

## MRSAMICROBIOLOGY LAB – AL WAKRA SPECIMEN GUIDELINES

### Critical value (CRIV) in Microbiology

Microbiology Test	Critical Result (Record the time of Identification)
Gram Stain	Positive result from: <ul style="list-style-type: none"><li>• Blood cultures</li><li>• Fluids / Tissues and Aspirates from sterile body sites</li></ul>
Bacterial Antigen Test	Positive result from CSF
Cryptococcal Antigen. Not done in Al-Wakra	Positive result from CSF. Sent to HGH for processing

### STAT LIST:

- CSF
- sterile body fluids & Pericardial fluid.
- Eye specimens from cases of corneal abscesses, corneal scrapings & endophthalmitis
- Eye swab from neonates up to 28 days old. (ophthalmia neonatorum)
- GBS PCR

### For Collection guideline

- [CLINICAL MICROBIOLOGY SPECIMEN COLLECTION GUIDE](#)

**Other tests performed in other laboratory sections related to Microbiology**

Test name	Laboratory	Sample
Anti-Pneumococcus Capsular Polysaccharide	Immunology Laboratory	5ml clotted blood specimen (plain red top or gel tube).
Anti- Haemophilus Influenzae Type B	Immunology Laboratory	5ml clotted blood specimen (plain red top or gel tube).
Anti- Tetanus Toxoid	Immunology Laboratory	5ml clotted blood specimen (plain red top or gel tube).
Anti- Diphtheria Toxin	Immunology Laboratory	5ml clotted blood specimen (plain red top or gel tube).
Allergen, Mould mix2 mx2 Test name in Cerner ( <i>Penicillium chrysogenum, Cladosporium herbarum, Aspergillus fumigatus, Candida albicans, Alternaria alternata, Setomelanomma rostrata</i> )	Immunology Laboratory	5ml clotted blood specimen (plain red top or gel tube).
Allergen, Mould mix4 mx4 ( <i>A. fumigatus, A. niger, A. terreus, A. flavus</i> )	Immunology Laboratory	5ml clotted blood specimen (plain red top or gel tube).
Allergen, <i>Aspergillus fumigatus</i> , m3	Immunology Laboratory	5ml clotted blood specimen (plain red top or gel tube).
Entamoeba Histolytica Antibody)	Virology Laboratory	5ml clotted blood specimen (plain red top or gel tube).
Brucella Antibodies	Virology Laboratory	5ml clotted blood specimen (plain red top or gel tube).
Brucella IgM/IgG Abs	Virology Laboratory	5ml clotted blood specimen (plain red top or gel tube).
Echinococcus Antibody	Virology Laboratory	5ml clotted blood specimen (plain red top or gel tube).
Leishmania Antibody	Virology Laboratory	5ml clotted blood specimen (plain red top or gel tube).
Schistosoma Antibody	Virology Laboratory	5ml clotted blood specimen (plain red top or gel tube).

Contact details:

Immunology Laboratory: 44398857 / 5338

Virology Laboratory- Serology section: 44395119/5115

**Abscesses and aspirates for bacterial culture**

ITEM	PROCESS
<b>Specimen</b>	<ul style="list-style-type: none"> <li>• Pus aspirates send in sterile leak proof in a sealed plastic bag with biohazard label.</li> <li>• Pus aspirate is always superior to a swab specimen.</li> <li>• Specify anatomic Site</li> <li>• If pus aspirate cannot be sent; Swab in Amies transport medium can be used. Swab should be soaked in pus</li> </ul>
<b>Transport Temperature</b>	≤2 hrs. at Room Temperature
<b>Days test is performed</b>	Daily.
<b>Turnaround time</b>	<p><b>STAT Microscopy:</b> 30 min from Time Of Detection for samples from sterile site.</p> <p><b>Routine Microscopy:</b> 24- 48</p> <p><b>Culture:</b> 48-72hrs</p>
<b>Method</b>	<p><b>Microscopy:</b> Gram stain</p> <p><b>Culture:</b> Aerobic and Anaerobic.</p>
<b>Reference Value</b>	<p><b>Microscopy:</b> No WBC's, No organisms seen</p> <p><b>Culture:</b> No growth; presence of skin flora / normal flora</p>
<b>Interpretation</b>	<p><b>Microscopy:</b> Semi-quantitative report of WBC's, types of bacteria, fungi seen.</p> <p>All STAT Gram stains called to physician, if positive.</p> <p><b>Culture:</b> For significant isolates, susceptibility testing is performed.</p>
<b>Rejection Criteria</b>	<ul style="list-style-type: none"> <li>• Dry swab</li> <li>• Aspirate received in syringe with needle attached.</li> </ul>
<b>Performing Lab Location</b>	AWH Microbiology Laboratory Ext. # 40114189 / 4190

## Abscesses and aspirates for AFB culture

ITEM	PROCESS
Specimen	<ul style="list-style-type: none"> <li>• Pus aspirate sent in sterile leak proof without fixative</li> <li>• Pus aspirate is always superior to a swab specimen.</li> </ul> <p><b>Specify anatomic Site</b></p>
Transport Temperature	≤2 hours at Room Temperature
Days test is performed	Daily
Turnaround time	<p><b>Microscopy:</b> For positive smear- one hour after detection time.</p> <p><b>Culture:</b> 42 days; when culture becomes positive the preliminary report is released within 24 hours of detection time.</p>
Method	<p><b>Microscopy:</b> Auramine O and Ziehl-Neelsen</p> <p><b>Culture:</b> BACTEC MGIT</p>
Reference Value	<p><b>Microscopy:</b> No AFB seen.</p> <p><b>Culture:</b> No growth / Culture contaminated / Unable to get pure culture / Fail to survive.</p>
Interpretation	<p><b>Microscopy:</b> Average number of AFB / 100 fields</p> <p><b>Culture:</b> Growth of MTB complex with susceptibility to primary drugs SIRE or Growth of MOTT</p>
Rejection Criteria	-
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 6671 / 6675

## Abscesses and aspirates for fungal culture

ITEM	PROCESS
Specimen	<ul style="list-style-type: none"> <li>• Pus aspirates send in sterile leak proof without fixative</li> <li>• Pus aspirate is always superior to a swab specimen.</li> </ul> <b>Specify anatomic Site</b>
Transport Temperature	≤2 hours at Room Temperature
Days test is performed	Daily
Turnaround time	<b>Microscopy:</b> 24 hours; when smear is positive one hour after detection time. <b>Culture:</b> up to 21 days; when culture becomes positive the preliminary report is released within 24 hours of detection time.
Method	<b>Microscopy:</b> Blankophor P Fluorescent. <b>Culture:</b> Aerobic condition: 37°C and 25°C.
Reference Value	<b>Microscopy:</b> No Fungal elements seen. <b>Culture:</b> No fungus isolated
Interpretation	<b>Microscopy:</b> Yeast like-cells, Yeast cells or fungal elements seen. <b>Culture:</b> Significant fungus isolates reported along with susceptibility results (for Candida only) when appropriate.  Significant fungal pathogens will be phoned to physicians
Rejection Criteria	-
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038

**Abscesses and aspirates for ova and parasite**

ITEM	PROCESS
Specimen	Minimum 0.5 ml of aspirate in sterile, leak proof container <b>Specify anatomic Site</b>
Transport Temperature	≤15 min at Room Temperature
Days test is performed	Daily (Sun – Fri)
Turnaround time	<b>Microscopy:</b> 24 hours
Method	<b>Microscopy:</b> Wet mount, concentration, permanent stain
Reference Value	No ova or parasites seen
Interpretation	Ova or parasites seen
Rejection Criteria	-
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038 / 1047/ 1647

## Air Sampling culture (Environmental)

ITEM	PROCESS
<b>Specimen</b>	<p>Air sample using Samplair Lite Machine or by settle plates.</p> <p>Prior approval of specimen collection with Infection Control and Microbiology lab is a must.</p> <p>Air Sampling culture is performed from operation theaters and high-risk areas (Hematology/ Oncology and bone marrow transplant unit).</p>
<b>Transport Temperature</b>	≤2 hours Room Temperature
<b>Days test is performed</b>	Sunday to Thursday - (only in the morning after arrangement with Infection Control and Microbiology lab)
<b>Turnaround time</b>	<b>Culture:</b> 48 hours for bacterial culture. 5 days for fungal culture
<b>Method</b>	<b>Culture:</b> Aerobic
<b>Reference Value</b>	<b>Culture:</b> No growth.
<b>Interpretation</b>	<p><b>Culture:</b> Air sampling culture positive results (colony count, CFU) are reported to Infection Control Practitioners.</p> <p>Culture is performed as per Infection Control Policies.</p>
<b>Rejection Criteria</b>	<ol style="list-style-type: none"> <li>1. Samples not sent in coordination with Infection Control Practitioners.</li> <li>2. Duplicate specimens within 48hrs.</li> <li>3. Improperly filled request form.</li> <li>4. Unlabeled mislabeled or mismatched specimen.</li> </ol>
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 40256068/44392038)

Anal / rectal swab, scotch tape for ova and parasites

ITEM	PROCESS
Specimen	<ul style="list-style-type: none"><li>• Tape fixed on a glass slide and transported as soon as possible</li><li>• Rectal Swab in a transport medium</li></ul>
Transport Temperature	≤ 2 hours at Room Temperature
Days test is performed	Sunday-Thursday / 7am – 3pm
Turnaround time	<b>Microscopy:</b> 24 hours
Method	<b>Microscopy:</b> Wet mount
Reference Value	No ova or parasites seen
Interpretation	<i>E. vermicularis</i> ova seen
Rejection Criteria	-
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038 / 1047/ 1647



### **Aspergillus Galactomannan Antigen Test**

<b>ITEM</b>	<b>PROCESS</b>
<b>Specimen</b>	5-7 ml of blood in sterile, plain (red top) or gel activator (yellow) tube BAL 10ml in sterile container
<b>Transport Temperature</b>	< 2 hours at room temperature
<b>Days test is performed</b>	Every Wednesday
<b>Turnaround time</b>	8 hours
<b>Method</b>	Enzyme Immuno-Assay (EIA)
<b>Reference Value</b>	Negative
<b>Interpretation</b>	Positive
<b>Rejection Criteria</b>	-
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 40256068/44392038)

**Blood culture- aerobic and anaerobic / pediatric**

ITEM	PROCESS
<p><b>Specimen</b></p>	<p><b>Adult-</b></p> <p>Obtain 20 mL of blood per culture. (One culture set consists of one bottle of aerobic culture medium and one bottle of anaerobic culture medium or two aerobic bottles)</p> <p>If less than 20 mL but more than 10 ml is obtained for the first set of bottles, divide the blood evenly into the aerobic and anaerobic bottle.</p> <p>If less than 10 mL is obtained for the second set of bottles, inject the entire volume into one bottle.</p> <p><b>Pediatric patients-</b></p> <p>Weight &lt; 30 Kg; obtain as much blood as practical (1-4 mL minimum) and use pediatric culture system.</p> <p>For pediatric patients of weight &gt; 30 Kg and or age of &gt; 12 yrs., recommended volume are 10 mL and inoculate in to aerobic bottle.</p> <p><b>Specify venipuncture / anatomic site / Central line</b>  <b>Note: Endocarditis-</b> 2 to 3 sets in a 24 hrs.</p>
<p><b>Transport Temperature</b></p>	<p>≤ 2 hrs. At Room Temperature. <b>Do not refrigerate</b></p>
<p><b>Days test is performed</b></p>	<p>Daily</p>
<p><b>Turnaround time</b></p>	<p><b>Microscopy:</b>30 min from Time Of Detection.  <b>Culture: Preliminary report:</b> at 24 &amp; at 48 hrs.  <b>Positive:</b> 24- 48 hours (after positive blood culture)  <b>Final Negative:</b> 5 days</p>
<p><b>Method</b></p>	<p>Blood cultures incubated in automated blood culture system- BacT/ALERT.</p> <p><b>For positive culture:</b>  <b>Microscopy:</b> Gram stain  <b>Identification:</b> MALDI-TOF and PCR (send to HGH Microbiology for rapid identification) &amp; Routine VITEK (AW Microbiology)  <b>Culture:</b> Aerobic and Anaerobic bacterial culture</p>
<p><b>Reference Value</b></p>	<p>Negative after 5 days.</p>
<p><b>Interpretation</b></p>	<p><b>Microscopy:</b> All organisms reported  All Gram Stains called to physician.</p> <p><b>Culture:</b></p> <ul style="list-style-type: none"> <li>• All isolates are identified.</li> <li>• Susceptibility results are reported when appropriate.</li> </ul>

