Epidemic syphilis exhibits diverse manifestations

There are recent reports of a sustained increase in the incidence of syphilis around the world, including in the Australian cities of Sydney and Melbourne.^{1,2}

In Queensland, there has been both an increase in the number of notifications (Figure 1) and also a change in the epidemiology of the disease. While syphilis was previously predominantly seen in indigenous men and women, it now mostly occurs in nonindigenous men who have sex with other men (Figure 2) - although per capita, indigenous Queenslanders remain overrepresented. Efforts to improve screening and treatment have shortened the time from diagnosis to treatment and appear to have been successful in reducing the rates of disease in remote indigenous populations.³ These efforts have included the establishment of a state wide syphilis register and active encouragement to remote practitioners to offer testing to patients aged 15-39 years as a part of the annual adult health check. Adoption of single dose azithromycin for syndromic treatment of urethritis and cervicitis and their contacts albeit at a

Table 1. Prese

256

256

128

128

64

Patient

Α

В

С

D

Е

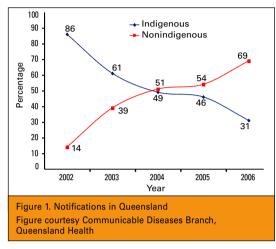
F G H I J K L M N

0

Ρ

Q

R



dose of only 1 g, may be having an impact as well.³

The authors have seen a range of presentations of active syphilis in our Brisbane health services over the past 12 months (*Table 1*). This contrasts to a previous local report where, despite energetic searching in an urban setting, only two early cases were seen over a 5 year period.⁴

cervicitis and their contacts, albeit at a year period.4		
entations of active syphilis over 12 months		
Rapid plasma reagin	HIV infected	Symptoms
64	Y	Rash, fever
64	Y	Rash
64	Y	Partial third nerve palsy
256	Y	Uveitis, tinnitus, alopecia, penile ulcer
128	Ν	Rash, Bell's palsy
512	Y	Panuveitis
128	Ν	Mucous patch, sore throat
16	Y	Asymptomatic
128	Ν	Third nerve palsy
128	Y	Rash, fever
128	Y	Asymptomatic
64	Ν	Uveitis, retinitis
64	Y	Mucous patch, sore throat

Lancinating leg pains

Rash, fever

Concurrent rash and chancre

Rash, lancinating leg pains

Oral mucous patch, sore throat, rash

Υ

Y

Y

Y

Y



CLINICAL PRACTICE



Andrew M Redmond

MBBS, is a registrar, Department of Microbiology, Princess Alexandra Hospital, Brisbane, Queensland. andrew_redmond@health.qld. gov.au

Craig M Dancer

MBBS, is a registrar, Microbiology and Infectious Diseases, Institute of Medical and Veterinary Science, Adelaide, South Australia.

Andrew R Doolan

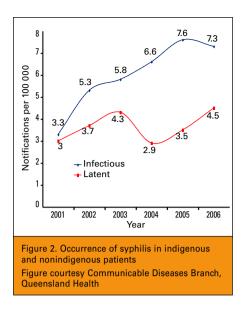
MBBS, is an intern, Department of Medicine, Royal Brisbane and Women's Hospital, Queensland.

Diane F Rowling

MBBS, FAFPHM, is Senior Medical Officer, Sexual Health and AIDS Service, Prince Charles Hospital Health Service District, Brisbane, Queensland.

Marion L Woods

MPH, FRACP, FACP, FAFPHM, is Senior Staff Specialist Infectious Diseases and Associate Professor of Medicine, Royal Brisbane and Women's Hospital, Queensland.



It is noteworthy that the worldwide resurgence of syphilis is reaching into smaller centres such as ours. A number of our patients have reported likely transmission by unprotected oral intercourse, which may be



Figure 3. Primary chancre on breast Image courtesy Brisbane Sexual Health and AIDS Service



Figure 4. Primary chancre on penis Image courtesy Brisbane Sexual Health and AIDS Service



Figure 5. Primary chancre on lip Image courtesy Brisbane Sexual Health and AIDS Service



Image courtesy Infectious Diseases Unit, Royal Brisbane and Women's Hospital

perceived as a lower risk sexual practice in the era of HIV/AIDS. The rising incidence of HIV and gonorrhoea^{5,6} suggests that adherence to safer sex practices may be diminishing.

Testament both to the fact that syphilis has been uncommon for some time in urban settings and that its manifestations are so diverse, a number of our cases had been seen by several health professionals before the diagnosis was entertained, including a hospital admission in one case.

We would like to remind readers of the value of taking a sexual history, of being aware of the changing epidemiology of this previously waning but now waxing disease, of regular screening for sexually transmitted infections in those at risk, irrespective of practice location, and to be aware of the range of clinical presentations of syphilis (*Figure 3–6*).

Conflict of interest: none declared.

References

1. Jin F, Prestage GP, Kippax SC, et al. Epidemic syphilis among homosexually active men in Sydney. Med J Aust 2005;183:179-83.

- Guy RJ, Leslie DE, Simpson K, et al. Sustained increase in infectious syphilis notifications in Victoria. Med J Aust 2005;183:218.
- Fagan P, Cannon F. Short report: surveillance summary. Syphilis in remote North Queensland. Commun Dis Intell 2007;31:125–7.
- Debattista J, Dwyer J, Anderson R, et al. Screening for syphilis among men who have sex with men in various clinical settings. Sex Transm Infect 2004;80:505–8.
- National Centre in HIV Epidemiology and Clinical Research, The University of NSW; Australian Institute of Health and Welfare, Canberra, ACT. HIV/AIDS, viral hepatitis and sexually transmissible infections in Australia. Annual surveillance report 2006. NSW: The University of New South Wales, 2006. Report No.: 1442–8784.
- Communicable Diseases Network Australia. National notifiable diseases surveillance system. Canberra: Australian Department of Health and Ageing, Communicable Diseases Branch, 2007.