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Feidhmeannacht na Seirbhíse Sláinte
Health Service Executive



HPSC

SEXUALLY TRANSMITTED INFECTIONS IN IRELAND, 2008

Annual Summary Report for 2008 | Health Protection Surveillance Centre

Acknowledgements

The Health Protection Surveillance Centre (HPSC) would like to thank all those who provided data for this report, particularly the STI clinics, and the infectious disease surveillance staff within the departments of public health, the laboratories and GP clinics.

Key Points

- During 2008, the total number of notifications for sexually transmitted infections (STI) (n=11,294) declined by 5.2% compared to 2007;
- Three notifiable infections accounted for 89.1% of all STI notifications in Ireland during 2007. These were:
 - *Chlamydia trachomatis* (55.7%, n=6,290);
 - Ano-genital warts (18.9%, n=2,134);
 - Non-specific urethritis (14.5%, n=1,636).
- Chlamydia notifications rose by 25.2% (n=6,290). Syphilis notifications (n=312) rose by 47% and gonorrhoea (n=444) by 6.5%;
- A decrease in notifications was observed for many STIs, in particular; non-specific urethritis (n=1,636), and ano-genital warts (n=2,134). Notifications for these infections decreased by 12.5% and 35% respectively;
- Men accounted for 52.2% (n=5,898) of STI notifications, women 45.1% (n=5,097), (unknown gender, n=299; 2.6%);
- Young adults aged 20-29 years accounted for 60% (n=6,781) of all STI notifications;
- Although laboratory notifications were received from HSE Mid-West during 2007, no clinical notifications were received. There were no STI services in HSE-North East during this period of reporting.

Table 1 STI notifications and changes between 2007 and 2008

Infection	2008	2007	Change	% Change
Ano-genital warts	2134	3283	-1149	-35.0%
Chancroid	0	1	-1	-100.0%
Chlamydia trachomatis infection (genital)	6290	5023	1267	25.2%
Gonorrhoea	444	417	27	6.5%
Granuloma inguinale	0	0	0	0.0%
Hepatitis B (acute or chronic)	14	25	-11	-44.0%
Herpes simplex (genital)	394	988	-594	-60.1%
Lymphogranuloma venereum	0	2	-2	-100.0%
Non-specific urethritis	1636	1870	-234	-12.5%
Syphilis	312	212	100	47.2%
Trichomoniasis	70	94	-24	-25.5%
Total	11294	11915	-621	-5.2%

Table 2 STI notifications by age-group during 2008

Infection	0–19 yrs	20–29 yrs	30–39 yrs	40+ yrs	Unknown	Total
Ano-genital warts	178	1364	355	130	107	2134
Chancroid	0	0	0	0	0	0
Chlamydia trachomatis infection (genital)	814	3820	819	170	667	6290
Gonorrhoea	31	247	92	48	26	444
Granuloma Inguinale	0	0	0	0	0	0
Hepatitis B (acute or chronic)	1	4	8	1	0	14
Herpes simplex (genital)	34	212	69	53	26	394
Lymphogranuloma venereum	0	0	0	0	0	0
Non-specific urethritis	100	1017	368	143	8	1636
Syphilis	1	90	116	86	19	312
Trichomoniasis	2	27	19	14	8	70
Total	1161	6781	1846	645	861	11294
(% of Total)	10.3%	60.0%	16.3%	5.7%	7.6%	100.0%

