

Emerging STI testing...

Test 129 ***Mycoplasma genitalium*** by Real Time PCR (Reflex to antibiotic resistance by Molecular Analysis)

- Involved in 15% to 30% of non-chlamydial, non-gonococcal urethritis & cervicitis
- Infections are often asymptomatic
- Associated with pelvic inflammatory disease, infertility, preterm labor and endometritis ^{1,2}
- Infection is more widespread than *Neisseria gonorrhoeae*

Antibiotic resistance is on the Rise!

- Macrolide resistance (azithromycin), which highly correlates with treatment failure, ranges from **44%** to **90%** in the United States, Canada, Western Europe, and Australia.
- MDL's internal monitoring of over 5,000 *M. genitalium* positive specimens reports 32 with azithromycin resistance.
- The CDC states that ideally, *Mycoplasma genitalium* azithromycin resistance testing should be performed and used to guide therapy.

Percent Positive STI Pathogen qPCR Tests by Age Group

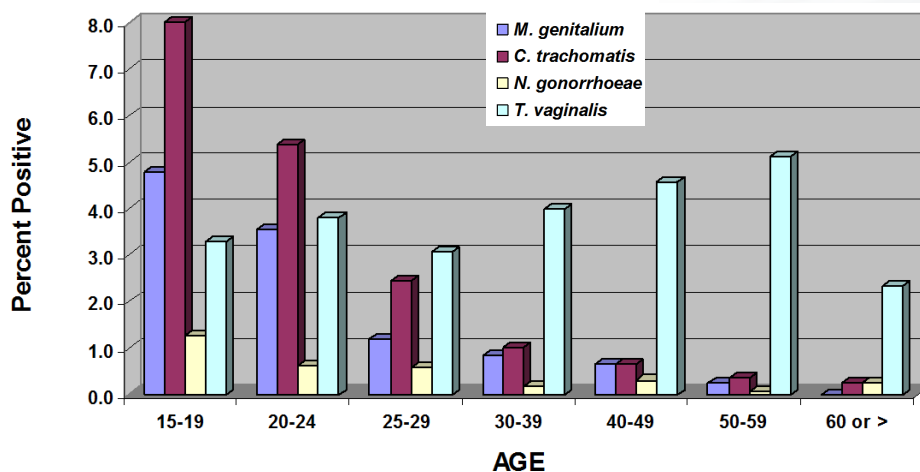


Figure 1: Positivity rate of *Mycoplasma genitalium*, *Chlamydia trachomatis*, *Neisseria gonorrhoeae* and *Trichomonas vaginalis* in patient specimens, differentiated by age group. *Mycoplasma genitalium* n=5,698. *Chlamydia trachomatis* n=33,790. *Neisseria gonorrhoeae* n=33,425. *Trichomonas vaginalis* n=26,741. MDL internal data.

- Available exclusively from MDL
- Resistance testing by genetic marker detection
- Reflex testing at **no additional charge**



For Women:
Cervical Collection
Urine Collection
Endometrial Collection



For Men:
Non-invasive urine collection



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PATIENT

MDL #

13364148

FINAL

DOE, JANE
555 MAIN ROAD
ANYTOWN, NJ 12345-6789
DOB: 11/30/1998 (Age 25)
Gender: Female
Ethnicity: Not provided
Patient ID: 82100
Home #: 123-456-7890



SPECIMEN

| Type | Source | Collected | Received | Reported |
|------|--------|------------|------------|------------|
| Swab | Vag | 04/15/2024 | 04/16/2024 | 04/19/2024 |



CLIENT

NPI: 0987654321

DOE FAMILY PRACTICE
JOHN DOE, MD
1234 FIRST AVENUE

Tel: (555) 555-1234
Fax: 555-555-1235

ANYTOWN, NJ 12345-6789



Pathogens Detected

**129 *Mycoplasma genitalium* (Reflex to
antibiotic resistance by Molecular
Analysis) ***

POSITIVE

*Unable to sequence


Medical Director, Jing-Jing Yang, M.D.

MDL#: **13364148**

05/20/2024

References

- Centers for Disease Control and Prevention, 2015 Sexually Transmitted Diseases Treatment Guidelines, *MMWR* 64(3): 1-138.
- McGowin CL, Anderson-Smiths C. 2011. *Mycoplasma genitalium*: An Emerging Cause of Sexually Transmitted Disease in Women. 7(5):e1001324.
- Twin J, Jensen JS, Bradshaw CS, et al. 2012. Transmission and selection of macrolide resistant *Mycoplasma genitalium* infections detected by rapid high resolution melt analysis. *PLoS One* 7:e35593.
- Tagg KA, Jeoffreys NJ, Couldwell DL, et al. 2013. Fluoroquinolone and Macrolide Resistance-Associated Mutations in *Mycoplasma genitalium*. *J Clin Microbiol* 51(7): 2245-2249.
- Bissessor M, Tabrizi SN, Twin J, et al. 2015. Macrolide Resistance and Azithromycin Failure in a *Mycoplasma genitalium*-Infected Cohort and Response of Azithromycin Failures to Alternative Antibiotic Regimens. *Clin Infect Dis* 2015:60, 1228-36.