	<ul style="list-style-type: none"> <li>All positive results are called to the physician.</li> </ul>
<b>Rejection Criteria</b>	<ul style="list-style-type: none"> <li>Patient labels covering the barcode labels of the culture bottles</li> <li>Labels attached to blood culture bottles and or the blood bottles visually stained with patient's blood</li> </ul> <p>Note: Place the patient label on each bottle &amp; label each Culture bottle with the site of specimen collection. When applying patient identification labels, do not cover the bar code label on the blood culture bottles.</p>
<b>Performing Lab Location</b>	AWH Microbiology- 40114189/4190

## **Body fluids for bacterial culture**

<b>ITEM</b>	<b>PROCESS</b>
<b>Specimen</b>	Aspirate fluid in a sterile leak proof container.  <b>Specify anatomic site</b> Minimum 1.0 ml
<b>Transport Temperature</b>	≤ 2 hours at room temperature  If transport is delayed more than 2 hours, please refrigerate (2-8°C), do not freeze.
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<b>STAT Microscopy:</b> 30 min from Time Of Detection for samples from sterile site. <b>Routine Microscopy:</b> 24- 48 hours <b>Culture:</b> 48-72hrs
<b>Method</b>	<b>Microscopy:</b> Gram stain <b>Culture:</b> Aerobic & Anaerobic
<b>Reference Value</b>	<b>Microscopy:</b> No Organism Seen, No WBC seen <b>Culture:</b> No Growth
<b>Interpretation</b>	<b>Microscopy:</b> Semi-quantitative report of WBCs, types of bacteria, fungus seen. <b>Culture:</b> All isolates are identified, susceptibility testing is performed.  All positive results are called to the physician.
<b>Rejection Criteria</b>	-
<b>Performing Lab Location</b>	AWH Microbiology- 40114189/4190

### **Body Fluids for AFB culture**

ITEM	PROCESS
Specimen	Aspirate fluid in a sterile leak proof container.  <b>Specify anatomic site</b> Minimum 10-15 ml
Transport Temperature	≤2 hours at Room Temperature
Days test is performed	Daily
Turnaround time	<b>Microscopy:</b> For positive smear- one hour after detection time. <b>Culture:</b> 42 days; when culture becomes positive the preliminary report is released within 24 hours of detection time.
Method	<b>Microscopy:</b> Auramine O and Ziehl-Neelsen <b>Culture:</b> BACTEC MGIT
Reference Value	<b>Microscopy:</b> No AFB seen. <b>Culture:</b> No growth / Culture contaminated / Unable to get pure culture / Fail to survive.
Interpretation	<b>Microscopy:</b> Report Average no. of AFB / 100 fields  <b>Culture:</b> Growth of MTB complex with susceptibility to primary drugs SIRE or Growth of MOTT
Rejection Criteria	-
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 6671 / 6675

### **Body fluids for fungal culture**

ITEM	PROCESS
Specimen	Aspirate fluid in a sterile leak proof container.  <b>Specify anatomic site</b> Minimum 1.0 ml
Transport Temperature	≤2 hours at room temperature
Days test is performed	Daily
Turnaround time	<b>Microscopy:</b> same day. <b>Culture:</b> 48 hours-10 days
Method	<b>Microscopy:</b> Blankophor P Fluorescent <b>Culture:</b> 2 set in Aerobic condition: 37°C and 25°C.
Reference Value	<b>Microscopy:</b> No Fungal elements seen. <b>Culture:</b> No fungus isolated
Interpretation	<b>Microscopy:</b> Yeast like-cells seen, Yeast cells seen or fungal elements seen. <b>Culture:</b> Significant fungus isolates reported along with susceptibility results (for Candida only) when appropriate.  Significant fungal pathogens will be phoned to physicians
Rejection Criteria	-
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038

## Bone marrow for bacterial culture

ITEM	PROCESS
<b>Specimen</b>	Specimen in pediatric blood culture bottles (1- 2 ml) for aerobic. An additional specimen may be collected in sterile tube with heparin (>1 ml) for fungal and parasitic workup.
<b>Transport Temperature</b>	≤ 2 hrs. At Room Temperature. <b>Do not refrigerate</b>
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<b>Microscopy:</b> 30 min from Time Of Detection. <b>Culture: Preliminary report:</b> 48 hrs. <b>Positive:</b> 24- 48 hours (after positive blood culture) <b>Final Negative:</b> 5 days
<b>Method</b>	Blood cultures incubated in automated blood culture system- BacT/ALERT.  <b>For positive culture:</b> <b>Microscopy:</b> Gram stain <b>Culture:</b> Aerobic and anaerobic bacterial culture
<b>Reference Value</b>	Negative after 5 days.
<b>Interpretation</b>	<b>Microscopy:</b> All Organisms reported All Gram Stains called to physician. <b>Culture:</b> <ul style="list-style-type: none"> <li>• All isolates are identified.</li> <li>• Susceptibility results are reported when appropriate.</li> <li>• All positive results are called to the physician</li> </ul>
<b>Rejection Criteria</b>	<ul style="list-style-type: none"> <li>• Patient labels covering the barcode labels of the culture bottles</li> <li>• Labels attached to blood culture bottles and or the blood bottles visually stained with patient's blood</li> </ul> <p>Note: Place the patient label on each bottle &amp; label each Culture bottle with the site of specimen collection. When applying patient identification labels, do not cover the bar code label on the blood culture bottles.</p>
<b>Performing Lab Location</b>	AWH Microbiology- 40114189/4190

## Bone marrow for AFB culture

ITEM	PROCESS
<b>Specimen</b>	In sterile leak proof container with sodium polyanethol sulfonate (SPS)
<b>Transport Temperature</b>	≤ 2 hours at Room Temperature
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<b>Microscopy:</b> For positive smear- one hour after detection time. <b>Culture:</b> 42 days; when culture becomes positive the preliminary report is released within 24 hours of detection time.
<b>Method</b>	<b>Microscopy:</b> Auramine O and Ziehl-Neelsen <b>Culture:</b> BACTEC MGIT
<b>Reference Value</b>	<b>Microscopy:</b> No AFB seen. <b>Culture:</b> No growth / Culture contaminated / Unable to get pure culture / Fail to survive.
<b>Interpretation</b>	<b>Microscopy:</b> Report Average no. of AFB / 100 fields  <b>Culture:</b> Growth of MTB complex with susceptibility to primary drugs SIRE or Growth of MOTT
<b>Rejection Criteria</b>	<ul style="list-style-type: none"> <li>• Bone marrow specimen sent in unsterile tube</li> </ul>
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 6671 / 6675



## **Bone marrow for fungal culture**

<b>ITEM</b>	PROCESS
<b>Specimen</b>	0.5- 1 ml tube with SPS or Heparin.
<b>Transport Temperature</b>	≤2 hours at room temperature
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<b>Microscopy:</b> 24 hours; when smear is positive one hour after detection time. <b>Culture:</b> Up to 21 days; when culture becomes positive the preliminary report is released within 24 hours of detection time.
<b>Method</b>	<b>Microscopy:</b> Blankophor P Fluorescent. <b>Culture:</b> Aerobic condition: 37°C and 25°C.
<b>Reference Value</b>	<b>Microscopy:</b> No Fungal elements seen. <b>Culture:</b> No fungus isolated
<b>Interpretation</b>	<b>Microscopy:</b> Yeast like-cells, Yeast cells or fungal elements seen. <b>Culture:</b> Significant fungus isolates reported along with susceptibility results (for Candida only) when appropriate.  Significant fungal pathogens will be phoned to physicians
<b>Rejection Criteria</b>	<ul style="list-style-type: none"><li>• Bone marrow specimen sent in unsterile tube</li></ul>
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038

**Bone marrow for parasitic investigation**

<b>ITEM</b>	PROCESS
<b>Specimen</b>	0.5- 1 ml tube with SPS or Heparin
<b>Transport Temperature</b>	≤2 hours at Room Temperature
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<b>Microscopy:</b> 24 hours
<b>Method</b>	<b>Microscopy:</b> Giemsa stain
<b>Reference Value</b>	Negative for ova / parasite
<b>Interpretation</b>	Positive for ova / parasite
<b>Rejection Criteria</b>	-
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038 / 1047/ 1647

## Bronchoscopy specimens for bacterial culture

ITEM	PROCESS
<b>Specimen</b>	Broncho-alveolar lavage / bronchial wash / bronchial brush in a sterile screw capped container.  5- 10 ml
<b>Transport Temperature</b>	≤ 2 hours at room temperature > 2 hours, store at 4-8 °C
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<b>Microscopy</b> :24-48 hours <b>Culture</b> : 48-72hrs
<b>Method</b>	<b>Microscopy</b> : Gram stain <b>Culture</b> : Aerobic,
<b>Reference Value</b>	<b>Microscopy</b> : No WBCs; No organism seen.  <b>Culture</b> : No growth / Normal upper respiratory flora
<b>Interpretation</b>	<b>Microscopy</b> : Semi quantitative report of WBC's, type of bacteria, fungus seen  <b>Culture</b> : Significant isolates reported along with Susceptibility result when appropriate.
<b>Rejection Criteria</b>	-
<b>Performing Lab Location</b>	AWH Microbiology- 40114189/4190

### **Catheter tip for culture**

ITEM	PROCESS
<b>Specimen</b>	Arterial Tip, Balloon Tip, Broviac, Hickman, PICC, Central venous, Double-lumen, Hemodialysis, Subclavian, Swan Ganz, Triple Lumen, Umbilical catheter, CSF Shunt Tip  5 cm distal end of the catheter tip in sterile container
<b>Transport Temperature</b>	≤ 2 hours at room temperature > 2 hours, store at 4-8 °C
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<b>Culture:</b> 48-72hrs
<b>Method</b>	<b>Culture:</b> Aerobic,
<b>Reference Value</b>	<b>Culture:</b> No growth
<b>Interpretation</b>	<b>Culture:</b> Significant isolates reported along with Susceptibility result when appropriate.
<b>Rejection Criteria</b>	Catheter tip samples sent as a routine (on removal) without collecting blood culture.
<b>Performing Lab Location</b>	AWH Microbiology- 40114189/4190

## Candida auris Screening Culture

ITEM	PROCESS
<b>Specimen</b>	<p>screening will be accepted from patient as per corporate Clinical Protocol policy (CP 100). (Refer to section7.2)</p> <ol style="list-style-type: none"> <li>1. Bilateral Axilla swab</li> <li>2. Groin swab</li> </ol> <p>Other sites shall be considered, if clinically indicated are:</p> <ol style="list-style-type: none"> <li>3. Nose (anterior nares)- one swab shall be used for both nostrils. Pre-moisten the swab with sterile saline</li> <li>4. Wound swab- surgical, ulcer and breaks in skin or other lesions.</li> <li>5. Swabs from cannula entry sites.</li> <li>6. Low vaginal swab.</li> <li>7. Rectal swab or stool sample.</li> <li>8. Sputum (if productive) or endotracheal secretions if intubated.</li> <li>9. Drain fluid if drain(abdominal/pelvic/mediastinal)</li> <li>10. Urine sample- only in catheterized patients and patients with nephrostomy.</li> </ol>
<b>Transport Temperature</b>	<p>Swabs placed in Amie's transport medium in a sealed plastic bag (biohazard bag) and forwarded promptly at ambient temperature (2°C-25°C).</p> <p>For fluids, Sputum, Urine:            ≤ 2 hrs. at room temperature            &gt; 2 hrs. store at 2-8 °C</p>
<b>Days test is performed</b>	24 hrs./ 7 days a week
<b>Turnaround time</b>	<b>Culture:</b> 2-5 Days
<b>Method</b>	<b>Culture:</b> Aerobic
<b>Reference Value</b>	<b>Culture:</b> No Candida auris isolated
<b>Interpretation</b>	<p>Preliminary report: should be released after 48 hrs. as: No Candida auris isolated. (Further Report to Follow)</p> <p>Final report: Negative: No Candida auris isolated</p> <p>Positive: Candida auris isolated with "IC" Code</p>
<b>Rejection Criteria</b>	<p>Wrong collection Devise</p> <p>Wrong Registration</p> <p>Any specimens that don't follow the screening criteria of (CP 100) shall be rejected</p>
<b>Performing Lab Location</b>	AWH Microbiology- 40114189/4190

