

## Acceptability of Specimens

---

The Department of Laboratories has the right not to send back specimens it deems unacceptable. These include:

1. Mislabeled specimens
2. Incompletely filled up Request Form or wrong Request Form
3. Amount of specimen insufficient for test requested (QNS – quality not sufficient)
4. Hemolyzed blood specimens
5. Inappropriate preservative or anticoagulant used
6. Inappropriate specimen submitted for the test requested
7. Improperly collected, handled and transported specimens
8. Contaminated specimens
9. Protracted time elapsed since collection
10. Laboratory test requested is unavailable

Unaccepted or unsuitable specimens are returned to their originating units for rectification. Please call the laboratory and speak to the technologist or resident on duty for any questions or clarifications regarding the rejected specimen.

## Releasing of Results

---

In-patient results (Pay and Charity) are only released to Ward personnel, physicians, interns and clerks.

Outpatient (OPD) results are released directly to the requesting outpatient clinic.

Out-Pay results are released to patients, their relatives, or their representative upon proper identification.

The Laboratory does not release results by phone.

The Pathology Resident on Duty or Medical Technologist on Duty may call units whose patients have critical laboratory values to investigate and relay results.

# Stat Examinations

As identified by the UP-PGH Task Force on Hospital Diagnostics, the following laboratory examinations are the only tests to be requested as “STAT”:

LABORATORY PROCEDURE	SECTION	TURN-AROUND TIME UPON RECEIPT OF SPECIMEN BY THE CORRESPONDING SECTION*
Blood Typing	Blood Bank	30 minutes
Cross-matching	Blood Bank	Not more than 1 hour
Stat urine examinations <ul style="list-style-type: none"> <li>• Ketone</li> <li>• pH</li> <li>• protein (qualitative)</li> <li>• specific gravity</li> <li>• sugar (qualitative)</li> </ul>	Clinical Microscopy	30 minutes
Urinalysis	Clinical Microscopy	1 hour
Pregnancy Test	Clinical Microscopy	1 hour
Gram stain	Microbiology	1 hour
CBC	Hematology	1 hour
PT/aPTT	Hematology	1 hour
Electrolytes	Clinical Chemistry	1 hour
BUN	Clinical Chemistry	1 hour
Creatinine	Clinical Chemistry	1 hour
Sugar	Clinical Chemistry	1 hour
ALT/AST	Clinical Chemistry	1 hour
Bilirubin (Total/Direct/Indirect)	Clinical Chemistry	1 hour
Troponin I	Clinical Chemistry	1 hour
Total CK, CK-MB	Clinical Chemistry	1 hour
Qualitative/Quantitative Examinations of body fluids	Clinical Microscopy/ Clinical Chemistry	2 hours

\*STAT specimens may be subject to holdup depending on the amount of specimens processed in the section at a given time.

In accordance with the 2001 edition of the PGH Guide to Diagnostic Examinations, to prevent abuse and misuse of “STAT” examinations, the following guidelines are reiterated:

1. “STAT” Request Forms will require a stamp indicating the word “STAT” and certified by the consultant in charge, senior resident of the service or chief resident.
2. Additional surcharges may be appropriated by the Laboratory for processing “STAT” requests.
3. “STAT” examinations are only made available for patients in the DEMS, OBAS, ICUs and ORs, and may be extended to other units on a case-to-case basis.

LABORATORY PROCEDURE	CONTAINER	SPECIMEN/ QUANTITY	PREPARATION	SCHEDULE OF EXAMINATION	RELEASING OF RESULTS
ABO & Rh Typing	Purple top (EDTA anticoagulant)	Whole blood, 3-5cc	Fasting not necessary	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 6pm for non-emergency</li> </ul>	Non-emergency 4 hours upon receipt of specimen. Stat results in 20 minutes.
Antibody screening	Purple top (EDTA anticoagulant)	Whole blood, 3-5cc	Fasting not necessary	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 6pm for non-emergency</li> </ul>	
Direct Coombs' Test	Purple top (EDTA anticoagulant)	Whole blood, 3-5cc	Fasting not necessary	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 6pm for non-emergency</li> </ul>	
Cross-matching	Purple top (EDTA anticoagulant)	Whole blood, 3-5cc	Fasting not necessary	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 6pm for non-emergency</li> </ul>	

Note: Pediatric patients may use microtainer with minimum specimen volume as follows:

- <6 months: 1 mL
- >6 months 2 mL

All specimens must be at most 2 days post-extraction.

## Other services

PROCEDURE	PATIENT PREPARATION	SCHEDULING
Blood Donor Services	Please refer to PGH donor screening criteria	Daily, 7 AM to 4:30 PM
Autologous donation (self-donation)	Fasting not necessary	As per order by attending /RIC
Plasmapheresis	Fasting not necessary	Upon notification by Medical specialist/RIC (Hematologist)
Platelet pheresis	Fasting not necessary	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 6pm</li> </ul>

LABORATORY PROCEDURE	CONTAINER	SPECIMEN/ QUANTITY	PREPARATION	SCHEDULE OF EXAMINATION	RELEASING OF RESULTS
Fasting Blood Sugar (FBS)	Red top, plain test tube	Serum, 3-5ml	At least 8-hour fasting	24 hours	Within 3 hours upon receipt
Random Blood Sugar (RBS)	Red top, plain test tube	Serum, 3-5ml	Fasting not necessary	24 hours	Within 3 hours upon receipt
2 hour Post Prandial Glucose	Red top, plain test tube	Serum, 3-5ml	Extraction done after 2 hours of food intake	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Please schedule</li> </ul>	Within 3 hours of last extraction
Oral Glucose Tolerance Test <ul style="list-style-type: none"> <li>• 100g</li> <li>• 75g</li> <li>• 50g</li> </ul>	Red top, plain test tube	Serum, 3-5ml	At least 8 hour fasting, extraction done at 1 hour intervals	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Please schedule</li> <li>• No extraction done beyond 9 am</li> </ul>	Within 3 hours of last extraction
Oral Glucose Challenge Test	Red top, plain test tube	Serum, 3-5ml	Fasting not necessary, extraction done after 1 hour of glucose intake	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Please schedule</li> </ul>	Within 3 hours upon receipt
Hb1Ac (Glycosylated Hemoglobin)	Purple top, EDTA anti-coagulant	3-5ml	Fasting not necessary	24 hours	After 24 hours; may be earlier
Potassium	Red top, plain test tube	Serum, 3-5ml	Fasting not necessary	24 hours	Within 3 hours upon receipt
Sodium	Red top, plain test tube	Serum,	Fasting not necessary	24 hours	
Chloride	Red top, plain test tube	3-5ml	Fasting not necessary	24 hours	
Magnesium	Red top, plain test tube	Serum, 3-5ml	Fasting not necessary	24 hours	<ul style="list-style-type: none"> <li>• Within 3 hours upon receipt</li> <li>• Stat results in 2 hours</li> </ul>
Phosphorus	Red top, plain test tube	Serum, 3-5ml	Fasting not necessary	24 hours	<ul style="list-style-type: none"> <li>• Within 3 hours upon receipt</li> <li>• Stat results in 2 hours</li> </ul>