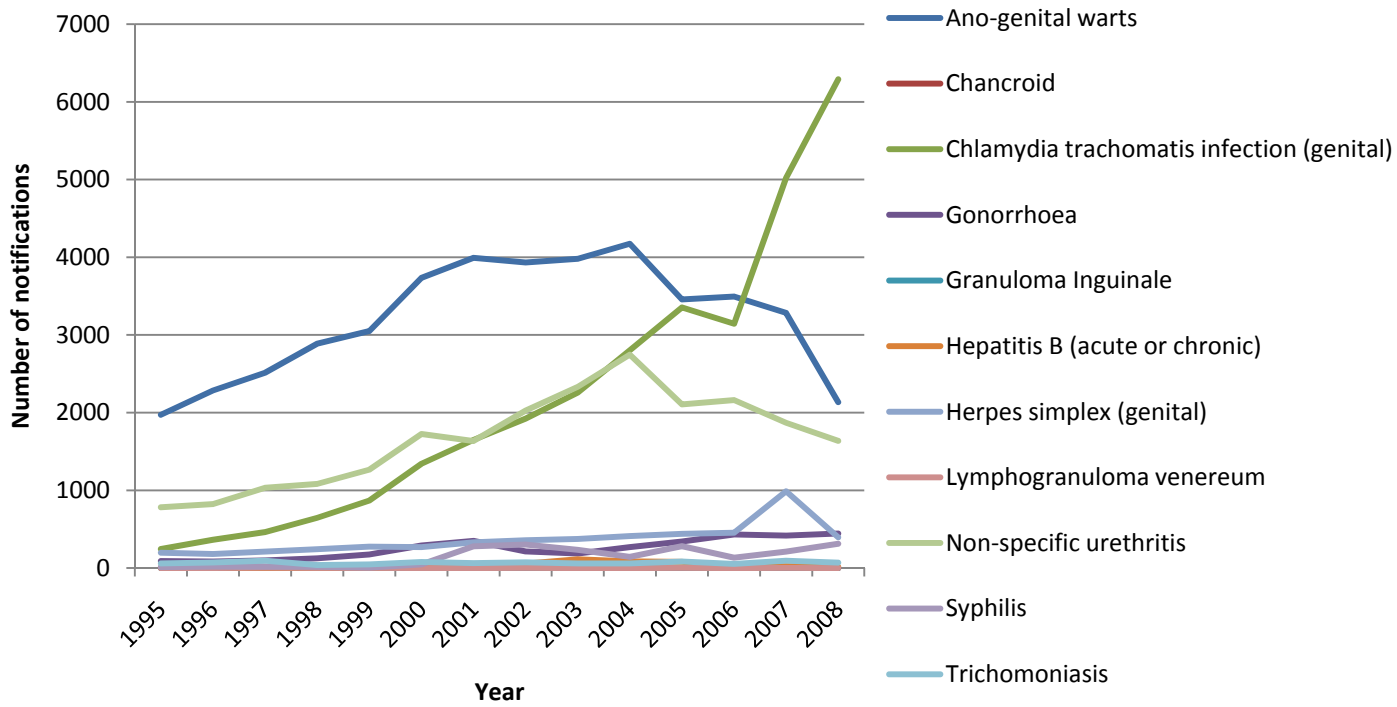


Figure 1 Trends in STI notifications by infection, 1995-2008

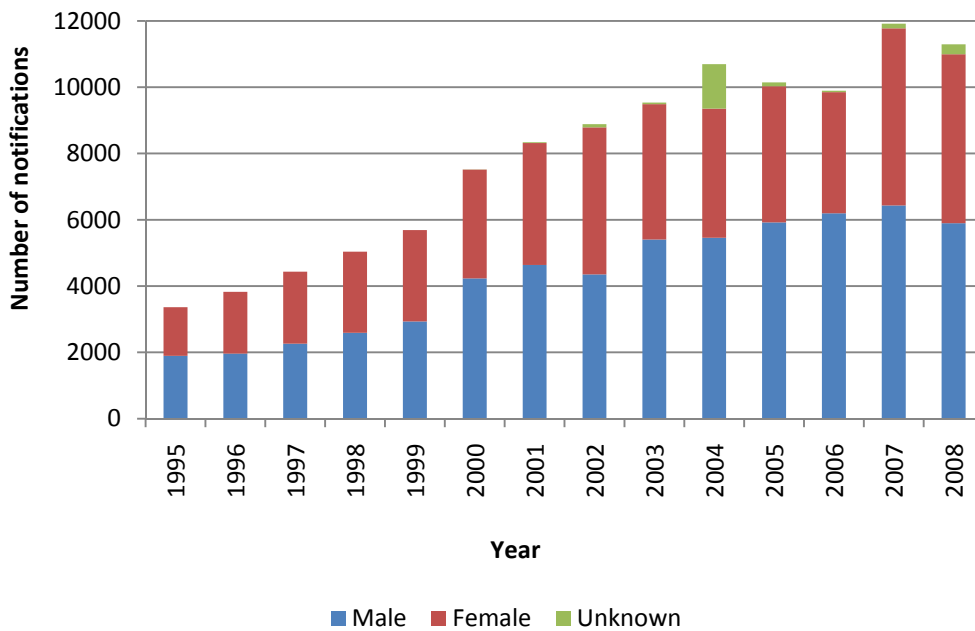


Figure 2 Total STI notifications by gender 1995-2008

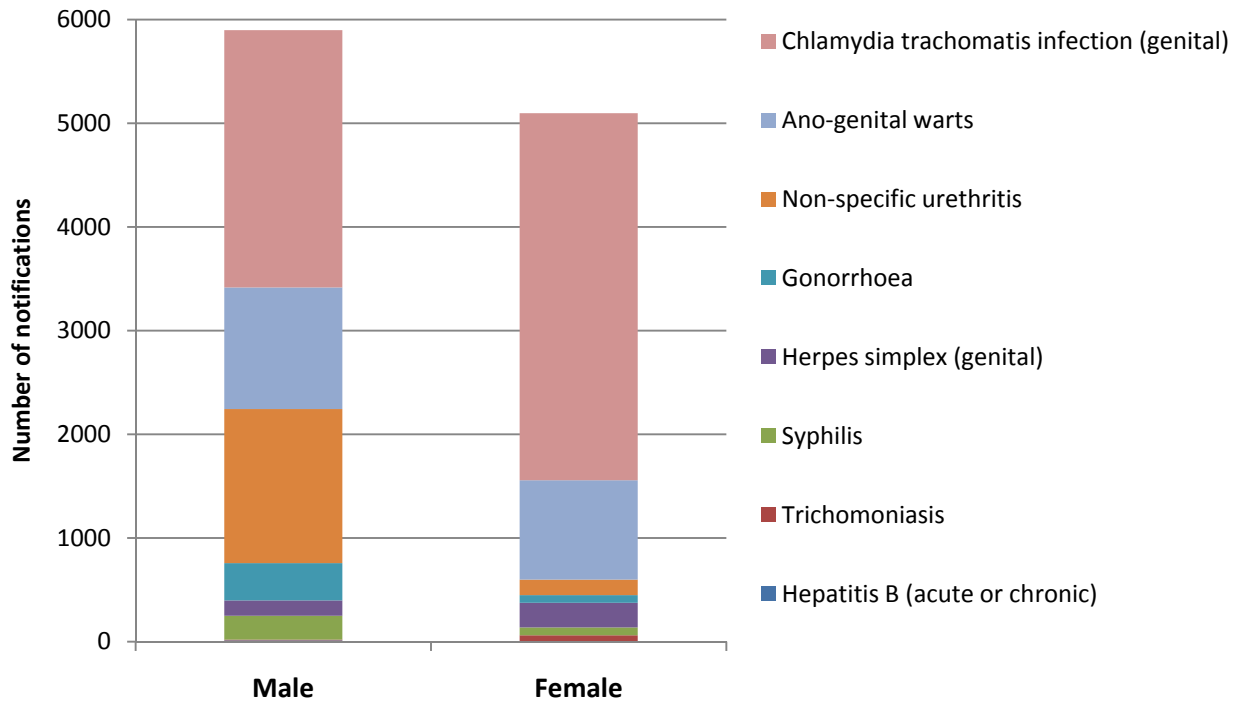


Figure 3 STI notifications by gender during 2008

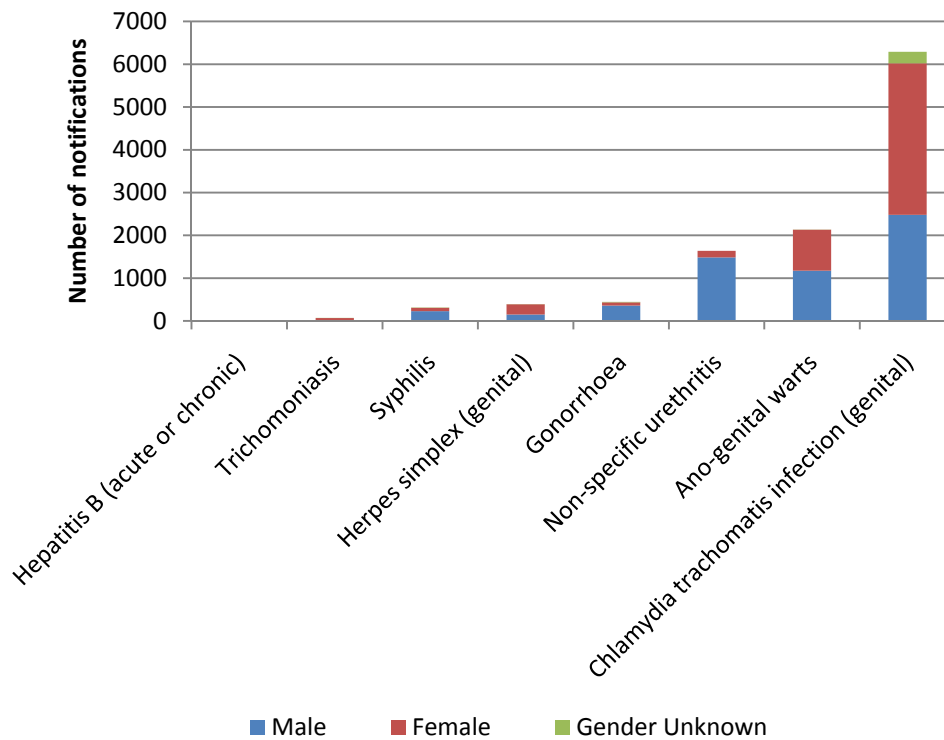


Figure 4 STI notifications by infection and gender 2008

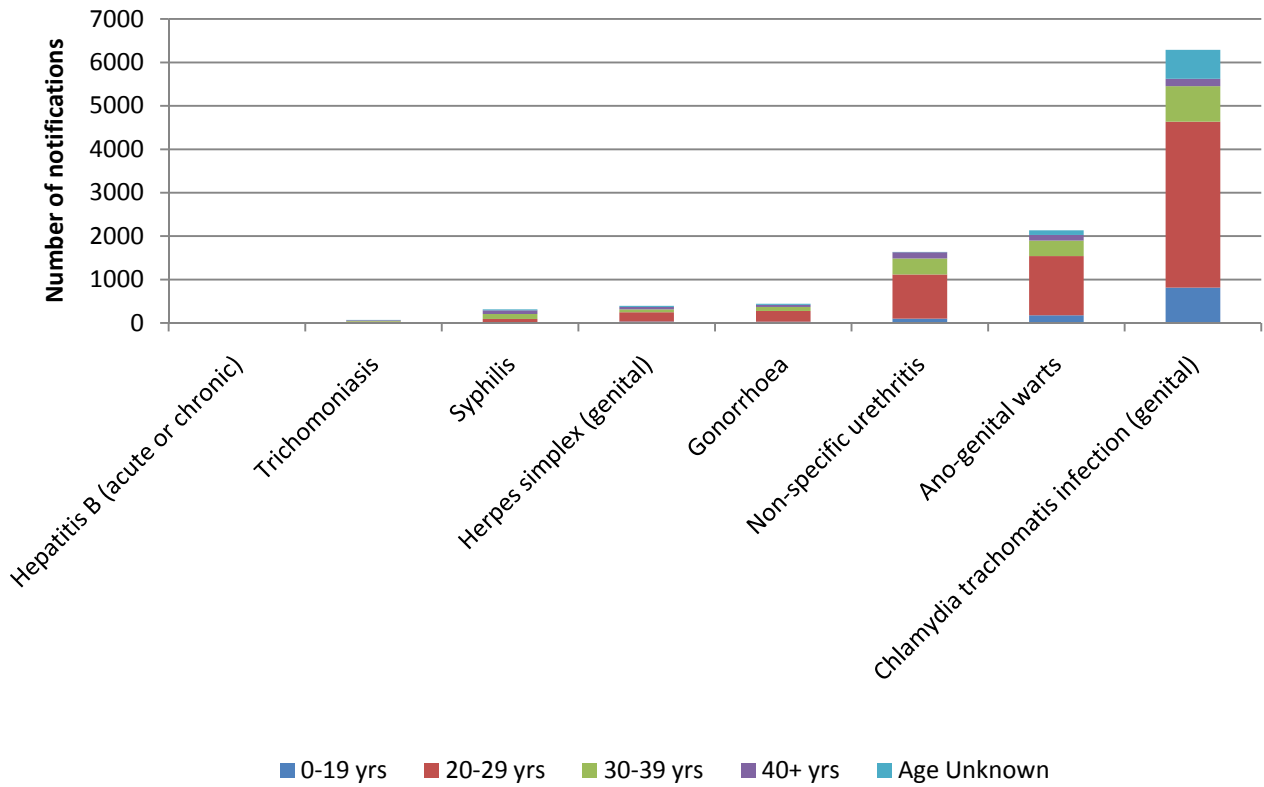


Figure 5 STI notifications by infection and age-group during 2008

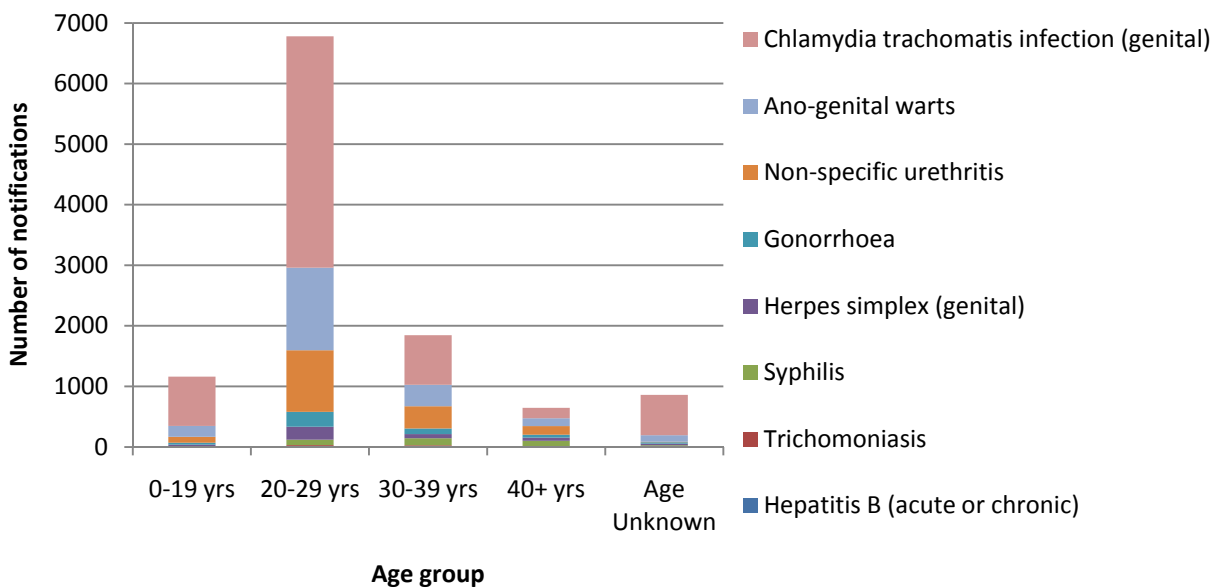


Figure 6 STI notifications by age-group and infection during 2008

Table 3 Number of STI notifications by infection and year, 1995-2008

Infection	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Total
Ano-genital warts	1972	2286	2514	2886	3049	3735	3993	3932	3981	4174	3456	3494	3283	2134	44889
Chancroid	3	1	1	0	1	16	1	1	0	1	0	1	1	0	27
Chlamydia trachomatis infection (genital)	245	364	462	646	869	1343	1649	1922	2258	2803	3353	3144	5023	6290	30371
Gonorrhoea	91	83	98	125	175	290	349	214	186	270	342	431	417	444	3515
Granuloma Inguinale	0	1	1	0	1	0	0	0	0	1	0	0	0	0	4
Hepatitis B (acute or chronic)	4	2	0	0	2	15	39	57	112	85	80	20	25	14	455
Herpes simplex (genital)	198	181	211	243	275	269	331	358	375	411	441	455	988	394	5130
Lymphogranuloma venereum	0	0	5	1	2	0	0	1	0	0	1	0	2	0	12
Non-specific urethritis	781	823	1034	1083	1265	1726	1634	2025	2332	2746	2106	2161	1870	1636	23222
Syphilis	11	17	16	15	6	46	279	303	235	144	282	134	212	312	2012
Trichomoniasis	60	71	94	38	47	78	64	73	59	60	83	52	94	70	943
Total	3365	3829	4436	5037	5692	7518	8339	8886	9538	10695	10144	9892	11915	11294	110580

Table 4 STI notification rate per 100,000 population by infection and year, 1995-2008

Infection	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Ano-genital warts	54.4	63.0	69.3	79.6	84.1	95.3	101.9	100.4	101.6	98.4	81.5	82.4	77.4	50.3
Chancroid	0.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chlamydia trachomatis infection (genital)	6.8	10.0	12.7	17.8	24.0	34.3	42.1	49.1	57.6	66.1	79.1	74.2	118.5	148.4
Gonorrhoea	2.5	2.3	2.7	3.4	4.8	7.4	8.9	5.5	4.7	6.4	8.1	10.2	9.8	10.5
Granuloma Inguinale	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis B (acute or chronic)	0.1	0.1	0.0	0.0	0.1	0.4	1.0	1.5	2.9	2.0	1.9	0.5	0.6	0.3
Herpes simplex (genital)	5.5	5.0	5.8	6.7	7.6	6.9	8.4	9.1	9.6	9.7	10.4	10.7	23.3	9.3
Lymphogranuloma venereum	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non-specific urethritis	21.5	22.7	28.5	29.9	34.9	44.1	41.7	51.7	59.5	64.8	49.7	51.0	44.1	38.6
Syphilis	0.3	0.5	0.4	0.4	0.2	1.2	7.1	7.7	6.0	3.4	6.7	3.2	5.0	7.4
Trichomoniasis	1.7	2.0	2.6	1.0	1.3	2.0	1.6	1.9	1.5	1.4	2.0	1.2	2.2	1.7
Total	92.8	105.6	122.3	138.9	157.0	191.9	212.9	226.8	243.5	252.2	239.3	233.3	281.0	266.4

Table 5 STI notification by HSE area for 2008

Infection	HSE-E	HSE-M	HSE-MW	HSE-NE	HSE-NW	HSE-SE	HSE-S	HSE-W	Ireland
Ano-genital warts	206	8	0	0	284	402	568	666	2134
Chancroid	0	0	0	0	0	0	0	0	0
Chlamydia trachomatis infection (genital)	3541	152	558	166	79	940	325	529	6290
Gonorrhoea	304	5	26	8	7	33	30	31	444
Granuloma Inguinale	0	0	0	0	0	0	0	0	0
Hepatitis B (acute or chronic)	0	0	0	2	0	0	9	3	14
Herpes simplex (genital)	210	1	0	0	8	47	58	70	394
Lymphogranuloma venereum	0	0	0	0	0	0	0	0	0
Non-specific urethritis	842	0	0	2	225	161	301	105	1636
Syphilis	190	26	32	1	3	24	14	22	312
Trichomoniasis	29	6	6	5	0	12	6	6	70
Total	5322	198	622	184	606	1619	1311	1432	11294