## **Carbapenem-Resistant (CRE) Screening Culture**

<b>ITEM</b>	<b>PROCESS</b>
<b>Specimen</b>	screening will be accepted from patient as per Infection Control 1. Rectal swab
<b>Transport Temperature</b>	Swabs placed in Amie's transport medium in a sealed plastic bag (biohazard bag) and forwarded promptly at ambient temperature (2°C-25°C).
<b>Days test is performed</b>	24 hrs./ 7 days a week
<b>Turnaround time</b>	<b>Culture:</b> 2-5 Days
<b>Method</b>	<b>Culture:</b> Aerobic
<b>Reference Value</b>	<b>Culture:</b> No Carbapenem resistant Organism isolated
<b>Interpretation</b>	Preliminary report: should be released after 48 hrs. as: No Carbapenem resistant Organism isolated  Positive: enter organism isolated with "IC" Code
<b>Rejection Criteria</b>	Wrong collection Devise Wrong Registration
<b>Performing Lab Location</b>	AWH Microbiology- 40114189/4190

## Cerebrospinal fluid (CSF) for Bacterial culture

ITEM	PROCESS
<b>Specimen</b>	<p>Collect CSF into Sterile leak-proof tubes.</p> <p>Submit the sterile tube with CSF to Microbiology as soon as possible</p> <p>≥1 ml</p>
<b>Transport Temperature</b>	≤2 hours at room temperature. Do not refrigerate
<b>Days test is performed</b>	Daily from 7am – 11PM, After 11PM Samples will be sent to HMC Microbiology
<b>Turnaround time</b>	<p><b>STAT Microscopy:</b> 1 hour from time received in AW CP until reporting</p> <p><b>CSF bacterial latex Agglutination Test:</b> Positive Latex results relayed within 30 min.</p> <p><b>Culture:</b> Preliminary within 24 hrs. Final: 48-72 hours</p>
<b>Method</b>	<p><b>Microscopy:</b> Gram stain and India Ink</p> <p><b>Bacterial Antigen Latex:</b> CSF bacterial latex Agglutination Test performed when WBC count is abnormal.</p> <p><b>Culture:</b> Aerobic</p>
<b>Reference Value</b>	<p><b>Microscopy:</b> No organism seen</p> <p><b>CSF bacterial latex Agglutination Test:</b> Negative</p> <p><b>Culture:</b> No Growth</p>
<b>Interpretation</b>	<p><b>Microscopy:</b> Types of bacteria, fungus seen. All Gram Stains informed to physician.</p> <p><b>CSF bacterial latex Agglutination Test:</b> Positive results informed to physician.</p> <p><b>Culture:</b> All isolates are completely identified. Susceptibility results are reported when appropriate. All positive results are informed to the physician.</p>
<b>Rejection Criteria</b>	<ul style="list-style-type: none"> <li>• Duplicate specimen collected within 48hrs in patients with shunts, EVD, Omayo etc. <b>and not from Lumbar puncture</b></li> </ul>
<b>Performing Lab Location</b>	<p>AWH Microbiology- 40114189/90</p> <p>HMC Microbiology lab (Tel # 44391047/2038) after 11 pm</p>

## Cerebrospinal fluid (CSF) for AFB culture

ITEM	PROCESS
<b>Specimen</b>	<p>Collect CSF into Sterile leak-proof sterile tubes.</p> <p>Submit the sterile tube with CSF to Microbiology as soon as possible</p> <p>2 to 3 ml, optimal is upto10 ml</p>
<b>Transport Temperature</b>	≤ 2 hours at room temperature
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<p><b>Microscopy:</b> For positive smear- one hour after detection time.</p> <p><b>Culture:</b> 42 days; when culture becomes positive the preliminary report is released within 24 hours of detection time.</p>
<b>Method</b>	<p><b>Microscopy:</b> Auramine O and Ziehl-Neelsen</p> <p><b>Culture:</b> BACTEC MGIT</p>
<b>Reference Value</b>	<p><b>Microscopy:</b> No AFB seen.</p> <p><b>Culture:</b> No growth / Culture contaminated / Unable to get pure culture / Fail to survive.</p>
<b>Interpretation</b>	<p><b>Microscopy:</b> Report Average no. of AFB / 100 fields</p> <p><b>Culture:</b> Growth of MTB complex with susceptibility to primary drugs SIRE or Growth of MOTT</p>
<b>Rejection Criteria</b>	<ul style="list-style-type: none"> <li>• Specimen sent in unsterile tube</li> </ul>
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 6671 / 6675



## **Cerebrospinal fluid (CSF) for fungal culture**

ITEM	PROCESS
<b>Specimen</b>	<p>CSF into sterile leak-proof container</p> <p>Submit the sterile tube with CSF to Microbiology as soon as possible</p> <p>2-3 ml</p>
<b>Transport Temperature</b>	≤2 hours at room temperature
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<p><b>Microscopy Stat:</b> 1 hour</p> <p><b>Cryptococcal antigen Detection:</b> 1 hour</p> <p><b>Culture:</b> 48 hours- 10 days</p>
<b>Method</b>	<p><b>Microscopy:</b> Blankophor P Fluorescent and India ink if requested.</p> <p><b>Cryptococcal latex antigen</b></p> <p><b>Culture:</b> 2 set in Aerobic condition: 37°C and 25°C.</p>
<b>Reference Value</b>	<p><b>Microscopy:</b> No Fungal elements seen.</p> <p><b>Cryptococcal latex antigen-</b> Negative</p> <p><b>Culture:</b> No fungus isolated</p>
<b>Interpretation</b>	<p><b>Microscopy:</b> Yeast like-cells seen, Yeast cells seen or fungal elements seen.</p> <p><b>Cryptococcal latex antigen-</b> Positive</p> <p><b>Culture:</b> Significant fungus isolates reported along with susceptibility results (for Candida only) when appropriate.</p> <p>Significant fungal pathogens will be phoned to physicians</p>
<b>Rejection Criteria</b>	-
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038

### **Cerebrospinal fluid (CSF) for parasites**

<b>ITEM</b>	<b>PROCESS</b>
<b>Specimen</b>	CSF into sterile leak-proof container 0≥1 ml
<b>Transport Temperature</b>	≤2 hours at Room Temperature
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<b>Microscopy:</b> 24 hours for Giemsa
<b>Method</b>	<b>Microscopy:</b> Giemsa  Culture when available
<b>Reference Value</b>	Negative for Acanthamoeba / Naegleria / Balamuthia Species
<b>Interpretation</b>	Detection of Acanthamoeba / Naegleria / Balamuthia Species
<b>Rejection Criteria</b>	-
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038 / 1047/ 1647

### Cervical / Urethral swabs for bacterial culture

ITEM	PROCESS
Specimen	Swab in Amies transport medium  It is preferable to send two swabs, one for culture and one for microscopy.
Transport Temperature	Room temperature.  Swabs for suspected case of gonorrhoea, should be transported within 2 hrs.
Days test is performed	Daily
Turnaround time	<b>Microscopy:</b> 24-48 hours <b>Culture:</b> 48-72 hrs.
Method	<b>Microscopy:</b> <ul style="list-style-type: none"><li>• Wet mount.</li><li>• Gram stain.</li></ul> <b>Culture:</b> Aerobic.
Reference Value	<b>Wet mount:</b> Trichomonas vaginalis not seen <b>Gram Stain:</b> No diplococci seen  <b>Culture:</b> No Growth / Normal perineal flora isolated / Growth of coliforms
Interpretation	<b>Microscopy:</b> <b>Wet mount:</b> Trichomonas vaginalis seen <b>Gram stain:</b> Gram Negative Diplococci (intracellular / Extracellular) seen. <b>Culture:</b> Significant isolates reported along with susceptibility result when appropriate.
Rejection Criteria	-
Performing Lab Location	AWH Microbiology- 40114189/90

### **Chlamydia trachomatis direct antigen detection**

<b>ITEM</b>	<b>PROCESS</b>
<b>Specimen</b>	For adults- urethral, cervical, rectal swabs, For Pediatrics- ocular and nasopharyngeal swabs, collected on sterile swab
<b>Transport Temperature</b>	≤ 2 hrs. at room temperature
<b>Days test is performed</b>	Sunday to Thursday in the morning Specimens accepted on all days
<b>Turnaround time</b>	Same Day, except weekend
<b>Method</b>	<b>DFA:</b> Qualitative direct immunofluorescence test
<b>Reference Value</b>	DFA Chlamydia: Negative
<b>Interpretation</b>	DFA Chlamydia: Positive  Significant results are called to the physician
<b>Rejection Criteria</b>	-
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038 / 1047

### **Chlamydia trachomatis / Neisseria gonorrhoea PCR**

ITEM	PROCESS
Specimen	First catch male urine/female urine Endocervical specimens /Vaginal swab specimens (Xpert Vaginal/Endocervical collection kit).
Transport Temperature	< 2 hrs. Samples in Xpert CT/NG transport medium should be transported to the laboratory at 2 °C to 30 °C.
Days test is performed	Daily (Sent to HGH for processing)
Turnaround time	2 – 4 hours
Method	PCR: Real-time polymerase chain reaction
Reference Value	CT NOT DETECTED NG NOT DETECTED
Interpretation	PCR Negative: CT NOT DETECTED NG NOT DETECTED Positive <i>C. trachomatis</i> and <i>N. gonorrhoea</i> CT DETECTED NG DETECTED Positive <i>C. trachomatis</i> and Negative <i>N. gonorrhoea</i> CT DETECTED NG NOT DETECTED Positive <i>N. gonorrhoea</i> and Negative <i>C. trachomatis</i> CT NOT DETECTED NG DETECTED Note: Positive <i>Chlamydia trachomatis</i> (CT) and/or <i>N. gonorrhoea</i> (NG) must be reported to Public Health Department and to the Hospital Infection Control practitioner.
Rejection Criteria	-
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038 / 1047
Reference	Xpert CT_NG Assay Package inserts

**Corneal abscess swab / ulcer scrapings for bacterial culture**

ITEM	PROCESS
Specimen	Specimen in sterile container or directly inoculated Blood agar plate, Chocolate agar plate.
Transport Temperature	≤ 2 hrs. At Room Temperature
Days test is performed	Daily
Turnaround time	<b>STAT Microscopy:</b> 1 hr. <b>Microscopy:</b> 24-48 hrs <b>Culture:</b> 48-72hrs
Method	<b>Microscopy:</b> Gram stain, Giemsa stain (if specimen received on slides send to HMC Microbiology) <b>Culture:</b> Aerobic
Reference Value	<b>Microscopy:</b> No organism seen, No WBC seen <b>Culture:</b> No Growth
Interpretation	<b>Microscopy:</b> Semi-quantitative report of WBCs, types of bacteria, fungus seen.  <b>Culture:</b> All significant organisms, susceptibility testing performed.  Significant results are informed to the physician
Rejection Criteria	-
Performing Lab Location	AWH Microbiology- 40114189/90