Potassium, plasma	Green top, heparin anti-coagulant	Plasma, 3-5ml	<ul style="list-style-type: none"> <li>• Fasting not necessary</li> <li>• No exercise (e.g. clenching of fists)</li> </ul>	24 hours	Within 3 hours upon receipt
Calcium, ionized	Green top, heparin anti-coagulant	Plasma, 3-5ml	<ul style="list-style-type: none"> <li>• Fasting not necessary</li> <li>• Must be submitted within 20 min to the Chem Section once extracted</li> </ul>	24 hours	Within 2 hours upon receipt
Blood Urea Nitrogen (BUN)	Red top, plain test tube	Serum, 3-5ml	Fasting not necessary	24 hours	<ul style="list-style-type: none"> <li>• Within 3 hours upon receipt</li> <li>• Stat results in 2 hours</li> </ul>
Creatinine	Red top, plain test tube	Serum, 3-5ml	Fasting not necessary	24 hours	<ul style="list-style-type: none"> <li>• Within 3 hours upon receipt</li> <li>• Stat results in 2 hours</li> </ul>
Uric Acid (BUA)	Red top, plain test tube	Serum, 3-5ml	Fasting not necessary	24 hours	Within 3 hours upon receipt
Lipid profile <ul style="list-style-type: none"> <li>• Total Cholesterol</li> <li>• Triglycerides</li> <li>• HDL</li> <li>• LDL</li> </ul>	Red top, plain test tube	Serum, 3-5ml	At least 12-hour fasting, water is allowed but sips only	24 hours	Within 3 hours upon receipt
SGPT (ALT)	Red top, plain test tube	Serum, 3-5ml	Fasting not necessary	24 hours	Within 3 hours upon receipt
SGOT (AST)	Red top, plain test tube	Serum, 3-5ml	Fasting not necessary	24 hours	Within 3 hours upon receipt
LDH	Red top, plain test tube	Serum, 3-5ml	Fasting not necessary	24 hours	Within 3 hours upon receipt
ALP (Alkaline phosphatase)	Red top, plain test tube	Serum, 3-5ml	Fasting not necessary	24 hours	Within 3 hours upon receipt
Lipase	Red top, plain test tube	Serum, 3-5ml	Fasting not necessary	24 hours	Within 3 hours upon receipt
Amylase	Red top, plain test tube	Serum, 3-5ml	Fasting not necessary	24 hours	Within 3 hours upon receipt

Bilirubin <ul style="list-style-type: none"> <li>• Total</li> <li>• Direct</li> <li>• Indirect</li> </ul>	Red top, plain test tube	Serum, 3-5ml	<ul style="list-style-type: none"> <li>• Fasting not necessary</li> <li>• Must be submitted immediately to the Chem Section once extracted</li> <li>• Specimen vial must be wrapped in carbon paper</li> </ul>	24 hours	Within 3 hours upon receipt
Serum Protein <ul style="list-style-type: none"> <li>• Albumin</li> <li>• Globulin</li> <li>• A/G ratio</li> </ul>	Red top, plain test tube	Serum, 3-5ml	Fasting not necessary	24 hours	Within 3 hours upon receipt
<ul style="list-style-type: none"> <li>• CK Total</li> <li>• CK-MB</li> </ul>	Red top, plain test tube	Serum, 3-5ml	<ul style="list-style-type: none"> <li>• Fasting not necessary</li> <li>• Must be submitted immediately to the Chem Section once extracted</li> </ul>	24 hours	<ul style="list-style-type: none"> <li>• Within 3 hours upon receipt</li> <li>• Stat results in 2 hours</li> </ul>
Hepatitis rapid screening <ul style="list-style-type: none"> <li>• Hep B</li> <li>• Hep C</li> </ul>	Red top, plain test tube	Serum, 3-5ml	Fasting not necessary	24 hours	Within 2 hours upon receipt
Drug Assay <ul style="list-style-type: none"> <li>• Acetaminophen</li> <li>• GGT</li> <li>• Phenobarbital</li> </ul>	Red top, plain test tube	Serum, 3-5ml	Fasting not necessary	<ul style="list-style-type: none"> <li>• Daily; Must be approved by the Med Tech on duty</li> </ul>	Within 3 hours upon receipt
TCO2	Red top, plain test tube	Serum, 3-5ml	Fasting not necessary	24 hours	Within 3 hours upon receipt
Ammonia	Green top, heparin anti-coagulant	Plasma, 3-5ml	<ul style="list-style-type: none"> <li>• Fasting not necessary</li> <li>• Must be submitted within 15 min to the Chem Section once extracted</li> </ul>	24 hours	Within 3 hours upon receipt

*Note: Specimen volume provided is the minimum to run a specimen. Each test will need 30-50 microliters of serum. All specimens must be sent within 2 hours of extraction.*

## Body Fluid Chemistry

LABORATORY PROCEDURE	CONTAINER	SPECIMEN/ QUANTITY	PREPARATION	SCHEDULE OF EXAMINATION	RELEASING OF RESULTS
24 hour Urine Chemistry <ul style="list-style-type: none"> <li>• Sodium</li> <li>• Potassium</li> <li>• Chloride</li> <li>• Total Protein</li> <li>• Creatinine</li> <li>• Uric Acid</li> <li>• Urine Nitrogen</li> <li>• Calcium</li> <li>• Magnesium</li> <li>• Phosphorus</li> </ul>	Clean, dry container	24 hour urine	Indicate time started of collection	Monday to Friday except holidays	Within 4 hours upon receipt
Random Urine Chemistry <ul style="list-style-type: none"> <li>• Sodium</li> <li>• Potassium</li> <li>• Chloride</li> <li>• Total Protein</li> <li>• Creatinine</li> <li>• Uric Acid</li> <li>• Urine Nitrogen</li> <li>• Calcium</li> <li>• Magnesium</li> <li>• Phosphorus</li> </ul>	Clean, dry container	Urine, at least 10ml	Freshly voided early morning or random midstream urine sample	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 11am, 7pm, 3am</li> </ul>	Within 4 hours upon receipt
CSF Chemistry <ul style="list-style-type: none"> <li>• Total protein</li> <li>• Albumin</li> <li>• Sugar</li> <li>• LDH</li> <li>• Amylase</li> </ul>	Clean, dry container	CSF, at least 3ml	Indicate test	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 11am, 7pm, 3am</li> </ul>	Within 4 hours upon receipt
Other body fluids	Clean, dry container	At least 3ml	Indicate test	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 11am, 7pm, 3am</li> </ul>	Within 4 hours upon receipt

