

Women and STIs

Terri Foran

October 2022



RACGP

 Women's
Health Week

 Jean Hailes
FOR WOMEN'S HEALTH

Sexual History Taking and Screening for STIs

- Take nothing for granted
- Be flexible with language and questions
- Establish trust
- Consider the 5 'P's
 - Partners
 - Practices (Sexual)
 - Past History of STIs
 - Protection from STIs
 - Prevention Pregnancy
- Since most STIs are asymptomatic, those at higher risk should consider screening at least annually and additionally test should any symptoms occur in self or partner



*This presentation takes a
cis-gendered approach-
Trans issues more complex*

Introducing Casey



- Casey is 18 years old and in her last year of high school
- At a party last night she got wasted- and woke up while having unprotected sex with a boy from her class
- She sees her GP for the ECP because she stopped the Pill a couple of months ago when she broke up with her boyfriend
- She had seen her GP at the time because of BTB on the Pill- but testing diagnosed chlamydia and her boyfriend later admitted to other partners

Is Casey at higher risk of STIs?

Sexual Assault and STI Risk

- One in five Australian women (18% or 1.7 million) had experienced sexual violence, defined as the occurrence or threat of sexual assault¹
- Women were most likely to experience sexual assault by a male they knew (87%)¹
- The location of the most recent incident was most likely to be in the respondent's home (40%) or in the perpetrator's home (17%)¹
- 9 out of 10 women (87%) did **not** contact the police¹
- US study suggested that women who have been forced to have sex are at greater risk for STIs, but they are less likely to be treated²
- A 2010 US National Intimate Partner and Sexual Violence Survey³ reported:
 - Lifetime prevalence of rape, physical violence, or stalking by an intimate partner was 35.0% for heterosexual women, 43.8% for lesbians and 61.1% for bisexual women

1. Personal Safety Australia 2017: <https://www.abs.gov.au/statistics/people/crime-and-justice/personal-safety-australia/latest-release>

2. Data presented at the 2016 CDC STD Prevention Conference in Atlanta

3. Walters ML et al. 2010 findings on victimization by sexual orientation. Atlanta, Ga.: National Center for Injury Prevention and Control, Centers for Disease Control and Prevention; 2013

Young Women and STIs

- Young people experience higher rates of STIs than the general population in Australia^{1,2}
 - Why?- more sexually active, more partners, more use of alcohol/drugs, often more risk-taking behaviour
 - In adolescent LGB research suggests higher rates of substance use, higher rates of multiple substance use and higher ongoing use with age³
 - Any young person with a previous STI is at higher risk of subsequent STIs^{4,5}
- Young people have lower STI screening rates than the general population in Australia^{1,2}
 - **Why?- Not generally seen by as a priority group by SHCs and will be directed to GP care**
 - But this group is also **less** likely to attend a GP for sexual healthcare because of concerns around confidentiality, judgement and costs⁶
 - Most STIs are asymptomatic

1. Department of Health and Ageing. *Third national sexually transmissible infections strategy 2014–2017*. Canberra: DHA 2014

2. Newman P et al. *Family Planning NSW*, 2011 https://www.fpnsw.org.au/sites/default/files/assets/rsh_in_nsw_and_australia.pdf

3. Goldbach JT et al. *Prev Sci*. 2014;15(3):350-363

5. den Heijer CDJ et al. *Sex Transm Infect* 2015;92(3):170

4. Joffe GP et al. *Sex Transm Dis* 1992;19(5):272–78

6. Coleman A et al. *AJGP* 2019;48(6):411-414

Back to Casey.....

- Casey has a GP she trusts and who previously managed her chlamydia
- They discuss the use of the EC, the pros and cons of various emergency contraceptive methods and Casey's ongoing contraceptive needs
- They discuss referral to a sexual assault service- but Casey says she's not interested
- They discuss Casey's alcohol and recreational drug use
- Casey has no current symptoms of STI but her GP arranges initial STI screening and further screening for chlamydia (and pregnancy testing) in 2-3 weeks
- Casey's GP provides her with some good web-links she may wish to explore for more information on STIs and safer sex



Why is STI Prevention in Young Women so Important?

- Historically, women have **not** been listed as a priority population in Australian STI health planning
- Effective treatment (including of contacts) is important to prevent ongoing community transmission
- Untreated chlamydia and gonorrhoea can lead to PID and/or chronic pelvic pain and more rarely to reactive arthritis
- Pregnancy related issues
 - Chlamydia and gonorrhoea are associated with infertility, higher rates of ectopic pregnancy and adverse birth outcomes
 - Herpes simplex, trichomonas and bacterial vaginosis are associated with adverse birth outcomes
 - Though Australian rates of congenital syphilis remain small, they are rising- in 2020, a total of 19 cases of congenital syphilis were reported¹



Introducing Sigrun



- Sigrun is 30 years old
- Sigrun had a number of male sexual partners in her teens but has identified as lesbian for the past 10 years
- She lives in a committed but open relationship with her female partner of 6 years
- She says sex with her occasional casual and short-term partners is 'usually protected'

Is Sigrun at higher risk of STIs?

STI Risk in WSW

- Disclosure to a health provider can be difficult for many WSW, as no certainty of practitioner attitudes before disclosure^{1,2} and some GPs are less comfortable advising WSW³
- Other risk factors come into play- sex with men, smoking, drug use, safer sex practices, regular partner's STI risks^{4,5}
- The **prevalence** of STIs among lesbian women is similar to that of heterosexual women, and possibly higher among bisexual women, though evidence limited^{4,5}
- The **rates** of STIs tend to differ:
 - Bacterial vaginosis is more common, and treatment of symptomatic female partners is advised⁶
 - Chlamydia, gonorrhoea and blood borne viruses (except in IVDUs) appear less common⁶
 - However at least one more recent study indicates higher rates of chlamydia in younger WSW⁷
 - Rates of genital warts, genital herpes and trichomoniasis are similar⁶
- WSW have similar rates of cervical dysplasia (i.e. carriage of oncogenic HPV) to age-matched heterosexual women, indicating the need for cervical screening at the recommended intervals⁸

1. Neville S et al. *J Advance Nurs* 2006;55:407-15

3. Temple-Smith M et al. *Sexually Transmitted Infections* 1999;75:41-4

5. Tao G. *Am J Public Health* 2008;98:1007-9

7. Marrazzo JM et al. *Curr Infect Dis Rep.* 2012;14(2):204-211

2. Goldbach JT et al. *Prev Sci.* 2014;15(3):350-363

4. Mercer CH et al. *Am J Public Health* 2007;97:1126-33

6. Bailey JV et al. *Sex Transm Infect* 2004;80:244-6

8. Marrazzo JM et al. *Am J Public Health* 2001;91:947-52

Introducing Mandy



- Mandy is a 65-year-old women
- Divorced from her husband of 20 years 5 years ago
- Has had a number of short-term relationships with male partners of a similar age since
- Safer sex not practiced with most partners as they have been reluctant to use condoms and Mandy has not insisted

Is Mandy at higher risk of STIs?