## Corneal abscess swab / ulcer scrapings for fungal culture

ITEM	PROCESS
<b>Specimen</b>	Specimen in sterile container or directly inoculated Sabroud's agar (SDA).
<b>Transport Temperature</b>	≤2 hrs at room temperature
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<b>Microscopy:</b> 24 hrs <b>Culture:</b> up to 21 days
<b>Method</b>	<b>Microscopy:</b> Blankophor P Fluorescent stain (if specimen received and not inoculated plates) <b>Culture:</b> 2 set in Aerobic condition: 37°C and 25°C.
<b>Reference Value</b>	<b>Microscopy:</b> No Fungal elements seen. <b>Culture:</b> No fungus isolated
<b>Interpretation</b>	<b>Microscopy:</b> Yeast like-cells seen, Yeast cells seen or fungal elements seen. <b>Culture:</b> Significant fungus isolates reported along with susceptibility results (for Candida only) when appropriate.  Significant fungal pathogens will be phoned to physicians
<b>Rejection Criteria</b>	
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038

**Corneal abscess swab / ulcer scrapings / Contact lens and fluid for parasitic examination**

ITEM	PROCESS
Specimen	Corneal abscess swab / ulcer scrapings / contact lens and fluid, submitted to the laboratory as soon as possible after collection.
Transport Temperature	≤ 30 min at room temperature
Days test is performed	Sunday-Thursday- 7am – 3pm
Turnaround time	<b>Microscopy:</b> 24 hrs for Giemsa
Method	<b>Microscopy:</b> Giemsa Stain Culture when available
Reference Value	Negative for Acanthamoeba cysts and trophozoites
Interpretation	Detection of Acanthamoeba cysts and trophozoites
Rejection Criteria	-
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038 / 1047



## **COVID-19 PCR**

<b>ITEM</b>	<b>PROCESS</b>
<b>Specimen</b>	Nasopharyngeal, oropharyngeal, nasal, or mid-turbinate swab specimen and/or nasal wash/aspirate specimen collected and placed into a viral transport medium (VTM) containing 3 mL transport medium
<b>Transport Temperature</b>	< 2 hrs. at room temperature  Note: Specimens should be delivered to the laboratory promptly and processed as soon as possible.
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	2- 4 hours
<b>Method</b>	Real-time RT-polymerase chain reaction (PCR)
<b>Reference Value</b>	SARS-CoV-2 Negative
<b>Interpretation</b>	SARS-CoV-2 Negative SARS-CoV-2 Positive (8< Average ct ≤30) SARS-CoV-2 Reactive (Average ct >30)
<b>Rejection Criteria</b>	<ul style="list-style-type: none"><li>• Any other samples not received in VTM</li><li>• Leaking sample</li></ul>
<b>Performing Lab Location</b>	AWH Microbiology- 40114189/90

## **Diphtheria culture**

<b>ITEM</b>	<b>PROCESS</b>
<b>Specimen</b>	Throat swab, nasopharyngeal, laryngeal and wound swabs in Amies transport medium  If cutaneous diphtheria is suspected, collect skin, throat, and nasopharynx specimens.
<b>Transport Temperature</b>	≤2 hrs at room temperature
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	STAT Microscopy: 1 hr. Culture: 24-48 hours
<b>Method</b>	Microscopy: Gram stain, Albert's Stain Culture: Aerobic
<b>Reference Value</b>	Microscopy: Gram positive bacilli with metachromatic granules not seen. Culture: <i>Corynebacterium diphtheriae</i> not isolated.
<b>Interpretation</b>	Microscopy: Gram positive bacilli with metachromatic granules seen. Culture: Growth of <i>Corynebacterium diphtheriae</i> along with antimicrobial susceptibility result.  Note- All positive results are called to the physician within 1 hour from the time of detection.
<b>Rejection Criteria</b>	-
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038 / 1047

**Duodenal Aspirate for ova and parasites**

<b>ITEM</b>	PROCESS
<b>Specimen</b>	Specimen collected in screw capped container.
<b>Transport Temperature</b>	≤ 2 hrs at Room Temperature
<b>Days test is performed</b>	Sunday-Thursday- 7am – 3pm
<b>Turnaround time</b>	<b>Microscopy:</b> 24 hrs
<b>Method</b>	<b>Microscopy:</b> Wet mount, Concentration, Trichrome stain
<b>Reference Value</b>	No ova or parasites seen
<b>Interpretation</b>	Ova or parasites seen
<b>Rejection Criteria</b>	-
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038 / 1047

**Ear swabs- middle ear / external ear for bacterial culture**

<b>ITEM</b>	PROCESS
<b>Specimen</b>	Swab in Amies transport medium.
<b>Transport Temperature</b>	≤ 2 hrs at room temperature
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<b>Microscopy:</b> 24-48 hours <b>Culture :</b> 48-72 hours
<b>Method</b>	<b>Microscopy:</b> Gram stain <b>Culture:</b> Aerobic & Anaerobic
<b>Reference Value</b>	No growth / Normal skin flora isolated. Normal skin flora including coliforms.
<b>Interpretation</b>	<b>Microscopy:</b> Semi quantitative report of WBC's, types of bacteria, fungus seen. <b>Culture:</b> All significant isolates identified, susceptibility testing performed.
<b>Rejection Criteria</b>	-
<b>Performing Lab Location</b>	AWH Microbiology- 40114189/90

**Ear swabs- middle ear / external ear for fungal culture**

ITEM	PROCESS
Specimen	Specimen in sterile container / swab in Amies transport medium.
Transport Temperature	≤2 hrs at room temperature
Days test is performed	Daily
Turnaround time	<b>Microscopy:</b> 24 hrs <b>Culture:</b> up to 10 days
Method	<b>Microscopy:</b> Blankophor P Fluorescent stain (if specimen received and not inoculated plates) <b>Culture:</b> 2 set in Aerobic condition: 37°C and 25°C.
Reference Value	<b>Microscopy:</b> No Fungal elements seen. <b>Culture:</b> No fungus isolated
Interpretation	<b>Microscopy:</b> Yeast like-cells seen, Yeast cells seen or fungal elements seen. <b>Culture:</b> Significant fungus isolates reported along with susceptibility results (for Candida only) when appropriate.  Significant fungal pathogens will be phoned to physicians
Rejection Criteria	-
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038

### **Endometrial tissue / swab for culture**

ITEM	PROCESS
Specimen	Collect specimens aseptically in sterile container / endometrial swab in Amies medium <b>Tissue specimens are superior to swabs.</b>
Transport Temperature	≤2 hrs at room temperature
Days test is performed	Daily
Turnaround time	<b>Routine Microscopy:</b> 24-48 hrs <b>Culture:</b> 48 hours-10 days
Method	<b>Microscopy:</b> Gram Stain <b>Culture:</b> Aerobic and Anaerobic
Reference Value	<b>Microscopy:</b> No organisms seen. <b>Culture:</b> No growth
Interpretation	<b>Microscopy:</b> Semi-quantitative report of WBCs, types of bacteria, fungus seen. <b>Culture:</b> All significant organisms, susceptibility testing performed.  Significant pathogens will be phoned to physicians.
Rejection Criteria	-
Performing Lab Location	AWH Microbiology- 40114189/90

### **Endotracheal secretions for bacterial culture**

<b>ITEM</b>	<b>PROCESS</b>
<b>Specimen</b>	Collect into sterile leak proof wide mouth container. Minimum of 2 ml.
<b>Transport Temperature</b>	≤ 2 hours at room temperature Specimens may be refrigerated for up to 2 hr.
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<b>Microscopy:</b> 24-48 hrs <b>Culture:</b> 48-72hrs
<b>Method</b>	<b>Microscopy:</b> Gram stain <b>Culture:</b> Aerobic
<b>Reference Value</b>	<b>Microscopy:</b> Normal respiratory flora <b>Culture:</b> No growth / Normal respiratory flora
<b>Interpretation</b>	Microscopy: Semi-quantitative report of WBCs, predominant type of bacteria, and fungus seen. Note: Culture performed only if the quality of the specimen is good (WBC > Epithelial Cells) otherwise the specimen is considered to be contaminated with oropharyngeal flora and will not be cultured. Culture : Significant isolates reported along with Susceptibility result when appropriate.
<b>Rejection Criteria</b>	<ul style="list-style-type: none"><li>• Endotracheal tubes (tip)</li><li>• Endotracheal or tracheal secretion swab, except sputum swab from CF patients and PCD patients</li></ul>
<b>Performing Lab Location</b>	AWH Microbiology- 40114189/90

### **Endotracheal secretions for fungal culture**

ITEM	PROCESS
Specimen	Specimen in sterile container
Transport Temperature	≤2 hrs at room temperature
Days test is performed	Daily
Turnaround time	<b>Microscopy:</b> 24 hrs <b>Culture:</b> up to 10 days
Method	<b>Microscopy:</b> Blankophor P Fluorescent stain (if specimen received and not inoculated plates) <b>Culture:</b> 2 set in Aerobic condition: 37°C and 25°C.
Reference Value	<b>Microscopy:</b> No Fungal elements seen. <b>Culture:</b> No fungus isolated
Interpretation	<b>Microscopy:</b> Yeast like-cells seen, Yeast cells seen or fungal elements seen. <b>Culture:</b> Significant fungus isolates reported along with susceptibility results (for Candida only) when appropriate.  Significant fungal pathogens will be phoned to physicians
Rejection Criteria	-
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038



## **Environmental specimens for culture**

ITEM	PROCESS
<b>Specimen</b>	Environmental swabs in Amies medium, fluids in sterile container.  Prior approval of specimen collection with Infection Unit is must
<b>Transport Temperature</b>	≤2 hrs. at room temperature
<b>Days test is performed</b>	Sunday to Thursday - (only in the morning after arrangement with Medical Microbiologist)
<b>Turnaround time</b>	<b>Culture:</b> 48-72 hrs. for Bacterial culture. 5 Days for Fungal culture.
<b>Method</b>	<b>Culture:</b> Aerobic conditions.
<b>Reference Value</b>	<b>Culture:</b> No growth.
<b>Interpretation</b>	<b>Culture:</b> Environmental sampling culture positive results are reported to Infection Control Practitioners.  Culture is performed under guidelines of Infection Control Policies and coordination with Infection Control Practitioners.
<b>Rejection Criteria</b>	<ul style="list-style-type: none"><li>• Samples not sent in coordination with Infection Control Practitioners.</li></ul>
<b>Performing Lab Location</b>	AWH Microbiology- 40114189/90

**Eye - Conjunctiva, Eyelid (blepharitis) swab for bacterial culture**

<b>ITEM</b>	PROCESS
<b>Specimen</b>	Swab in Amies transport medium or directly inoculated on Blood agar plate and Chocolate agar
<b>Transport Temperature</b>	≤ 2 hrs. at room temperature
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<b>STAT Microscopy:</b> 1 hr. (for neonates) <b>Microscopy:</b> 24-48 hrs. <b>Culture:</b> 48-72hrs
<b>Method</b>	<b>Microscopy:</b> Gram stain <b>Culture:</b> Aerobic
<b>Reference Value</b>	<b>Microscopy:</b> No Organism Seen, No WBC seen <b>Culture:</b> No Growth or Normal skin flora
<b>Interpretation</b>	<b>Microscopy:</b> Semi-quantitative report of WBCs, types of bacteria, fungus seen.  <b>Culture:</b> All significant organisms, susceptibility testing performed.  Significant Results are called to the physician
<b>Rejection Criteria</b>	-
<b>Performing Lab Location</b>	AWH Microbiology- 40114189/90

