

Perspectives

Legislate for patient-delivered partner therapy for chlamydia

Patient-delivered partner therapy requires legislative support to improve control of sexually transmitted infections

Genital *Chlamydia trachomatis* is Australia's most common reportable communicable infection. Despite considerable investment in screening programs, the National Notifiable Diseases Surveillance System reports notification rates steadily rising for more than a decade, from 87.2 per 100 000 in 2000, to 358.9 per 100 000 in 2012.

Effective control requires timely and appropriate antibiotic treatment of patients with confirmed infection as well as their sexual partners. However, in Australia, only a minority of partners currently receive treatment. If Australia is to reduce chlamydia prevalence, new effective approaches need to be incorporated into clinical care to ensure optimal testing and treatment of sexual partners. One potentially effective option in some cases, patient-delivered partner therapy (PDPT), is not specifically supported by legislation in most Australian states and territories.

PDPT, where the index patient with a sexually transmitted infection (STI) is given antibiotics to deliver to sexual partners, has been legalised in most states in the United States. While some clinicians do prescribe PDPT in Australia, in most Australian states PDPT is clearly illegal or its legal status is ambiguous. PDPT with single dose azithromycin is a safe and effective method of treating sexual partners of people with chlamydia and improves disclosure to partners. A meta-analysis of five published studies of PDPT showed reduced persistent or recurrent chlamydia or gonorrhoea infections (summary risk ratio of five trials, 0.73; 95% CI, 0.57–0.93).¹

In Australia, specific PDPT guidelines are endorsed by the Australasian Chapter of Sexual Health Medicine (AChSHM), a Chapter of the Royal Australasian College of Physicians, and the Australasian Society for Infectious Diseases.²

In 2006 the US Centers for Disease Control and Prevention (CDC) recommended PDPT as an option for ensuring treatment of sex partners. PDPT was initially legally permissible in only a minority of states, but many states have since changed or clarified their laws and it is now explicitly legally permissible in 33 US states.³ In Australia, only the Northern Territory has changed legislation to enable prescription of PDPT for chlamydia (*Medicines, Poisons and Therapeutic Goods Act 2012* [NT]) and implementation is pending drafting of regulations.

Legal status is the main barrier to implementing PDPT. Other concerns include acceptability within general practice, the risk of adverse reactions, and lack

of opportunity to diagnose and manage complications of chlamydia or other STIs in partners receiving PDPT, a particular concern with men who have sex with men. In addition, partners who take PDPT without a clinical consultation may not be aware of the need to contact their other sexual partners. Consequently, the guidelines include an information sheet for sexual partners highlighting the need for a clinical consultation (particularly if there are symptoms), follow-up testing for reinfection in 3 months and the importance of contacting other sexual partners. The risks of missing other STIs in partners and their contacts are reduced if the intervention is confined to heterosexual people in the urban Australian context, who uncommonly have other STIs.⁴

Azithromycin is a safe and well tolerated antibiotic (pregnancy category B1). Although significant adverse reactions are rare, an observational cohort study in Tennessee, US, showed a small increase in cardiovascular deaths in patients taking a 5-day course of azithromycin compared with another antibiotic, the risk being most pronounced among patients with a high baseline risk of cardiovascular disease. Subsequently, the study design and conclusions were challenged and contrasted with the prior findings of six placebo-controlled trials of azithromycin in high-risk cardiovascular patients, in which there was no increase in mortality.⁵ A recent nationwide Danish cohort study including over 1 million episodes of azithromycin use found no increased risk of death in patients taking azithromycin compared with penicillin.⁶ No serious adverse effects have been reported from azithromycin associated with PDPT trials or subsequent surveillance in the US.³

The AChSHM and the CDC recommend PDPT because the benefits outweigh the risks. In the face of rising chlamydia prevalence, and no currently effective control strategy, we ask those Australian jurisdictions not actively planning to expressly endorse PDPT through laws permitting implementation of a proven effective strategy to do so as a matter of urgency.

Sarah E Huffam
FACHSHM, MPH&TM, FRACP,
Sexual Health Physician,¹ and
Infectious Diseases Physician²

Katherine M Brown
MBBS, MSc, FACHSHM,
Specialist in Sexual Health
Medicine³

Marcus Y Chen
FRCP, FACHSHM, PhD,
Sexual Health Physician,¹ and
Clinical Associate Professor⁴

Christopher K Fairley
FRACP, PhD,
Professor of Sexual Health,⁴
and Director¹

¹Melbourne Sexual Health
Centre, Alfred Health,
Melbourne, VIC.

²Royal Darwin Hospital,
Darwin, NT.

³Sydney Medical School,
University of Sydney,
Sydney, NSW.

⁴Melbourne School of
Population and
Global Health,
University of Melbourne,
Melbourne, VIC.

shuffam@mshc.org.au

doi: 10.5694/mja13.10651

Competing interests: No relevant disclosures.

Provenance: Not commissioned; externally peer reviewed.

- Trelle S, Shang A, Nartey L, et al. Improved effectiveness of partner notification for patients with sexually transmitted infections: systematic review. *BMJ* 2007; 334: 354.
- Royal Australasian College of Physicians. Guidelines for patient delivered partner therapy (PDPT) for uncomplicated genital infection caused by *Chlamydia trachomatis*. <http://www.racp.edu.au/page/australasian-chapter-of-sexual-health-medicine> (accessed Aug 2013).
- Hogben M, Kidd S, Bursstein GR. Expedited partner therapy for sexually transmitted infections. *Curr Opin Obstet Gynecol* 2012; 24: 299-304.
- McNulty A, Teh MF, Freedman E. Patient delivered partner therapy for chlamydial infection—what would be missed? *Sex Transm Dis* 2008; 35: 834-836.
- Stratov I, Denholm J, Kent SJ. Azithromycin: more lethal than chloramphenicol? *Sex Health* 2013; 10: 179-182.
- Svanström H, Pasternak B, Hviid A. Use of azithromycin and death from cardiovascular causes. *N Engl J Med* 2013; 368: 1704-1712.