STI Rates in Older Australian Women¹

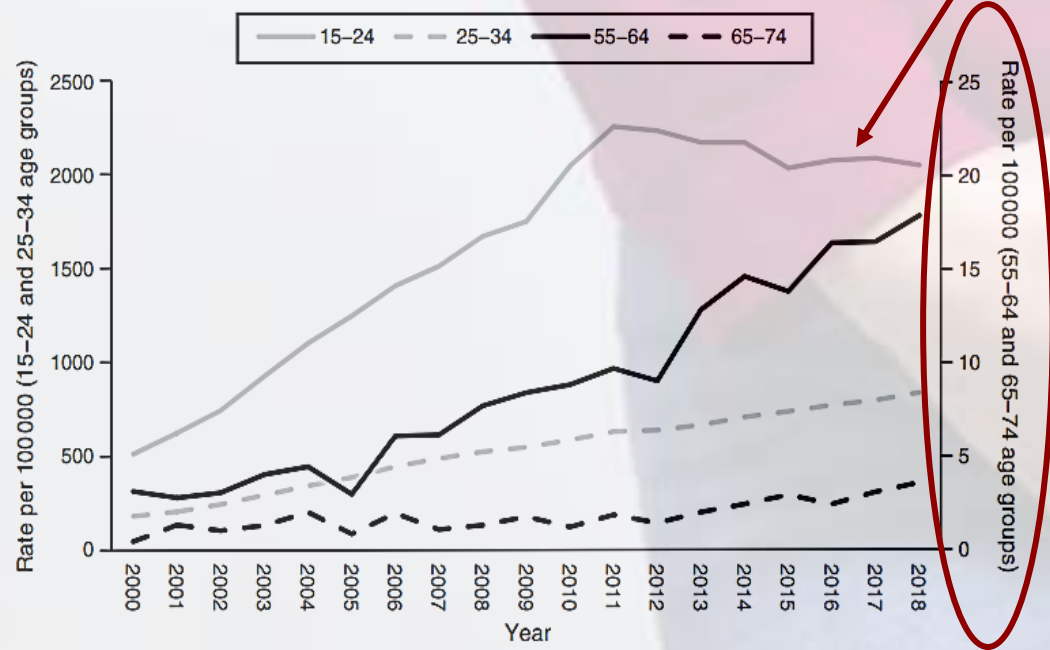
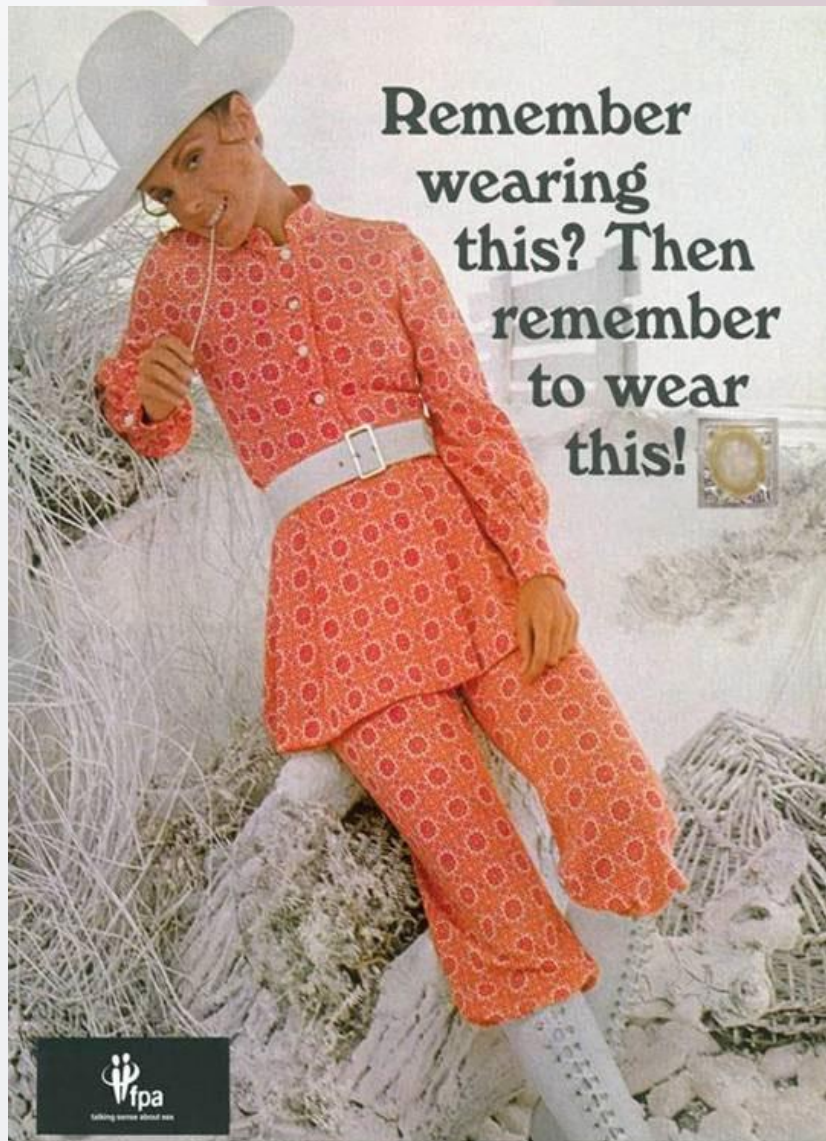


Fig. 1. Chlamydia trends among women in Australia, 2000-18.

- The highest burden of STIs is in Australian women aged 15-24 but:
 - Chlamydia incidence rates declined in this group from 2014 to 2018
 - Rates of gonorrhoea increased least in this age group
 - Rates of syphilis increased least in this age group
- **Absolute** rates of STIs are still low in older women in Australia but are increasing at a faster rate than in younger women
 - From 2014 to 2018, chlamydia rates increased the most among those aged 55-64 years
 - Gonorrhoea rates increased the most among those aged 65-74 years
 - Syphilis rates increased the most among those aged 55-64 years



Remember
wearing
this? Then
remember
to wear
this!



Remember when you thought this looked fab and groovy? When everything was peace, love and tie-dye tee shirts? You're older and wiser now of course. An experienced lover. All the sexual anxieties of youth a thing of the past. But if that's true, how come it's older people who are getting more sexually transmitted infections (STIs) than ever before? Simple. Once we hit our 40s and 50s, we drop our guard. We think things like syphilis, gonorrhoea, genital warts and chlamydia are strictly for young people. Well, unfortunately, STIs don't ask how old you are before they infect you. And they don't care how few sexual partners you've had recently either. So, if you want to enjoy a few more perfect summers of love, remember - condoms rock. Use them!

For confidential advice phone the FPA helpline on 0845 122 8690 or Ask WES online at www.fpa.org.uk.

The Family Planning Association is a registered charity, number 230187, and a limited liability company registered in England, number 807022 © FPA 2010.



remember wearing this?

Remember when you thought this looked fab and groovy? When everything was peace, love and tie-dye tee shirts? You're older and wiser now of course. An experienced lover. All the sexual anxieties of youth a thing of the past. But if that's true, how come it's older people who are getting more sexually transmitted infections (STIs) than ever before? Simple. Once we hit our 40s and 50s, we drop our guard. We think things like syphilis, gonorrhoea, genital warts and chlamydia are strictly for young people. Well, unfortunately, STIs don't ask how old you are before they infect you. And they don't care how few sexual partners you've had recently either. So, if you want to enjoy a few more perfect summers of love, remember - condoms rock. Use them!



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Why are STI rates increasing in Older Women?



Now Herpes Sufferers
can come out of
hiding....

