## JOHNSON MEMORIAL HOSPITAL Franklin, Indiana

POLICY – LAB NURSING CODE: 1.30

| Reviewed/Revised Date: 2-21-2025 Next Review Date: 2/21/27 Approved Laboratory |  |
|--|--|
|--|--|

## **SPECIMEN REQUIREMENTS**

**PURPOSE:** To provide guidelines as to the requirement to properly collect specimens for

Laboratory testing.

**SCOPE:** All Nursing and Laboratory employees

### **POLICY STATEMENT:**

In order to cut down on the number of telephone calls between the Laboratory and Nursing units, the following tables should be utilized to determine proper collection requirements for Laboratory specimens. Should a test be ordered that is not included in the following tables, contact the Laboratory for the specific information needed. To utilize the chart, find the test and then refer to the number listed in the tube category to determine to color of tube and number needed. If a patient requires many tests, please contact the Laboratory to determine a sufficient number of tubes to meet testing requirements yet minimize amount of sample collected.

#### **BLOOD BANK:**

All Blood Bank procedures require a minimum of two lavender top EDTA specimens.

Additional red and lavender top tubes may be necessary if the patient has testing that must be sent to the reference laboratory.

### **CHEMISTRY (BLOOD):**

<sup>\*\*</sup> Indicates alternate specimen.

| Test                         | Red | Gold | Dk.<br>Green | Mint<br>Green | Blue | Lav. | Special<br>Tube | Collection<br>Instructions  |
|------------------------------|-----|------|--------------|---------------|------|------|-----------------|---|
| Acetaminophen                | 1   |      |              |               |      |      |                 | Draw @ 4 and 12 hours after suspected overdose.                     |
| Albumin                      |     | 1    |              | 1**           |      |      |                 |   |
| Aldosterone*                 | 1   | 1**  |              |               |      |      |                 | Note position of patient at time of collection (supine or upright). |
| Alkaline Phosphatase (ALP)   |     | 1    |              | 1**           |      |      |                 |   |
| Alpha Feto Protein<br>(AFP)* |     | 1    |              | 1             |      |      |                 | Must be 15-20 weeks<br>gestation. Submit<br>AFP info sheet.         |
| Amikacin                     | 1   |      |              |               |      |      |                 | See Therapeutic Drug<br>Drawing Guidelines<br>Policy.               |

<sup>\*</sup>Indicates test is referred out.

| Test                                | Red | Gold | Dk.<br>Green | Mint<br>Green | Blue | Lav. | Special<br>Tube | Collection<br>Instructions   |
|-------------------------------------|-----|------|--------------|---------------|------|------|-----------------|--|
| Ammonia                             |     |      | 1            | 1**           |      | 1**  |                 | Mint Green preferred.<br>Spin down and place on<br>ice immediately. Pour off<br>if drawn in dark green and<br>not to the lab within 20<br>minutes. |
| Amylase                             |     | 1    |              | 1**           |      |      |                 |  |
| ANA<br>(Ant-Nuclear<br>Antibody)*   |     | 1    |              |               |      |      |                 |  |
| Anti-Intrinsic<br>Antibody*         |     | 1    |              |               |      |      |                 | No B12 one-week prior and no radioisotopes.  |
| Beta-hydroxybutyrate                |     |      | 1            |               |      | 1**  | 1**             |  |
| B12                                 |     | 1    |              | 1**           |      |      |                 | Protect from light.  |
| Beta hCG<br>(Qual. & Quant.)        |     | 1    |              |               |      |      |                 |  |
| Bilirubin                           |     | 1    |              | 1**           |      |      |                 | Newborn can be drawn in red microtainer.   |
| BMP (Basic<br>Metabolic Profile)    |     | 1    |              | 1**           |      |      |                 |  |
| NT PRO BNP                          |     |      |              | 1             |      | 1**  |                 |  |
| BUN                                 |     | 1    |              | 1**           |      |      |                 |  |
| Calcium                             |     | 1    |              | 1**           |      |      |                 |  |
| Calcium, Ionized*                   |     | 1    |              |               |      |      |                 | Do not open tube.  |
| CEA*                                |     | 1    |              | 1**           |      |      |                 |  |
| Chloride                            |     | 1    |              | 1**           |      |      |                 |  |
| Cholesterol                         |     | 1    |              | 1**           |      |      |                 |  |
| CKMB                                |     |      | 1            | 1**           |      |      |                 | See Reflex Test Policy.  |
| CMP (Complete<br>Metabolic Profile) |     | 1    |              | 1**           |      |      |                 | Use Gold top if testing will be greater than 1 hour.   |
|                                     |     |      |              |               |      |      |                 |  |
| CO2                                 |     | 1    |              | 1**           |      |      |                 |  |

