenital tract b) anorectal area (proctitis) 2. PID or epididymitis 3. extra-genital infection of one or both of the following: <ol style="list-style-type: none"> a) pharynx b) other site not listed <p><i>Probable</i> Cases must be <u>all</u> of the following:</p> <ul style="list-style-type: none"> • symptomatic, and • a contact of a confirmed case, and • no laboratory confirmation (test negative or test not done).
Anogenital herpes	First diagnosis for the person at your clinic, with either <ol style="list-style-type: none"> 1. laboratory detection of herpes simplex virus from a clinical specimen, or 2. a clinically compatible illness in the lower anogenital and buttock area (syphilis should be considered as a cause of genital ulceration)
Anogenital warts	First diagnosis for the person at your clinic, with <u>visible</u> * typical lesion(s) on internal or external genitalia, perineum, or perianal region. * Do not include persons for whom there is <u>only</u> demonstration of human papillomavirus on cervical cytology or other laboratory method.
Syphilis	Infectious syphilis (primary, secondary and early latent) as diagnosed or confirmed by a venereologist, and early congenital syphilis as diagnosed or confirmed by a paediatrician or venereologist.
Non-specific urethritis (NSU) (males only)	Urethral discharge in a sexually active male with laboratory exclusion of gonorrhoea and chlamydia, who does not meet the definition of a probable case of gonorrhoea or chlamydia.
Chancroid	<p><i>Confirmed</i> Isolation of <i>Haemophilus ducreyi</i> from a clinical specimen.</p> <p><i>Probable</i> Typical 'shoal of fish' pattern on gram stain of a clinical specimen, where syphilis, granuloma inguinale (GI) and anogenital herpes have been excluded, or A clinically compatible illness in a patient who is a contact of a confirmed case.</p>
Granuloma inguinale (GI)	<p><i>Confirmed</i> Demonstration of intracytoplasmic Donovan bodies on Wright or Giemsa stained smears or biopsies of clinical specimens.</p> <p><i>Probable</i> A clinically compatible illness in a patient who is a contact of a confirmed case.</p>
Lymphogranuloma venereum (LGV)	<p><i>Confirmed</i> Laboratory detection of <i>Chlamydia trachomatis</i> serotype L₁, L₂ or L₃ from a clinical specimen.</p> <p><i>Probable</i> A clinically compatible illness with complement fixation titre of >64 and other causes of ulcerations excluded, or A clinically compatible illness in a person who is a contact of a confirmed case.</p>