

ResistancePlus® MG FleXible*

Improve patient management.
Test for macrolide resistance.

The Facts

- *Mycoplasma genitalium* (*M. genitalium*) presents clinically with symptoms similar to *Chlamydia trachomatis*.¹
- Globally, macrolide resistance mediating mutations have been observed in 20–80% of cases.^{2-5,17}
- Anorectal infection is common with a high percentage harbouring macrolide resistance putting men who have sex with men (MSM) at a higher risk.⁶⁻⁷
- Individuals who are HIV positive or diagnosed with bacterial vaginosis (BV) have higher incidence of macrolide resistant *M. genitalium*.⁸⁻⁹
- Evidence suggests *M. genitalium* is an important factor in spontaneous abortion and preterm birth.¹⁰
- International and local guidelines advise treating *M. genitalium* infections according to their macrolide resistance status.^{11-14,18} [Termed, Resistance Guided Therapy (RGT)]



Macrolide resistance in
Germany **53%** | Spain **35%**
France **42%** | UK **74%**
Denmark **57%** ^{2-5,15,17,19}



75.6% of *M. genitalium* anorectal
infections harbouring macrolide
resistance^{6,7}



40% cure rate
of *M. genitalium*
without RGT¹⁶



95% cure rate of
M. genitalium with RGT¹⁶

ResistancePlus® MG FleXible

Resistance Guided Therapy (RGT) for improved patient outcomes

ResistancePlus® MG FleXible offers simultaneous detection and identification of *Mycoplasma genitalium* and azithromycin (macrolide) resistance from symptomatic and asymptomatic patients with the following specimen types: male and female urine, and vaginal, cervical, rectal, and urethral swabs.

It enables treatment of patients via RGT, recommended by International and European treatment guidelines.^{11-14,18} RGT has been clinically proven to improve cure rates in populations with high macrolide resistance.¹⁶



Turnaround Time

M. genitalium +
resistance status obtained
in around 2 hours



Clinical Performance

M. genitalium detection
Sensitivity **100%** | Specificity **96.3%**
Resistance markers
Sensitivity **92.9%** | Specificity **100%**



* Manufactured by SpeeDx under Cepheid's FleXible Cartridge Program. Exclusively distributed by Cepheid. SpeeDx and ResistancePlus are trademarks of SpeeDx Pty. Ltd. Cepheid, the Cepheid logo, and GeneXpert are trademarks of Cepheid, registered in the U.S. and other countries.

CE-IVD. In Vitro Diagnostic Medical Device. Not available in all countries. Not available in the United States.

Your Needs

Identify



Determine a patient's *M. genitalium* and macrolide (azithromycin) resistance status

Our Answers

Syndromic management of *M. genitalium* is challenging. It has demonstrated high levels of resistance to macrolides (azithromycin).¹⁰

Treating solely based on *M. genitalium* status may result in treatment failure, leading to the ongoing transmission in the population.¹⁰

ResistancePlus® MG FleXible enables you to simultaneously identify a patient's *M. genitalium* and macrolide resistance status, reducing both treatment failure and patient's time to cure.¹⁶

Decide



Easy access to macrolide resistance data

Having both *M. genitalium* and macrolide resistance data available within 2 hours, enables personalized treatment based on your patient's macrolide resistance status, and eliminates the need to send samples away for additional testing.

Macrolide resistance testing is recommended by international and local guidelines.^{11-14,18}

Prescribe



Administer macrolide antibiotics only to susceptible patients

Benefits of macrolide resistance testing with **ResistancePlus®** MG FleXible:

- **Improve antimicrobial stewardship.** Prevent over-treatment and prescribe macrolides when most appropriate, preserving quinolones and last line antibiotics for the most pertinent cases.
- **Meet International, European, and local guidelines** which recommend knowing the resistance status of positive *M. genitalium* samples prior to treatment.^{11-14,18}
- **Easily implement Resistance Guided Therapy (RGT).** RGT has been demonstrated to clinically improve patient cure rate and overall patient management.¹⁶



Statements in favour of RGT for treatment of *Mycoplasma genitalium*

International Union against Sexually Transmitted Infections (IUSTI)

European guideline on *Mycoplasma genitalium* infections 2021.¹¹

British Association for Sexual Health and HIV (BASHH)

Guideline for the diagnosis and management of *Mycoplasma genitalium* in people aged 16 years and older.¹²

French Haute Autorité de Santé (HAS) evaluation report 2022

Sexually transmitted infections: significant increase in *Mycoplasma* resistance to antibiotics (macrolides).¹³

