www.iustiap18.com

www.iustiap18.com

IUSTI Asia Pacific Sexual Health Congress 2018

Men who have sex with men with *Mycoplasma genitalium*-positive nongonococcal urethritis are more likely to have macrolide resistant strains than men with only female partners: a prospective study

McIver R¹, Jalocon D², McNulty A^{1,3}, Jeoffreys NJ², Chen SC-A², Power M⁴, Couldwell DL^{4,5}

¹ Sydney Sexual Health Centre, Sydney, New South Wales, Australia

²Centre for Infectious Diseases and Microbiology Laboratory Services, ICPMR, NSW Health Pathology, Westmead, Australia

³School of Public Health and Community Medicine, University of New South Wales, Sydney, Australia

⁴Western Sydney Sexual Health Centre, Parramatta, New South Wales, Australia

⁵Marie Bashir Institute for Infectious Diseases and Biosecurity, University of Sydney, Australia

Acknowledgements: the study participants

Disclosures: none

Join the Conversation @ASHMMEDIA #IUSTIAP18

BACKGROUND/AIMS & METHODS:

Background: Mycoplasma genitalium urethritis was previously thought to be more common in men with only female partners (MSW) compared to men who have sex with men (MSM). Antimicrobial resistant M. genitalium is now a major problem.

Importance: Current infection and resistance prevalence data is needed to inform testing and treatment guidelines.

Aim: To determine the prevalence of *M. genitalium* and macrolide resistance in men with urethritis and investigate associations with infection and resistance.

Study: 589 men with acute nongonococcal urethritis (NGU) were consecutively enrolled at two sexual health clinics in Sydney, Australia between April 2017 and May 2018.

Study assessments: First void urine for M. genitalium infection and macrolide resistance associated mutations plus routine STI tests.

Join the Conversation @ASHMMEDIA #IUSTIAP18

RESULTS:

Prevalence

	n	%	OR	95%CI	p-value
M. genitalium infection					
MSM	39/306	12.8	1.0	0.6-1.6	0.99
MSW	36/282	12.8			
Macrolide resistance					
MSM	35/39	89.7	8.8	2.2-34.4	<0.01
MSW	18/36	50.0			

Associations with M. genitalium infection

- Higher number of male sexual partners (OR 1.7, 95%Cl 1.2-2.4, p=<0.01)
- · Not significant: age, condom use, sex of partners, HIV status, PrEP use, chlamydia or gonorrhoea treatment in the last 12 months

Associations with macrolide resistance

- Age ≥ 30 years (OR 6.9, 95% CI 1.8-25.8, p=<0.01)
- Male sexual partners (OR 8.75, 95% Cl 2.2-34.4, p=<0.01)
- 100% condom use (OR 0.3, 95% CI 0.1-1.1, p=0.05)
- Not significant: number of partners, HIV status, PrEP use, chlamydia or gonorrhea treatment in the last 12 months

Join the Conversation @ASHMMEDIA #IUSTIAP18

CONCLUSIONS/IMPLICATIONS:

Main findings:

- We found no difference in the prevalence of *M. genitalium* between MSW and MSM
- · Most MSM had macrolide resistant infections
- Macrolide resistance was associated with increasing age, male sexual partners and condomless sex

Implications:

- NGU is an indication for M. genitalium testing
- · Conserve the use of azithromycin in NGU and STI treatment
- M. genitalium treatment should be guided by real-time resistance testing
- Expand monitoring and surveillance of resistance data

www.iustiap18.com

www.iustiap18.com