



### Microorganism

- Trichomonas vaginalis, an anaerobic flagellated protozoan parasite
- Exclusively human pathogen
- Trichomoniasis is the most common non-viral sexually transmitted infection (STI) in the world
- T. vaginalis is highly sensitive to desiccation and temperature variations  $\rightarrow$  the sample must be transported quickly and at room temperature to the laboratory.
- T. vaginalis infection may increase the risk of HIV transmission

# Transmission

Contamination occurs exclusively through sexual contact.

### Incubation

• The incubation period is **poorly defined**, ranging from a few days to 4 weeks.

## **Clinical presentation**

Women	Asymptomatic infection in approximately 25% of cases
	<ul> <li>Symptomatic presentations: vaginitis         <ul> <li>Profuse, frothy, malodorous yellowish or greenish vaginal discharge</li> <li>+/- vulvar and/or vaginal pruritus</li> <li>+/- dyspareunia or dysuria</li> </ul> </li> <li>Possible complications:</li> </ul>
	<ul> <li>Infertility</li> <li>Miscarriage</li> <li>Premature birth</li> <li>Neonatal hypotrophy</li> </ul>
Men	<ul> <li>Asymptomatic infection in more than 50% of cases</li> <li>Symptomatic presentation: urethritis or balanitis, often with mild symptoms</li> </ul>

#### Diagnosis

Gender	Samples	Methods
Ŷ	<ul> <li>Vaginal swab</li> </ul>	• Direct examination (wet mount microscopy)
	<ul> <li>Vaginal self-sampling</li> </ul>	<ul> <li>Immunochromatographic test</li> </ul>
5	• First-void urine	• Nucleic acid amplification test (NAAT), e.g.
	<ul> <li>Urethral discharge collection</li> </ul>	PCR, TMA (not reimbursed)

 $\rightarrow$  A comprehensive assessment for bacterial and viral STIs is strongly recommended, including testing for HIV, hepatitis B, syphilis, Chlamydia, gonorrhea, etc.

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# Treatment

• Treatment is based on antimicrobials from the imidazole family, administered as follows:

	• Metronidazole PO 500mg twice daily $\rightarrow$ 7 days
1st line	• If compliance is a concern, a single-dose oral treatment may be considered:
	metronidazole 2 g or secnidazole 2 g
2nd line	• Repeat treatment with oral metronidazole 500mg twice daily $ ightarrow$ 7 days
3rd line	• Seek specialist opinion to assess for potential resistance to azoles or non-
	compliance

• In case of azoles allergy, the treatment is local:

Azole	• Boric acid ovule 600mg twice daily $ ightarrow$ 7 days
allergy	• Paromomycin intravaginal cream (6.25%) twice daily $\rightarrow$ for 7 days (off-label use)

• In case of suspected azoles resistance, after specialist consultation, consider the following strategies:

Azole	<ul> <li>Metronidazole PO 1g twice daily → 7 days</li> <li>Tinidazole PO 2 to 3 g daily → for 7 days</li> </ul>
	• Tinidazole ovule 500 mg twice daily $\rightarrow$ for 7 days
resistance	• Boric acid ovule 600mg twice daily $\rightarrow$ for 7 days
	• Paromomycin intravaginal cream (6.25%) twice daily $ ightarrow$ 7 days (off-label use)

<sup>a</sup> require compounding, as commercial preparations may not be available

- Systematic treatment of sexual partners is recommended, regardless of their test results.
- Additional measures
  - o Avoid alcohol consumption during azole treatment due to the risk of a disulfiram-like reaction (antabuse effect)
  - Sexual abstinence is advised until the completion of treatment for both the patient and their partner

## Follow-up

- Healing is assessed on the improvement of symptoms.
- Microbiological testing of cure is not routinely recommended.

#### Prevention

- Prevention strategies are similar to those for other STIs and are part of a combined prevention approach:
  - Risk reduction counseling,
  - Uses of protective equipment such as condoms...
  - Vaccinations against STIs as recommended (hepatitis A, hepatitis B, papillomavirus)
  - o Other prevention measures such as HIV pre-exposure prophylaxis (PreP) and screening for bacterial and viral STIs
- There is no specific screening recommendation for *T. vaginalis* infection to date.

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