- Risk of STIs in heterosexuals over 50 is perceived as low by most health professionals- don't ask/don't test/don't find
- Knowledge of STIs may be less than in younger groups due to lack of public health messaging
- Unlike the UK-little of the Australian patient literature on the subject targets this sector
- Postmenopausal women may be more susceptible to infection due to thinning of the vaginal skin, reduced lubrication and vulnerability to microtrauma during intercourse¹
- Rates of condom use lower in older Australians²⁻⁵

1. Brooks JT et al. *Am J Public Health* 2012; 102: 1516–26

3. Bourne C et al. *Australas J Ageing* 2009; 28: 32–6

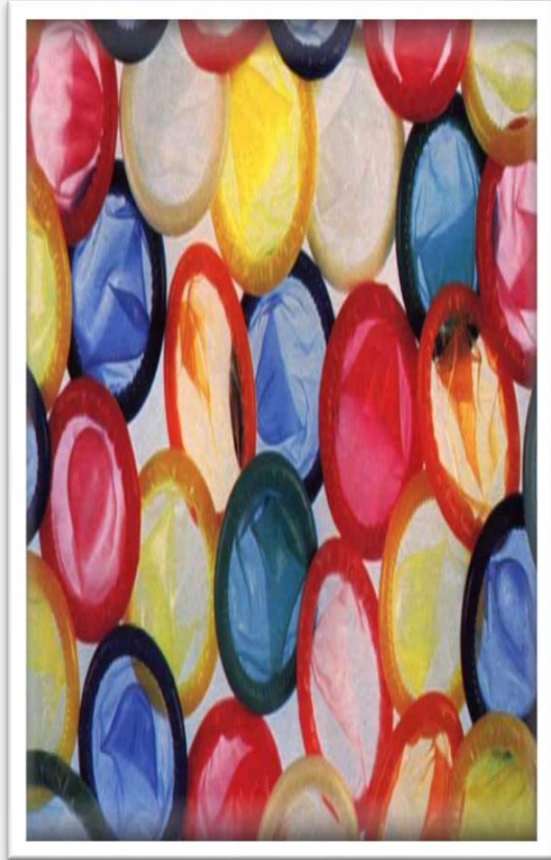
5. de Visser RO et al. *Sex Health* 2014; 11: 495–504

2. Cheng Y et al. *Sex Health* 2018; 15: 223–31

4. Stewart M et al. *Sex Health* 2017; 14: 533–9

The Thing about Condoms.....

- FPA Survey¹ of 2339 heterosexual men who were using a dating App in 2014:
 - Men aged 50 or older were less likely to use condoms and more likely than younger men to think that condoms reduced sexual pleasure
 - 49 per cent of men over 60 did not know that chlamydia usually causes no symptoms
 - Older men with a higher number of sexual partners were **more** likely to take more risks when it came to safer sex
- Condoms may make erections more difficult to maintain in older men- PDE5 inhibitors may be useful
- Very few couples routinely use condoms/dams when engaging in oral sex
- 2012 FPA study indicated that women over 40 years of age were less likely to refuse sex without a condom than those under 40²