**FLU PANEL PCR (COVID-19, influenza A & B, and Respiratory syncytial viruses A and B)**

ITEM	PROCESS
Specimen	Nasopharyngeal, nasal, and/or nasal wash/aspirate specimen collected and placed into a viral transport medium (VTM) containing 3 mL transport medium
Transport Temperature	< 2 hrs. at room temperature  Note: Specimens should be delivered to the laboratory promptly and processed as soon as possible.
Days test is performed	Daily
Turnaround time	2- 4 hours
Method	Multiplex Real-time RT-polymerase chain reaction (PCR)
Reference Value	No quantitative value
Interpretation	<ul style="list-style-type: none"><li>• Positive Influenza A: Detected Negative: Influenza A not detected</li><li>• Positive: Influenza B detected Negative: Influenza B not detected.</li><li>• Positive Respiratory syncytial viruses A and B: Detected Negative Respiratory syncytial viruses A and B: Not Detected.</li><li>• Positive COVID-19 PCR: Detected (8&lt; Average ct ≤30)</li><li>• Reactive COVID-19 PCR: Detected (Average ct &gt;30)</li><li>• Negative COVID-19 PCR: Not Detected</li></ul>
Rejection Criteria	<ul style="list-style-type: none"><li>• Patient information on request form does not match with information on the sample tube/container.</li><li>• There is no doctor's stamp.</li><li>• The request form contains no patient's name and Hospital or Qatar ID number.</li><li>• An inadequate volume of specimen for testing is received.</li><li>• The specimen has leaked.</li><li>• Using wrong swab e.g.; bacteriological swab with cotton tip and wooden shaft which is unsuitable for viruses. (The recommended swab is with a synthetic tip such as polyester or Dacron® and an aluminum or plastic shaft).</li><li>• Improper storage of specimen before submission to virology laboratory</li></ul>
Performing Lab Location	AWH Microbiology- 40114189/90

### **Gastric wash or lavage for AFB culture**

ITEM	PROCESS
Specimen	Collect in early morning before patients eat and while they are still in bed. Perform lavage with 25 to 50 mL of chilled, sterile distilled water. Recover sample and place in a leak-proof sterile container such as a 50-mL conical tube.  25 to 50 mL
Transport Temperature	≤1 hrs at Room Temperature
Days test is performed	Daily
Turnaround time	<b>Microscopy:</b> For positive smear- one hour after detection time. <b>Culture:</b> 42 days; when culture becomes positive the preliminary report is released within 24 hours of detection time.
Method	<b>Microscopy:</b> Auramine O and Ziehl-Neelsen <b>Culture:</b> BACTEC MGIT
Reference Value	<b>Microscopy:</b> No AFB seen. <b>Culture:</b> No growth / Culture contaminated / Unable to get pure culture / Fail to survive.
Interpretation	<b>Microscopy:</b> Report Average no. of AFB / 100 fields  <b>Culture:</b> Growth of MTB complex with susceptibility to primary drugs SIRE or Growth of MOTT
Rejection Criteria	<ul style="list-style-type: none"><li>• Gastric lavage sent on swab</li></ul>
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 6671 / 6675

### **Group B Streptococcus (GBS) Screening for culture**

ITEM	PROCESS
Specimen	LVS/ Rectal swab in Amies transport medium (blue top)
Transport Temperature	< 2 hrs. at room temperature
Days test is performed	Daily
Criteria for testing	Pregnant women at 35–37 weeks of gestation
Turnaround time	Microscopy: Not applicable Culture: 48-72hrs
Method	Culture: Aerobic.
Reference Value	Culture: No Beta Hemolytic Strep Grp B isolated
Interpretation	Culture: No Beta Hemolytic Strep Grp B isolated “ <i>Streptococcus agalactiae</i> ” with code “GBS”
Rejection Criteria	-
Performing Lab Location	AWH Microbiology- 40114189/90

### **Group B Streptococcus (GBS) PCR**

ITEM	PROCESS
Specimen	LVS/ Rectal swab COPAN Swab transport medium (red top)
Transport Temperature	< 2 hrs at room temperature Note: Specimens should be delivered to the laboratory promptly and processed as soon as possible.
Days test is performed	Daily
Criteria for testing	<ul style="list-style-type: none"><li>• All cases with no prior GBS status known at the time of labor</li><li>• PROM</li><li>• Emergency cases requested by Doctor</li></ul>
Turnaround time	≤ 2 hours
Method	Real-time polymerase chain reaction (PCR)
Reference Value	GBS Negative
Interpretation	GBS Negative GBS Positive
Rejection Criteria	Swab received in Amies transport medium should be treated as GBS culture.
Performing Lab Location	AWH Microbiology- 40114189/90

<b>Reference</b>	<ul style="list-style-type: none"> <li>Lynne S Garcia. Clinical Microbiology Procedure Handbook, 3rd Edition, 2010, ASM.</li> </ul>
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**Hair for fungal culture**

ITEM	PROCESS
<b>Specimen</b>	Collect at least 10-12 affected hairs taken in a sterile Petri dish, or Sterile glossy paper with the base of the shaft intact and placed in clean container.
<b>Transport Temperature</b>	≤2 hrs at room temperature
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<b>Microscopy:</b> 24 hrs <b>Culture:</b> up to 21 days
<b>Method</b>	<b>Microscopy:</b> Blankophor P Fluorescent stain. <b>Culture:</b> 2 set in Aerobic condition: 37°C and 25°C.
<b>Reference Value</b>	<b>Microscopy:</b> No Fungal elements seen. <b>Culture:</b> No fungus isolated
<b>Interpretation</b>	<b>Microscopy:</b> Fungal elements seen. <b>Culture:</b> Significant fungus isolates reported when appropriate.
<b>Rejection Criteria</b>	-
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038

## High vaginal swabs for culture

ITEM	PROCESS
Specimen	High vaginal swab in Amies transport medium  It is preferable to send two swabs- one for culture and one for microscopy.
Transport Temperature	≤2 hrs at room temperature
Days test is performed	Daily
Turnaround time	<b>Microscopy:</b> 24-48 hrs. <b>Culture:</b> 48-72 hrs.
Method	<b>Microscopy:</b> <ul style="list-style-type: none"><li>• Wet mount.</li><li>• Gram stain.</li></ul> <b>Culture:</b> Aerobic
Reference Value	<b>Wet mount-</b> Trichomonas vaginalis not seen <b>Gram Stain -</b> Normal vaginal flora <b>Culture-</b> Normal Vaginal flora
Interpretation	<b>Microscopy:</b> <b>Wet mount:</b> Trichomonas vaginalis seen <b>Gram stain:</b> <ul style="list-style-type: none"><li>• Yeast with or without hyphal filaments</li><li>• Evidence of vaginosis: Gram Stain smear suggestive of bacterial vaginosis</li></ul> <b>Culture:</b> Significant isolates reported when appropriate.
Rejection Criteria	<ul style="list-style-type: none"><li>• Low vaginal swab</li></ul>
Performing Lab Location	AWH Microbiology- 40114189/90



**Insect / adult worm or proglotid for identification**

ITEM	PROCESS
Specimen	<ul style="list-style-type: none"><li>• Passed / voided specimen in isotonic saline in clean sterile container.</li><li>• Do not use ethanol or formalin to preserve the specimen</li><li>• Insect in sterile container.</li></ul>
Transport Temperature	≤ 2 hrs at Room Temperature
Days test is performed	Daily
Turnaround time	24 hrs
Method	Macroscopic / Microscopic Evaluation
Reference Value	-
Interpretation	Identification of appropriate species
Rejection Criteria	Veterinary specimens
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038 / 1047

### **Intra-uterine contraceptive device (IUCD) culture**

ITEM	PROCESS
Specimen	IUCD in a sterile leak proof container.
Transport Temperature	≤2 hrs at room temperature
Days test is performed	Daily
Turnaround time	<b>Microscopy:</b> 24-48 hrs <b>Culture :</b> Preliminary report :48-72 hrs Final report: 07 days
Method	<b>Microscopy:</b> Gram stain <b>Culture:</b> Anaerobic conditions.
Reference Value	<b>Microscopy-</b> No organisms resembling Actinomyces seen on Gram stain <b>Culture-</b> No growth / Normal vaginal flora
Interpretation	<b>Microscopy:</b> Report the presence of branching Gram positive bacilli resembling Actinomyces.  <b>Culture:</b> Actinomyces species reported along with susceptibility result when appropriate.
Rejection Criteria	<ul style="list-style-type: none"><li>• Specimen sent in formalin</li></ul>
Performing Lab Location	AWH Microbiology- 40114189/90

## **Nail scrapings for fungal culture**

ITEM	PROCESS
Specimen	Specimen taken in a sterile Petri dish, or Sterile glossy paper
Transport Temperature	≤2 hrs at room temperature
Days test is performed	Daily
Turnaround time	<b>Microscopy:</b> 24 hrs <b>Culture:</b> up to 21 days
Method	<b>Microscopy:</b> Blankophor P Fluorescent stain. <b>Culture:</b> 2 set in Aerobic condition: 37°C and 25°C.
Reference Value	<b>Microscopy:</b> No Fungal elements seen. <b>Culture:</b> No fungus isolated
Interpretation	<b>Microscopy:</b> Yeast like-cells seen, Yeast cells seen or fungal elements seen. <b>Culture:</b> Significant fungus isolates reported along with susceptibility results (for Candida only) when appropriate.  Significant fungal pathogens will be phoned to physicians
Rejection Criteria	-
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038

**Nasal swabs for MRSA Screening/ Other samples for MRSA Routine Culture**

ITEM	PROCESS
Specimen	Cepheid Collection Device, Copan double plastic swab (red cap)  Swabs for MRSA screening / Culture will be accepted from patient as per corporate infection MRSA policy (CL 7252).
Transport Temperature	≤2 hrs. at room temperature
Days test is performed	Daily
Turnaround time	Culture: 48 - 72 hrs. PCR: 4 hours
Method	Culture: Aerobic PCR: GeneXpert MRSA assay
Reference Value	Culture: No MRSA isolated  GeneXpert MRSA assay- MRSA DNA Not detected
Interpretation	Culture: MRSA positive results are reported to Infection Control Practitioners.  GeneXpert MRSA assay - MRSA DNA DETECTED
Rejection Criteria	<ul style="list-style-type: none"><li>• Routine screening of patients for MRSA is not done. Please refer to Infection control policy CL 7252 for selection of patients.</li><li>• Use of different swab than Cepheid Collection Device, Copan double plastic swab (red cap)</li></ul>
Performing Lab Location	AWH Microbiology- 40114189/90

### **Nasal swabs for MRSA/SA Specific PCR**

<b>ITEM</b>	<b>PROCESS</b>
<b>Specimen</b>	Cepheid Collection Device, Copan double plastic swab (red cap) Nasal Swabs for MRSA/SA screening will be accepted from patient as per corporate infection MRSA policy (CL 7252).
<b>Transport Temperature</b>	≤2 hrs. at room temperature
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	4 hours
<b>Method</b>	GeneXpert MRSA/SA assay
<b>Reference Value</b>	GeneXpert MRSA/SA assay- Negative for MRSA DNA Negative for SA DNA
<b>Interpretation</b>	GeneXpert MRSA/ SA assay - Positive for MRSA DNA Positive for SA DNA
<b>Rejection Criteria</b>	<ul style="list-style-type: none"><li>• Routine screening of patients for MRSA/SA is not done. Please refer to Infection control policy CL 7252 for selection of patients.</li><li>• Use of different swab than Cepheid Collection Device, Copan double plastic swab (red cap)</li></ul>
<b>Performing Lab Location</b>	AWH Microbiology- 40114189/90

### Nasopharyngeal aspirate for B. pertussis

ITEM	PROCESS
Specimen	Nasopharyngeal aspirate (secretion)  Per nasal swab, and nasopharyngeal swab in <b>charcoal-based</b> transport medium (Regan-Lowe)
Transport Temperature	≤2 hrs at Room Temperature
Days test is performed	Daily
Turnaround time	<b>Microscopy:</b> 24-48 hours <b>Culture: Preliminary report :</b> 48 hrs <b>Final report :</b> 12 days
Method	<b>Microscopy:</b> Gram stain <b>Culture:</b> Aerobic
Reference Value	<b>Microscopy:</b> No gram negative coccobacilli seen. <b>Culture:</b> Negative for Bordetella species
Interpretation	<b>Microscopy-</b> Gram negative coccobacilli seen. <b>Culture-</b> Culture positive for Bordetella species
Rejection Criteria	<ul style="list-style-type: none"><li>• Cough plates should not be used as they are not sensitive.</li><li>• Rayon or cotton swabs should be avoided.</li></ul>
Performing Lab Location	AWH Microbiology- 40114189/90