*Note: Specimen volume provided is the minimum to run a specimen. Each test will need 30-50 microliters of fluid. All specimens must be sent within 2 hours of extraction.*

## Urine Examinations

LABORATORY PROCEDURE	CONTAINER	SPECIMEN/ QUANTITY	PREPARATION	SCHEDULE OF EXAMINATION	RELEASING OF RESULTS
Urinalysis • Chemical examination ◇ pH ◇ Albumin ◇ Sugar ◇ Specific gravity ◇ Ketone ◇ Bilirubin ◇ Uro-bilinogen ◇ Hemo-globin ◇ Leukocyte ◇ Nitrite • Physical examination • Sediment analysis	Clean, dry container	Urine, at least 10ml	Freshly voided early morning or random midstream urine sample	24 hours	Within 1 hour upon receipt using flow cytometry (automated) method, or Within 2 hours upon receipt using manual method
RBC morphology, urine	Clean, dry container	Urine, at least 10ml	Freshly voided early morning or random midstream urine sample	24 hours	Within 2 hours upon receipt
Pregnancy Test	Clean, dry container	Urine, at least 10ml	Freshly voided early morning or random midstream urine sample	24 hours	Within 2 hours upon receipt
Stat urine examinations • Ketone • pH • protein (qualitative) • specific gravity • sugar (qualitative)	Clean, dry container	Urine, at least 10ml	Freshly voided early morning or random midstream urine sample	24 hours	Within 30 minutes upon receipt
Hemosiderin	Clean, dry container	Urine, at least 10ml	Freshly voided early morning or random midstream urine sample	24 hours	Within 2 hours upon receipt



## Stool Examinations

LABORATORY PROCEDURE	CONTAINER	SPECIMEN/ QUANTITY	PREPARATION	SCHEDULE OF EXAMINATION	RELEASING OF RESULTS
Fecalysis	Clean, dry, wide mouth container	<ul style="list-style-type: none"> <li>• 10g if solid</li> <li>• 10ml if watery</li> </ul>	<ul style="list-style-type: none"> <li>• Specimen must not be contaminated with urine/water</li> <li>• Use clean stick for collection</li> </ul>	24 hours	Within 2 hours upon receipt
FECT (Formalin Ether Concentration Technique)	Clean, dry, wide mouth container	<ul style="list-style-type: none"> <li>• 10g if solid</li> <li>• 10ml if watery</li> </ul>	<ul style="list-style-type: none"> <li>• Specimen must not be contaminated with urine/water</li> </ul>	24 hours	Within 2 hours upon receipt
Stool Exam for Cryptosporidium / Giardia Lamblia Antigen	Clean, dry wide mouth container with cap and label	<ul style="list-style-type: none"> <li>• 10 g if solid</li> <li>• 10 mL if watery</li> </ul>	<ul style="list-style-type: none"> <li>• Freshly collected stool</li> <li>• Specimen must not be contaminated with urine/water</li> </ul>	24 hours	Within one (1) hour upon receipt or 30 minutes if STAT
Stool Exam for E. Histolytica Antigen.	Clean, dry wide mouth container with cap and label	<ul style="list-style-type: none"> <li>• 10 g if solid</li> <li>• 10 mL if watery</li> </ul>	<ul style="list-style-type: none"> <li>• Freshly collected stool</li> <li>• Specimen must not be contaminated with urine/water</li> </ul>	24 hours	Within one (1) hour upon receipt or 30 minutes if STAT
Rotavirus Antigen Stool Test	Clean, dry wide mouth container with cap and label	<ul style="list-style-type: none"> <li>• 10 g if solid</li> <li>• 10 mL if watery</li> </ul>	<ul style="list-style-type: none"> <li>• Freshly collected stool</li> <li>• Specimen must not be contaminated with urine/water</li> </ul>	24 hours	Within one (1) hour upon receipt or 30 minutes if STAT
Immunochemical Fecal Occult Blood Test (iFOBT)	Clean, dry wide mouth container with cap and label	<ul style="list-style-type: none"> <li>• 10 g if solid</li> <li>• 10 mL if watery</li> </ul>	<ul style="list-style-type: none"> <li>• Freshly collected stool</li> <li>• Specimen must not be contaminated with urine/water</li> <li>• No dietary preparation needed</li> </ul>	24 hours	Within one (1) hour upon receipt or 30 minutes if STAT

Occult Blood (FOBT; Guaiac Peroxidase Method)	Clean, dry, wide mouth container with cap and label	<ul style="list-style-type: none"> <li>• 10 g if solid</li> <li>• 10 mL if watery</li> </ul>	<ul style="list-style-type: none"> <li>• Freshly collected stool</li> <li>• Specimen must not be contaminated with urine or water</li> <li>• Preferably patient must not have eaten any red meat for three (3) days</li> </ul>	24 hours	Within one (1) hour upon receipt or 30 minutes if STAT
---	---	--	--	----------	--

### Semen Examination

LABORATORY PROCEDURE	CONTAINER	SPECIMEN/ QUANTITY	PREPARATION	SCHEDULE OF EXAMINATION	RELEASING OF RESULTS
Semenalysis	Clean, dry, wide mouth container	Semen, whole volume	3 to 5 days of no sexual contact or ejaculation of semen	24 hours	Within 4 hours upon receipt

### Other Body Fluids Examinations

LABORATORY PROCEDURE	CONTAINER	SPECIMEN/ QUANTITY	PREPARATION	SCHEDULE OF EXAMINATION	RELEASING OF RESULTS
Body Fluid examination <ul style="list-style-type: none"> <li>• pH</li> <li>• Specific gravity</li> <li>• WBC count</li> <li>• Differential count</li> <li>• RBC count</li> <li>• RBC morphology</li> </ul>	Clean, dry container	<ul style="list-style-type: none"> <li>• CSF</li> <li>• Peritoneal fluid</li> <li>• Pleural fluid</li> </ul>	None	24 hours	Within 2 hours upon receipt
Synovial Fluid examination <ul style="list-style-type: none"> <li>• pH</li> <li>• Specific gravity</li> <li>• WBC count</li> <li>• Differential count</li> <li>• RBC count</li> <li>• RBC morphology</li> </ul>	Green top, heparin anti-coagulant	Synovial fluid	None	24 hours	Within 2 hours upon receipt

Vaginal washing examination	Clean, dry container	Vaginal washing		24 hours	Within 2 hours upon receipt
Ferning Test	Clean, dry slides	Vaginal discharge	Done at the wards	24 hours	Within 2 hours upon receipt

### Urinary or Kidney Stone Analysis

LABORATORY PROCEDURE	CONTAINER	QUANTITY	PREPARATION	SCHEDULE OF EXAMINATION	RELEASING OF RESULTS
Urinary or Kidney Stone analysis	Clean, dry container	Entire specimen	None	24 hours	Within 4 hours upon receipt