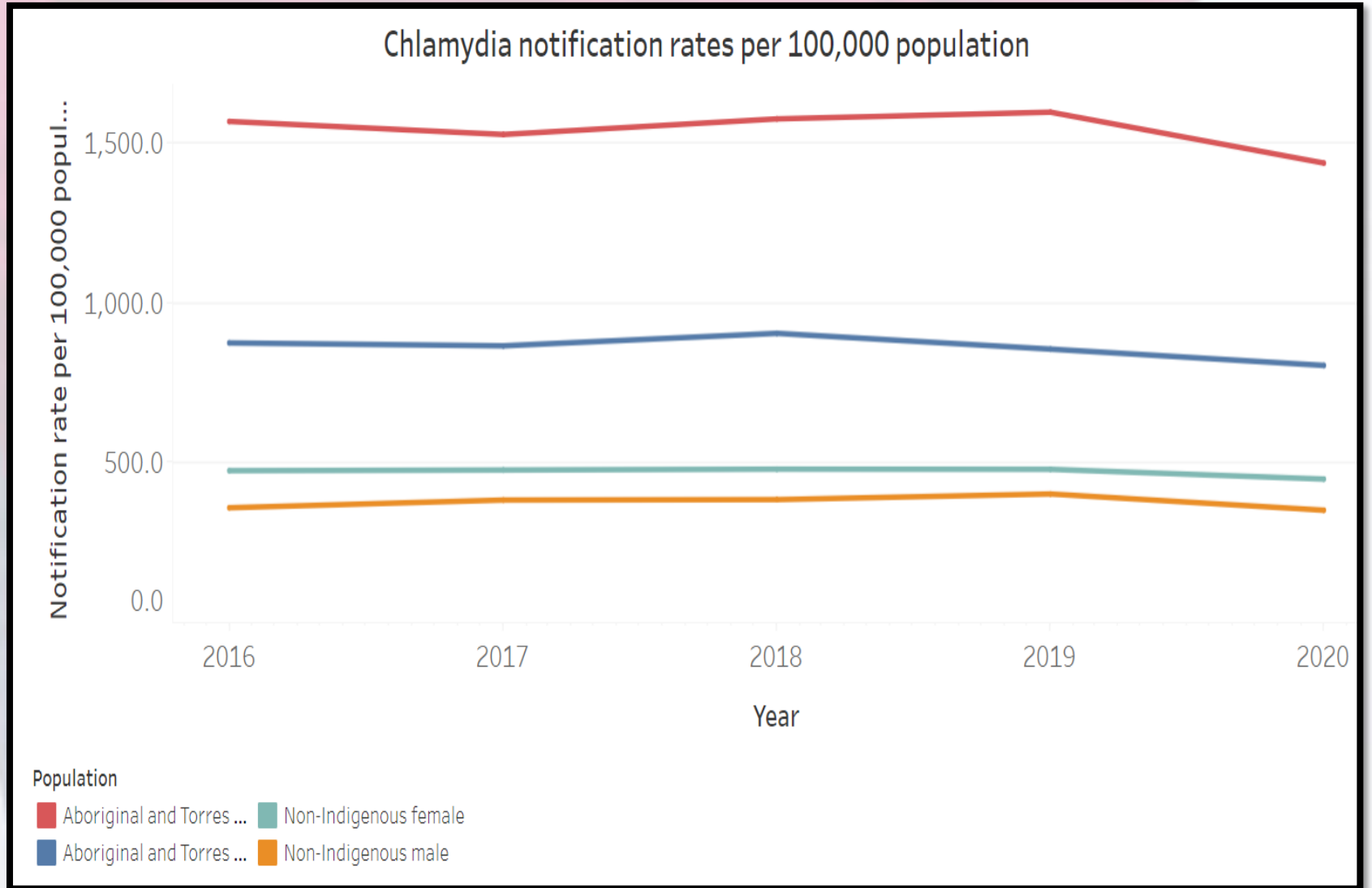


Introducing Kirra

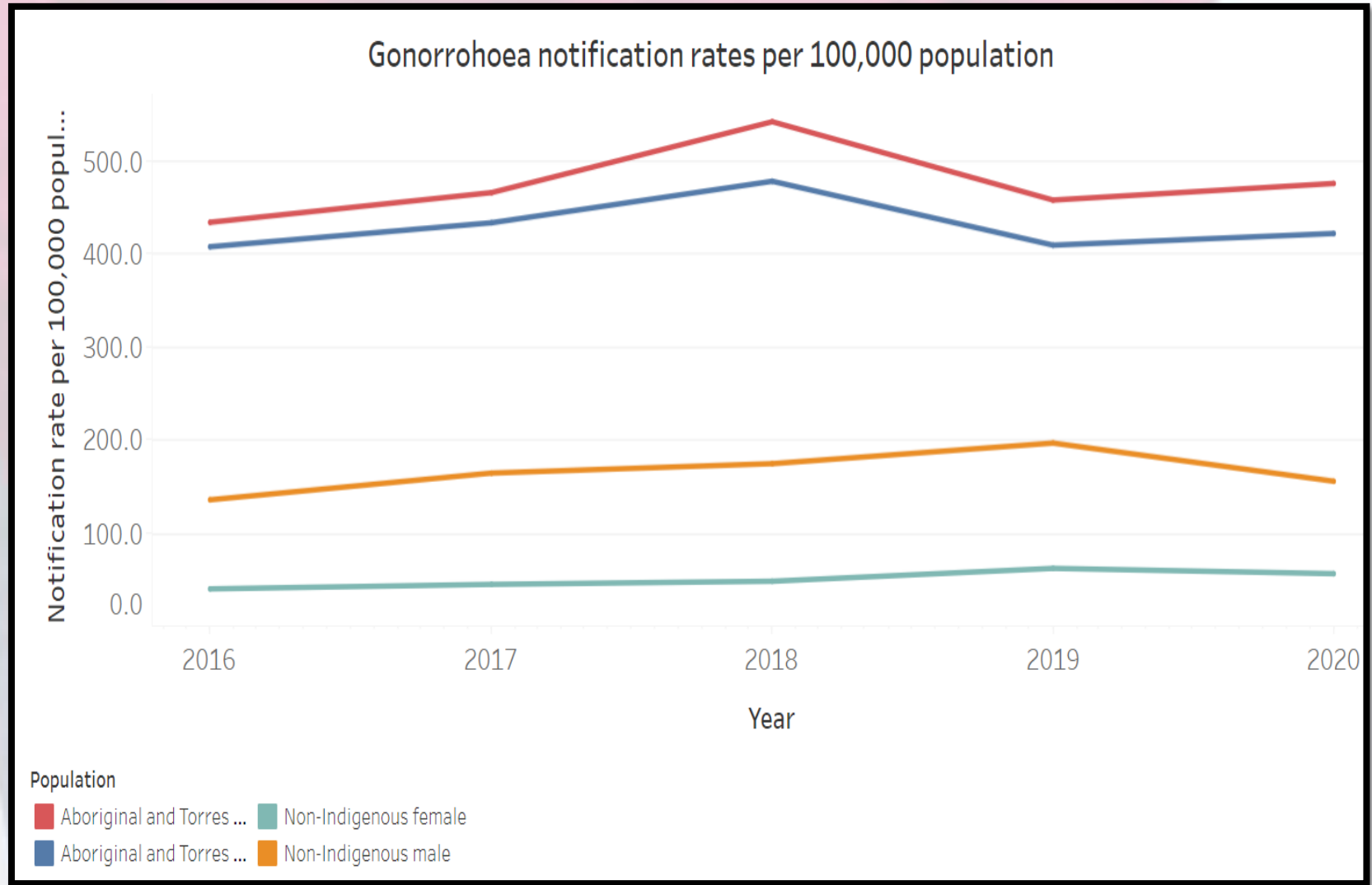


- Kirra is a 40-year-old indigenous woman who works as an admin assistant at a metropolitan Aboriginal Legal Centre
- Divorced, she is a single mother to 2 kids now in their late teens
- She has been in an on-and-off relationship with a male partner of similar age for the past 2 years
- Her partner has reassured her that this is a monogamous relationship but Kirra is not so sure, and has insisted on condom use whenever they have intercourse

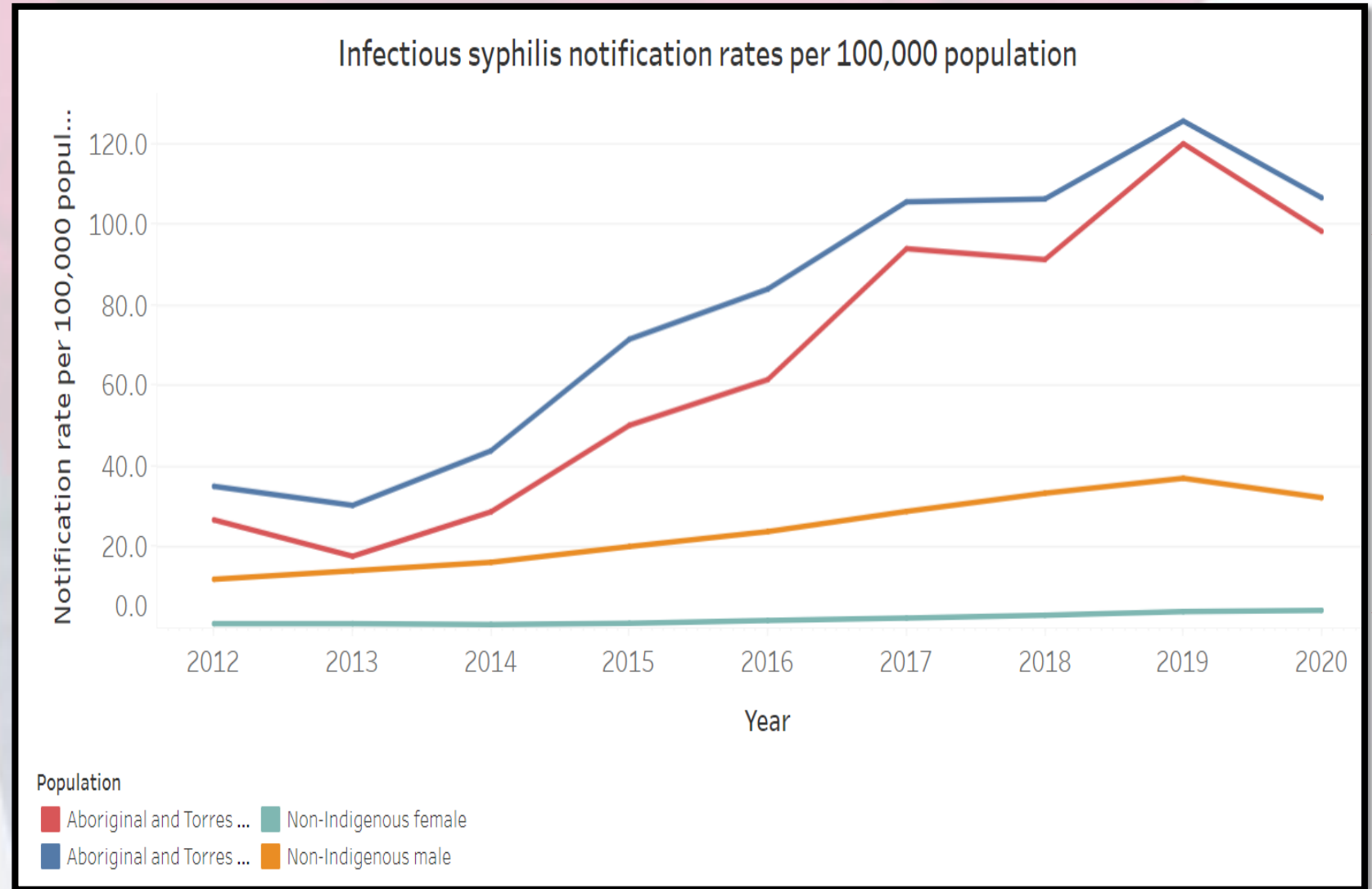
Is Kirra at higher risk of STIs?