### **Placental tissue for culture**

<b>ITEM</b>	PROCESS
<b>Specimen</b>	Collect specimens aseptically in sterile container
<b>Transport Temperature</b>	≤2 hrs at room temperature
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<b>Microscopy Stat:</b> 1-2 hours <b>Routine Microscopy:</b> 24-48 hrs <b>Culture:</b> 48 hours-10 days
<b>Method</b>	<b>Microscopy:</b> Gram Stain <b>Culture:</b> Aerobic and Anaerobic
<b>Reference Value</b>	<b>Microscopy:</b> No organisms seen. <b>Culture:</b> No growth
<b>Interpretation</b>	<b>Microscopy:</b> Semi-quantitative report of WBCs, types of bacteria, fungus seen. <b>Culture:</b> All significant organisms, susceptibility testing performed.  Significant pathogens will be phoned to physicians.
<b>Rejection Criteria</b>	<ul style="list-style-type: none"><li>• Placental swabs</li></ul>
<b>Performing Lab Location</b>	AWH Microbiology- 40114189/90

### **Rectal swabs for Vancomycin resistant Enterococci (VRE)**

ITEM	PROCESS
Specimen	Rectal swab in Amies transport medium.  Prior approval of specimen collection with Infection control is must
Transport Temperature	≤2 hrs at room temperature
Days test is performed	Sunday to Thursday - (only in the morning after arrangement with Medical Microbiologist)
Turnaround time	<b>Culture:</b> 48-72 hrs.
Method	<b>Culture:</b> Aerobic
Reference Value	<b>Culture:</b> No VRE isolated
Interpretation	<b>Culture:</b> VRE positive results are reported to Infection Control Practitioners.  Culture is performed under guidelines of Infection Control Policies and in coordination with Infection Control Practitioners.
Rejection Criteria	-
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology laboratory (Tel #44392038)



## **Respiratory specimens for AFB culture**

ITEM	PROCESS
Specimen	<p>Sputum (for 2 consecutive days), Endo-tracheal secretions, BAL / BW in a sterile, wide mouth disposable container (preferably 50 ml falcon tube).</p> <p><b>Note-</b></p> <ul style="list-style-type: none"> <li>• For follow up of patients on therapy, collect at weekly intervals only for AFB staining, beginning at 2 weeks after initiation of therapy until 2 consecutive smear negative results are obtained. If first smear negative result is obtained the second smear should be repeated on following day.</li> <li>• Second Culture is done for two consecutive samples after 2 months of therapy.</li> <li>• Third Culture of another two consecutive samples is done at end of therapy.</li> </ul> <p>Collect 5-10 ml (min 3ml) early-morning specimen</p>
Transport Temperature	≤ 2 hrs at room temperature
Days test is performed	Daily
Turnaround time	<p><b>Microscopy:</b> For positive smear- one hour after detection time.</p> <p><b>Culture:</b> 42 days; when culture becomes positive the preliminary report is released within 24 hours of detection time.</p>
Method	<p><b>Microscopy:</b> Auramine O and Ziehl-Neelsen</p> <p><b>Culture:</b> BACTEC MGIT</p>
Reference Value	<p><b>Microscopy:</b> No AFB seen.</p> <p><b>Culture:</b> No growth / Culture contaminated / Unable to get pure culture / Fail to survive.</p>
Interpretation	<p><b>Microscopy:</b> Report Average no. of AFB / 100 fields</p> <p><b>Culture:</b> Growth of MTB complex with susceptibility to primary drugs SIRE or Growth of MOTT</p>
Rejection Criteria	<ul style="list-style-type: none"> <li>• Salivary sputum except for patient on therapy in the TB unit and induced sputum</li> <li>• Third consecutive sputum and other pulmonary samples from same patient</li> <li>• Pooled sputum specimens</li> <li>• Swabs are not recommended for the culture of Mycobacterium, since they provide limited material.</li> </ul>
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 6671 / 6675

## **Respiratory specimens for AFB PCR**

ITEM	PROCESS
<b>Specimen</b>	<p>Sputum Endo-tracheal secretions, BAL / BW in a sterile, wide mouth disposable container (preferably 50 ml falcon tube).</p> <p><b>Note-</b></p> <p>Test should be ordered along with culture and smear for new patients suspected of TB</p> <p>Collect 5-10 ml (min 3ml) early-morning specimen</p>
<b>Transport Temperature</b>	≤ 2 hrs at room temperature
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	Next day, Positive PCR- one hour after detection time.
<b>Method</b>	<b>GeneXpert TB PCR</b>
<b>Reference Value</b>	<p><b>AFB PCR:</b> Positive/Negative</p> <p><b>MTB DNA:</b> Detected /Not Detected</p> <p><b>Rifampicin(RIF) Resistant:</b> Detected/Not Detected</p>
<b>Interpretation</b>	<ul style="list-style-type: none"> <li>• Positive, MTB DNA Detected Rif resistance Detected</li> <li>• Positive, MTB DNA Detected Rif resistance Not Detected</li> <li>• Negative, MTB DNA Not Detected</li> <li>• Please Note: As documented by WHO, RIF resistance is rarely encountered by itself, and usually indicates resistance to a number of other anti-TB drugs. It is most commonly seen in multi-drug resistant strains and has a reported frequency of greater than 95 % in such isolates</li> <li>• A negative TB PCR result alone is not enough to rule out TB diagnosis. This test should be run in conjunction with TB Culture</li> <li>• GeneXpert Real Time PCR is not approved by FDA for extra pulmonary samples.</li> </ul>
<b>Rejection Criteria</b>	<ul style="list-style-type: none"> <li>• Salivary sputum except for patient on therapy in the TB unit and induced sputum</li> <li>• Third consecutive sputum and other pulmonary samples from same patient</li> <li>• Pooled sputum specimens</li> <li>• Swabs are not recommended for the culture of Mycobacterium, since they provide limited material.</li> <li>• Test is already performed on other pulmonary specimen</li> </ul>

**Performing Lab  
Location**

This test is not done in AWHL. Sent to HMC Microbiology  
Laboratory Ext. # 6671 / 6675

## Respiratory tract specimens for P. jirovecii

ITEM	PROCESS
<b>Specimen</b>	Sputum / Endotracheal secretions / Bronchoscopy specimen in sterile screw capped container.  ≥ 5 ml
<b>Transport Temperature</b>	≤ 2 hrs at room temperature
<b>Days test is performed</b>	Sunday to Thursday only in the morning Specimens accepted on all days.
<b>Turnaround time</b>	<b>Microscopy:</b> 8-24hrs
<b>Method</b>	<b>Microscopy:</b> <b>DFA-</b> Direct Fluorescent antigen assay <b>GMS-</b> Gomori methinamine silver stain
<b>Reference Value</b>	<b>Microscopy:</b> <b>DFA-</b> Negative for P. jirovecii <b>GMS Stain-</b> Negative for P. jirovecii
<b>Interpretation</b>	<b>Microscopy:</b> <b>DFA-</b> Cysts of P.jirovecii seen <b>GMS Stain-</b> Cysts of P.jirovecii seen
<b>Rejection Criteria</b>	-
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology laboratory (Tel #44392038)

## **Respiratory specimens for fungal culture**

ITEM	PROCESS
<b>Specimen</b>	Sputum / Sputum induced/ Endotracheal secretions / Bronchoscopy specimen in sterile screw capped container.  ≥ 1 ml.
<b>Transport Temperature</b>	≤2 hrs at room temperature
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<b>Microscopy:</b> 24 hrs <b>Culture:</b> 48 hours-10 days
<b>Method</b>	<b>Microscopy:</b> Blankophor P Fluorescent stain. <b>Culture:</b> 2 set in Aerobic condition: 37°C and 25°C.
<b>Reference Value</b>	<b>Microscopy:</b> No Fungal elements seen. <b>Culture:</b> No fungus isolated
<b>Interpretation</b>	<b>Microscopy:</b> Yeast like-cells seen, Yeast cells seen or fungal elements seen. <b>Culture:</b> Significant fungus isolates reported along with Susceptibility results (for Candida only) when appropriate. Significant fungal pathogens will be phoned to physicians
<b>Rejection Criteria</b>	-
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038

### **Respiratory Specimens for Ova & parasite**

ITEM	PROCESS
<b>Specimen</b>	Sputum / Sputum, induced / Endotracheal secretions / Bronchoscopy specimen in sterile screw capped container <b>for the diagnosis of <i>Paragonimus westermani</i> eggs, <i>Strongyloides stercoralis</i>, <i>Acaris lumbricoides</i> and hookworm larvae.</b>  ≥ 1 ml
<b>Transport Temperature</b>	≤15 min at Room Temperature
<b>Days test is performed</b>	Sunday-Thursday- 7am – 3pm
<b>Turnaround time</b>	<b>Microscopy:</b> 1 hr.
<b>Method</b>	<b>Microscopy:</b> Wet Mount  <b>Culture:</b> Axenic culture for <i>Strongyloides</i> / hookworm larvae
<b>Reference Value</b>	<b>Microscopy:</b> No ova / parasite seen  <b>Culture:</b> negative for <i>Strongyloides</i> / hookworm larvae
<b>Interpretation</b>	<b>Microscopy:</b> ova / parasite seen  <b>Culture:</b> <i>Strongyloides</i> larvae / hookworm detected
<b>Rejection Criteria</b>	-
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038 / 1047

### **Semen, prostatic secretion for bacterial culture**

ITEM	PROCESS
Specimen	Collect the specimen in a Sterile leak proof container.  <b>Note:</b> More relevant results may be obtained by giving a urine specimen collected immediately before and after massage along with the <b>Prostatic secretion</b> to indicate urethral and bladder organisms.
Transport Temperature	≤ 2 hours at room temperature
Days test is performed	Daily
Turnaround time	<b>Microscopy</b> – 24-48 hrs <b>Culture:</b> 48-72 hrs.
Method	<b>Microscopy:</b> Gram stain. <b>Culture:</b> Aerobic conditions.
Reference Value	No organisms seen, normal genital flora
Interpretation	<b>Microscopy</b> : Semi-quantitative report of WBCs, types of bacteria, fungi seen <b>Culture:</b> Significant isolates reported along with susceptibility result when appropriate.
Rejection Criteria	-
Performing Lab Location	AWH Microbiology- 40114189/90

**Sigmoidoscopy material for ova & parasite**

<b>ITEM</b>	PROCESS
<b>Specimen</b>	Sigmoidoscopy specimen in a screw capped container
<b>Transport Temperature</b>	≤ 30 min at Room Temperature
<b>Days test is performed</b>	Sunday-Thursday / 7am – 3pm
<b>Turnaround time</b>	<b>Microscopy:</b> 24 hrs
<b>Method</b>	<b>Microscopy:</b> Wet mount, Concentration, Permanent stain
<b>Reference Value</b>	No ova or parasites seen
<b>Interpretation</b>	ova or parasites seen
<b>Rejection Criteria</b>	-
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038 / 1047



### **Skin scraping for fungal culture**

ITEM	PROCESS
Specimen	Specimen taken in a sterile petri dish, or sterile glossy paper.
Transport Temperature	≤2 hrs at room temperature
Days test is performed	Daily
Turnaround time	<b>Microscopy:</b> 24 hrs <b>Culture:</b> up to 21 days
Method	<b>Microscopy:</b> Blankophor P Fluorescent stain. <b>Culture:</b> 2 set in Aerobic condition: 37°C and 25°C.
Reference Value	<b>Microscopy:</b> No Fungal elements seen. <b>Culture:</b> No fungus isolated
Interpretation	Microscopy: Yeast like-cells seen, Yeast cells seen or fungal elements seen. Culture: Significant fungus isolates reported along with susceptibility results (for Candida only) when appropriate.  Significant fungal pathogens will be phoned to physicians
Rejection Criteria	-
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038

