

TRAINING UPDATE

Lab Location: GEC, SGAH & WAH **Date Distributed:** 5/31/2012 **Department:** Microbiology **Due Date:** 6/30/2012

DESCRIPTION OF PROCEDURE REVISION

Name of procedure: Wet Prep GEC.M05.003, SGAH.M23.003, WAH.M23.003 Description of change(s):

Section 10.1

- 1. Report the presence or absence of *Trichomonas*, yeast and clue cells.
- 2. Do not report spermatozoa.

Section	Reason
10.1	Deleted hyphae, deleted redundant report comments

EMPLOYEE SIGNATURES

I have read and understand the procedure described above:

Name	Signature	Date
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Employee signatures are not necessary. Document your compliance with this training update by taking the quiz in the MTS system.

Approved draft for training all sites (version 003)

Technical SOP

Title	Wet Prep		
Prepared by	Ron Master	Date:	8/25/2009
Owner	Ron Master	Date:	8/25/2009

Laboratory Approval	Local Effective Date:	
Print Name and Title Refer to the electronic signature	Signature	Date
page for approval and approval dates.		
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Annual Review		
Print Name	Signature	Date

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1. TEST INFORMATION

Assay	Method/Instrument	Local Code
Wet Prep	N/A	WETP

Synonyms/Abbreviations	
N/A	

Department	
Microbiology	

Title: Wet Prep

Quest Diagnostics Nichols Institute Title: Wet Prep Site: GEC, SGAH & WAH

2. ANALYTICAL PRINCIPLE

Yeast and Trichomonas sp. can be found in urine or vaginal discharges. Trichomonas move by a progressive undulating, whipping of flagella and pseudopodial movement. Outside the body Trichomonas rapidly succumbs at temperatures higher than 40°C; therefore it is imperative to examine specimens requested for *Trichomonas* immediately upon arrival in the Laboratory. Yeast and clue cells can also be detected from vaginal discharge.

3. SPECIMEN REQUIREMENTS

3.1 **Patient Preparation**

Component	Special Notations
Fasting/Special Diets	N/A
Specimen Collection and/or Timing	Specimen should be obtained on a swab and submitted in a tube containing 0.5 mL saline (0.9% sodium chloride). A red top vacutainer tube (without additives) may be used. Deliver to Laboratory immediately.
Special Collection Procedures	N/A
Other	N/A

3.2 **Specimen Type & Handling**

Criteria		
Type -Preferred	Vaginal discharges.	
-Other Acceptable	None	
Collection Container	Swab in tube containing 0.5 mL saline or a red-top	
	vacutainer (without additives)	
Volume - Optimum	0.5mL	
- Minimum	0.5mL	
Transport Container and	Collection container at room temperature	
Temperature		
Stability & Storage	Room Temperature: Do not let stand, test immediately.	
Requirements	Refrigerated: Unacceptable	
	Frozen: Unacceptable	
Timing Considerations	ations Process immediately.	
Unacceptable Specimens	Dry swab. Call and request another sample	
& Actions to Take		
Compromising Physical	N/A	
Characteristics		
Other Considerations	N/A	

4. REAGENTS

N/A

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5. CALIBRATORS/STANDARDS

N/A

6. QUALITY CONTROL

6.1 Controls Used

N/A

6.2 Control Preparations and Storage

N/A

6.3 Frequency

N/A

6.4 Tolerance Limits and Corrective Action Policy

N/A

6.5 Review Patient Data

N/A

6.5 Documentation

N/A

6.7 Quality Assurance Program

N/A

7. EQUIPMENT and SUPPLIES

7.1 Assay Platform

N/A

7.2 Equipment

Microscope

7.3 Supplies

Sterile transfer pipette

Paper towels

Glass slide

Coverslip

Gloves

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8. PROCEDURE

NOTE: For all procedures involving specimens, buttoned lab coats, gloves, and face protection is required minimum personal protective equipment. Report all accidents to your supervisor.

8.1	Action
1.	Check order and verify patient name in the LIS matches name on specimen.
2.	Place a drop or two of the specimen on a slide using a plastic transfer pipette.
3.	Gently place a coverslip over the surface of the material on the slide.
4.	Examine with low (10x objective) and high dry (40x objective) power objectives.
5.	Enter results in computer utilizing Microbiology Result Entry.