Table 6 STI notification rate per 100,000 population by HSE area during 2008

Infection	HSE-E	HSE-M	HSE-MW	HSE-NE	HSE-NW	HSE-SE	HSE-S	HSE-W	Ireland
Ano-genital warts	13.7	1.3	0.0	0.0	112.8	102.0	239.6	160.8	50.3
Chancroid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chlamydia trachomatis infection (genital)	236.1	24.5	154.6	36.0	31.4	238.5	137.1	127.7	148.4
Gonorrhoea	20.3	0.8	7.2	1.7	2.8	8.4	12.7	7.5	10.5
Granuloma Inguinale	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis B (acute or chronic)	0.0	0.0	0.0	0.4	0.0	0.0	3.8	0.7	0.3
Herpes simplex (genital)	14.0	0.2	0.0	0.0	3.2	11.9	24.5	16.9	9.3
Lymphogranuloma venereum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non-specific urethritis	56.1	0.0	0.0	0.4	89.4	40.9	126.9	25.3	38.6
Syphilis	12.7	4.2	8.9	0.2	1.2	6.1	5.9	5.3	7.4
Trichomoniasis	1.9	1.0	1.7	1.1	0.0	3.0	2.5	1.4	1.7
Total	354.9	31.9	172.3	39.9	240.8	410.8	552.9	345.7	266.4

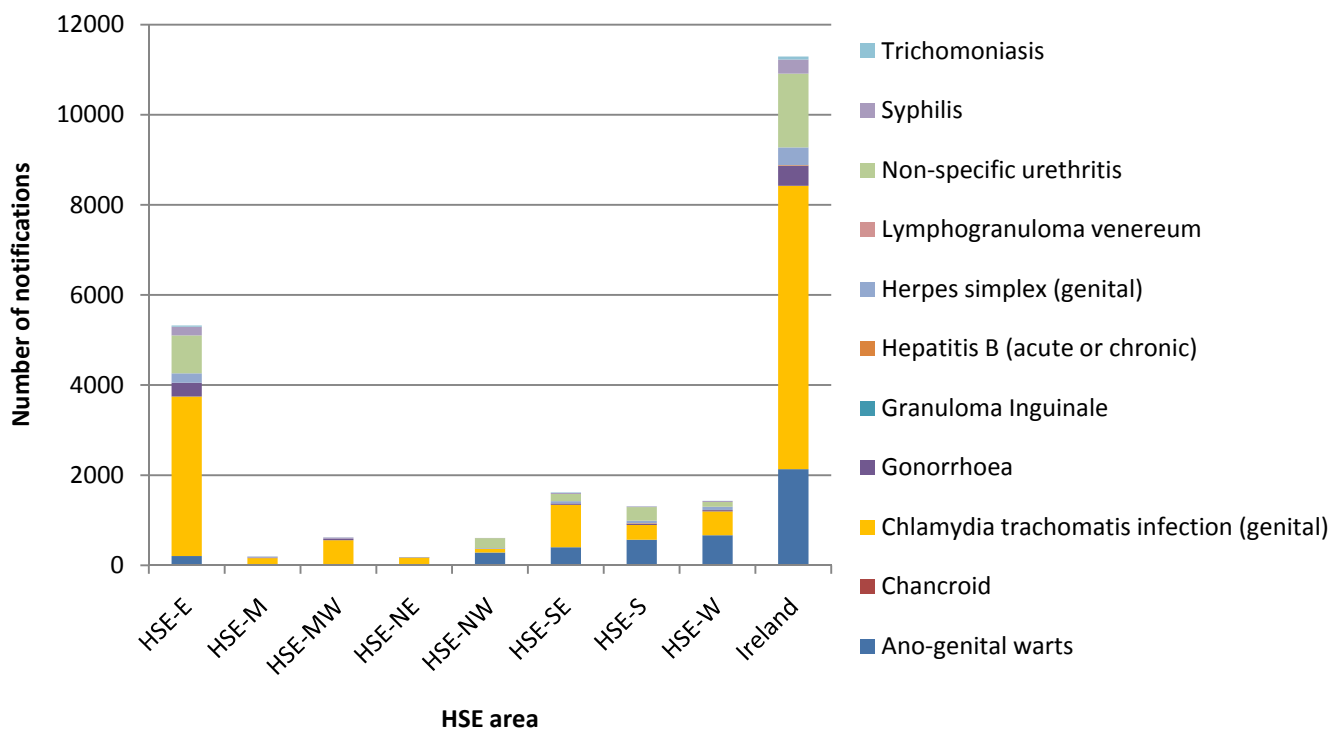


Figure 7 Number of STI notifications by HSE area, 2008

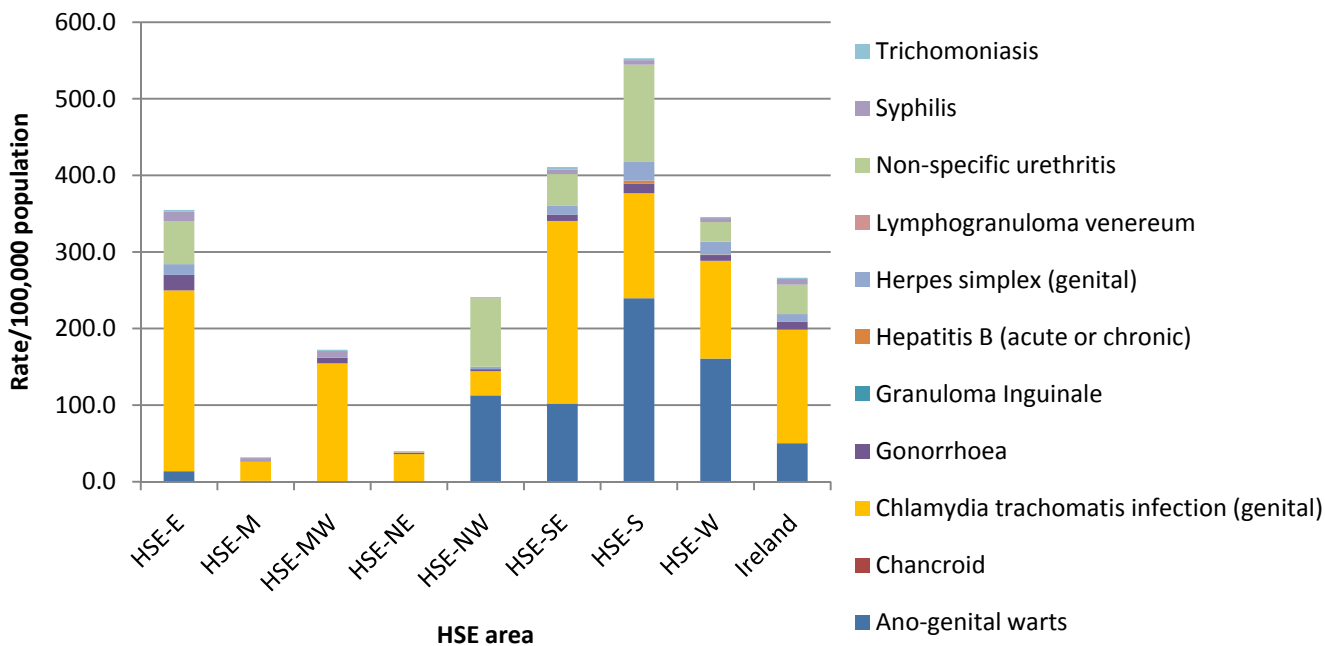


Figure 8 STI notification rate per 100,000 population by HSE area, 2008

Ano-genital Warts

Table 7 Number of notifications for ano-genital warts by year and gender, 1995-2008

Year	Total	Male	Female	Unknown
1995	1972	997	975	0
1996	2286	1043	1243	0
1997	2514	1146	1368	0
1998	2886	1311	1575	0
1999	3049	1417	1632	0
2000	3735	1868	1867	0
2001	3993	1947	2044	2
2002	3932	1761	2103	68
2003	3981	2082	1887	12
2004	4174	1454	1445	1275
2005	3456	1899	1547	10
2006	3494	1993	1498	3
2007	3283	1811	1470	2
2008	2134	1173	959	2
Total	44889	21902	21613	1374

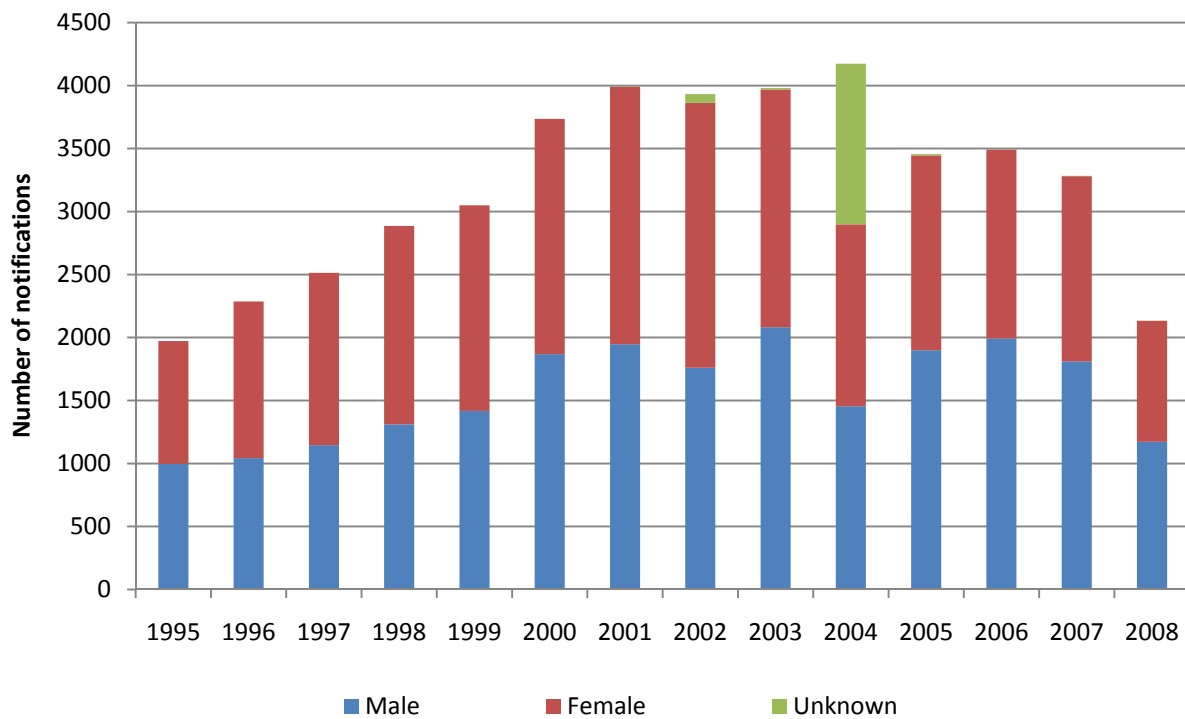


Figure 9 Number of notifications for ano-genital warts by year and gender, 1995-2008

Table 8 Number of notifications for ano-genital warts by HSE area and age-group, 2008

Area	0–19 yrs	20–29 yrs	30–39 yrs	40+ yrs	Unknown	Total
ERHA	4	123	49	29	1	206
MHB	0	5	2	1	0	8
MWHB	0	0	0	0	0	0
NEHB	0	0	0	0	0	0
NWHB	33	169	54	28	0	284
SEHB	32	194	54	19	103	402
SHB	36	395	106	28	3	568
WHB	73	478	90	25	0	666
Total	178	1364	355	130	107	2134

