Breaking Down Barriers to STI Testing & Treatment

Osom
Trichomonas Rapid Test

101
Million cases of Chlamydia

248
Million cases of Trichomonas

88
Million cases of Gonorrhea

11
Million cases of Syphilis

448
Million new curable STIs each year¹
WHAT THE EXPERTS ARE SAYING

"Syndromic management according to the vaginal discharge algorithm would lead to substantial under-diagnosis and over-treatment of Trichomonas vaginalis."

"Increased vaginal and endocervical inflammation in women and urethral inflammation in men with Trichomoniasis likely contributes to enhanced HIV transmission."

"Wet mount alone is insufficient for the reliable diagnosis of TV infection in women."

WHAT THE EXPERTS ARE SAYING

"Non-viral sexually transmitted infection. It is a motile parasite, approximately the size of a white blood cell, and is estimated to cause 20% of vaginitis complaints. Historically thought of as a nuisance infection, it can have serious health implications and has been largely under diagnosed and under treated."

TRICHOMONAS VAGINALIS is estimated to be the most common, curable, non-viral sexually transmitted infection. It is a motile parasite, approximately the size of a white blood cell, and is estimated to cause 20% of vaginitis complaints. Historically thought of as a nuisance infection, it can have serious health implications and has been largely under diagnosed and under treated.

WHAT THE EXPERTS ARE SAYING

"Theability of the OSOM® Trichomonas Rapid Test to accurately, quickly and cost effectively detect Trichomonas offers significant benefits to the patient and clinician alike:"

• Begin immediate and proper treatment
• Avoid misuse of unnecessary antibiotics
• Provide opportunity for appropriate sexual health education during the visit
• Help prevent further spread of Trichomonas and reduce associated health risks

WHY IS POINT-OF-CARE ANTIGEN TESTING IMPORTANT?

"Rapid antigen testing is equivalent to culture, and it compares favorably with NAAT." In the same study, when using NAAT as the reference standard, the sensitivity and specificity were 100% and 99.6% for the OSOM® test when compared to culture. In a recent independent study, the sensivity and specificity were 100% and 99.6% for the OSOM® test when compared to culture.

"OSOM® Trichomonas Rapid Test Procedure"
WHAT THE EXPERTS ARE SAYING

“Syndromic management according to the vaginal discharge algorithm would lead to substantial under-diagnosis and over-treatment of Trichomonas vaginalis.”

“Trichomoniasis: Under diagnosed and under treated?”

DIAGNOSTIC CHALLENGES

There are a number of diagnostic options available. However, choices may have to be made in terms of:

**ACCURACY**

- Patient receives correct diagnosis

**TIME**

- Patient receives correct diagnosis in a timely manner

**COST**

- Diagnosis obtained cost-effectively and affordably

**METHOD**

- Features

**MICROSCOPY**

- Accuracy varies widely (30-75%), and is impacted by factors such as subjectivity, training, microscope condition and sample collection/handling
- Requires observation of live, motile organisms; 20% of trichomonads are reported to lose motility within 10 minutes of sample collection
- Requires PPMP regulation compliance

**CULTURE**

- Long been considered the gold standard
- Provides greater accuracy than microscopy
- Labor intensive; can take days for results

**MOLECULAR (NAAT/TMA)**

- Highly accurate results
- Expensive in terms of equipment and cost per test; requires specialized training
- Does not allow for test-and-treat approach

**POINTER-CARE/ANTIGEN**

- **OSOM® Trichomonas Rapid Test**
  - 30 sec. of hands-on time, results in 10 min. overall
  - Accuracy 86.7%, overall agreement 98.3%
  - Combined reference method (culture and microscopy)
  - No equipment or specialized training required
  - CLIA waived; easy-to-read, objective results
  - 30 sec. of hands-on time, results in 10 min. or less

- **Rapid Test Procedure**
  - Patient 1 min.
  - Prevent further spread of Trichomonas
  - Cost effectively and accurately detect Trichomonas
  - Detects antigen; does not require live, motile organisms

WHY IS POINT-OF-CARE ANTIGEN TESTING IMPORTANT?

- **OSOM® Trichomonas Rapid Test**
  - Detects antigen; does not require live, motile organisms
  - Cost effectively and accurately detect Trichomonas
  - Detects antigen; does not require live, motile organisms

OSOM® Trichomonas Rapid Test Procedure

1. Insert swab into extraction sample
2. Let stand 1 min.
3. Remove excess fluid
4. Add sample to test tube
5. Result in 10 min.

OSOM® Trichomonas Rapid Test Kit

- **Conform**
  - **Catalog #**

<table>
<thead>
<tr>
<th>Test</th>
<th>Description</th>
<th>CATALOG #</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>OSOM® TRICHOMEAS RAPID TEST KIT</td>
<td>181</td>
</tr>
<tr>
<td>10</td>
<td>OSOM® TRICHOMEAS POSITIVE CONTROL KIT</td>
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</tr>
<tr>
<td>10</td>
<td>OSOM® DIAGNOSTIC SWAB TRANSPORT SYSTEM</td>
<td>183</td>
</tr>
</tbody>
</table>

In a recent independent study, the sensitivity and specificity were 100% and 99.6% for the OSOM® test when compared to culture.

In the same study, when using NAAT as the reference standard, the sensitivity was 95.5%.!

The ability of the OSOM® Rapid Test to accurately, quickly and cost effectively detect Trichomonas offers significant benefits to the patient and clinician alike:

- **Accuracy**
  - Reduces the number of unnecessary antibiotics
  - Provides opportunity for appropriate sexual health education during the visit
  - Helps prevent further spread of Trichomonas and reduce associated health risks

In the last 10 years, 50% of women with low income receive the care they need and 25% receive no care at all.

