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West of Scotland Guideline

Approved May 2023

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TRICHOMONAS VAGINALIS

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What's New:

Recommended treatment is 7 day course of metronidazole. Stat dose has a higher rate of treatment failure.

Introduction

Trichomonas vaginalis (TV) is a flagellated protozoan that is a parasite of the genital tract.

Due to site specificity, infection almost always follows direct inoculation of the organism (intravaginal or intraurethral) and is thus almost exclusively sexually transmitted.

Note: there are other species of Trichomonas which are not sexually transmitted, eg, Trichomonas Faecalis, so it is therefore important to clarify this with the testing laboratory if further differentiation is required.

In adult female cases ure thral infection is present in 90% of episodes, although the urinary tract is the sole site of infection in <5% cases.

In men infection is usually of the urethra.

The most obvious host response to infection is a local increase in polymorphs.

Infection is associated with an increased risk of HIV transmission.

There is a spontaneous cure rate in the order of 20/25%.

TV should be managed in local specialist sexual health services or in consultation with.

This guidance is aimed primarily at people aged 16years or older.

Females - Symptoms (10-50% asymptomatic)

Vaginal discharge Itch Dysuria Burning Occasionally lower abdominal discomfort or vulval ulceration

Females – Signs (5-15% *nil abnormal* on examination)

Erythema – vaginitis and vulvitis Discharge – in up to 70%. The classical frothy yellow discharge is seen in 10-30% of females. Odour 2% "strawberry" cervix visible to the naked eye

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<u>Males - Symptoms (15-50% asymptomatic;</u> Often present as contacts of infected female partners)

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Urethral discharge Dysuria Frequency

Males – Signs

Urethral discharge Rarely balanoposthitis

Diagnosis

It is important to check with your local laboratory if they have facilities for culture of TV and how to request this is done. Some laboratories will do microscopy alone for TV.

Females – Investigations

- <u>Vaginal pH</u> Use a swab/loop to collect discharge from the lateral vaginal wall and put it on narrow range pH paper (range 3.8-5.5). TV is associated with an elevated vaginal pH of > 4.5
- **IMMEDIATE microscopy** (where available) Sensitivity 45-60%
 - Wet mount preparation (normal saline) from posterior vaginal fornix
 - o Read within 10 minutes of collection motility decreases with time
 - o Direct observation of trichomonas
- Where IMMEDIATE microscopy is not available:
 - <u>T</u>he diagnosis may be made provisionally if there is profuse frothy discharge, vaginitis and a raised pH
- <u>HVS (from posterior fornix) should arrive in the lab within 6 hours</u>
- <u>Culture of TV</u> Specific culture media will diagnose up to 95% cases
- <u>**Point of care tests**</u> are available. False positives may occur especially in populations of low prevalence consider confirming positives in this situation
- Nucleic acid amplification tests (NAATS) are available for diagnosis of TV. These offer the highest sensitivity. These should be the test of choice where resources allow
- Offer full STI testing

NB: Be aware that TV diagnosed on Liquid based cytology may have a false positive rate. If TV-like organisms are reported via SCCRS, a letter is generated via the results service requesting the woman to attend to confirm infection prior to any treatment and/or partner notification.

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