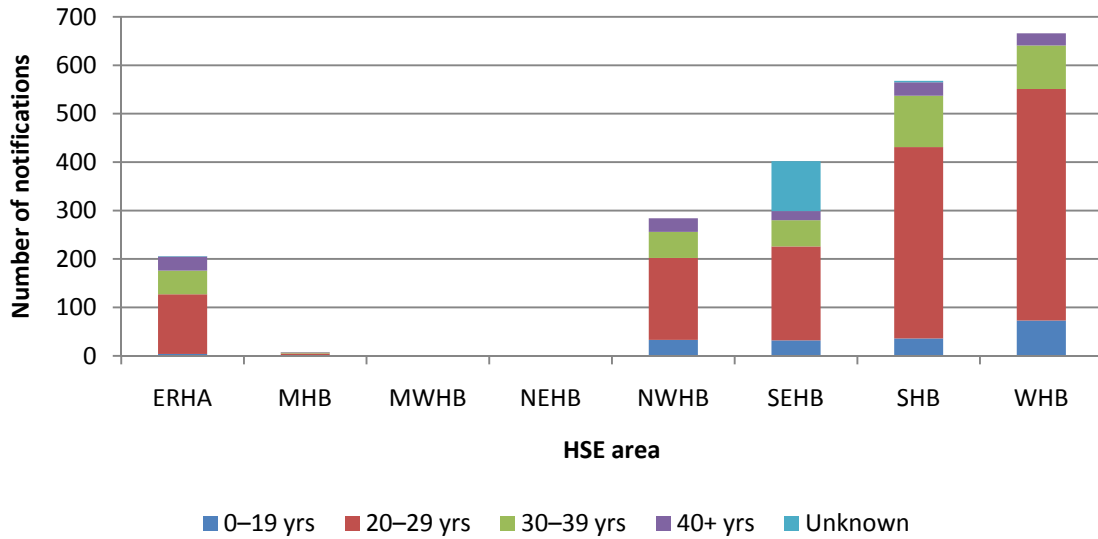


Figure 10 Number of notifications for ano-genital warts by HSE area and age-group, 2008

Chlamydia trachomatis infection (genital)

Table 9 Number of notifications for Chlamydia trachomatis by year and gender, 1995-2008

Year	Total	Male	Female	Unknown
1995	245	118	127	0
1996	364	166	198	0
1997	462	218	244	0
1998	646	287	359	0
1999	869	398	471	0
2000	1343	662	679	2
2001	1649	765	872	12
2002	1922	880	1018	24
2003	2258	993	1234	31
2004	2803	1264	1492	47
2005	3353	1518	1763	72
2006	3144	1454	1659	31
2007	5023	2042	2877	104
2008	6290	2481	3540	269
Total	30371	13246	16533	592

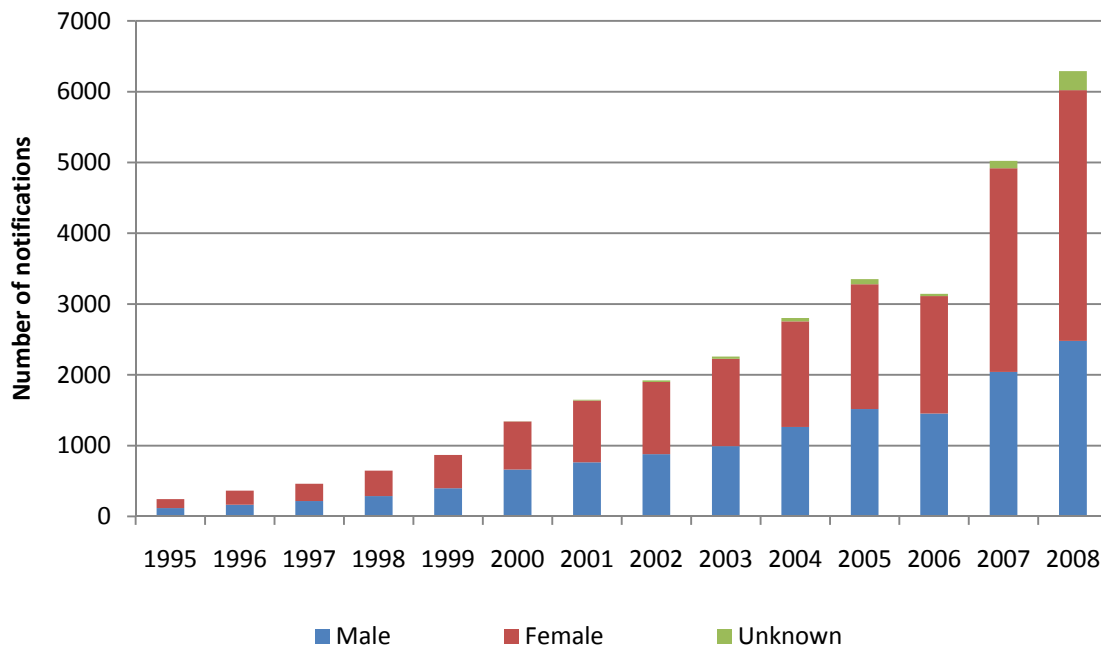


Figure 11 Number of notifications for Chlamydia trachomatis by year and gender, 1995-2008

Table 10 Number of notifications for Chlamydia trachomatis by HSE area and age-group, 2008

Area	0-19 yrs	20-29 yrs	30-39 yrs	40+ yrs	Unknown	Total
ERHA	509	2337	554	123	18	3541
MHB	27	102	21	1	1	152
MWHB	86	387	66	19	0	558
NEHB	31	107	23	3	2	166
NWHB	10	62	7	0	0	79
SEHB	56	192	41	5	646	940
SHB	28	252	38	7	0	325
WHB	67	381	69	12	0	529
Total	814	3820	819	170	667	6290

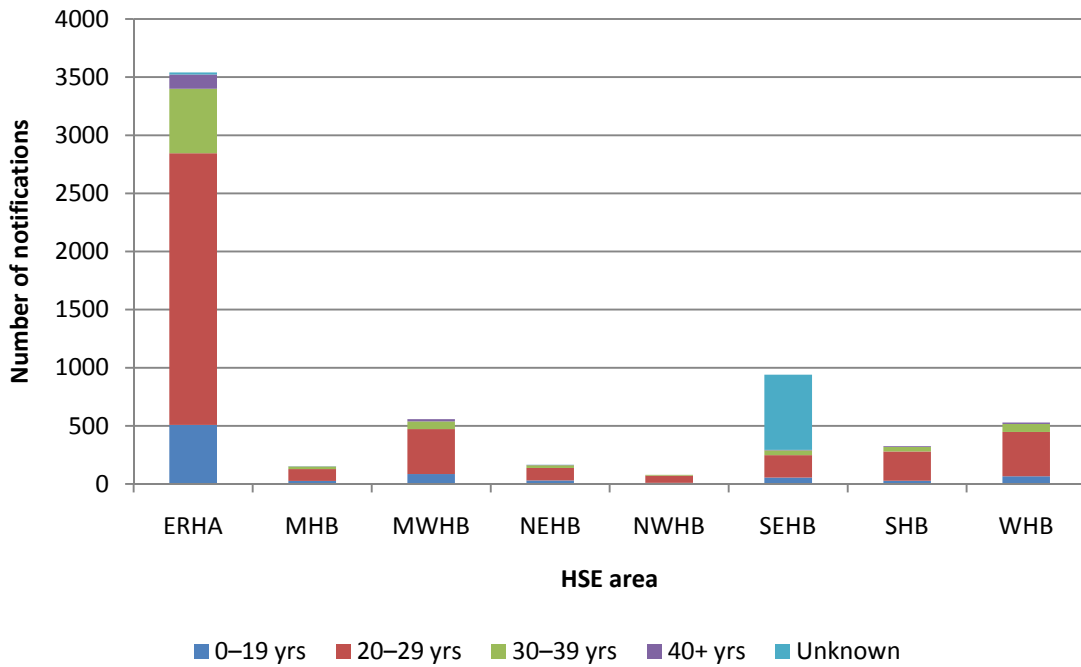


Figure 12 Number of notifications for Chlamydia trachomatis by HSE area and age-group, 2008

Gonorrhoea

Table 11 Number of notifications for gonorrhoea by year and gender, 1995-2008

Year	Total	Male	Female	Unknown
1995	91	82	9	0
1996	83	70	13	0
1997	98	85	13	0
1998	125	95	30	0
1999	175	135	40	0
2000	290	228	62	0
2001	349	265	82	2
2002	214	90	122	2
2003	186	146	38	2
2004	270	234	30	6
2005	342	303	32	7
2006	431	380	48	3
2007	417	355	56	6
2008	444	360	73	11
Total	3515	2828	648	39

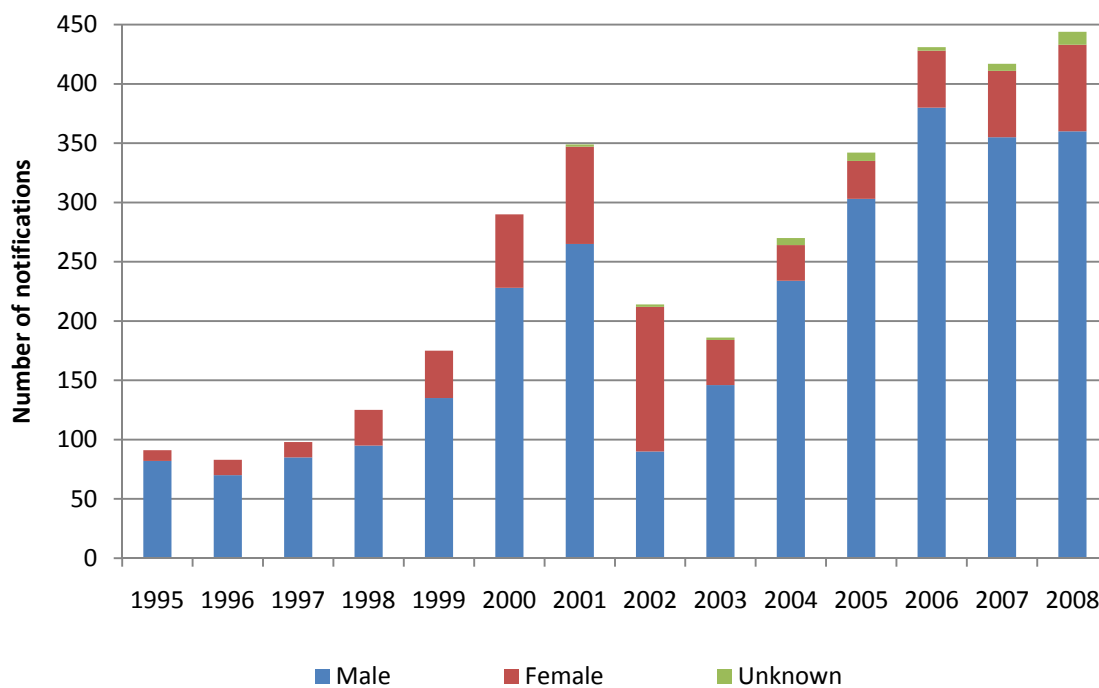


Figure 13 Number of notifications for gonorrhoea by year and gender, 1995-2008

Table 12 Number of notifications for gonorrhoea by HSE area and age-group, 2008

Area	0-19 yrs	20-29 yrs	30-39 yrs	40+ yrs	Unknown	Total
ERHA	23	180	68	30	3	304
MHB	0	2	0	2	1	5
MWHB	5	14	2	5	0	26
NEHB	0	8	0	0	0	8
NWHB	1	5	1	0	0	7
SEHB	1	5	4	2	21	33
SHB	0	16	8	5	1	30
WHB	1	17	9	4	0	31
Total	31	247	92	48	26	444