LABORATORY PROCEDURE	CONTAINER	SPECIMEN/ QUANTITY	PREPARATION	SCHEDULE OF EXAMINATION	RELEASING OF RESULTS
Activated Partial Thromboplastin Time (aPTT)	Blue top, 3.2% Sodium citrate anti-coagulant	Whole blood, quantity depends on container	Identify if patient is taking anti-coagulant medication	<ul style="list-style-type: none"> <li>• 24 hours</li> </ul>	<ul style="list-style-type: none"> <li>• Within 2 hours upon receipt</li> <li>• Stat results in 1 hour</li> </ul>
Complete Blood Count (CBC) <ul style="list-style-type: none"> <li>• WBC count</li> <li>• Differential Count</li> <li>• Red Cell Count</li> <li>• Hemoglobin</li> <li>• Hematocrit (Hct)</li> <li>• Mean Cell Volume (MCV)</li> <li>• Mean Cell Hemoglobin (MCH)</li> <li>• Mean Cell Hemoglobin Concentration (MCHC)</li> <li>• RDW</li> <li>• Platelet Count (Plt)</li> </ul>	Purple top, EDTA anti-coagulant	Whole blood, quantity depends on container	None	<ul style="list-style-type: none"> <li>• 24 hours</li> </ul>	<ul style="list-style-type: none"> <li>• Within 2 hours upon receipt</li> <li>• Stat results in 30 minutes</li> </ul>
Erythrocyte Sedimentation Rate (ESR)	Purple top, EDTA anti-coagulant	Whole blood, quantity depends on container	None	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 3pm</li> </ul>	<ul style="list-style-type: none"> <li>• Within 4 hours upon receipt</li> </ul>
Filarial Smear	Purple top, EDTA anti-coagulant	Whole blood, quantity depends on container	Collection should be between 10pm to 3am	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 3am</li> </ul>	<ul style="list-style-type: none"> <li>• Within 4 hours upon receipt</li> </ul>
Hematocrit (Hct)	Purple top, EDTA anti-coagulant	Whole blood, quantity depends on container	None	<ul style="list-style-type: none"> <li>• 24 hours</li> </ul>	<ul style="list-style-type: none"> <li>• Within 2 hours upon receipt</li> <li>• Stat results in 30 minutes</li> </ul>

Hemoglobin (Hgb)	Purple top, EDTA anti-coagulant	Whole blood, quantity depends on container	None	<ul style="list-style-type: none"> <li>• 24 hours</li> </ul>	<ul style="list-style-type: none"> <li>• Within 2 hours upon receipt</li> <li>• Stat results in 30 minutes</li> </ul>
LE Cell Preparation	LE vial with glass beads, or plain tube	Whole blood, quantity depends on container	None	<ul style="list-style-type: none"> <li>• Mondays to Fridays except holidays</li> <li>• Cut off time: 10am</li> </ul>	After 3pm
Malarial Smear	Purple top, EDTA anti-coagulant	Whole blood, quantity depends on container	None	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 12nn, 7pm, 3am</li> </ul>	Within 4 hours upon receipt
Peripheral Blood Smear Examination	Purple top, EDTA anti-coagulant	Whole blood, quantity depends on container	None	<ul style="list-style-type: none"> <li>• 24 hours</li> </ul>	Within 4 hours upon receipt
Platelet Count	Purple top, EDTA anti-coagulant	Whole blood, quantity depends on container	None	<ul style="list-style-type: none"> <li>• 24 hours</li> </ul>	<ul style="list-style-type: none"> <li>• Within 2 hours upon receipt</li> <li>• Stat results in 30 minutes</li> </ul>
Prothrombin Time (PT)	Blue top, 3.2% Sodium citrate anti-coagulant	Whole blood, quantity depends on container	Identify if patient is taking anti-coagulant medication	<ul style="list-style-type: none"> <li>• 24 hours</li> </ul>	<ul style="list-style-type: none"> <li>• Within 2 hours upon receipt</li> <li>• Stat results in 1 hour</li> </ul>
Reticulocyte Count	Purple top, EDTA anti-coagulant	Whole blood, quantity depends on container	None	<ul style="list-style-type: none"> <li>• 24 hours</li> </ul>	Within 2 hours upon receipt
Toxic Granulation Detection	Purple top, EDTA anti-coagulant	Whole blood, quantity depends on container	None	<ul style="list-style-type: none"> <li>• 24 hours</li> </ul>	Within 4 hours upon receipt

## Special Procedures

PROCEDURE	PATIENT PREPARATION	SCHEDULING
Bleeding Time (Ivy Method)	<ul style="list-style-type: none"> <li>• Done by Interns in the Charity Wards</li> <li>• Done by Phlebotomists in OPD, OEL and Pay Wards</li> </ul>	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 12nn, 7pm, 3am</li> </ul>
Clot Retraction Time (CRT)	<ul style="list-style-type: none"> <li>• Done by Interns in the Charity Wards</li> <li>• Done by Phlebotomists in OPD, OEL and Pay Wards</li> </ul>	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 12nn, 7pm, 3am</li> </ul>
Clotting Time	<ul style="list-style-type: none"> <li>• Done by Interns in the Charity Wards</li> <li>• Done by Phlebotomists in OPD, OEL and Pay Wards</li> </ul>	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 12nn, 7pm, 3am</li> </ul>
Osmotic Fragility Test (OFT)	Done at the OPD	By schedule

## Body Fluids Automated Analysis

LABORATORY PROCEDURE	CONTAINER	SPECIMEN/ QUANTITY	PREPARATION	SCHEDULE OF EXAMINATION	RELEASING OF RESULTS
Differential Count	Plain tube	<ul style="list-style-type: none"> <li>• CSF</li> <li>• Peri-toneal fluid</li> <li>• Pleural fluid</li> </ul>	None	24 hours	Within 4 hours upon receipt
WBC Count	Plain tube	<ul style="list-style-type: none"> <li>• CSF</li> <li>• Peri-toneal fluid</li> <li>• Pleural fluid</li> </ul>	None	24 hours	Within 4 hours upon receipt
RBC Count	Plain tube	<ul style="list-style-type: none"> <li>• CSF</li> <li>• Peri-toneal fluid</li> <li>• Pleural fluid</li> </ul>	None	24 hours	Within 4 hours upon receipt
Hematocrit	Plain tube	<ul style="list-style-type: none"> <li>• CSF</li> <li>• Peri-toneal fluid</li> <li>• Pleural fluid</li> </ul>	None	24 hours	Within 4 hours upon receipt

*Note on Testing Volume: Actual volume per test run is 165  $\mu$ L for CBC, and 50  $\mu$ L for PT/PTT, however, volume requirement depends on the type/brand of tube used, due to need for proper dilution of blood with anticoagulant. Over or underfilled vials will result in discrepancy of results due to an indirect anticoagulant to blood ratio.*

