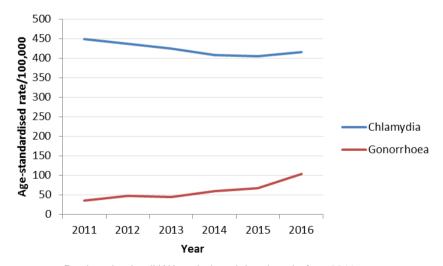


#### Gonorrhoea symposium, Western Australia

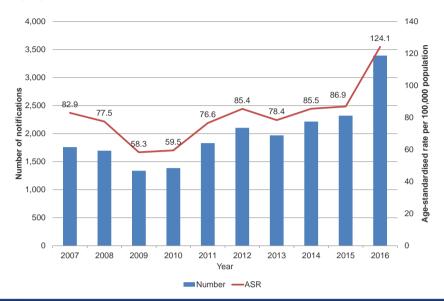


## Rate of gonorrhoea and chlamydia notifications in the Perth metropolitan area, WA, 2011 to 2016



Dual testing in all WA pathology labs since before 2011

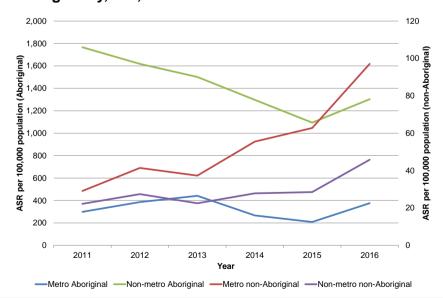
#### Number and rate of gonorrhoea notifications, WA, 2007 to 2016



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3

### Rate of gonorrhoea notifications by area and Aboriginality, WA, 2011 to 2016



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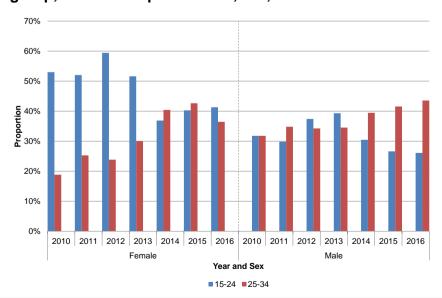
# Number of gonorrhoea notifications by sexual preference and quarter, Perth metropolitan area, WA, 2011 to 2017



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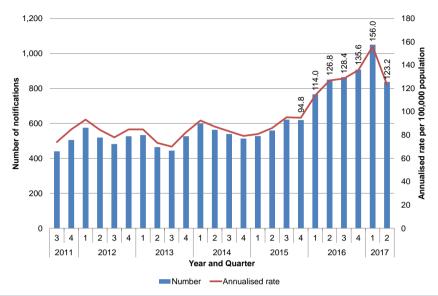
5

## Proportion of gonorrhoea notifications by sex and age group, Perth metropolitan area, WA, 2010 to 2016



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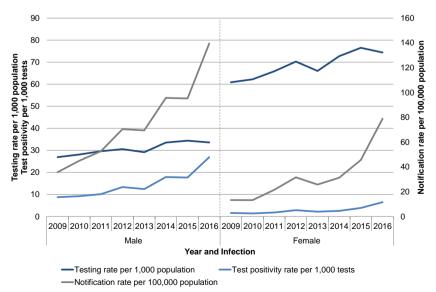
#### Number and rate of gonorrhoea notifications by quarter, WA, 2011 to 2017 YTD



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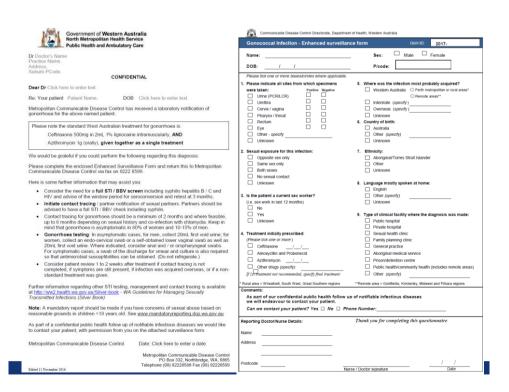
7