9. CALCULATIONS

N/A

10. REPORTING RESULTS AND REPEAT CRITERIA

10.1 Interpretation of Reporting of Results

Report the presence or absence of *Trichomonas*, yeast and clue cells.

DO NOT REPORT SPERMATOZOA.

11. EXPECTED VALUES

11.1 Reference Ranges

N/A

11.2 Critical Values

None established

11.3 Priority 3 Limit(s)

None established

12. CLINICAL SIGNIFICANCE

Trichomonas vaginalis is a parasite that is distinguished by its rapid movement and flagella. Motile *Trichomonas* trophozoites may be identified in a vaginal sample by its characteristic structure.

Bacterial vaginosis is the most common type of vaginal infection and can sometimes be detected by the presence of "clue cells". Clue cells are epithelial cells entirely covered with bacteria giving them a "furlike" appearance. If the organisms sticking to the edges or on top of the cell, without extending past the cytoplasmic margins, a diagnosis of clue cells cannot

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be made. Note: Certain anaerobic, non-pathogenic, species tend to adhere to the epithelial surface.

Yeast vaginitis is primarily caused by *Candida albicans*, although other *Candida* species are becoming increasingly important as disease agents. *Candida albicans*, in low numbers, is considered part of the normal vaginal flora, but may proliferate to cause an infection.

13. PROCEDURE NOTES

- FDA Status: LDT without message
 Validated Test Modifications: None
- 1. Examine wet preparation immediately as motility disappears rather rapidly (within 35-40 minutes) making it impossible to detect the parasite in wet preparations.
- 2. *Trichomonas vaginalis* can also be observed on Gram stain of the specific discharge or sedimented urine. Here the *Trichomonas* appear larger than the polymorphonucleated white cells, but smaller than epithelial cells. *Trichomonas* cytoplasm is typically foamy in appearance; the parasite stains slightly pink, demonstrating its typical pear to oval or any shape. The elliptical nucleus is clearly visible as it stains darker than the cytoplasm of the organism. Flagella are sometimes visible but not always.

14. LIMITATIONS OF METHOD

14.1 Analytical Measurement Range (AMR)

N/A

14.2 Precision

N/A

14.3 Interfering Substances

N/A

14.4 Clinical Sensitivity/Specificity/Predictive Values

N/A

15. SAFETY

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You, the employee, have direct responsibility to avoid injury and illness at work. Nearly all-harmful exposures to infectious substances and chemicals, and other injuries, can be avoided with effective training and consistent safe work practices.

Become familiar with the Safety Manual to learn the requirements on working safely and protecting the environment from harm. Although lab work typically focuses on the hazards of working with specimens and chemicals, we must also control other important hazards.

• Slips, trips, and falls cause many serious injuries. Please ensure that spills are cleaned quickly (to avoid slippery floors) and that you can see and avoid obstacles in your path.

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- Ergonomic injuries result from performing tasks with too much repetition, force, or awkward position. Ergonomic injuries include strains and back injuries. Learn about ergonomic hazards and how to prevent this type of injury.
- Scratches, lacerations, and needle sticks can result in serious health consequences. Attempt to find ways to eliminate your risk when working with sharp materials.
- Warnings of other specific hazards are noted in this procedure. Please comply with the requirements to reduce your risk of injury."

Report all accidents and injuries to your supervisor or the Safety Officer.

16. RELATED DOCUMENTS

Resulting Microbiology Direct Exams, Microbiology procedure

17. REFERENCES

- Baron, Ellen Jo, Sydney Finegold, Bailey and Scott's Diagnostic Microbiology, C.V. Mosby Co., St. Louis, .2002.
- P.C. Beaver, R.C. Jung, E.W. Cupp. *Clinical Parasitology*, 9th Edition, p. 49-51, Lee and Febiger Publishers, Philadelphia, PA, 1984.
- Henry, J.B, Clinical Diagnosis and Management by Laboratory methods, 19th ed., W. B. Saunders Company, Philadelphia, 1996

18. REVISION HISTORY

Version	Date	Section	Reason	Reviser	Approval
			Supersedes SOP M010.002		
000	10/12/09	8.1	LIS update to GUI system	A. Sears	R. Master
000	10/12/09	16	Added procedure for resulting	L. Barrett	R. Master
001	10/4/2011	3.2	Deleted sources other than vaginal	R. Master	R. Master
002	5/16/2012		Deleted hyphae, deleted redundant report comments	R. Master	R. Master

19. ADDENDA

None