

# Alotau, Milne Bay, Papua New Guinea

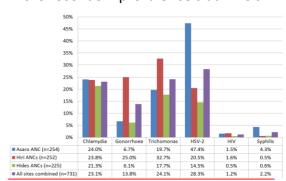


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# Background: STIs among pregnant women in PNG

Author	Klufio et al, 1995	Mgone et al, 1997	Suarkia et al, 1999
Study population	206 pregnant women attending first antenatal clinic visit at Port Moresby General Hospital	155 women presenting in labour to Goroka Base Hospital	581 women presenting in labour to Goroka Base Hospital
Bacterial vaginosis	23.3 (17.7, 29.7)	-	-
C. trachomatis	17.7 (12.4, 24.0)	36.8 (29.2, 44.9)	34.1 (30.2, 38.1)
N. gonorrhoeae	-	-	-
T. pallidum	-	-	-
T. vaginalis	18.9 (13.8, 25.0)	-	-
HIV	-	-	-
HSV-2	-	-	-

# More recent STI prevalence's at ANC's.



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# Laboratory-based STI testing strategy



#### Alternative?

Point-of-care STI testing & treatment pilot study

#### **Benefits:**

- · Quick and accurate results
- Same day treatment
- Same day contact tracing
- Reduced travel/time cost for patients
- Reduction in patient recall events
- Improved clinical effectiveness and impact on burden of disease



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# Aim of antenatal POC Pilot Study

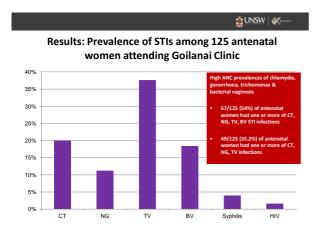
 Evaluate the overall operational feasibility of pointof-care antenatal STI testing and treatment for the first time in PNG.

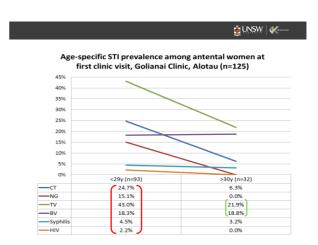
#### In particular;

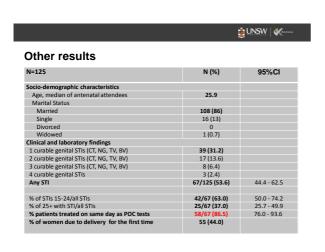
- Broadly assess attendee receptiveness to this new point of care testing approach.
- Identify clinical spaces and workflow needed to operate point of care testing successfully.
- With instruction, determine if self collected samples proved acceptable and reliable.
- Identify if same day results and treatment were possible for attendee's.

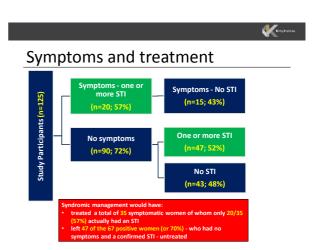
# Methods

- This antenatal site chosen based on attendance rates.
- Women aged 18-35 selected based on known STI prevalence
- Attendees still had routine antenatal examinations
- Tests implemented were GeneXpert CT, NG, TV & BV Blue rapid test
- · Syphilis and HIV rapid testing still done as routine
- · Patients then managed based on POC test results.
- Consecutive sampling framework used from Aug to Nov 2014 until study numbers reached











# **Conclusions:**

- · Prevalence of STI's at this clinic remain high for antenatal women (like other parts of PNG).
- Many women (44%) had not delivered before.
- 70% of women with an STI were asymptomatic.
- · POC approach can provide an important alternative to syndromic management and reduce unnecessary Rx.
- Attendee's and staff were enthusiastic about POC testing and same day treatment.
- · Immediate treatment was possible for the vast majority (86.5%) of women with adequate resourcing.

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#### **Next Steps:**

Implement large field trial to evaluate the impact of point-of-care STI diagnosis and treatment to reduce adverse pregnancy outcomes.

#### Design:

- · Randomised cluster controlled trial
- Involving 4200 women attending antenatal clinics
- At 12 sites across Papua New Guinea
- Start 2016 (over 4 years)

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# **Acknowledgments**

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Thankyou