# Immunopathology

Room 1, Central Laboratory, Local 3204

LABORATORY PROCEDURE	CONTAINER	SPECIMEN/ QUANTITY	PREPARATION	SCHEDULE OF EXAMINATION	RELEASING OF RESULTS
<b>TUMOR MARKERS</b>				<ul style="list-style-type: none"> <li>• Daily except Sundays</li> <li>• Cut off time: Weekdays 3pm Saturday 4 pm</li> </ul>	Results of specimens received before cut off time will be available 3-4 hours after receipt. Those that did not make it to the cut-off time will have their results available the next day.
AFP (Alpha Feto-Protein) Quali/Quanti	Red top, plain test tube	Serum, 3 ml (if submitted for only one test; if multiple tests will be done, submit 5 ml)	Fasting not necessary		
tPSA (Total Prostate-Specific Antigen) (Diluted or undiluted)					
CEA (Carcinoembryonic Antigen) (Diluted or undiluted)					
CA 125 (Diluted or undiluted)					
CA 19-9 (Diluted or undiluted)					
CA 15-3					
HE4 (Human Epididymis Protein 4)					
<b>ANEMIA</b>					
Ferritin Quali/Quanti	Red top, plain test tube	Serum, 3 ml	Fasting not necessary		
<b>FERTILITY/PREGNANCY</b>					
Beta HCG (Diluted or undiluted)	Red top, plain test tube	Serum, 3 ml	Fasting not necessary		
<b>THYROID</b>					
TSH	Red top, plain test tube	Serum, 3 ml	Fasting not necessary		
Free T3					
Free T4					
<b>HEPATITIS</b>					
HBs-Ag	Red top, plain test tube	Serum, 3ml	Fasting not necessary		
Anti-HBs					
Anti-HBc Total					
Anti-HBc IgM					
HBe-Ag					
Anti-HBe					
Anti-HAV (IgM)					
Anti-HCV					

Hepatitis B Profile (HBsAg, Anti-HBs, Anti-HBc total, Anti-HBc IgM, HBeAg, Anti-HBe)		Serum, 5ml			
Hepatitis Profile (HBsAg, Anti-HBs, Anti-HBc total, Anti-HBc IgM, HBeAg, Anti-HBe, Anti-HAV IgM, Anti-HCV)		Serum, 5ml			
TORCH (Toxo IgG, Toxo IgM, Rubella IgG, Rubella IgM, CMV IgG, CMV IgM, HSV 1 IgG, HSV 2 IgG)	Red top, plain test tube	Serum, 5ml	Fasting not necessary	<ul style="list-style-type: none"> <li>• Daily except Sundays</li> <li>• Cut off time: weekdays 11 am Saturday 12 noon</li> </ul>	Results of specimens received before cut off time will be available by 4-4:30 pm on the same day of specimen receipt. Those that did not make it to the cut-off time will have their results available the next day by 4-4:30 pm.
Toxo IgG	Red top, plain test tube	Serum, 3 ml	Fasting not necessary	<ul style="list-style-type: none"> <li>• Daily except Sundays</li> <li>• Cut off time: Weekdays 3pm Saturday 4 pm</li> </ul>	Results of specimens received before cut off time will be available 3-4 hours after receipt. Those that did not make it to the cut-off
Toxo IgM					
Rubella IgG					
Rubella IgM					
CMV IgG					



CMV IgM					time will have their results available the next day.
Syphilis					
<b>CARDIAC MARKER</b>					
Troponin I HS (Quantitative)	Red top, plain test tube	Serum, 3-5ml	Fasting not necessary	24/7	1-2 hours after specimen receipt
<b>TEST</b>					
HIV Ag/Ab	Red top, plain test tube	Serum, 5 ml	Refer to SAGIP Unit for patient confidentiality	<ul style="list-style-type: none"> <li>Daily except Sundays</li> <li>Cut off time: Weekdays 3pm Saturday 4 pm</li> </ul>	c/o SAGIP Unit
<b>ELISA</b>					
HSV 1 IgG	Red top, plain test tube	Serum, 3 ml	Fasting not necessary	<ul style="list-style-type: none"> <li>Daily except Sundays</li> <li>Cut off time: Weekdays 11 am Saturday 12 noon</li> </ul>	Results of specimens received before cut off time will be available 3-4 hours after receipt. Those that did not make it to the cut-off time will have their results available the next day by 4-4:30 pm.
HSV 2 IgG					
Dengue IgG/IgM					
Salmonella IgG/IgM					
Varicella IgG					
Mumps IgG					
MMR (Mumps IgG, Measles IgG, Rubella IgG)	Serum, 3-5ml				
Rubeola/Measles IgG	Serum, red top plain vial CSF, clean, dry, sterile contained	Serum, 3 ml CSF, 1ml			
<b>SEROLOGY</b>					
Anti-Streptolysin- O (ASO) Titer	Red top, plain test tube	Serum, 3 ml	Fasting not necessary	<ul style="list-style-type: none"> <li>Daily except Sundays</li> <li>Cut off time: Weekdays 3pm Saturday 4pm</li> </ul>	Results of specimens received before cut off time will be available 3-4 hours after receipt. Those that did not make it to the cut-off
C-Reactive Protein (CRP)					
Rheumatoid Factor (RF)					
Rapid Plasma Reagin (RPR) Quali/Quanti					
<b>RAPID TESTING</b>					
Dengue NS1 Ag	Red top, plain test tube	Serum, 3 ml	Fasting not necessary		
Leptospira IgG/IgM					

<b>CSF</b>					time will have their results available the next day.
Cryptococcal Antigen Latex Agglutination System (CALAS)	Clean, dry, sterile container	CSF, 3 ml	Fasting not necessary		
CSF Bactigen					

LABORATORY PROCEDURE	CONTAINER	SPECIMEN/ QUANTITY	PREPARATION	SCHEDULE OF EXAMINATION	RELEASING OF RESULTS
Acid Fast Bacilli Stain	Sterile, clean, dry container or glass slide	1ml (fluid) OR 1g (solid)  1 properly prepared slide (for slides)	Fluid/Solid: Submit in sterile container without additives.  If using slide, cover with another sterile slide	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 6pm on week-days, 12nn on weekends &amp; holidays</li> </ul>	<ul style="list-style-type: none"> <li>• Within the day</li> <li>• Stat results in 1 hour</li> </ul>
Gram stain	Sterile, clean, dry container or glass slide	1ml (fluid) OR 1g (solid)  1 properly prepared slide (for slides)	Fluid/Solid: Submit in sterile container without additives.  If using slide, cover with another sterile slide	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 6pm on week-days, 12nn on weekends &amp; holidays</li> </ul>	<ul style="list-style-type: none"> <li>• Within the day</li> <li>• Stat results in 1 hour</li> </ul>
India Ink	Sterile, clean, dry container or glass slide	1ml (fluid) OR 1g (solid)  1 properly prepared slide (for slides)	Fluid/Solid: Submit in sterile container without additives.  If using slide, cover with another sterile slide	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 6pm on week-days, 12nn on weekends &amp; holidays</li> </ul>	<ul style="list-style-type: none"> <li>• Within the day</li> <li>• Stat results in 1 hour</li> </ul>