Available at: <https://kirby.unsw.edu.au/reports>
Accessed September 2022



Available at: <https://kirby.unsw.edu.au/reports>
Accessed September 2022



Available at: <https://kirby.unsw.edu.au/reports>
Accessed September 2022

STIs in Indigenous Australians

- Since stratified data has been reported, notification rates for chlamydia, gonorrhoea and infectious syphilis in **remote** communities have been recorded at between three and 50 times that of non-Indigenous Australians¹
- 16–19 years old indigenous Australians carry the greatest burden of these infections, with almost half this age group living in remote communities having one or more of gonorrhoea, chlamydia and trichomonas infections^{1,2}
- Rates of infectious syphilis notifications are up to 300 times higher in indigenous Australians, with up to 70% of infections among those aged between 15 and 29. Roughly equal numbers of males and females are affected³
- The disparity between remote Aboriginal people and their peers (both Aboriginal and non-indigenous) in urban and regional settings is far greater for gonorrhoea and infectious syphilis than it is for chlamydia¹
- In a study of 67 remote communities the prevalence of chlamydia in those aged 16-24 years was 21%⁴ compared with a rate of 5% in an urban GP/community health setting⁵

1. The Kirby Institute. HIV, viral hepatitis and sexually transmissible infections in Australia: annual surveillance report 2018. Sydney: Kirby Institute, 2018. <https://kirby.unsw.edu.au/report/hiv-viral-hepatitis-and-sexually-transmissible-infections-australia-annual-surveillance> accessed August 2022

2. Guy R et al. *Sex Transm Infect* 2015;91:201–6

3. Australian Government Department of Health. Infectious syphilis outbreak, 2020. <https://www1.health.gov.au/internet/main/publishing.nsf/Content/ohp-infectious-syphilis-outbreak.htm>

4. Silver BJ et al. *Sex Transm Infect* 2015; 91: 135–141

5. Lewis D et al. *BMC Infect Dis* 2012; 12: 113.

But Putting this into Context...

- STI transmission is largely determined by community prevalence.....
- Those living in remote areas have poorer general determinants of health, such as education, health care access, income and employment, all of which are associated with higher rates of STIs¹
- Age is a specific risk factor for STI transmission; only 1/3 of non-Indigenous Australians are aged under 25 years, compared with over 1/2 of Aboriginal people²
- Specific determinants of STI risk, such as poverty, age of sexual debut, number of sexual partners, mobility of population, substance abuse and lack of condom use may all contribute to the higher prevalence of STIs in Aboriginal people³
- Follow-up, contact tracing and access to appropriate treatment may be more difficult in more remote areas where temporary clinics and high staff turnover is common⁴

1. MacPhail C et al. *Health Soc Care Community* 2018; 26: 131–146

2. ABS data 2016. Aboriginal population and housing <http://www.abs.gov.au/ausstats/abs@.nsf/Lookup/by%20Subject/2071.0~2016~Main%20Features~Aboriginal%20and%20Torres%20Strait%20Islander%20Population%20Data%20Summary~10> accessed August 2022

3. Wand H et al. *Sex Health* 2018; 15: 68–75

4. Hengel B et al. *Sexual health* 2014; 12: 4–12.

Introducing Ketifa



- 42-year-old Ketifa is a recently arrived refugee from Syria who is pregnant with her 5th child and attends the local hospital for antenatal care
- She is 20 weeks pregnant and speaks no English
- An interpreter has been arranged but Ketifa is very quiet and provides only a very limited medical history

Is Ketifa at higher risk of STIs?

STIs in Culturally Diverse Women

- One in four Australians was born OS and another 20% has a parent born OS¹
- Research^{2,3} has indicated that those from culturally diverse groups may have:
 - Less knowledge about STIs and different perceptions of risk
 - Limited access to culturally and linguistically appropriate information on SRH
 - A higher prevalence of some STIs than the general Australian population
 - Higher levels of shame/stigma/embarrassment
- Migration-related inequity and discrimination may intersect with family violence and reproductive coercion²
- Barriers exist to accessing appropriate health care- indicating need to improve sexual health literacy and access to appropriate and culturally secure health services for this population^{2,3}

1. Department of Social Services. *The people of Australia - Australia's multicultural policy*. Canberra: Department of Social Services; 2013

2. Hach M. *Common threads: the sexual and reproductive health of immigrant and refugee women in Australia* [Internet]. Melbourne: Multicultural Centre for Women's Health; 2012 https://www.mcwh.com.au/downloads/publications/MCWH_CommonThreads_Report_WEB.pdf

3. Mengesha Z et al. *Sexual Health* 2016. 13; 299-310

Immigrant and Refugee Women

- Are at greater risk of suffering poorer maternal and child health outcomes¹
- Are less likely than Australian-born women to have adequate information and familiarity with modern contraceptive methods¹
- Are less likely to be using effective contraception-a 2012 general practice study found the use was half that reported in English-speaking households²
- Are at greater risk of contracting STIs/HIV, especially those from countries where the condition has a high prevalence and partners travel home¹
- Are less likely to use health and social/support services¹
- Are less likely to have access to evidence-based and culturally relevant information which will enable them to make decisions about their health¹
- **BUT these women are uniquely placed to improve sexual and reproductive health for themselves and their communities through preventive health education and access to appropriate services**

1. Multicultural Centre for Women's Health- 2012 Report

https://www.mcwh.com.au/downloads/publications/MCWH_CommonThreads_Report_WEB.pdf

2. Mazza, D et al. MJA. Vol. 197 (2). p. 110-114

A Brief Word on Self-collected Testing

• Cervical Screening

- Since July 2022 self-collected cervical screening testing available to **all** Australian women¹
- Clinicians should be proactive in offering self-collected testing as an option- currently only 52% are screening as per guidelines¹
- May be more acceptable to women who find conventional testing painful, embarrassing, culturally inappropriate etc, thus overcoming current barriers to screening
- As effective in detecting HPV as a clinician-collected sample, but no cytology report¹
- Note different follow-up guidelines- for HPV (other) and for indigenous women

• Self-collected Chlamydia/Gono (PCR vaginal swab)

- Only slightly less sensitive than cervical specimen²
- Useful for screening and for follow-up

• HSV PCR swabs

- Almost as effective as physician collected samples³ and useful for confirming/typing long-standing or quickly-resolving HSV

1. <https://www.health.gov.au/initiatives-and-programs/ncsp-healthcare-provider-toolkit/cervical-screening-options/self-collection-for-cervical-screening>

2. Lucashu A et al. Evidence-Based Practice: February 2018 - Volume 21 - Issue 2 - p E4-E5 doi: 10.1097/01.EBP.0000541982.39580.66

3. Rodrigues LS et al. Int J STD and AIDS; 30 (11):<https://doi.org/10.1177/0956462419842007>

STIs In Australia



- Sexually transmitted infections comprise about 40% of all reported notifiable conditions in Australia- and some infection rates continue to increase¹
- **But** some significant runs on the board-due to the work of clinicians like you:
 - Marked decrease in clinical genital warts in those < than 26 years old- following the launch of HPV vaccines in Australian female adolescents in 2007² (F down 60%, HM down 30%)
 - Concurrent decrease in HSIL in younger Australian women³
 - The virtual elimination of mother-to-child transmission of HIV¹
 - Many successfully treated for Hep C treatment following the availability of direct acting antiviral treatment on the PBS³

1. National notifiable diseases surveillance system [Internet]. Canberra: Australian Government, Department of Health; 2020.