### **Sputum for bacterial culture**

ITEM	PROCESS
Specimen	Collect into sterile leak proof wide mouth container.  ≥ 2 ml
Transport Temperature	≤ 2 hours at room temperature Specimens may be refrigerated for up to 8 hrs
Days test is performed	Daily
Turnaround time	<b>Microscopy:</b> 24-48 hrs <b>Culture:</b> 48-72hrs
Method	<b>Microscopy:</b> Gram stain <b>Culture:</b> Aerobic
Reference Value	<b>Microscopy:</b> Normal respiratory flora <b>Culture:</b> No growth / Normal respiratory flora
Interpretation	<b>Microscopy:</b> Semi-quantitative report of WBCs, predominant type of bacteria, and fungus seen. Note: Culture performed only if the quality of the specimen is good (WBC> Epithelial Cells) otherwise the specimen is considered to be contaminated with oropharyngeal flora and Specimen will not be cultured. <b>Culture :</b> Significant isolates reported along with susceptibility result when appropriate.
Rejection Criteria	-
Performing Lab Location	AWH Microbiology- 40114189/90

## Stool for routine culture

ITEM	PROCESS
Specimen	Clean leak proof wide mouth container  10-20 gm.
Transport Temperature	< 1 hr. at room temperature. If transportation is delayed, store at (4-8 °C) and submit within 24 hrs
Days test is performed	Daily
Turnaround time	<b>Culture:</b> 48-72hrs
Method	<b>Culture:</b> Aerobic and microaerophilic <b>Campy antigen test</b>
Reference Value	<b>Culture:</b> No Salmonella-Shigella, Campylobacter spp, Enteropathogenic E. coli and Enterohaemorrhagic E. coli isolated  <b>Campy antigen test-</b> Negative
Interpretation	<b>Culture:</b> Following significant isolates will be identified at species level and susceptibility will be performed- <ul style="list-style-type: none"> <li>• Salmonella spp. group ___ isolated</li> <li>• Shigella spp. isolated</li> <li>• Enteropathogenic E. coli isolated. Poly group__</li> <li>• Enterohaemorrhagic E. coli isolated</li> <li>• Campylobacter spp. Isolated</li> </ul>
Rejection Criteria	<ol style="list-style-type: none"> <li>1. More than 2 specimens/patient without prior consultation with an individual who can explain the limited yield provided by additional specimens.</li> <li>2. Formed stool except (Food handler, Food poisoning, Outbreak investigation)</li> <li>3. Specimens from Inpatient after the third day of admission: Certain exceptions will be applied (NCCCR patients, HIV patients and outbreak investigation initiated by Infection Control)</li> <li>4. Prior consultation with a Microbiologist is needed if enteric pathogens are still suspected and the sample is needed to be tested.</li> </ol>
Performing Lab Location	AWH Microbiology- 40114189/90

### **Stool for AFB culture**

ITEM	PROCESS
<b>Specimen</b>	Stool specimen in clean leak proof wide mouth container.  <b>Note-</b> Utility of culturing stool for acid-fast bacilli remains controversial and should be discouraged; however, stool samples from immunocompromised patients may be submitted, mainly to detect MOTT.  10-20 gm.
<b>Transport Temperature</b>	≤2 hrs at Room Temperature
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<b>Microscopy:</b> For positive smear- one hour after detection time. <b>Culture:</b> 42 days; when culture becomes positive the preliminary report is released within 24 hours of detection time.
<b>Method</b>	<b>Microscopy:</b> Auramine O and Ziehl-Neelsen <b>Culture:</b> BACTEC MGIT
<b>Reference Value</b>	<b>Microscopy:</b> No AFB seen. <b>Culture:</b> No growth / Culture contaminated / Unable to get pure culture / Fail to survive
<b>Interpretation</b>	<b>Microscopy:</b> Report Average no. of AFB / 100 fields  <b>Culture:</b> Growth of MTB complex with susceptibility to primary drugs SIRE or Growth of MOTT
<b>Rejection Criteria</b>	-
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 6671 / 6675

## **Stool for Ova and Parasite**

ITEM	PROCESS
<b>Specimen</b>	Specimen collected in screw capped container.  If possible, three specimens passed at intervals of 2-3 days should be examined over a period of 1 week.  It will be processed if clinical history clearly indicates suspected Parasitic Infection  10-20 gm.
<b>Transport Temperature</b>	≤ 2 hrs at Room Temperature
<b>Days test is performed</b>	Sunday-Thursday- 7am – 3pm
<b>Turnaround time</b>	24 hrs
<b>Method</b>	<b>Microscopy:</b> Wet mount, concentration, permanent stain
<b>Reference Value</b>	No ova or parasites seen
<b>Interpretation</b>	ova or parasites seen
<b>Rejection Criteria</b>	<ol style="list-style-type: none"><li>1. Duplicate samples within 48 hours</li><li>2. Formed stool except (Food handler, Food poisoning, Outbreak investigation)</li><li>3. Specimens from Inpatient after the third day of admission: Certain exceptions will be applied (NCCCR patients, HIV patients and outbreak investigation initiated by Infection Control)</li><li>4. Prior consultation with a Microbiologist is needed if enteric pathogens are still suspected and the sample is needed to be tested</li></ol>
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038 / 1047

**Stool for Adenovirus and Rotavirus**

ITEM	PROCESS
Specimen	Clean leak proof wide mouth container 10-20 gm.
Transport Temperature	≤1 hr. at room temperature
Days test is performed	Daily
Turnaround time	8 - 24 hours
Method	Chromatographic immunoassay technique
Reference Value	Adenovirus: Negative Rotavirus: Negative
Interpretation	Adenovirus: Positive Rotavirus: Positive
Rejection Criteria	-
Performing Lab Location	AWH Microbiology- 40114189/90

**Stool for Clostridium difficile toxin**

ITEM	PROCESS
Specimen	Stool in sterile leak proof wide mouth container  ≥ 5ml
Transport Temperature	≤1 hr. at room temperature or ≤ 24h at 4°C
Days test is performed	Specimens accepted on all days.
Turnaround time	8 - 24 hours
Method	1. C. diff Quick Check Complete- Immunochromatography 2. GeneXpert C. difficile BT Assay- PCR
Reference Value	Clostridium difficile Toxin A&B: Negative
Interpretation	Clostridium difficile Toxin A&B: Positive  Positive results are called to the unit nurse In-charge and informed to Infection Control Practitioners
Rejection Criteria	<ul style="list-style-type: none"><li>• Formed/Hard stools</li><li>• Infant &lt; 1 year</li><li>• Patients with previous negative results within a week</li><li>• Patients with positive tests should not have repeated testing for cure before 28 days</li><li>• Specimens that have been in preservative</li></ul>
Performing Lab Location	AWH Microbiology- 40114189/90

**Stool for Shiga Toxin / Verotoxin (Enterohaemorrhagic E. coli) assay**

ITEM	PROCESS
Specimen	Stool in sterile leak proof wide mouth container  Bloody or liquid stools collected within 6 days of onset from patients with abdominal cramps have the highest yield.
Transport Temperature	≤1 hr. at room temperature or ≤ 24h at 4°C
Days test is performed	Specimens accepted on all days. Test performed on Tuesday in the morning only
Turnaround time	8-24 hrs
Method	Enzyme Immunoassay
Reference Value	Shiga Toxin (I/II) - Negative
Interpretation	Shiga Toxin (I/II) – Positive
Rejection Criteria	-
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology laboratory (Tel #44392038/ 1047)



**Stool for Helicobacter pylori antigens**

ITEM	PROCESS
Specimen	Stool in sterile leak proof wide mouth container  Test also can be used for treatment effectiveness, relapse or eradication.
Transport Temperature	≤1 hr. at room temperature or ≤ 72h at 2-8°C
Days test is performed	Specimens accepted on all days Test performed on Sunday, Tuesday & Thursday in the morning only
Turnaround time	8-24 hrs
Method	EIA: Enzyme Immunoassay
Reference Value	Helicobacter pylori Antigen – Negative
Interpretation	Helicobacter pylori Antigen – Positive
Rejection Criteria	-
Performing Lab Location	This test is not done in AWHL. Sent to Al-khor Microbiology (Tel# 44745189)

**Stool for occult blood**

ITEM	PROCESS
Specimen	Stool specimen in sterile screw cap container.  Avoid iron supplements, red meat, vitamin C, barium meal for 3days, if the recommended dietary preparation is not followed, it can cause analytical false positives.
Transport Temperature	≤2 hours at Room Temperature
Days test is performed	Daily
Turnaround time	8 - 24 hours
Method	Guaiac test (Hema screen kit)
Reference Value	Negative
Interpretation	Positive
Rejection Criteria	-
Performing Lab Location	AWH Microbiology- 40114189/90

### **Throat swab for routine culture**

ITEM	PROCESS
Specimen	Throat swab in Amies transport medium
Transport Temperature	≤2 hours at room temperature
Days test is performed	Daily
Turnaround time	<b>Culture:</b> 24-48 hrs.
Method	<b>Culture:</b> Aerobic / Anaerobic conditions
Reference Value	<b>Culture:</b> No growth or growth of normal upper respiratory flora.
Interpretation	Streptococcus Group A, C, G, and <i>Arcanobacterium haemolyticum</i> isolated.  <b>NOTE:</b> Gonococcal pharyngitis, Vincent's angina and screening for Meningococcal carriers will be done upon request.
Rejection Criteria	-
Performing Lab Location	AWH Microbiology- 40114189/90

## Tissue / biopsy for bacterial culture

ITEM	PROCESS
<b>Specimen</b>	Collect specimens aseptically in sterile container.  Any tissue requiring cultures should be sent fresh and not in formalin. Send a piece of necrotic tissue (and not the whole tissue removed during surgery).
<b>Transport Temperature</b>	≤2 hours at room temperature
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<b>Microscopy Stat:</b> 1-2 hours <b>Routine Microscopy:</b> 24-48 hours <b>Culture:</b> 48 hours-10 days
<b>Method</b>	<b>Microscopy:</b> Gram Stain <b>Culture:</b> Aerobic and Anaerobic
<b>Reference Value</b>	<b>Microscopy:</b> No organisms seen. <b>Culture:</b> No growth
<b>Interpretation</b>	<b>Microscopy:</b> Semi-quantitative report of WBCs, types of bacteria, fungus seen. <b>Culture:</b> All significant organisms, susceptibility testing performed.  Significant pathogens will be phoned to physicians.
<b>Rejection Criteria</b>	<ul style="list-style-type: none"> <li>• Specimen sent in formalin</li> <li>• Large piece of tissue removed during surgery</li> </ul>
<b>Performing Lab Location</b>	AWH Microbiology- 40114189/90

## Tissue / biopsy for AFB culture

ITEM	PROCESS
<b>Specimen</b>	Aseptically collected tissues in sterile containers without fixatives or preservatives. <b>Specify anatomic site</b>  >1g
<b>Transport Temperature</b>	≤2 hours at Room Temperature  If delay is anticipated, specimen should be protected from drying by adding sterile saline and maintaining a temperature of 2–8 °C.
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<b>Microscopy:</b> For positive smear- one hour after detection time. <b>Culture:</b> 42 days; when culture becomes positive the preliminary report is released within 24 hours of detection time.
<b>Method</b>	<b>Microscopy:</b> Auramine O and Ziehl-Neelsen <b>Culture:</b> BACTEC MGIT
<b>Reference Value</b>	<b>Microscopy:</b> No AFB seen. <b>Culture:</b> No growth / Culture contaminated / Unable to get pure culture / Fail to survive
<b>Interpretation</b>	<b>Microscopy:</b> Report Average no. of AFB / 100 fields  <b>Culture:</b> Growth of MTB complex with susceptibility to primary drugs SIRE or Growth of MOTT
<b>Rejection Criteria</b>	<ul style="list-style-type: none"> <li>• Tissue specimen sent in fixatives</li> </ul>
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 6671 / 6675