<p>Microscopic Identification:</p> <ul style="list-style-type: none"> <li>• Trichomonas</li> <li>• Monilla (Candida albicans)</li> <li>• Gonococci</li> <li>• Gardnerella vaginalis</li> </ul>	<p>Sterile, clean, dry container or glass slide</p>	<p>Swab soaked with specimen; no other additives</p> <p>OR</p> <p>1-3 drops each smeared onto 3 prepared slides.</p>	<ul style="list-style-type: none"> <li>• Swabs: Submit ASAP</li> <li>• Slides, submit 3: <ul style="list-style-type: none"> <li>• Trichomonas, add 3 drops plain NSS and cover with another slide. Bring ASAP.</li> <li>• Monilla: add 3 drops of 10% KOH and cover.</li> <li>• Gonococci or Gardnerella, submit uncovered slides.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 6pm on weekdays, 12nn on weekends &amp; holidays</li> </ul>	<ul style="list-style-type: none"> <li>• Within the day</li> <li>• Stat results in 1 hour</li> </ul>
<p>KOH Mount</p>	<p>Sterile vial or glass slide</p>	<p>1 mL for fluids 1 g for solid specimens Scrapings</p> <p>OR</p> <p>1-3 drops smeared onto 1 slide.</p>	<p>Vial: Submit specimen with no additives to laboratory ASAP</p> <p>Slide: 3 drops KOH and cover with another sterile slide.</p>	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 6pm on weekdays, 12nn on weekends &amp; holidays</li> </ul>	<ul style="list-style-type: none"> <li>• Within the day</li> <li>• Stat results in 1 hour</li> </ul>
<p>Aerobic studies</p> <ul style="list-style-type: none"> <li>• Culture &amp; Sensitivity</li> <li>• Minimum inhibitory concentration (MIC)</li> <li>• Stock Isolate/antibiotic testing</li> </ul>	<p>Clean, dry, sterile container</p>	<p>Refer to next table</p>	<p>Inquire Microbiology Section of availability of stock isolates/antibiotics</p>	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 6pm on weekdays, 12nn on weekends</li> </ul>	<p>2-5 days</p>
<p>AFB/MTB</p> <ul style="list-style-type: none"> <li>• Culture</li> <li>• Culture &amp; Sensitivity</li> </ul>	<p>Clean, dry, sterile container</p>	<p>3-5ml for sputum or other fluids.</p>	<ul style="list-style-type: none"> <li>• Proper collection of specimen for sputum: Clean mouth, collect deep cough sputum samples</li> <li>• Others: submit within 2 hours.</li> </ul>	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 6pm on weekdays, 12nn on weekends</li> </ul>	<ul style="list-style-type: none"> <li>• Up to 6 weeks for routine procedures (depends on growth)</li> </ul>

Anaerobic studies • Culture • Culture & Sensitivity	Orange BTA for fluid Cooked meat broth for tissue	3-5ml	Must be brought to the Lab within 2 hours at room temperature	• Daily • Cut off time: 6pm on week-days, 12nn on weekends	• Up to 2 weeks for routine procedure (growth dependent)
Fungal studies • Culture • Culture & Sensitivity	Clean, dry, sterile container	1ml for fluids 1g for solid specimens	Must be brought to the Lab within 2 hour at room temperature	• Daily • Cut off time: 6pm on week-days, 12nn on weekends	• Up to 2 weeks for routine procedure (growth dependent)
Polymerase Chain Reaction	Refer to following table	Refer to following table	Refer to following table	• Daily • Cut off time: 6pm on week-days, 12nn on weekends	Refer to next table

*Note: Specimens do not require additives unless otherwise stated.*

### Commonly Requested Specimens for Culture and Sensitivity

LABORATORY PROCEDURE	CONTAINER	QUANTITY	PREPARATION	SCHEDULE OF EXAMINATION	RELEASING OF RESULTS
Blood or Bone Marrow CS	BTA bottles • Yellow – pedia • Green – adult with ARD • Blue – adult w/o ARD	• Yellow BTA – 1-3ml per bottle • Blue/ Green BTA: – 5-10 ml per bottle	Must be submitted to the Microbiology Section within 2hours, at room temp	• Daily • Cut off time: 6pm on week-days, 12nn on weekends / holidays	2-5 days
Body Fluids (Others)	Sterile Vial	2 mL	Must be submitted within 2 hours at room temp	• Daily • Cut off time: 6pm on week-days, 12nn on weekends	2-4 days
Catheter tip CS	Clean, dry sterile container	Cut out (tip)	Must be submitted within 2 hours at room temp	• Daily • Cut off time: 6pm on week-days, 12nn on weekends	2-3 days
CSF CS	Clean, dry sterile container	Min 1 ml	Must be submitted within 2 hours at room temp	• Daily • Cut off time: 6pm on week-days, 12nn on weekends	2-4 days

Ear, eye, conjunctiva, cornea scrapings CS	ASAP in clean, dry/sterile container  OR Direct bedside culture or in transport medium	Scrapings	<ul style="list-style-type: none"> <li>•Sterile container, bring ASAP</li> <li>• Bedside Culture/Transport Media: Ask for thioglyclate broth from Microbiology; directly place specimen into broth.</li> </ul>	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 6pm on week-days, 12nn on weekends</li> </ul>	2-4 days
Exudate CS (Aspirate)	Clean, dry sterile container	Min 1ml	Must be submitted within 2 hours at room temp	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 6pm on week-days, 12nn on weekends</li> </ul>	2-4 days
Exudate CS (Swab)	Clean, dry sterile container	<ul style="list-style-type: none"> <li>• 1g if solid</li> <li>• 1ml if watery</li> </ul>	Must be submitted within 2 hours at room temp	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 6pm on week-days, 12nn on weekends or holidays</li> </ul>	2-3 days
GBS CS (Rectovaginal / Rectal / Vaginal)	Clean, dry sterile container	Swab soaked with the specimen	<ul style="list-style-type: none"> <li>• Submit within 2 hours</li> <li>• Ensure that GBS screening is written on the form.</li> </ul>	<ul style="list-style-type: none"> <li>Daily</li> <li>• Cut off time: 6pm on week-days, 12nn on weekends or holidays</li> </ul>	2-3 days
Rectal Swab	Clean, dry sterile container	Swab soaked with the specimen	Must be submitted within 2 hours at room temp	<ul style="list-style-type: none"> <li>Daily</li> <li>• Cut off time: 6pm on week-days, 12nn on weekends or holidays</li> </ul>	2-3 days
Respiratory CS (Swab)	Clean, dry sterile container	Swab soaked with specimen	Must be submitted within 2 hours at room temp	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 6pm on week-days, 12nn on weekends</li> </ul>	2-5 days
Respiratory CS (Aspirate)	Clean, dry sterile container	Min of 2 mL	Must be submitted within 2 hours at room temp	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 6pm on week-days, 12nn on weekends</li> </ul>	2-3 days
Sputum CS	Clean, dry sterile container	Min of 2 mL	Must be submitted within 2 hours at room temp	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 6pm on week-days, 12nn on weekends</li> </ul>	2-3 days