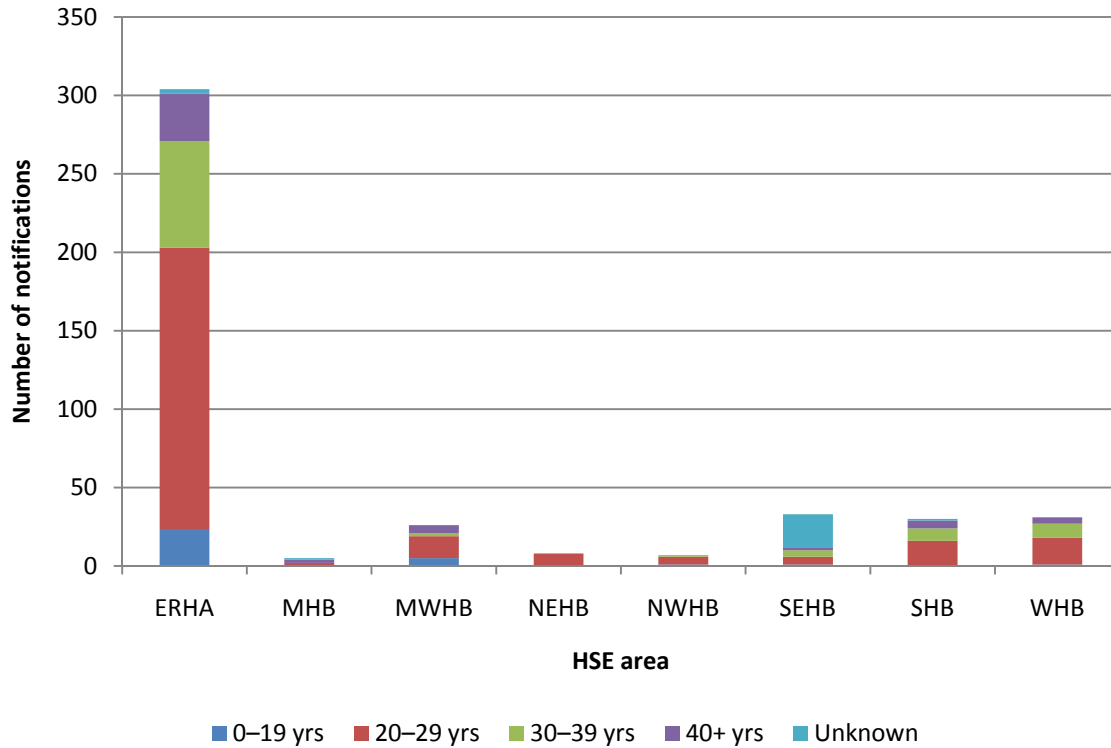


Figure 14 Number of notifications for gonorrhoea by HSE area and age-group, 2008

Hepatitis B (acute and chronic)

Table 13 Number of notifications for Hepatitis B (acute and chronic) by year and gender, 1995-2008

Year	Total	Male	Female	Unknown
1995	4	3	1	0
1996	2	2	0	0
1997	0	0	0	0
1998	0	0	0	0
1999	2	0	2	0
2000	15	13	2	0
2001	39	30	9	0
2002	57	18	39	0
2003	112	66	46	0
2004	85	69	13	3
2005	80	50	29	1
2006	20	11	9	0
2007	25	21	4	0
2008	14	12	2	0
Total	455	295	156	4

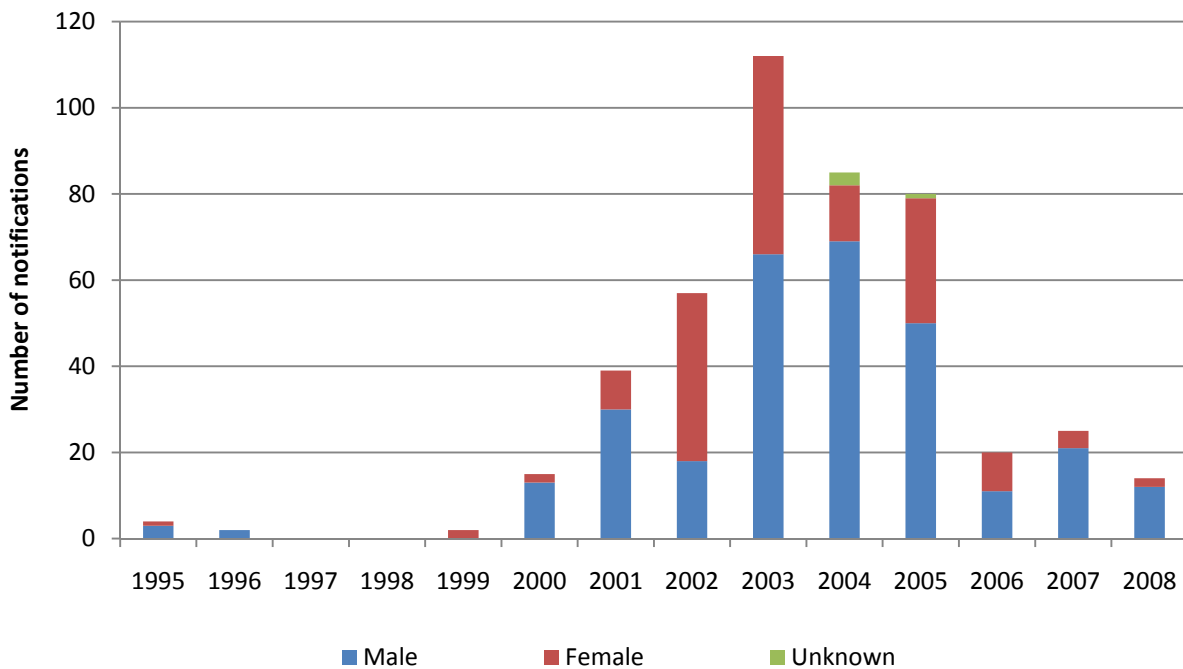


Figure 15 Number of notifications for Hepatitis B (acute and chronic) by year and gender, 1995-2008

Table 14 Number of notifications for Hepatitis B (acute and chronic) by HSE area and age-group, 2008

Area	0-19 yrs	20-29 yrs	30-39 yrs	40+ yrs	Unknown	Total
ERHA	0	0	0	0	0	0
MHB	0	0	0	0	0	0
MWHB	0	0	0	0	0	0
NEHB	0	0	2	0	0	2
NWHB	0	0	0	0	0	0
SEHB	0	0	0	0	0	0
SHB	1	3	4	1	0	9
WHB	0	1	2	0	0	3
Total	1	4	8	1	0	14

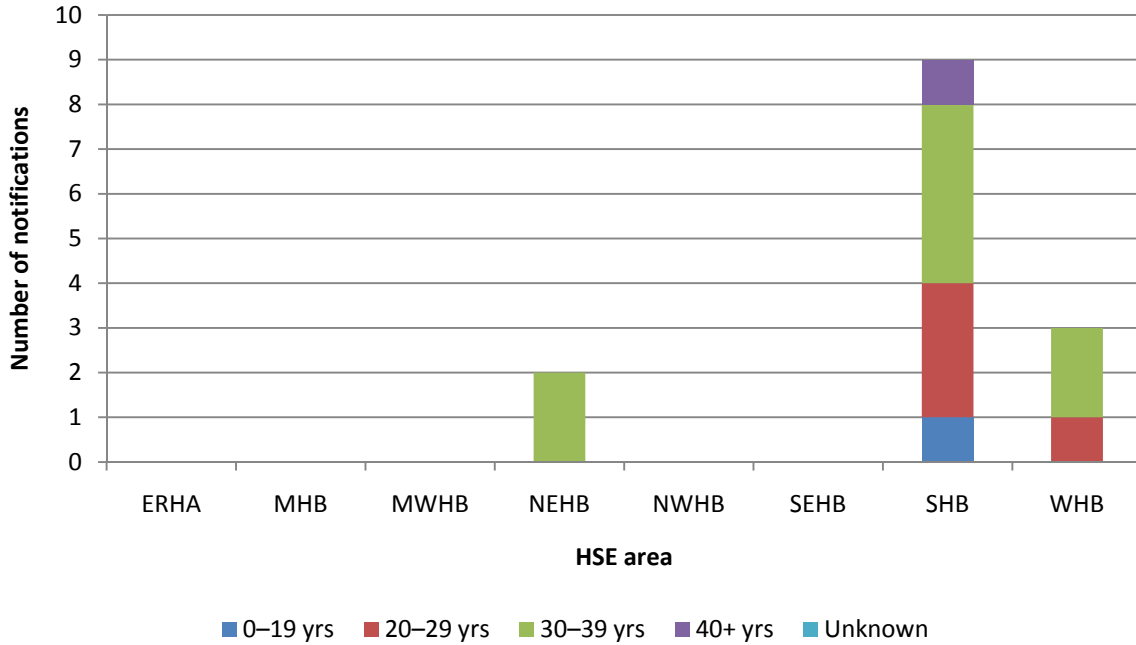


Figure 16 Number of notifications for Hepatitis B (acute and chronic) by HSE area and age-group, 2008

Herpes Simplex

Table 15 Number of notifications for herpes simplex by year and gender, 1995-2008

Year	Total	Male	Female	Unknown
1995	198	93	105	0
1996	181	65	116	0
1997	211	57	154	0
1998	243	70	173	0
1999	275	85	190	0
2000	269	89	180	0
2001	331	120	208	3
2002	358	149	207	2
2003	375	151	222	2
2004	411	135	273	3
2005	441	165	275	1
2006	455	210	244	1
2007	988	356	619	13
2008	394	149	238	7
Total	5130	1894	3204	32

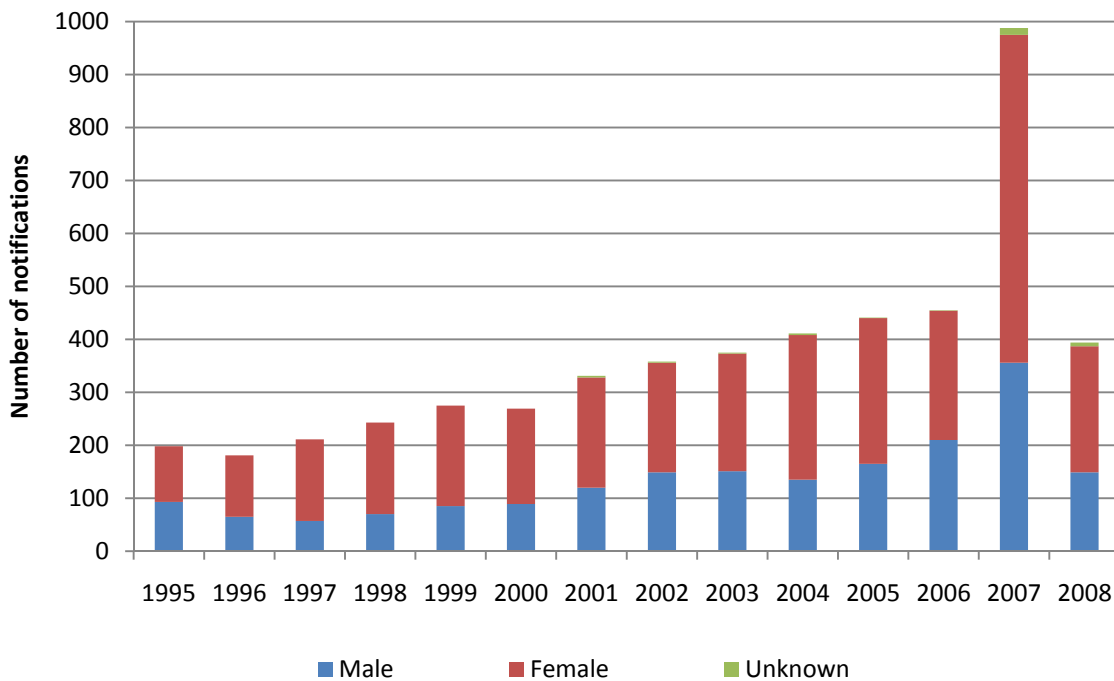


Figure 17 Number of notifications for herpes simplex by year and gender, 1995-2008

Table 16 Number of notifications for herpes simplex by HSE area and age-group, 2008

Area	0–19 yrs	20–29 yrs	30–39 yrs	40+ yrs	Unknown	Total
ERHA	11	117	44	34	4	210
MHB	0	1	0	0	0	1
MWHB	0	0	0	0	0	0
NEHB	0	0	0	0	0	0
NWHB	1	6	1	0	0	8
SEHB	6	13	3	3	22	47
SHB	9	32	13	4	0	58
WHB	7	43	8	12	0	70
Total	34	212	69	53	26	394