## Tissue / biopsy for fungal culture

ITEM	PROCESS
<b>Specimen</b>	Collect specimens aseptically in sterile container
<b>Transport Temperature</b>	≤2 hours at room temperature
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<b>Microscopy:</b> Same day. <b>Culture:</b> 48 hours-10 days
<b>Method</b>	<b>Microscopy:</b> Blankophor P Fluorescent <b>Culture:</b> 2 sets in Aerobic condition: 37°C and 25°C
<b>Reference Value</b>	<b>Microscopy:</b> No Fungal elements seen. <b>Culture:</b> No fungus isolated
<b>Interpretation</b>	<b>Microscopy:</b> Yeast like-cells seen, Yeast cells seen or fungal elements seen. <b>Culture:</b> Significant fungus isolates reported along with susceptibility results (for Candida only) when appropriate.  Significant fungal pathogens will be phoned to physicians
<b>Rejection Criteria</b>	<ul style="list-style-type: none"> <li>• Tissue specimen sent in fixatives</li> </ul>
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038

**Tissue / biopsy for ova and parasite examination**

ITEM	PROCESS
Specimen	Tissue / biopsy in sterile leak proof container <b>Specify anatomic Site</b>
Transport Temperature	≤15 min at Room Temperature
Days test is performed	Daily
Turnaround time	<b>Microscopy:</b> 24 hours
Method	<b>Microscopy:</b> Impression smear, H/E, Trichrome stain
Reference Value	No ova or parasites seen
Interpretation	Ova or parasites seen
Rejection Criteria	-
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038 / 1047

### **Tongue / oral cavity swab for fungal culture**

ITEM	PROCESS
Specimen	Collect specimens aseptically in sterile container
Transport Temperature	≤2 hours at room temperature
Days test is performed	Daily
Turnaround time	<b>Microscopy:</b> Same day. <b>Culture:</b> Not performed routinely, only on special request
Method	<b>Microscopy:</b> Blankophor P Fluorescent <b>Culture:</b> Aerobic condition: 37°C and 25°C
Reference Value	<b>Microscopy:</b> No Fungal elements seen. <b>Culture:</b> No fungus isolated
Interpretation	<b>Microscopy:</b> Yeast like-cells seen, Yeast cells seen or fungal elements seen. <b>Culture:</b> Significant fungus isolates reported along with susceptibility results (for Candida only) when appropriate.  Significant fungal pathogens will be phoned to physicians
Rejection Criteria	-
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038



## Urine Microscopy/reflex culture

ITEM	PROCESS
Specimen	Mid-stream urine specimen in sterile container.  Specify method of collection (Midstream, catheter, nephrostomy urine, cystoscopy urine, suprapubic bladder aspirate, etc.). > 5ml If collected in Boric acid container- 20 ml minimum
Transport Temperature	At room temperature. (Any delay, refrigeration 2-8°C is essential.) For > 2hrs delay, Boric acid container at room temperature (up to 24 hours)
Days test is performed	Daily.
Turnaround time	<b>Microscopy:</b> 8-24 hours <b>Culture:</b> 24-48 hours
Method	<b>Microscopy-</b> IRIS Automated Urine Microscopy Analyzer <b>Culture.</b> Semi-quantitative aerobic
Reference Value	<b>Microscopy.</b> <10 WBCs / $\mu$ L < 10 RBCs / $\mu$ L Cast & Crystals- absent Yeast- Absent Estimate the range of WBCs and RBCs.(per $\mu$ L) Record casts, crystals & yeast if present and state the type of casts & crystals. <b>Culture:</b> No growth.
Interpretation	<b>Microscopy.</b> <ul style="list-style-type: none"><li>Quantitative analysis of WBCs and RBCs</li><li>Casts and crystals if present and state type</li></ul> <b>Culture:</b> Significant isolates reported along with Susceptibility result when appropriate.
Rejection Criteria	<ul style="list-style-type: none"><li>Foley catheter tips</li><li>24hr urine specimens and urine from the bag of catheterized patients are unacceptable.</li><li>Delayed specimen more than 24hrs in Boric acid container or more than 2hrs in plain container without refrigeration.</li></ul>
Performing Lab Location	AWH Microbiology- 40114189/90

## Urine for AFB culture

ITEM	PROCESS
<b>Specimen</b>	<p>First morning specimen in sterile container (midstream is never advised). Collect urine specimen on 2 consecutive days.</p> <p>10-15 ml (prefer up to 40 ml)</p>
<b>Transport Temperature</b>	≤2 hours at Room Temperature
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<p><b>Microscopy:</b> For positive smear- one hour after detection time.</p> <p><b>Culture:</b> 42 days; when culture becomes positive the preliminary report is released within 24 hours of detection time.</p>
<b>Method</b>	<p><b>Microscopy:</b> Auramine O and Ziehl-Neelsen</p> <p><b>Culture:</b> BACTEC MGIT</p>
<b>Reference Value</b>	<p><b>Microscopy:</b> No AFB seen.</p> <p><b>Culture:</b> No growth / Culture contaminated / Unable to get pure culture / Fail to survive</p>
<b>Interpretation</b>	<p><b>Microscopy:</b> Report Average no. of AFB / 100 fields</p> <p><b>Culture:</b> Growth of MTB complex with susceptibility to primary drugs SIRE or growth of MOTT</p>
<b>Rejection Criteria</b>	<ul style="list-style-type: none"> <li>• 24 h pooled specimen</li> <li>• Urine from bag.</li> <li>• Urine received in Boric acid container.</li> </ul>
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 6671 / 6675

## Urine for ova and parasites

ITEM	PROCESS
Specimen	Collect urine in sterile container without Boric acid.  For <i>Schistosoma haematobium</i> , collect urine specimen between- noon to 3 pm.
Transport Temperature	≤ 2 hours at Room Temperature
Days test is performed	Daily
Turnaround time	<b>Microscopy:</b> 24 hours
Method	<b>Microscopy:</b> Wet mount
Reference Value	No ova / parasite seen
Interpretation	Ova / parasite seen
Rejection Criteria	<ul style="list-style-type: none"><li>• Request for more than three specimens for single episode</li><li>• Received Boric acid container</li></ul>
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038 / 1047

## Urine for Legionella Antigen

ITEM	PROCESS
Specimen	Urine in Sterile wide-mouth container
Transport Temperature	< 2 hours at room temperature or at 4-8°C for > 2hrs.
Days test is performed	Daily (Sun – Thu)
Turnaround time	8 - 24 hours
Method	Immunochromatographic card test
Reference Value	Legionella Antigen Detection: Negative
Interpretation	Legionella Antigen Detection: Positive Significant Results are called to the physician
Rejection Criteria	-
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology laboratory (Tel #44392038)

### **Vulval swab for culture**

ITEM	PROCESS
Specimen	Vulval swab in Amies transport medium  It is preferable to send two swabs- one for culture and one for microscopy.
Transport Temperature	≤2 hours at room temperature
Days test is performed	Daily
Turnaround time	<b>Microscopy:</b> 24-48 hrs. <b>Culture:</b> 48-72 hrs.
Method	<b>Microscopy:</b> Gram stain. <b>Culture:</b> Aerobic
Reference Value	<b>Gram Stain</b> - Normal vaginal flora <b>Culture-</b> Normal Vaginal flora
Interpretation	<b>Microscopy: Gram stain:</b> <ul style="list-style-type: none"><li>• Yeast with or without hyphal filaments</li><li>• Evidence of vaginitis- WBC's and organisms seen</li><li>• Culture: Significant isolates reported when appropriate.</li></ul>
Rejection Criteria	-
Performing Lab Location	AWH Microbiology- 40114189/90

## **Wound specimen for bacterial culture**

ITEM	PROCESS
<b>Specimen</b>	Wound swab in Amies transport medium. <b>Tissue or pus aspirate</b> in Sterile leak proof container, are always superior to a swab specimen; <b>Specify anatomic site</b>
<b>Transport Temperature</b>	≤2 hours at room temperature
<b>Days test is performed</b>	Daily.
<b>Turnaround time</b>	<b>Microscopy:</b> 24- 48 hours <b>Culture:</b> 48-72hrs
<b>Method</b>	<b>Microscopy:</b> Gram stain <b>Culture:</b> Aerobic / Anaerobic
<b>Reference Value</b>	<b>Microscopy:</b> No pus cells, No organisms seen <b>Culture:</b> No growth; presence of skin flora, or fecal flora.
<b>Interpretation</b>	<b>Microscopy:</b> Semi-quantitative report of WBCS, types of bacteria, fungi seen.  <b>Culture:</b> Significant isolates, susceptibly testing performed. Significant results are informed to physician  Superficial wound swabs are not cultured for anaerobes.
<b>Rejection Criteria</b>	<ul style="list-style-type: none"><li>• Aspirate received in syringe. with needle attached</li></ul>
<b>Performing Lab Location</b>	AWH Microbiology- 40114189/90

## Wound specimen for AFB culture

ITEM	PROCESS
<b>Specimen</b>	<p>Tissue or pus aspirate in sterile leak proof container without fixative or preservative</p> <p>Collect aseptically, and avoid indigenous micro biota. Select caseous portion if available as the majority of organisms will be found in the periphery of a caseous lesion. Freezing decreases yield. If specimen received is Swabs, only Microscopy will be done. Tissue or pus aspirate are always superior to a swab specimen</p> <p>(Specimen collected should be as large as possible)</p> <p><b>Specify anatomic site</b></p> <p>&gt; 1 ml or &gt; 1 gm.</p>
<b>Transport Temperature</b>	≤2 hours at Room Temperature
<b>Days test is performed</b>	Daily
<b>Turnaround time</b>	<p><b>Microscopy:</b> For positive smear- one hour after detection time.</p> <p><b>Culture:</b> 42 days; when culture becomes positive the preliminary report is released within 24 hours of detection time.</p>
<b>Method</b>	<p><b>Microscopy:</b> Auramine O and Ziehl-Neelsen</p> <p><b>Culture:</b> BACTEC MGIT</p>
<b>Reference Value</b>	<p><b>Microscopy:</b> No AFB seen.</p> <p><b>Culture:</b> No growth / Culture contaminated / Unable to get pure culture / Fail to survive</p>
<b>Interpretation</b>	<p><b>Microscopy:</b> Report Average no. of AFB / 100 fields</p> <p><b>Culture:</b> Growth of MTB complex with susceptibility to primary drugs SIRE or Growth of MOTT</p>
<b>Rejection Criteria</b>	<ul style="list-style-type: none"> <li>• Specimens in fixatives or preservatives e.g. tissue Specimen submitted in formalin</li> <li>• Specimen for culture, submitted in un-sterile containers.</li> <li>• One swab for multiple requests, for example, for various organisms (bacteria, AFB, Fungi, and Virus etc.)</li> </ul>
<b>Performing Lab Location</b>	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 6671 / 6675

## Wound swabs for fungal culture

ITEM	PROCESS
Specimen	Wound swab in Amies transport medium. <b>Tissue or pus aspirate</b> in Sterile leak proof container, are always superior to a swab specimen; <b>Specify anatomic site</b>
Transport Temperature	≤2 hours at room temperature
Days test is performed	Daily
Turnaround time	<b>Microscopy:</b> In many cases swabs are not suitable for direct microscopy. <b>Culture:</b> 48 hours-1 week
Method	<b>Microscopy:</b> Blankophor P Fluorescent <b>Culture:</b> 2 set in Aerobic condition: 37°C and 25°C.
Reference Value	<b>Microscopy:</b> No Fungal elements seen. <b>Culture:</b> No fungus isolated
Interpretation	<b>Microscopy:</b> Yeast like-cells seen, Yeast cells seen or fungal elements seen. <b>Culture:</b> Significant fungus isolates reported along with Susceptibility results (for Candida only) when appropriate.  Significant fungal pathogens will be phoned to physicians
Rejection Criteria	-
Performing Lab Location	This test is not done in AWHL. Sent to HMC Microbiology Laboratory Ext. # 44392038