Stool CS	Clean, dry sterile container	<ul style="list-style-type: none"> <li>• 1g</li> <li>• 2-3 ml if watery</li> </ul>	Must be submitted within 2 hours at room temp	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 6pm on week-days, 12nn on weekends</li> </ul>	2-3 days
Tissue CS	Clean, dry sterile container	<ul style="list-style-type: none"> <li>• 1g if solid</li> <li>• 1ml if watery</li> </ul>	Must be submitted within 2 hours at room temp	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 6pm on week-days, 12nn on weekends</li> </ul>	2-5 days
Urine CS	Clean, dry sterile container	1ml	Must be submitted to the within 1 hour, at room temp	<ul style="list-style-type: none"> <li>• Daily</li> <li>• Cut off time: 6pm on week-days, 12nn on weekends</li> </ul>	2-5 days

Note: 2 hours should be the maximum time prior to sending the specimen to the laboratory. However, bringing the specimens as soon as possible is better, and may result in improved detection/identification of any organisms.

### Specimens for Polymerase Chain Reaction (PCR) Method

LABORATORY PROCEDURE	CONTAINER	QUANTITY	PREPARATION	SCHEDULE OF EXAMINATION	RELEASING OF RESULTS
<b>Mycobacterium Tuberculosis/Rifampicin Resistance (MTB/Rif)</b>					
Sputum	Sterile Vial / Container	2-3 mL	Submit immediately or transport on ice	Mon-Fri; 10 AM – 5 PM	After 3 hours**
Body Fluids & Aspirates	Sterile Vial / Container	5-10 mL	Submit immediately or transport on ice	Mon-Fri; 10 AM – 5 PM	After 3 hours**
CSF	Sterile Vial / Container	2-3 mL	Submit immediately or transport on ice	Mon-Fri; 10 AM – 5 PM	After 3 hours**
Tissues	Sterile Vial / Container	25-50 mg in NSS	Submit immediately or transport on ice	Mon-Fri; 10 AM – 5 PM	After 3 hours**
<b>Clostridium difficile</b>					
Stool	Sterile Vial / Container	Pea-size	Submit immediately or transport on ice	Mon-Fri; 10 AM – 5 PM	After 3 hours**

\*\*Depends on number of tests being run.

LABORATORY PROCEDURE	CONTAINER/ SPECIMEN	QUANTITY/ PREPARATION	SCHEDULE	RELEASING OF RESULTS
<p>Cytology</p> <ul style="list-style-type: none"> <li>• Smears</li> <li>• Cytospin</li> <li>• Cell block</li> </ul>	<ul style="list-style-type: none"> <li>• Smearred glass slides</li> <li>• Clean, dry container for fluids</li> </ul>	<ul style="list-style-type: none"> <li>• Slides may be air-dried or alcohol-fixed (immediately immersed in 95% ethanol)                             <ul style="list-style-type: none"> <li>- Air-dried only for bone marrow aspirates</li> <li>- Ideal for non-hematological specimens is to have 2 slides for each preparation.</li> </ul> </li> <li>• At least 2ml if fluid specimen (for cell block)                             <ul style="list-style-type: none"> <li>- Ideally brought immediately – especially CSF</li> <li>- Fixed with 95% ethyl alcohol of equal volume if not brought immediately.</li> <li>- Refrigerate in 4-6°C if no alcohol is available. (least preferred)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Monday to Saturday</li> <li>• Cut-off time: 3pm</li> </ul>	<ul style="list-style-type: none"> <li>• After 3-5 working days</li> </ul>
<p>Adequacy of Cytology Specimen (non-hematologic only)</p>	<p>Smearred glass slides</p>	<ul style="list-style-type: none"> <li>• Slides may be air-dried or alcohol-fixed (immediately immersed in 95% ethanol)                             <ul style="list-style-type: none"> <li>- Ideal for non-hematological specimens is to have 2 slides for each preparation.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Monday to Saturday</li> <li>• Cut-off time: 3pm</li> </ul>	<ul style="list-style-type: none"> <li>• Initial Opinion within 1 hour.</li> <li>• Final result after 5 working days</li> </ul>
<p>Inpatient Fine Needle Aspiration</p>	<p>Referral form &amp; consent</p>	<ul style="list-style-type: none"> <li>• Filled out Surgical Pathology form, with prior consent of the patient</li> <li>• Personal endorsement from one of the medical professionals in charge of the patient.</li> </ul>	<ul style="list-style-type: none"> <li>• Monday to Friday, 8 AM – 3 PM</li> </ul>	<ul style="list-style-type: none"> <li>• After 5 working days</li> </ul>
<p>Routine Histopathology</p>	<p>Appropriately sized, clean, leak-proof container or double-bag with labels.</p>	<ul style="list-style-type: none"> <li>• Specimens must be fully submerged in 10% buffered formalin, ideally 1:10 ratio</li> <li>• Specimens should be labeled properly and with an appropriately filled out form.</li> </ul>	<ul style="list-style-type: none"> <li>• Monday to Saturday</li> <li>• Cut-off time: 3 pm for adequately fixed specimens</li> </ul>	<ul style="list-style-type: none"> <li>• After 5 working days</li> </ul>



Frozen Section	Clean, dry, wide-mouth container	<ul style="list-style-type: none"> <li>• Unfixed specimens</li> <li>• Specimens should be well-oriented and labeled properly and with an appropriately filled out form.</li> <li>• Surgeon or person knowledgeable about the case should be easily contactable or present.</li> </ul>	<ul style="list-style-type: none"> <li>• By schedule, please call 3208</li> <li>• Monday to Friday 8am to 4pm</li> <li>• Others accepted on a scheduled, case to case basis</li> </ul>	<ul style="list-style-type: none"> <li>• Initial reading within 20 minutes of submission, per slide taken*</li> <li>• Final result after 5-7 working days</li> </ul>
----------------	----------------------------------	---	--	--

Note: The Surgical Pathology section reserves the right to reject or send back specimens that are improperly labeled, or have an inappropriately filled out form.