<https://www.health.gov.au/sites/default/files/documents/2021/09/australia-s-notifiable-disease-status-2016-annual-report-of-the-national-notifiable-diseases-surveillance-system-australia-s-notifiable-disease-status-2016-annual-report-of-the-national-interoperable-notifiable-diseases-su.pdf> Accessed August 2022

2. Donovan B et al. *Lancet Infect Dis* 2011; 11: 39-44

3. Brotherton JML et al. *Med J Aust* 2016; 204 (5): 184

4. Kirby Institute Data: <https://data.kirby.unsw.edu.au/hepatitis-c> Accessed August 2022

Recommended Resources

- Australian Treatment Guidelines (also has section on WSW)

<https://sti.guidelines.org.au/>

- RACGP Red Book- STIs

<https://www.racgp.org.au/clinical-resources/clinical-guidelines/key-racgp-guidelines/view-all-racgp-guidelines/guidelines-for-preventive-activities-in-general-pr/communicable-diseases/sexually-transmissible-infections#ref-num-7>

- Melbourne Sexual Health- information for Health Professionals

<https://www.mshc.org.au/health-professionals>

- Kirby Institute Data on STIs in Australia

<https://data.kirby.unsw.edu.au/sexually-transmissible-infections>

- Young Deadly Free. This site provides a range of useful information and resources for young people; elders, parents and other adults; and health workers- <https://youngdeadlyfree.org.au/>

- Girl2Girl- <https://girl2girl.health/>

- Anonymous Partner Notification for STIs-<https://letthemknow.org.au/>

- Full Stop Australia-<https://fullstop.org.au/>



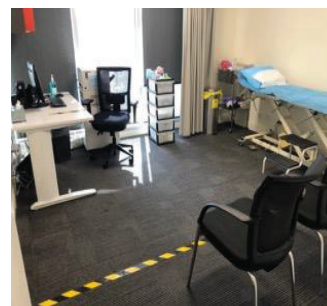
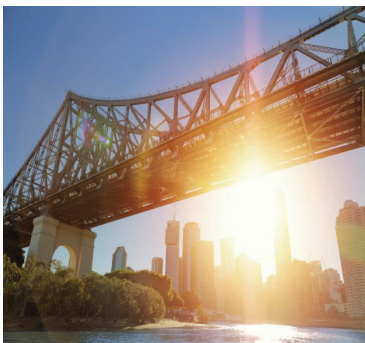
Thanks for Listening... and Any Questions?



Combatting Australia's new syphilis epidemic: The crucial role of GPs



Dr Lara Roeske,
Chair – RACGP Specific Interests faculty



PATIENT ALERT
Please read before entering the practice

If you have **ANY** of these symptoms

Fever	Cough
Sore throat	Shortness of breath

Please do not enter the practice

Call reception on
You will be asked some questions and provided information on what to do next.
This will help protect the health and safety of you and others.
Thank you for your cooperation.

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COVID has obscured an emerging and alarming Syphilis epidemic expanded across the whole of Australia

- On 22nd October 2021 Health Minister's advisory committee on BBV & STI met at a Syphilis Roundtable to discuss concerning data and information
- Australia not on track to meet WHO 2030 targets
- Syphilis continues to increase across Australia at an alarming rate
- Recently significant changes to the epidemiology and geography of Syphilis
- As Australia emerges from COVID more opportunities for travel, new partners & casual sex
- Undiagnosed and untreated Syphilis can be lethal and catastrophic



Chief Medical Officer

Increasing notifications of INFECTIOUS SYPHILIS IN WOMEN OF REPRODUCTIVE AGE

Essential information:

- Notifications of infectious syphilis among non-indigenous and Aboriginal and Torres Strait Islander women of reproductive age have substantially increased, particularly in major cities of Australia, posing an increased risk of congenital syphilis and adverse pregnancy outcomes.
- Specific actions for clinicians include:
 - Repeat testing in pregnant women at high risk of infection or reinfection
 - Consider infectious syphilis as a possibility when conducting sexually transmissible infection screening
 - Test for infectious syphilis in any sexually active young person where they, or their partner, resides in an area of high prevalence

Dear Colleague,

I am writing to provide you with an important update concerning the alarming rise of infectious syphilis in Australia, and to urge you to remain vigilant in testing, re-testing and treating at-risk patients.

Notifications of infectious syphilis among women in Australia have increased considerably since 2015. This is, in part, due to the ongoing outbreak in Aboriginal and Torres Strait Islander peoples residing in predominantly regional, remote and very remote areas of Queensland, the Northern Territory, Western Australia, and South Australia. Notifications among non-indigenous and Aboriginal and Torres Strait Islander women outside of outbreak declared regions, including major cities, have also contributed to the marked increase in notifications overall. Particularly concerning is the high proportion of infections occurring in women of reproductive age (15-44 years) (approximately 90% of all female cases notified each year) which has considerable public health implications given the increased risk of congenital syphilis and adverse pregnancy outcomes.



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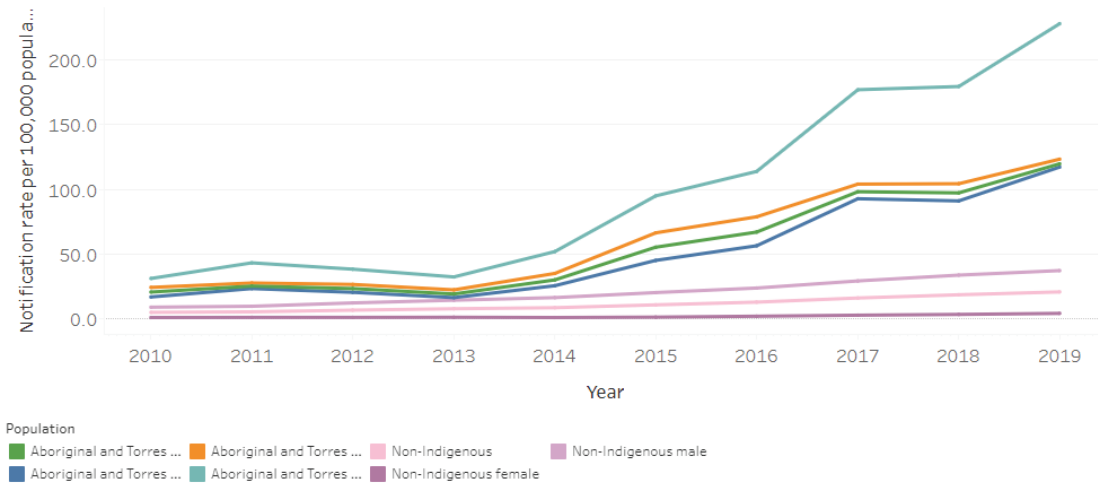
Urgent need to alert GPs - GPs are key to Syphilis control

- GPs see ~ 2,000,000 Australians each week
- Most STIs >90% diagnosed and managed in primary care
- Greatest opportunity exists for Syphilis control through early detection and effective treatment in the community
- Many GPs are unaware of the epidemic and may lack current experience in managing Syphilis
- The GPs crucial role in early detection, testing and re-testing & timely appropriate antibiotic treatment of Syphilis – the focus of this webinar

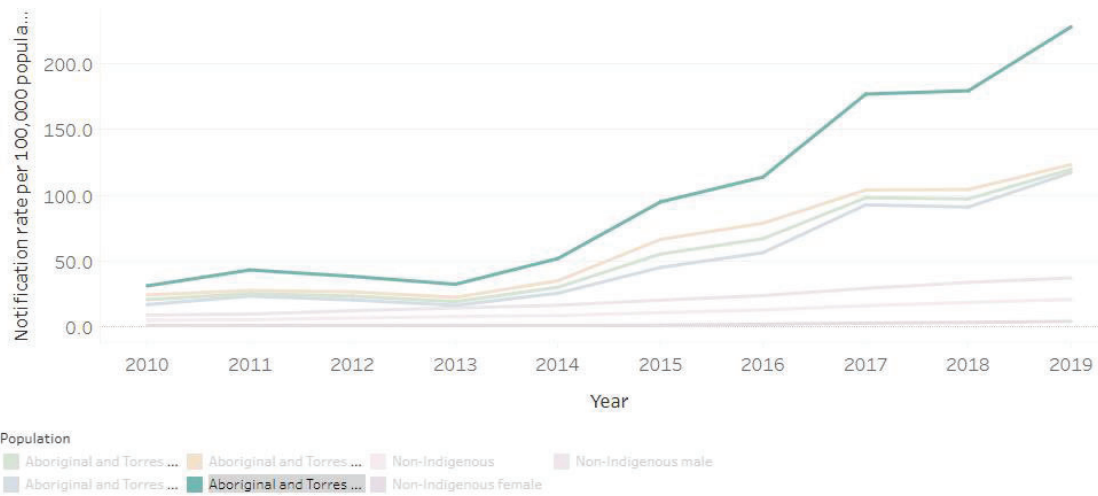


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Notification rates per 100,000 population