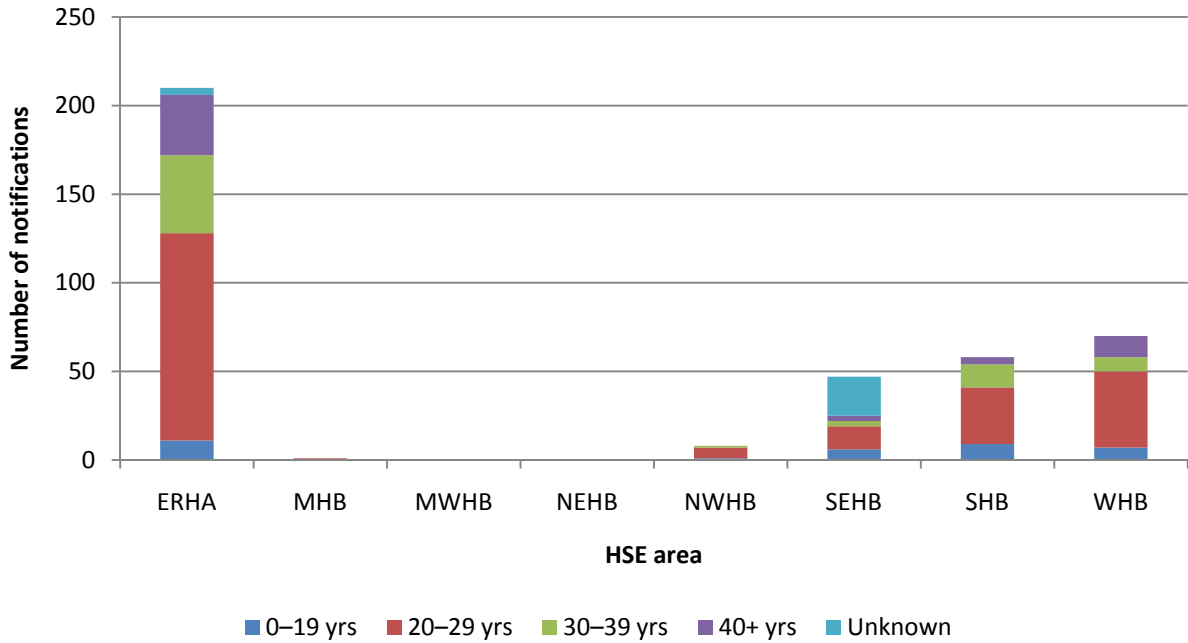


Figure 18 Number of notifications for herpes simplex by HSE area and age-group, 2008

Non-Specific Urethritis

Table 17 Number of notifications for Non-Specific Urethritis by year and gender, 1995-2008

Year	Total	Male	Female	Unknown
1995	781	580	201	0
1996	823	587	236	0
1997	1034	736	298	0
1998	1083	819	264	0
1999	1265	891	374	0
2000	1726	1324	402	0
2001	1634	1265	368	1
2002	2025	1193	831	1
2003	2332	1822	509	1
2004	2746	2193	550	3
2005	2106	1800	297	9
2006	2161	2044	115	2
2007	1870	1698	172	0
2008	1636	1486	150	0
Total	23222	18438	4767	17

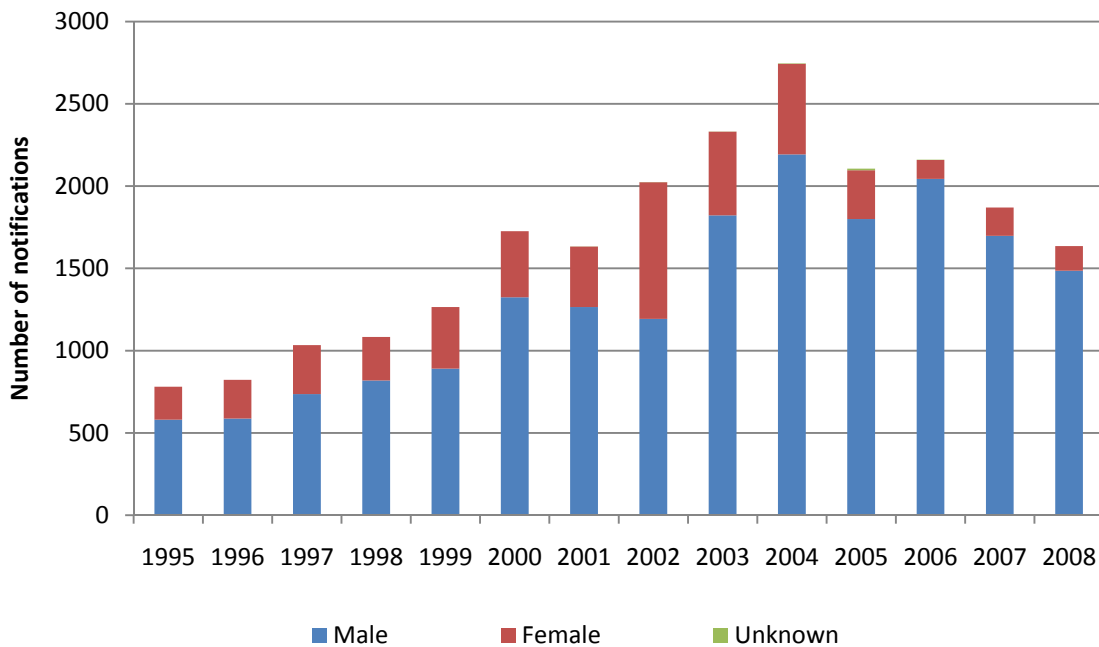


Figure 19 Number of notifications for Non-Specific Urethritis by year and gender, 1995-2008

Table 18 Number of notifications for Non-Specific Urethritis by HSE area and age-group, 2008

Area	0–19 yrs	20–29 yrs	30–39 yrs	40+ yrs	Unknown	Total
ERHA	45	513	191	89	4	842
MHB	0	0	0	0	0	0
MWHB	0	0	0	0	0	0
NEHB	0	2	0	0	0	2
NWHB	30	141	43	11	0	225
SEHB	13	107	27	13	1	161
SHB	8	194	70	26	3	301
WHB	4	60	37	4	0	105
Total	100	1017	368	143	8	1636

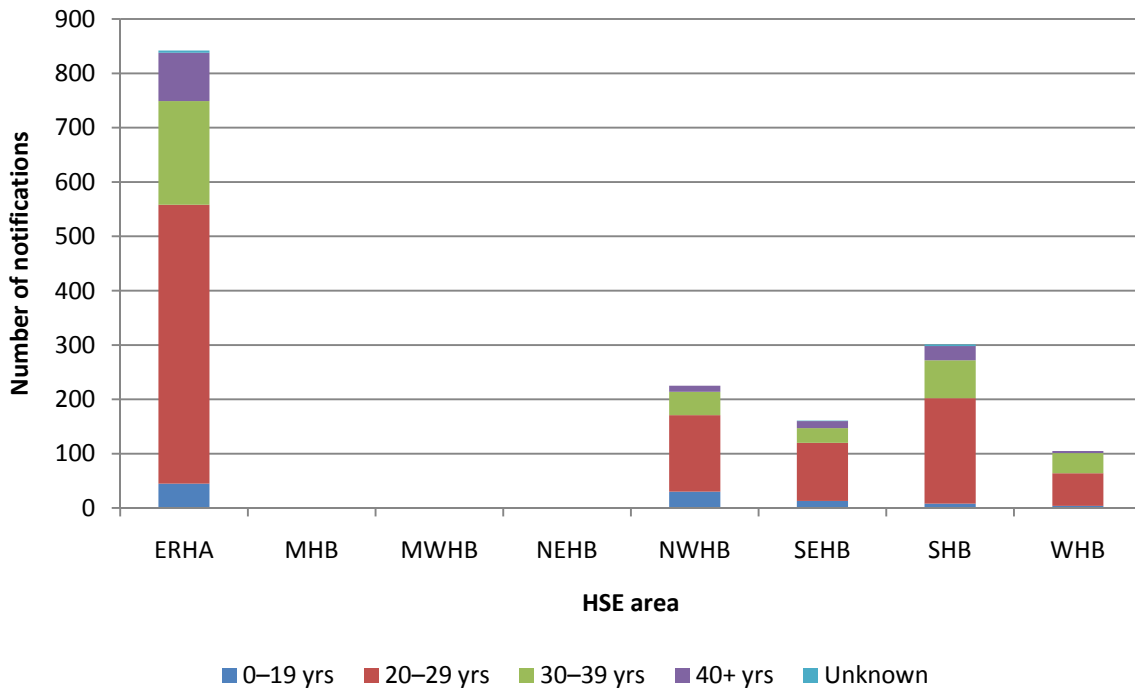


Figure 20 Number of notifications for Non-Specific Urethritis by HSE area and age-group, 2008

Syphilis

Table 19 Number of notifications for Syphilis by year and gender, 1995-2008

Year	Total	Male	Female	Unknown
1995	11	8	3	0
1996	17	10	7	0
1997	16	11	5	0
1998	15	9	6	0
1999	6	3	3	0
2000	46	29	17	0
2001	279	230	47	2
2002	303	215	87	1
2003	235	137	97	1
2004	144	105	38	1
2005	282	184	95	3
2006	134	102	30	2
2007	212	145	60	7
2008	312	229	76	7
Total	2012	1417	571	24

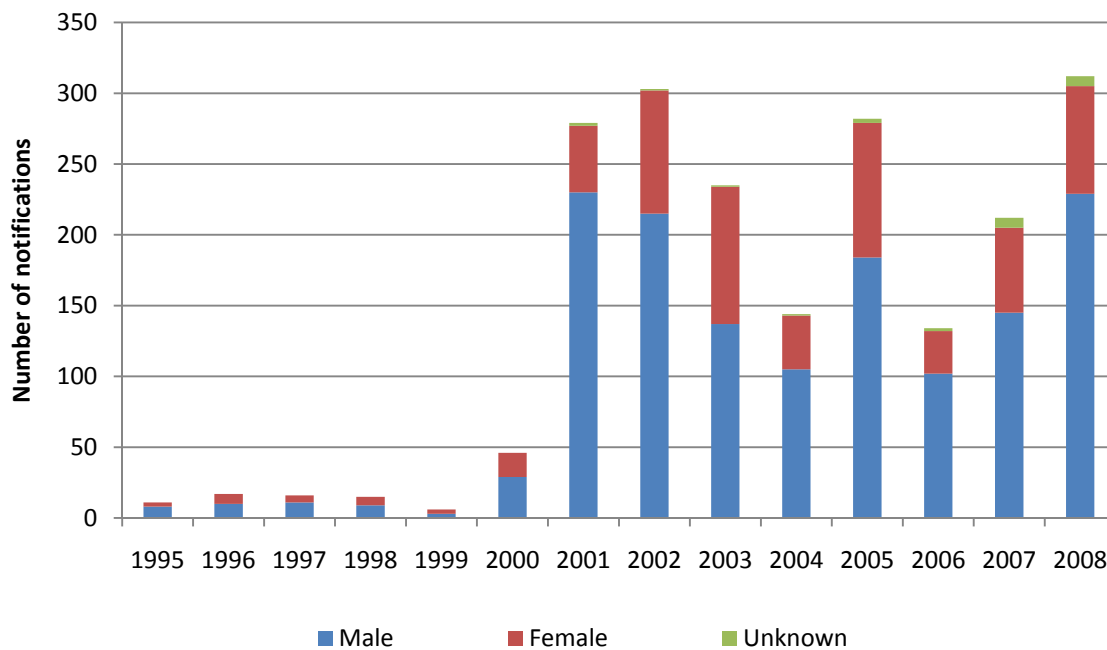


Figure 21 Number of notifications for Syphilis by year and gender, 1995-2008

Table 20 Number of notifications for Syphilis by HSE area and age-group, 2008

Area	0-19 yrs	20-29 yrs	30-39 yrs	40+ yrs	Unknown	Total
ERHA	1	60	62	65	2	190
MHB	0	7	12	7	0	26
MWHB	0	11	14	7	0	32
NEHB	0	0	0	0	1	1
NWHB	0	2	1	0	0	3
SEHB	0	1	7	0	16	24
SHB	0	4	7	3	0	14
WHB	0	5	13	4	0	22
Total	1	90	116	86	19	312