Health Service Executive (HSE) Sexual Health and Crisis Pregnancy Programme

Guidance on *Mycoplasma genitalium* testing and management in Ireland.¹⁴

- 1 Manhart LE and Kay N. *Mycoplasma genitalium*: Is It a Sexually Transmitted Pathogen? *Curr. Infect. Dis. Reps.* 2010; 12(4):306-313. Available at: <https://pubmed.ncbi.nlm.nih.gov/21308546/>
- 2 Jensen et al. Management of *Mycoplasma genitalium* infections – can we hit a moving target? *BMC Infect. Dis.* 2015; 15 :343
- 3 Fernández-Huerta et al. Prevalence of *Mycoplasma genitalium* and macrolide resistance among asymptomatic people visiting a point of care service for rapid STI screening. 2020 Jun;96(4):300-305. doi: 10.1136/sxtrns-2019-054124. Available at: <https://www.ncbi.nlm.nih.gov/pubmed/31451540>
- 4 Deborde et al. High prevalence of *Mycoplasma genitalium* infection and macrolide resistance in patients enrolled in HIV pre-exposure prophylaxis program. 2019 Aug;49(5):347-349. doi: 10.1016/j.medmal.2019.03.007. Available at: <https://www.ncbi.nlm.nih.gov/pubmed/30914213>
- 5 Dumke et al. Prevalence of macrolide- and fluoroquinolone-resistant *Mycoplasma genitalium* strains in clinical specimens from men who have sex with men of two sexually transmitted infection practices in Berlin, Germany. 019 Sep;18:118-121. doi: 10.1016/j.jgar.2019.06.015. Available at: <https://www.ncbi.nlm.nih.gov/pubmed/31252154>
- 6 Alarcón et al. Acceptability and effectiveness of using mobile applications to promote HIV and other STI testing among men who have sex with men in Barcelona, Spain. 2018 Sep;94(6):443-448. doi: 10.1136/sxtrns-2017-053348. Available at: <https://pubmed.ncbi.nlm.nih.gov/29626174/>
- 7 Soni et al. The prevalence of urethral and rectal *Mycoplasma genitalium* and its associations in men who have sex with men attending a genitourinary medicine clinic. 2010 Feb;86(1):21-4. doi: 10.1136/sti.2009.038190. Available at: <https://pubmed.ncbi.nlm.nih.gov/19843536/>
- 8 Nye et al. Prevalence of *Mycoplasma genitalium* infection in women with bacterial vaginosis. 2020 Mar 26;20(1):62. doi: 10.1186/s12905-020-00926-6. Available at: <https://pubmed.ncbi.nlm.nih.gov/32216785/>
- 9 Ducours et al. Incidence of sexually transmitted infections during pre-exposure prophylaxis for HIV: a worrying outcome at 2 years! 2019 Nov;95(7):552. doi: 10.1136/sxtrns-2019-054070. Available at: <https://pubmed.ncbi.nlm.nih.gov/31628265/>

- 10 Manhart et al. Efficacy of Antimicrobial Therapy for *Mycoplasma genitalium* Infections. 2015 Dec 15;61 Suppl 8:S802-17. doi: 10.1093/cid/civ785. Available at: <https://pubmed.ncbi.nlm.nih.gov/26602619/>
- 11 Jensen J et al, 2021 European guideline on the management of *Mycoplasma genitalium* infections. *J Eur Acad Dermatol Venereol.* 2022 May;36(5):641-650.
- 12 2018 BASHH UK national guideline for the management of infection with *Mycoplasma genitalium*. Available at: <https://www.bashhguidelines.org/media/1198/mg-2018.pdf>
- 13 HAS (Haute Autorité de Santé) evaluation report available at https://www.has-sante.fr/jcms/p_3356494/fr/diagnostic-biologique-des-mycoplasmes-urogenitaux-dans-les-infections-genitales-basses-rapport-d-evaluation
- 14 Health Service Executive (HSE) Sexual Health and Crisis Pregnancy Programme. Guidance on *Mycoplasma genitalium* testing and management in Ireland. Available at: <https://www.sexualwellbeing.ie/for-professionals/research/research-reports/irish-guidance-on-m-gen-testing-and-management-january-2020.pdf>
- 15 Dumke et al. Emergence of *Mycoplasma genitalium* strains showing mutations associated with macrolide and fluoroquinolone resistance in the region Dresden, Germany. 2016 Oct;86(2):221-3. doi: 10.1016/j.diagmicrobio.2016.07.005. Available at: <https://pubmed.ncbi.nlm.nih.gov/27448452/>
- 16 Read et al. Outcomes of Resistance-guided Sequential Treatment of *Mycoplasma genitalium* Infections: A Prospective Evaluation. 2019 Feb 1;68(4):554-560. doi: 10.1093/cid/ciy477. Available at: <https://pubmed.ncbi.nlm.nih.gov/29873691/>
- 17 Machelek et al. *Lancet Infect Dis.* 2020 Nov;20(11):1302-1314
- 18 Centers for Disease Control and Prevention STI Treatment Guidelines, 2021 *Mycoplasma genitalium*. Available online at: <https://www.cdc.gov/std/treatment-guidelines/mycoplasma-genitalium.htm>
- 19 Pereyre et al. *Sex Transm Infect.* 2023 Jun;99(4):254-260.

* Manufactured by SpeeDx under Cepheid's FleXible Cartridge Program. Exclusively distributed by Cepheid. SpeeDx and ResistancePlus are trademarks of SpeeDx Pty. Ltd. Cepheid, the Cepheid logo, and GeneXpert are trademarks of Cepheid, registered in the U.S. and other countries.

CE-IVD. *In Vitro* Diagnostic Medical Device. Not available in all countries. Not available in the United States.

CORPORATE HEADQUARTERS

904 Caribbean Drive
Sunnyvale, CA 94089 USA

TOLL FREE +1.888.336.2743
PHONE +1.408.541.4191
FAX +1.408.541.4192

EUROPEAN HEADQUARTERS

Vira Soleh
81470 Maurens-Scopont France

PHONE +33.563.82.53.00
FAX +33.563.82.53.01
EMAIL cepheid@cepheideurope.fr

www.Cepheidinternational.com

© 2024 Cepheid. 1544-02