Notification rates per 100,000 population



GP How to Guide: Penicillin Injection for the Treatment of Syphilis

Dr Lara Roeske

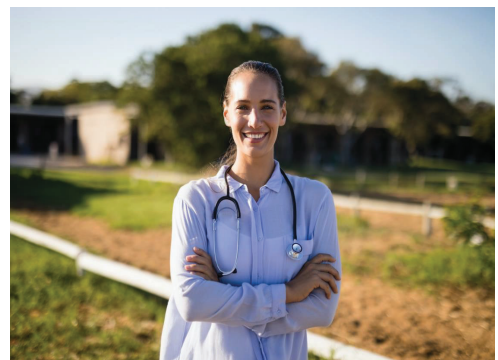
lara.roeske@racgp.org.au

 RACGP Specific Interests


RACGP

GPs can treat & cure Syphilis

- ✓ Access to the right Penicillin formulation
- ✓ Use correct treatment dose
- ✓ Safest route for administration
- ✓ Recommended interval between doses
- ✓ # of doses is correct
- ✓ Allergies, pregnancy & complications
- ✓ Patient safety, education and comfort



 RACGP  RACGP Specific Interests

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Preparing the patient

- Pre- and post treatment instructions
 - Health literacy
 - Culturally safe
- Verbal consent/document
- Offer a support person
- Allow sufficient time/ calm environment
- Check right patient & right medication
- Remain in clinic for observation after treatment
- Ice*

* The ICE trial A study protocol for a RCT of ice to reduce the pain of immunisation. AJGP Vol 51, No. 3, March 2022.



The Jarisch-Herxheimer (JHR) reaction

- is a transient non allergic reaction
- occurs in patients infected by spirochaetes who undergo antibiotic treatment
- not uncommon and usually resolves on its own.
- symptoms begin within 2 -12 hours after treatment
- include fever, malaise, sweats, headache, joint pains and elevated HR
- no definite treatment other than rest, plenty of fluids and paracetamol.

Queensland Health
Queensland Clinical Guidelines

Parent information

Syphilis in pregnancy and Jarisch-Herxheimer reaction (JHR)

This information sheet aims to answer some commonly asked questions about Jarisch-Herxheimer reaction.
IMPORTANT: This is general information only. Ask your doctor or midwife about what care is right for you.

What is a Jarisch-Herxheimer reaction (JHR)?
JHR is a non-allergic reaction that can happen after antibiotics are given to treat certain types of infections. Syphilis is one of the infections where this type of reaction can happen. Less than half (about 40%) of pregnant women who are treated for syphilis will have this reaction—however, most of the time symptoms resolve on their own.

What happens if you have a JHR reaction?
Symptoms usually appear 2-12 hours after treatment and they usually disappear on their own by 24 hours. If you get JHR you might:

- Feel hot (fever)
- Feel extra tired (malaise)
- Sweat a lot
- Have a headache
- Have pain in your joints
- Have a fast heart beat

Can JHR harm your baby?
The risks to your baby from a JHR reaction are lower than the risks of not having treatment. After treatment for syphilis, some women may feel contractions or go into early labour. Sometimes your baby's movements or heart beat can change. Your health care provider may suggest that you stay in hospital so you and your baby can be observed closely. You are more likely to need extra care if there are concerns about your baby or if you:

- Are more than 24 weeks pregnant
- Have high levels of syphilis on your blood test
- Also have HIV

Is there any treatment for JHR?
There is no treatment for JHR. Most women will only need to rest, but cool and drink plenty of water until the symptoms pass. Simple pain medications (like paracetamol) can help with symptoms. Talk with your health care provider before taking any medications. What should you do if you get JHR?

If you are having any symptoms of JHR after treatment, or don't feel well, tell your healthcare provider. If you are at home, telephone or go to your local hospital. It will be important to tell them that you have received treatment for syphilis and when the treatment started. They will advise you on what to do.

Should you wait until you are not pregnant to have treatment for syphilis?
No, don't delay having treatment for syphilis. It is very important that syphilis is treated as soon as possible during your pregnancy. Syphilis can cause very serious problems for your baby. It can sometimes cause your baby to die.

To learn more about syphilis in pregnancy, you may like to read the parent information called Syphilis in pregnancy.

Women who experience JHR

After treatment for syphilis in pregnancy:

4-5 out of 10 experience JHR	7 out of 10 experience a change to baby's movements
6 out of 10 experience contractions	5 out of 10 experience a change to baby's heart rate

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The correct treatment dose



Each syringe contains 1.2M I.U. of Benzathine Penicillin G (BPG)

Do not mix, combine or reconstitute

For deep **IM** injection only

The correct treatment dose

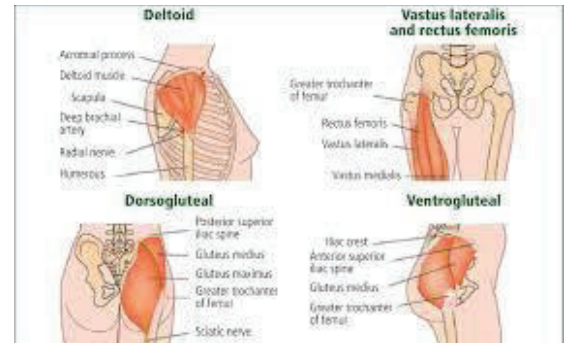
- **Treatment dose = 2.4 million I.U. of Benzathine Penicillin G (BPG)**
- Each syringe contains 1.2 million I.U of BPG
- 2 prefilled syringes = a treatment dose

- Primary, secondary or early latent Syphilis
 - x 1 treatment dose only
- Late latent or unknown duration
 - x 3 weekly treatment doses



IM BPG Injection site(s) & technique

- Choice of site –GP experience, patient weight & age, practice policy/protocol, patient preference
 - More muscle, less subcutaneous fat, free of large nerves/blood vessels
 - ✓ **Ventrogluteal (VG)- recommended**
 - ✓ Dorsogluteal (DG) – recommended
 - ✓ Vastus Lateralis – acceptable but not commonly used
 - Deltoid – NOT recommended
- Patient lying on side (VG) or prone (DG)