### Slide Review

LABORATORY PROCEDURE	REQUIREMENTS	SCHEDULE	RELEASING OF RESULTS
Slide Review	Histopath slides <ul style="list-style-type: none"> <li>• H&amp;E slides</li> <li>• IHC slides</li> <li>• Special stains</li> </ul> Bring Official Histopath Result and short Medical History of the case	Monday to Friday 8am to 4pm	After 5-7 working days

### Special Histochemical Stains

STAIN	REQUIREMENTS	SCHEDULE	RELEASING OF RESULTS
Congo Red Elastic Stain Fite Faraco Giemsa (for H. pylori) Masson Trichrome Periodic Acid Schiff (PAS; with or without diastase) Reticulin Wright's Stain	Paraffin block, Histopath Result	Monday to Friday 8am to 4pm	<ul style="list-style-type: none"> <li>• After 3-7 working days</li> </ul>
RETIC (Reticulin fiber)	Paraffin block, H&E slides, Histopath Result	Cut off day: Wednesdays 12nn	<ul style="list-style-type: none"> <li>• After 3-7 working days</li> </ul>

## Immunohistochemical Stains

IMMUNOSTAIN	REQUIREMENTS	SCHEDULE	RELEASING OF RESULTS
<ul style="list-style-type: none"> <li>• ALK Protein (CD246)</li> <li>• bcl-2</li> <li>• calretinin</li> <li>• CAM5.2</li> <li>• CD3</li> <li>• CD5</li> <li>• CD10</li> <li>• CD15</li> <li>• CD20</li> <li>• CD30</li> <li>• CD34</li> <li>• CD45 (LCA)</li> <li>• CD56 (NCAM)</li> <li>• CD68</li> <li>• CD99</li> <li>• CD117</li> <li>• CD138</li> <li>• CEA</li> <li>• Chromogranin</li> <li>• CK (pancytokeratin AE1/AE3)</li> <li>• CK 5/6</li> <li>• CK7</li> <li>• CK8/18</li> <li>• CK19</li> <li>• CK20</li> <li>• CK HMW (High Molecular Weight CK; 34BE12)</li> <li>• Cyclin D1</li> <li>• Desmin</li> <li>• E-cadherin</li> <li>• EMA (Epithelial Membrane Antigen)</li> <li>• ER (Estrogen Receptor)</li> <li>• ER/PR Assay</li> <li>• ER/PR/Her2Neu</li> <li>• GFAP (Glial Fibrillary Acid Protein)</li> <li>• Hercep2</li> <li>• HMB45</li> <li>• Hep-Par 1</li> <li>• Her2Neu</li> <li>• IDH1</li> <li>• Inhibin</li> <li>• INI-1</li> <li>• Ki-67</li> </ul>	<p>Paraffin block, H&amp;E slides, Histopath Result</p>	<p>Cut off: Mondays, 4pm Thursdays, 4 pm</p>	<p>After 7 working days</p>

<ul style="list-style-type: none"> <li>• NSE (Neuron Specific Enolase)</li> <li>• Mammaglobin</li> <li>• Melanin A</li> <li>• Muscle Specific Actin (MSA)</li> <li>• p40</li> <li>• p53</li> <li>• p63</li> <li>• PAX5</li> <li>• PLAP (Placenta-like Alkaline Phosphatase )</li> <li>• PR (Progesterone Receptor)</li> <li>• Smooth Muscle Actin (SMA)</li> <li>• S-100</li> <li>• Synaptophysin</li> <li>• Tdt (Terminal Deoxynucleotidyl Transferase)</li> <li>• TTF-1 (Thyroid Transcription Factor)</li> <li>• Thyroglobulin</li> <li>• Toxoplasma</li> <li>• Vimentin</li> <li>• WT-1</li> </ul>	<p>Paraffin block, H&amp;E slides, histopath result.</p>	<p>Cut off: Mondays, 4pm Thursdays, 4 pm</p>	<p>After 7 working days</p>
--	--	--	-----------------------------

NOTE: Release of all cytology & histopathology results may vary, depending on the complexity of the case.

# Autopsy Referrals

---

The autopsy is the methodological and scientific examination of the body of the deceased with the objectives of, at the very least, identifying the cause and manner of death. The UP-PGH Department of Laboratories together with the UP-College of Medicine Department of Pathology offers autopsy services free of charge to all UP-PGH Charity patients.

In cases of a probable autopsy, the Resident in Charge of the case notifies the Pathology Resident on Autopsy Duty at local 3208.

The Resident in Charge must secure the following requirements:

1. Patient's Chart
2. Clinical Abstract
3. A short narrative on the circumstances surrounding the patient's demise
4. Death Certificate
5. Ancillary procedures done: lab results, imaging plates (x-ray, CT-scan, MRI, ultrasound, etc), ECG, etc.

In addition, all attached medical devices at the time of death should be left intact and attached to the body (ex. IJ catheters, peripheral IV lines, etc.)

Depending on the circumstances, the Resident in Charge will either proceed to the bedside to discuss the procedure with patient's relatives, or they shall proceed to the Pathology Residents' Work Room at Room 7 of the Central Laboratory.

Once the Pathology Resident has secured informed consent from the relatives, the body of the patient shall then be transferred to the UP-College of Medicine Morgue.

The following are the usual operating hours of the UP-College of Medicine Morgue and cut-off time for dissection:

	<b>WEEKDAYS</b>	<b>WEEKENDS AND HOLIDAYS</b>
Operating hours	8am-5pm	On-call, 8am-5pm
Cut-off time for dissection	2pm	11am

Bodies received after the cut-off time will be released the next day.

Medicolegal autopsies are subject to the availability of a forensic pathologist. If none is available, cases shall be referred to the NBI/PNP.

For medicolegal autopsies, it is paramount to keep the patient's personal belongings, effects and possessions at the time of death with the body.

The Department releases 2 kinds of autopsy results:

- Provisional Anatomic Diagnosis (PAD) – may be available within 24 hours after dissection and is considered “unofficial” and is subject to multiple revisions.
- Final Anatomic Diagnosis (FAD) – available after 4 months, is considered the “official” autopsy report.

The Department does not release PADs for medicolegal cases.

The Death Certificate shall be made available within 24 hours after dissection.

## Medicolegal Referrals

---

For medicolegal referrals, call 3208 and inform the Pathology Resident on Duty.

Keep the chart and x-ray plates, CT-scans, and other imaging plates available at bedside during the visit by the forensic pathologist or pathology resident.

## Fine Needle Aspiration Biopsy Referrals

---

The PGH Department of Laboratories also performs fine needle aspiration biopsy on all palpable masses (thyroid, lymph nodes, soft tissue masses, etc.) for PGH In-Patients. For referrals, call 3208 and inform the Pathology Resident on Duty or send a Surgical Pathology Consultation Form to the Surgical Pathology Section at Room 5, Central Laboratory. The clinical service(s) should ideally have attempted their own FNA prior to referral. Have FNAB Consent Form signed and Medical Chart available during the procedure.

Ambulatory patients may proceed to the Pathology Research Laboratory every Tuesdays and Thursdays, 9am.