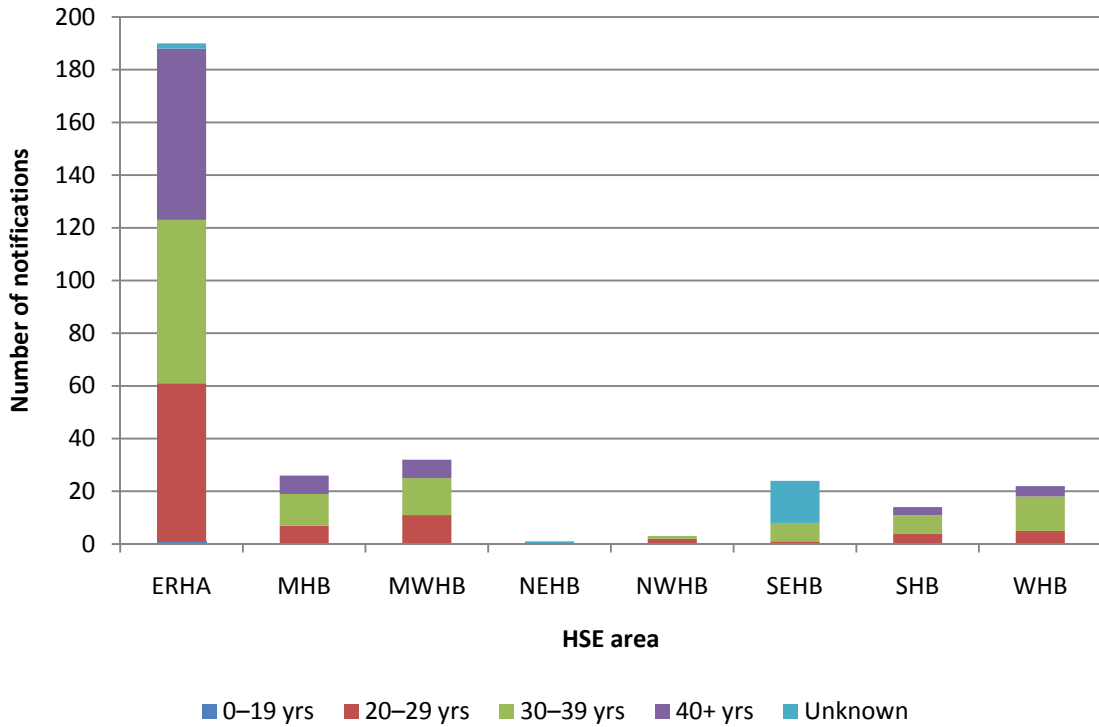


Figure 22 Number of notifications for Syphilis by HSE area and age-group, 2008

Trichomoniasis

Table 21 Number of notifications for Trichomoniasis by year and gender, 1995-2008

Year	Total	Male	Female	Unknown
1995	60	12	48	0
1996	71	17	54	0
1997	94	12	82	0
1998	38	2	36	0
1999	47	1	46	0
2000	78	14	64	0
2001	64	14	49	1
2002	73	45	26	2
2003	59	10	49	0
2004	60	3	55	2
2005	83	2	71	10
2006	52	3	49	0
2007	94	1	87	6
2008	70	8	59	3
Total	943	144	775	24

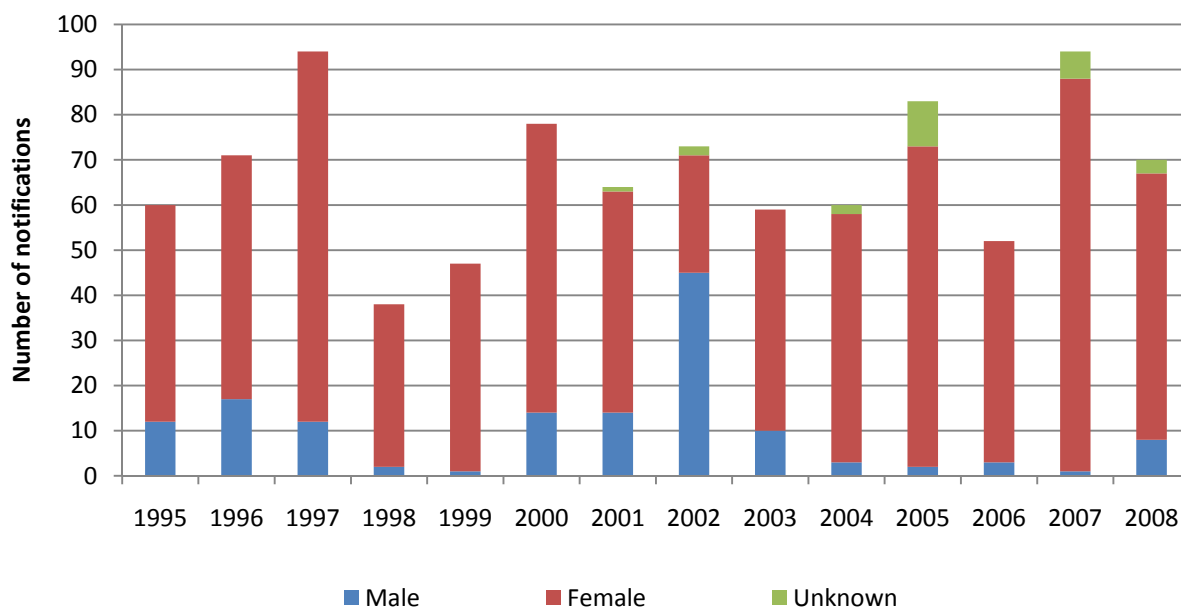


Figure 23 Number of notifications for Trichomoniasis by year and gender, 1995-2008

Table 22 Number of notifications for Trichomoniasis by HSE area and age-group, 2008

Area	0-19 yrs	20-29 yrs	30-39 yrs	40+ yrs	Unknown	Total
ERHA	0	14	9	6	0	29
MHB	1	2	1	2	0	6
MWHB	0	3	1	2	0	6
NEHB	0	2	0	3	0	5
NWHB	0	0	0	0	0	0
SEHB	0	2	2	1	7	12
SHB	0	1	5	0	0	6
WHB	1	3	1	0	1	6
Total	2	27	19	14	8	70

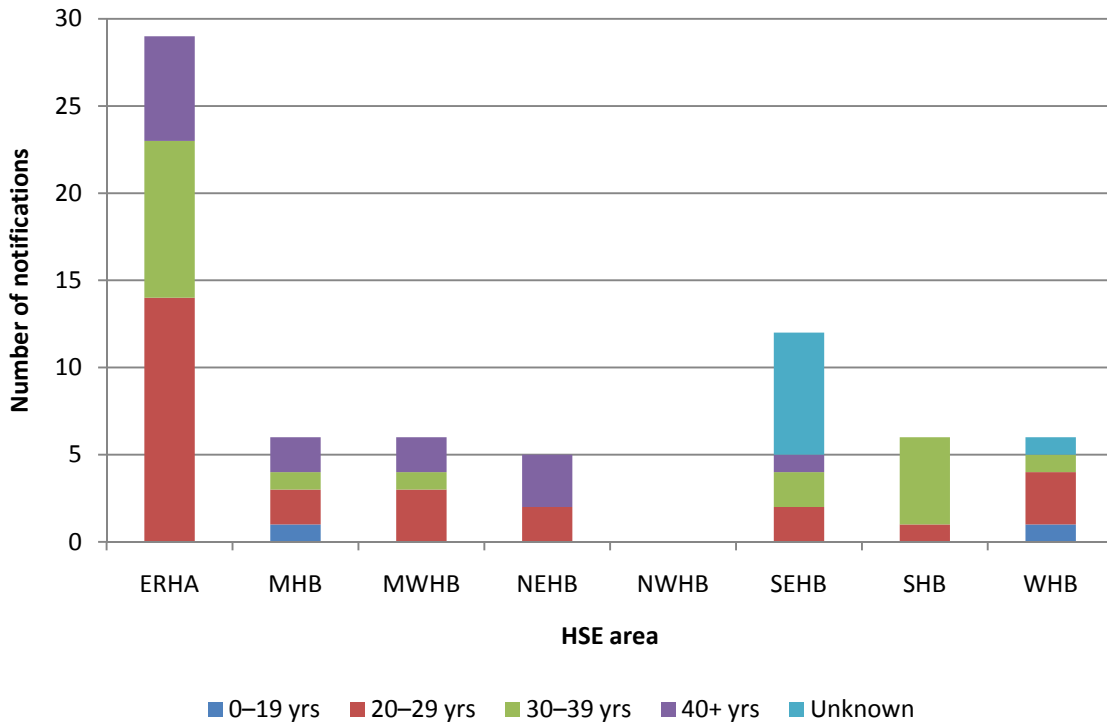


Figure 24 Number of notifications for Trichomoniasis by HSE area and age-group, 2008

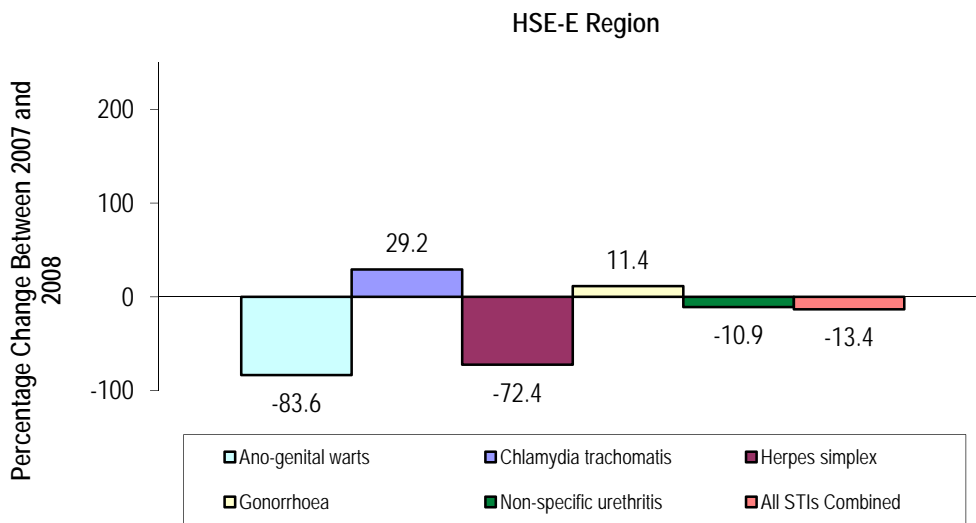


Figure 25 Change in notifications for selected infections between 2007 and 2008, HSE East

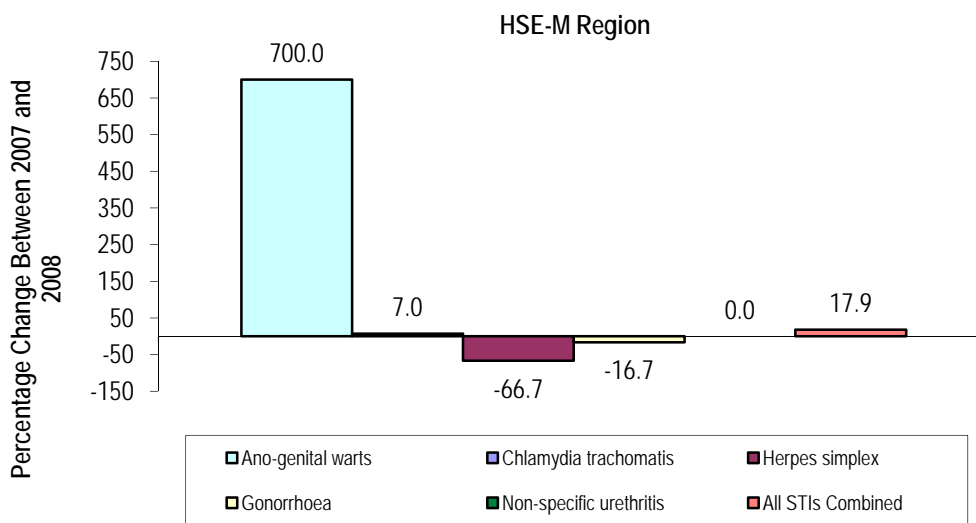


Figure 26 Change in notifications for selected infections between 2007 and 2008, HSE Midlands