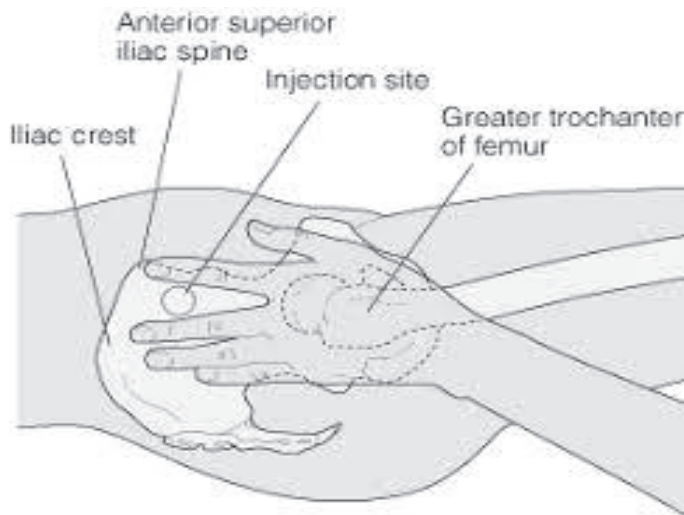
IM BPG Injection site(s) & technique

- Adequate time and calm environment
- Observe the patient throughout
- Distract the patient -wriggle toes/squeeze hand/whistle/hum/watch phone
- Use syringe cap to mark site on skin for injection
- Swab injection site site with alcohol
- Allow to dry before injecting
- Insert needle **90 degrees** to skin, aspirate before inject, come out same angle
- Injectable volume- reduce pain and increase absorption
- **Slowly** inject contents of **2** syringes at separate anatomical sites, via deep **IM** route
 - Simultaneous
 - Sequential

Site	Maximum volume
Ventrogluteal (recommended)	2.5ml
Vastus lateralis (recommended)	5ml
Deltoid	1ml
Rectus femoris	5ml
Dorsogluteal (not recommended)	4ml

Source: Adapted from Dougherty and Lister (2015)

The Ventrogluteal site (VG)



- Preferred site for IM injection
- Thicker muscle (gluteus medius)
- Thinner subcutaneous fat layer
- Fewer nerves and vessels
- Patient side lying
- Place your L hand on patients R hip (or vice versa)
- Use palm of you hand locate the greater trochanter of femur
- Index finger towards the ASIS
- Fan middle finger backwards along the iliac crest as far as possible
- Injection site is middle of triangle formed by your index and middle fingers

Access to Benzathine Penicillin G

Pre-order for Doctors bag

10 pre-filled syringes = 5 doses

Otherwise use a PBS script as expensive on private ~ \$60 +

Pharmacy no readily available stock/call ahead

Keep refrigerated

Room temperature preferred for injecting



Special treatment situations

Situation	Recommended action
Complicated	Refer acute neurological, ophthalmic or suspected tertiary disease to local sexual health or infectious diseases clinic
Pregnant women	Seek specialist advice. Only penicillin has been shown to be effective, so those allergic should be desensitised and treated with penicillin.
Allergy to penicillin	Non-penicillin regimens less evidence than penicillin but have shown to be effective. Infectious Syphilis: Doxycycline 100mg PO, BD for 14 days Non-infectious Syphilis: Doxycycline 100mg PO, BD for 28 days
HIV co-infection	Discuss with sexual health specialist

Real-time clinical advice & support for GPs

Inadequate

Only one service nationally provides

- ✓ details for phone contact to a specialist clinician/ sexual health physician for GP clinical advice
- ✓ relevant details for operation - days/times
- ✓ within a minute of accessing the service website

VIC Melbourne Sexual Health Centre **1800 009 903 Monday to Friday 9am-1230, 1:30-5pm**

Useful links per State or Territory

Victoria [Melbourne Sexual Health Centre](#)

New South Wales [Sydney Sexual Health Centre](#)

NSW Health Sexual Health clinics search <https://www.health.nsw.gov.au/sexualhealth/Pages/sexual-health-clinics.aspx>

Queensland [Sexual Health Clinic Brisbane](#)

QLD Sexual Health services search <https://www.health.qld.gov.au/clinical-practice/guidelines-procedures/sex-health/services>

Western Australia [Royal Perth Hospital Sexual health service](#)

[Government of WA South Metropolitan Fremantle health service](#)

Northern Territory [Royal Darwin Hospital Clinic 34](#)

[NT Sexual Health services https://nt.gov.au/wellbeing/hospitals-health-services/sexual-health-services](https://nt.gov.au/wellbeing/hospitals-health-services/sexual-health-services)

South Australia - [Adelaide Sexual Health Centre](#)

Tasmania – [Sexual Health Service Tasmania](#)

ACT [Canberra Sexual health Centre](#)



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Resources

www.health.gov.au/syphilis

www.health.gov.au/resources/pregnancy-care-guidelines/part-f-routine-maternal-health-tests/syphilis

www.sti.guidelines.org.au/sexually-transmissible-infections/syphilis



Syphilis is on the rise in Australia among men who have sex with men, women of childbearing age and Aboriginal and Torres Strait Islander peoples living in outbreak areas. You may see patients presenting at your clinic who require testing and treatment.

Jurisdictional notification requirements

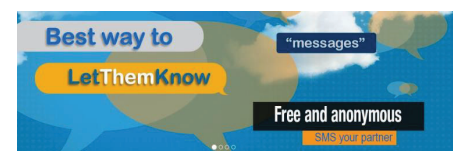
<https://syphilisoutbreaktraining.com.au/notification/>

Contact tracing

Better to know <https://www.bettertoknow.org.au/>

Let them know <https://letthemknow.org.au/>

The drama down under <https://www.thedramadownunder.info/>



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RACGP resources

[RACGP Red Book](#)

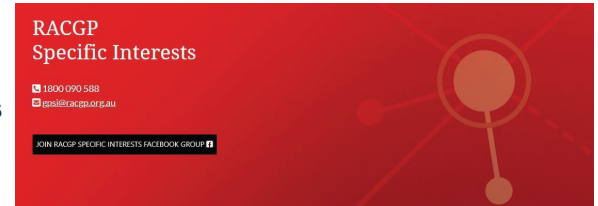
[RACGP Sexual Health Medicine Specific Interest Group](#)

GPSI@racgp.org.au

<https://www.racgp.org.au/the-racgp/faculties/specific-interests>



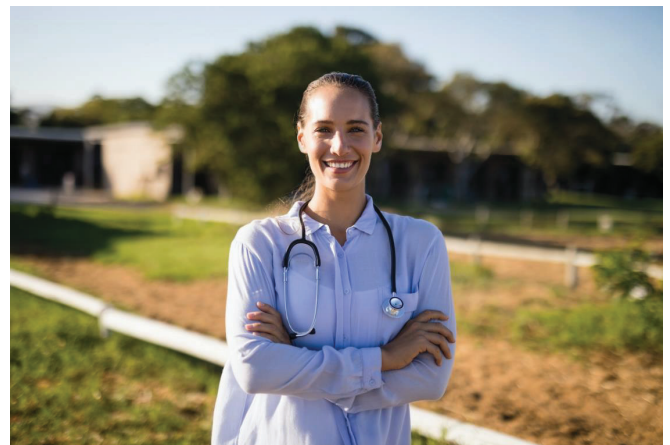
Guidelines for preventive activities in general practice
9th edition



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Overview –key messages

- Syphilis is back and is no longer a rare STI
- Consider Syphilis in all sexually active patients
- A routine STI check includes a test for Syphilis
- Take a sexual history for all patients at least annually
- Syphilis is easy to treat with antibiotics and cure if found early
 - ✓ Penicillin saves lives
 - ✓ Penicillin treats the unborn baby



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Overview – key messages

- For genital ulcers/lesions don't just think herpes test for Syphilis too
- Test all pregnant women at least once and more if at risk
- Pregnant + Syphilis = urgent referral/advice
- Congenital syphilis can be lethal and is preventable
- Include a sexual health check up as part of an annual women's/men's general check up
- culturally appropriate care, health literacy, destigmatise testing and treatment and address patient fear, anxiety, discomfort and pain



It has never been more important for GPs to detect
and treat Syphilis
Thank you