### Gonorrhoea testing, notification and test positivity rate by sex, Perth metropolitan area, WA, 2009 to 2016



# Case investigation of metro gonorrhoea notifications from 1.7.17

- Enhanced Surveillance Form (ESF) & letter faxed to GP within 48 hrs of notification, info re gonorrhoea Rx & contact tracing/partner notification.
- No f-up if no GP response unless in a high priority group, i.e.
- > <16 years
- > Notified by Department of Corrective Services and discharged.
- Aboriginal
- > Pregnant
- > Sex workers & clients
- > Homeless
- Emergency Department (ED)
- Hospital notified cases (excluding STI specialist services)
- After hours GPs
- > Outside metro Perth

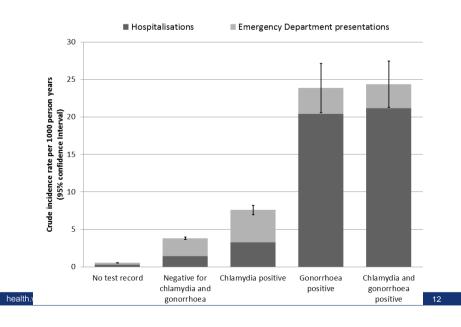


# Enhanced gonorrhoea surveillance, 2016

	Aboriginal	Non-Aboriginal	
Sex	M=F	M>F	
Sexual orientation	Heterosexual, <2% homosexual	Heterosexual, 23% homosexual	
Health service	Public hospital, community health clinic or Aboriginal medical service	Sexual health clinic or GP	
Sample	urine	urine	
Rx	Amoxycillin, probenecid & azithromycin	Ceftriaxone & azithromycin	

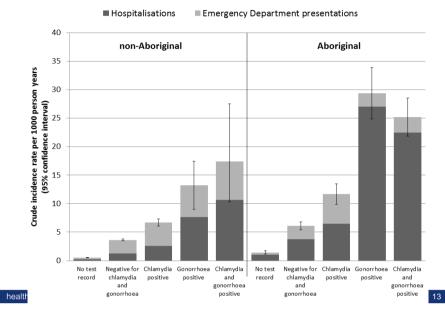
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Crude incidence rate of PID by chlamydia and gonorrhoea testing and positivity, in WA women born 1974-1995, from age 15 years to 31.12.2013. (Reekie J., Donovan B., Guy R et al. Risk of pelvic inflammatory disease in relation to chlamydia and gonorrhoea testing, repeat testing, and positivity: a population-based cohort study. Clin Infect Dis, in press)



Crude incidence rate of PID by chlamydia and gonorrhoea testing and positivity, stratified by Aboriginality in WA women born 1974-1995, from age 15 years to

31.12.2013 (Reekie J., Donovan B, Guy R et al. Risk of pelvic inflammatory disease in relation to chlamydia and gonorrhoea testing, repeat testing, and positivity: a population-based cohort study. Clin Infect Dis, in press).



#### STI testing in pregnancy

- At booking visit: chlamydia, gonorrhoea, syphilis, hep B & C
- Repeat in 2<sup>nd</sup> and 3<sup>rd</sup> trimesters if high risk
- What % of women delivering in metro hospitals have had >=1 gono/chlam test in pregnancy?
- 89%

#### Number and proportion of gonorrhoea notifications with PPNG detected by PCR, WA, 2016

PHU	Notifications	GonoPPNG	%	
Metropolitan	2274	54	2%	_
Midwest	129	26	20%	
Cent-Wheatbelt	28	0	0% 👸	Government of Western Australia RA Country Health Service
Goldfields	127	1	1% WAH	lealth Services
Great Southern	14	0	0% New Chair	result Class
Kimberley	464	6	1%	Pilbara
Pilbara	216	8	4%	Sales and Sales
Southwest	95	1	1% 🌾	Midwest
			7	Wheatbell
PPNG detections co	/est			
health.wa.gov.au				uth

**Future directions** 

- Qualitative interviews with metro gonorrhoea cases
- Case control study
- Genotyping
- Collaborative Health Analysis and Statistical Modelling (CHASM) – real-time, deidentified geospatial analysis of STI/BBV testing and test result data, likely to start in 2018

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#### **Acknowledgements**

We wish to thank diagnosing laboratories, doctors, practice nurses and public and community health nurses for providing the information to enable the ongoing monitoring of gonorrhoea infections in WA