

PRESUMPTIVE TREATMENT FOR CHLAMYDIA AND GONORRHOEA IN REMOTE ABORIGINAL HEALTH SERVICES

<u>Smith KS</u>, Causer LM, Watchirs Smith L, Saha A, Andrewartha K, Walley B, Shephard M, Wand H, Richards JN, Badman SG, Tangey A, Marshall-Lang R, and Guy R, on behalf of the TTANGO2 collaboration

Australasian Sexual Health Conference 16-18 September 2019



Background

2

- STI notification rates are highest among Indigenous people living in remote communities in Australia¹
- 1 in 2 adolescents diagnosed with CT, NG or TV²
- 1 in 5 people diagnosed with an STI remain untreated³
- Treatment can be delayed by weeks²
- PID hospitalisations among Indigenous women are twice that of non-Indigenous women⁴
- Majority of cases asymptomatic



1. HIV, STI and BBV Annual surveillance report. 2017 Kirby Institute; 2. Guy R et al. Sex Transm Infect 2015

TTANGO (Test, Treat and Go) 2013-2015

- Cross-over, cluster-randomised controlled trial⁵
- POC testing (GeneXpert) for CT/NG versus lab testing
- 12 remote primary health services across 3 Australian states
- Funded by NHMRC







TTANGO2 2016-2020

- Programmatic expansion
- POC testing for CT/NG +TV or lab testing
- >30 remote primary health services across 4 states/ territories
- Funded by NHMRC, Australian Government, WA and QLD Health







How POC integrated into the clinical pathway





How POC integrated into the clinical pathway





Rationale/ aims

- Presumptive treatment results in unnecessary antibiotic use
- azithromycin, amoxicillin and probenecid (ZAP pack) or ceftriaxone and azithromycin
- Concerns about antimicrobial resistance
 - Mycoplasma genitalium
 - 60-80% azithromycin resistance in urban areas^{6,7}
- Could POC be used instead of presumptive treatment?
- What is the STI positivity in those presumptively treated?



Methods

- TTANGO2 study
- 2016 2018
- Pre and post POC data
- 11 sites (WA, SA, NT)
- Aged <u>>16 years</u>
- Presumptive treatment = treatment same day as CT/NG specimen collection
- CT/NG positivity in those treated presumptively
- Stratified by age, sex, pre-post TTANGO2



Study population





CT/NG positivity among those presumptively treated, by gender





CT/NG positivity among those presumptively treated, by age group



Age group proportions, p<0.01



CT/NG positivity among those presumptively treated, pre and post POC



Pre vs post POC proportions, p<0.01



Summary

 In those treated presumptively, about half CT/NG negative

- Greater proportion negative:
 - Women
 - Aged ≥35 years
 - Before POC available



Limitations

 Captured treatments recorded in the prescription field only

 Reason for presumptive treatment was not available

 Not generalisable to all remote communities



Conclusions

- Presumptive treatment remains appropriate, except ≥35 yr olds?
- Presumptive treatment more selective when POC available as CT/NG positivity higher in those presumptively treated?
- To replace presumptive treatment with POC would require careful assessment of benefits vs risks
 - Prevalence of MG and AMR
 - Loss to follow up



Acknowledgements

- Participating health services & staff
- Departments of Health WA, QLD, SA, NT
- West Australian Country Health Service
- Aboriginal Health Council of Western Australia
- Queensland Aboriginal and Islander Health Council
- Aboriginal Health Council of South Australia
- Aboriginal Medical Services Alliance of Northern Territory
- Kimberley Aboriginal Medical Services
 Council
- Kirby Institute, University of NSW
- Flinders University
- South Australian Health and Medical Research Institute

- TTANGO2 Executive and Leaders' Groups
- PathWest
- Western Diagnostics Pathology
- Clinipath Pathology
- Pathology Queensland
- Apunipima Cape York Health Council
- Kimberley Aboriginal Medical Services
- Ngaanyatjarra Health Service
- Burnet Institute
- Royal Women's Hospital, Melbourne
- University of Queensland
- Monash University
- National Serology Reference Laboratory
- Medical Communication Associates
- Cepheid

TTANGO2 is funded through a National Health and Medical Research Council Partnership Grant, the Australian Government Department of Health, WA Health and QLD Health