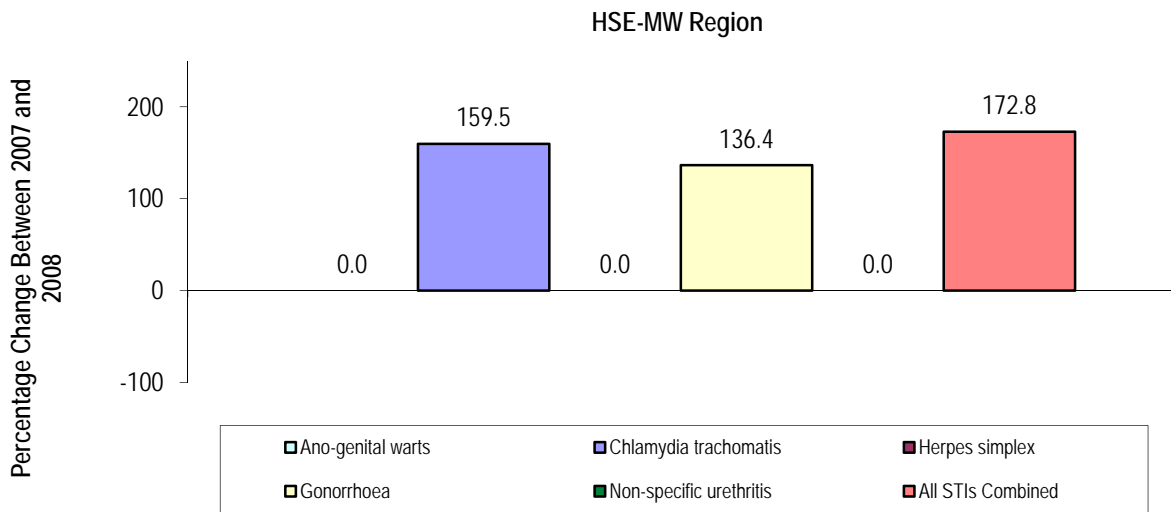


Figure 27 Change in notifications for selected infections between 2007 and 2008, HSE Mid-West

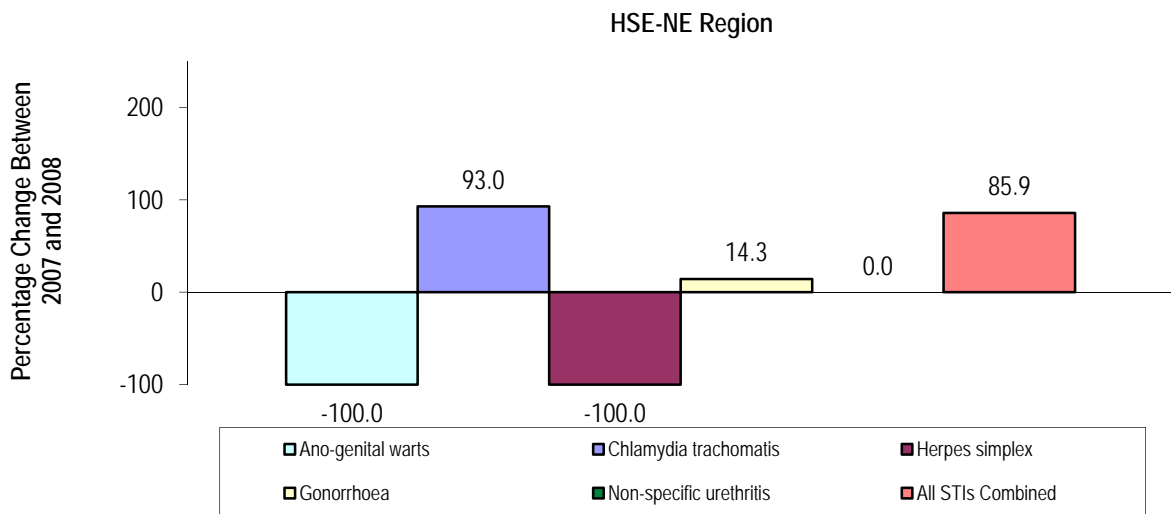


Figure 28 Change in notifications for selected infections between 2007 and 2008, HSE North-East

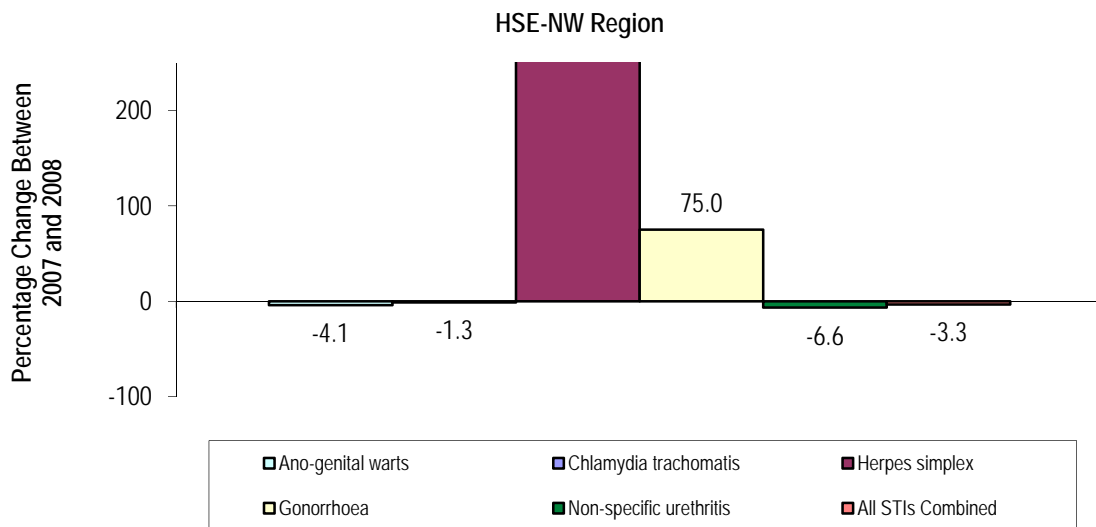


Figure 29 Change in notifications for selected infections between 2007 and 2008, HSE North-West

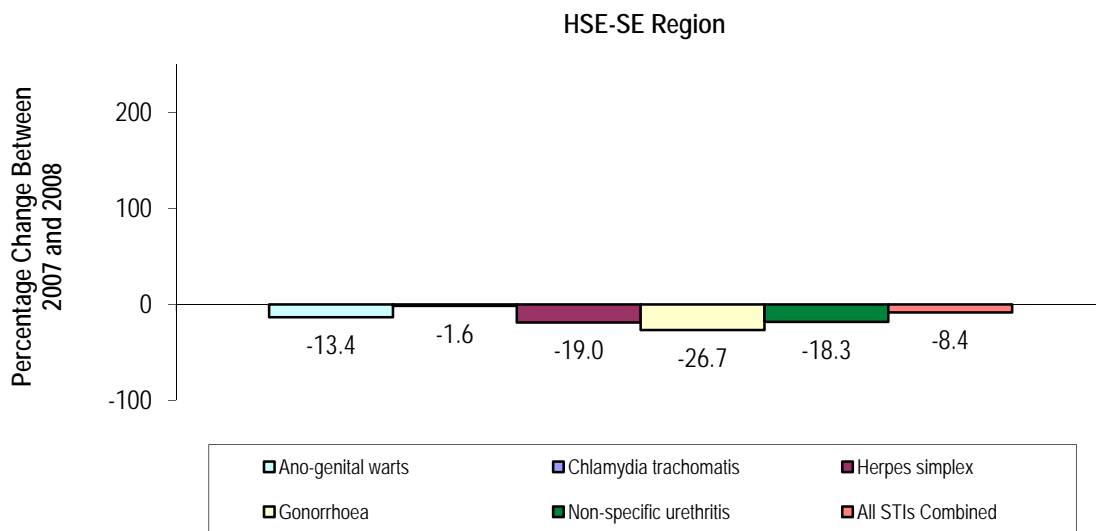


Figure 30 Change in notifications for selected infections between 2007 and 2008, HSE South-East

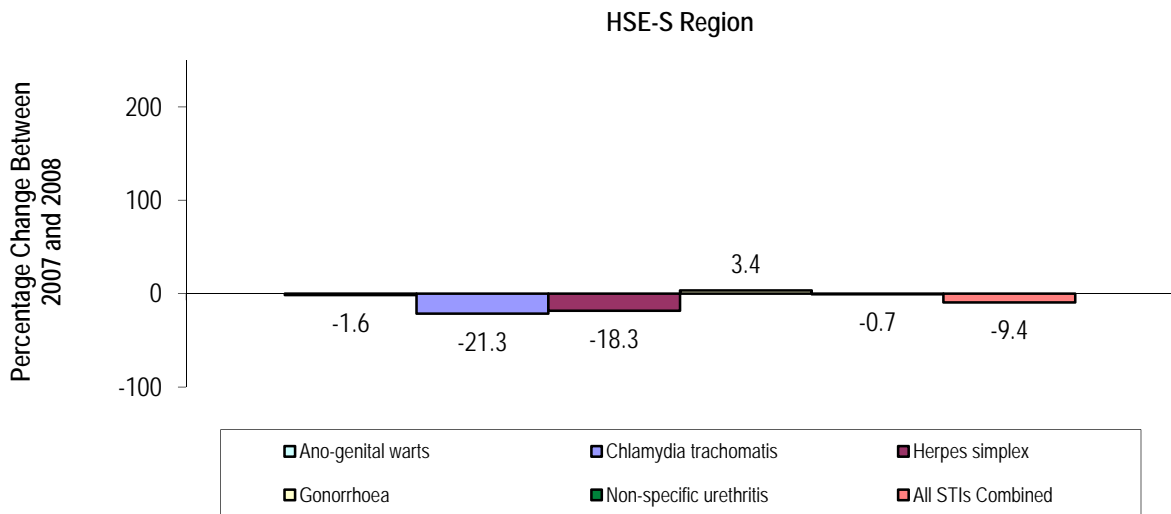


Figure 31 Change in notifications for selected infections between 2007 and 2008, HSE South

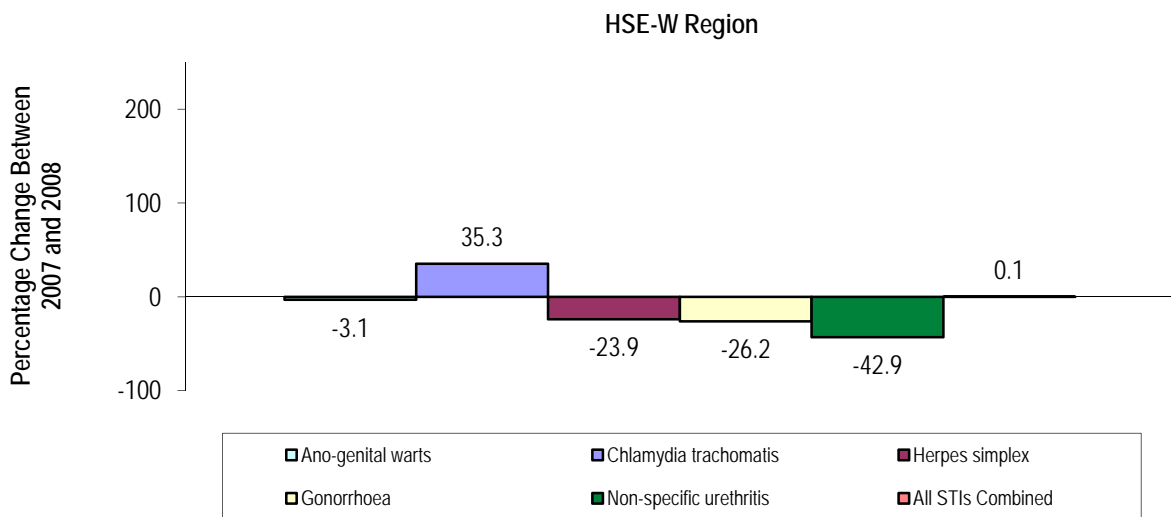


Figure 32 Change in notifications for selected infections between 2007 and 2008, HSE West