UPDATE ON STI SURVEILLANCE – WHAT’S UP, WHAT’S DOWN, WHO IS MOST AT RISK?

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Outline

• Gonorrhoea
• Chlamydia
• Genital warts
• Syphilis
National gonorrhoea rate, 2012-2016

New data processing methods introduced and 19 DHBs included from 2013

All DHBs included in 2015

Males: 98 cases per 100,000
Females: 66 cases per 100,000

Source: ESR
Gonorrhoea rates by DHB/region, 2012-2016

Source: Introduction of NAAT testing
Data incomplete
Regions where male gonorrhoea rates > than female rates, 2016

Whanganui DHB
M: 52 per 100,000  
F: 28 per 100,000

Taranaki DHB
M: 31 per 100,000  
F: 7 per 100,000

MidCentral DHB
M: 27 per 100,000  
F: 22 per 100,000

Nelson/Marlbourough DHB
M: 26 per 100,000  
F: 20 per 100,000

Southern DHB
M: 32 per 100,000  
F: 23 per 100,000

Auckland region
M: 154 per 100,000  
F: 87 per 100,000

Waikato DHB
M: 78 per 100,000  
F: 75 per 100,000

Wellington region
M: 132 per 100,000  
F: 24 per 100,000

Canterbury DHB
M: 51 per 100,000  
F: 28 per 100,000

South Canterbury DHB
M: 38 per 100,000  
F: 33 per 100,000
Gonorrhoea rates by age group and sex, 2012-2016

Source: Sexually Transmitted Infections in New Zealand: Annual Surveillance Report 2016
Male gonorrhoea rates by ethnicity for high risk age groups, 2013-2016

* Rate not calculated when fewer than 5 cases
Female gonorrhea rates by ethnicity for high risk age groups, 2013-2016

* Rate not calculated when fewer than 5 cases
Gonorrhoea site of infection as a percentage of positive male tests, 2012-2016
National chlamydia rate, 2012-2016

Cases per 100,000 population

Year
2012
2013
2014
2015
2016

New data processing methods introduced and all DHBS included from 2013

Males: 393 cases per 100,000
Females: 899 cases per 100,000

Source: ESR
Chlamydia rates by age group and sex, 2012-2016

Source: Sexually Transmitted Infections in New Zealand: Annual Surveillance Report 2015
Chlamydia site of infection as a percentage of positive male tests, 2012-2016
Infections in infants <1 year of age

**Chlamydia**
- 83 cases in 2014
- 79 cases in 2015
- 64 cases in 2016*

**Gonorrhoea**
- 1 case in 2014
- 4 cases in 2015
- 4 cases in 2016*

*Data for 2016 provisional
Genital warts – sentinel surveillance

Genital warts (first presentation) case numbers for sexual health clinics

<table>
<thead>
<tr>
<th>Total Number of cases 2009</th>
<th>Total number of cases 2016</th>
<th>% change since 2009*</th>
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<tbody>
<tr>
<td>3249</td>
<td>1201</td>
<td>- 63.5 %</td>
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*During the same period there was a non-significant decrease in clinic visits by 0.59%*

Source: Institute of Environmental Science and Research (ESR) Ltd.

*Only age groups where significant changes occurred are displayed*
National infectious syphilis case numbers, 2012-2016*

From 2013 onwards cases were reconciled with sentinel data

Data source: Enhanced surveillance of infectious syphilis, ESR

*Data for 2016 provisional
Infectious syphilis cases by place of diagnosis, 2012-2016*

Data source:

*Data for 2016 provisional
Infectious syphilis cases by age group, 2012-2016*

Note: line represents number of female cases

*Data for 2016 provisional
Infectious syphilis cases by sexual behaviour, 2012-2016*

*Data for 2016 provisional
Percentage of cases reported as MSM, 2012-2016*

Year: 2012 2013 2014 2015 2016*
Percentage of cases that were MSM: 80.3 78.0 85.8 78.4 76.0

*Data for 2016 provisional
MSM cases by country of infection, 2012-2016

Note: some cases had more than 1 suggested country of infection recorded.

*Data for 2016 provisional
Percentage of MSM infectious syphilis cases reported as HIV positive, 2012-2016

*Data for 2016 provisional
MSM cases by context leading to infection, 2012-2016

Form separated internet into mobile app and internet dating from 2014

*Data for 2016 provisional
Primary reason for testing, 2016*

**MSM**
- Clinical symptoms or suspicion
- Asymptomatic STI screening
- Immigration purposes
- Syphilis contact
- Other

**Heterosexual M & F**
- Clinical symptoms or suspicion
- Asymptomatic STI screening
- Immigration purposes
- Syphilis contact
- Other
- Antenatal screening

*Data for 2016 provisional*
STI Reports

Quarterly and annual reports are available on the Public Health Surveillance website: https://surv.esr.cri.nz/surveillance/surveillance.php

Data requests:
Email: surveillance.queries@esr.cri.nz
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