WHAT THE EXPERTS ARE SAYING

“Wet mount alone is insufficient for the reliable diagnosis of TV infection in women.”

“Increased vaginal and endocervical inflammation in women and urethral inflammation in men with Trichomoniasis likely contributed to enhanced HIV transmission.”

“Artemether-lumefantrine is being used worldwide to treat Plasmodium falciparum malaria, and in some countries it is a first-line treatment.”

“Increased vaginal and endocervical inflammation in women and urethral inflammation in men with Trichomoniasis likely contributed to enhanced HIV transmission.”
WHAT THE EXPERTS ARE SAYING

**TRICHOMONAS VAGINALIS** is estimated to be the most common, curable, non-viral sexually transmitted infection. It is a motile parasite, approximately the size of a white blood cell, and is estimated to cause 20% of vaginitis complaints. Historically thought of as a nuisance infection, it can have serious health implications and has been largely under diagnosed and under treated.

**WHAT THE EXPERTS ARE SAYING**

- **Syndromic management according to the vaginal discharge algorithm would lead to substantial under-diagnosis and over-treatment of Trichomonas vaginalis.**
- **Increased vaginal and endocervical inflammation in women and urethral inflammation in men with Trichomoniasis likely contributes to enhanced HIV transmission.**
- **Wet mount alone is insufficient for the reliable diagnosis of TV infection in women.**
- **The decreased hands-on-time of performing the OSOM® test significantly decreased the amount of labor devoted to microscopy. The projected labor savings can be utilized to perform other laboratory procedures.**

**WHY IS POINT-OF-CARE ANTIGEN TESTING IMPORTANT?**

**RESULTS WHILE THE PATIENT WAITS—A PATH TO BETTER PATIENT CARE**

In a recent independent study, the sensitivity and specificity were 100% and 99.6% for the OSOM® test when compared to culture. In the same study, when using NAAT as the reference standard, the sensitivity was 95.5%.

**OSOM® Trichomonas Rapid Test Procedure**

- Add sample to test tube
- Let stand 1 min.
- Insert test stick into extraction sample test tube

**OSOM® Trichomonas Rapid Test Kit**

- 25 tests
- 181

**OSOM® Trichomonas Positive Control Kit**

- 10 swabs
- 182 (CE Marked)

**OSOM® Trichomonas Rapid Test Kit**

- 25 tests
- 181

**OSOM® Trichomonas Vaginitis Swab Transport System**

- 50 swab sets
- 185

**OSOM® Trichomonas Rapid Test Kit**

- 25 tests
- 181

**OSOM® Trichomonas Positive Control Kit**

- 10 swabs
- 182 (CE Marked)

**OSOM® Trichomonas Rapid Test Kit**

- 25 tests
- 181

**OSOM® Trichomonas Positive Control Kit**

- 10 swabs
- 182 (CE Marked)

**OSOM® Trichomonas Vaginitis Swab Transport System**

- 50 swab sets
- 185

**WHAT THE EXPERTS ARE SAYING**

- **"Syndromic management according to the vaginal discharge algorithm would lead to substantial under-diagnosis and over-treatment of Trichomonas vaginalis."**
- **"Increased vaginal and endocervical inflammation in women and urethral inflammation in men with Trichomoniasis likely contributes to enhanced HIV transmission."**
HEALTH, SOCIAL AND ECONOMIC COSTS: TRICHOMONAS INFECTION, EACH OF WHICH CARRIES SIGNIFICANT

THERE ARE A NUMBER OF COMPLICATIONS ASSOCIATED WITH A TRICHOMONAS INFECTION, EACH OF WHICH CARRIES SIGNIFICANT HEALTH, SOCIAL AND ECONOMIC COSTS:

- PRETERM LABOR & BIRTH
- INFERTILITY
- PELVIC INFLAMMATORY DISEASE
- CERVICAL CANCER
- PROSTATE CANCER IN MEN

REFERENCES

1. Prevalence and Incidence of Selected Sexually Transmitted Infections, World Health Organization 2011


9. Wendel KA. "Trichomoniasis: What’s New?" Current Infectious Disease Reports 2003; 5; 129-34


ONLINE TRAINING

View a simple animation of the test procedure, take a quiz, and print your personalized training certificate online, anytime.

To get started, visit www.osomtraining.com.
Trichomonas infection, each of which carries significant health, social and economic costs. There are a number of complications associated with a Trichomonas infection, each of which carries significant health, social and economic costs. These include:

- **Preterm labor & birth**
- **Infertility**
- **Pelvic inflammatory disease**
- **Increased risk of HIV/HSV**
- **Prostate cancer in men**

### References

1. Prevalence and Incidence of Selected Sexually Transmitted Infections, World Health Organization 2011

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**OSOM® CUSTOM CARE**

Highly trained Technical Service Specialists, all medical technologists with clinical laboratory backgrounds, are available to assist you with:

- Concerns or questions about any of our products
- Assay use, adoption and staff training
- Record keeping, regulations, and reimbursement
- Evaluation of new methods: remote or onsite assay verification program
- Refresher training
- Validating a new test
- New operators
- Validation of new methods: remote or onsite assay verification program

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**OSOM®**

**TRICHOMONAS RAPID TEST**

Breaking Down Barriers to STI Testing & Treatment

- **101** million cases of Chlamydia
- **248** million cases of Gonorrhea
- **88** million cases of Syphilis
- **448** million new curable STIs each year

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