| Test                                   | Red | Gold | Dk.<br>Green | Mint<br>Green | Blue | Lav. | Special<br>Tube              | Collection<br>Instructions   |
|--|-----|------|--------------|---------------|------|------|------------------------------|--|
| Cortisol                               | 1   |      |              | 1**           |      |      |                              | Generally collect before 0800 unless otherwise specified.  |
| СРК                                    |     |      | 1            | 1**           |      |      |                              |  |
| C-reactive Protein                     |     | 1    |              | 1**           |      |      |                              |  |
| C-Reactive Protein<br>High Sensitivity |     | 1    |              | 1**           |      |      |                              |  |
| Creatinine                             |     | 1    |              | 1**           |      |      |                              |  |
| Digoxin                                | 1   |      |              |               |      |      |                              | See Therapeutic Drug Drawing Guidelines Policy.  |
| Dilantin                               | 1   |      | 1**          |               |      |      |                              | See Therapeutic Drug<br>Drawing Guidelines<br>Policy.  |
| Estrogen*                              |     | 1    |              |               |      |      |                              |  |
| Ethyl Alcohol                          | 1   |      | 1**          |               |      |      | Grey tube<br>may be<br>used. | Do not open tube. Use<br>Chain of Custody Form.  |
| Ferritin                               |     | 1    | 1**          | 1**           |      |      |                              |  |
| Folate, RBC*                           |     |      |              |               |      | 1    |                              | Protect from light   |
| Folate, Serum*                         |     | 1    |              | 1**           |      |      |                              | Protect from light   |
| FSH                                    |     | 1    |              | 1**           |      |      |                              |  |
| Gastrin*                               |     | 1    |              |               |      |      |                              | Patient fasting 12 hours<br>and no radioisotopes<br>within 24 hours.<br>Send immediately to<br>Lab - must be frozen. |
| Gentamicin                             | 1   |      | 1**          |               |      | 1**  |                              | See Therapeutic Drug<br>Drawing Guidelines<br>Policy.  |
| GGT                                    |     | 1    |              | 1**           |      |      |                              |  |
| Glucose                                |     | 1    |              | 1**           |      |      |                              | Tolerance tests must be scheduled with Lab.  |
| Haptoglobin*                           |     | 1    |              |               |      |      |                              |  |
| HDL                                    |     | 1    |              | 1**           |      |      |                              | Fasting 12-14 hours.   |

| Test                            | Red | Gold | Dk.<br>Green | Mint<br>Green | Blue | Lav. | Special<br>Tube    | Collection<br>Instructions   |
|---------------------------------|-----|------|--------------|---------------|------|------|--------------------|--|
| Helicobacter pylori<br>Ag       |     |      |              |               |      |      |                    | Stool Specimen   |
| HgbA1c                          |     |      |              |               |      | 1    |                    |  |
| Hepatitis B Surface<br>Antigen* |     | 1    |              |               |      |      |                    |  |
| Hepatitis C RNA by PCR*         |     |      |              |               |      | 1    | 1 Pearl<br>White** |  |
| HIV                             |     | 1    |              | 1**           |      | 1**  |                    | Complete Consent Form  |
| IgA*                            |     | 1    |              |               |      |      |                    |  |
| IgE*                            |     | 1    |              |               |      |      |                    |  |
| IgG*                            |     | 1    |              |               |      |      |                    |  |
| IgM*                            |     | 1    |              |               |      |      |                    |  |
| Iron                            |     | 1    |              |               |      |      |                    |  |
| Lactic Acid                     |     |      |              |               |      |      | 1 Gray             | Patient should rest prior to and during collection. Do not use tourniquet. Place on ice immediately. Must be in lab within 20 minutes. |
| LDH                             |     | 1    |              | 1**           |      |      |                    |  |
| LDH Isoenzymes*                 |     | 1    |              |               |      |      |                    |  |
| Lead*                           |     |      |              |               |      |      | 1 Royal<br>Blue    |  |
| LH                              |     | 1    |              | 1**           |      |      |                    |  |
| Lipase                          |     | 1    |              | 1**           |      |      |                    |  |
| Lipid Profile                   |     | 1    |              | 1**           |      |      |                    | Includes cholesterol, triglycerides, HDL, LDL, risk ratio. Patient should be fasting 12-14 hours prior to collection.                  |
| Lithium                         | 1   |      | 1**          |               |      | 1**  |                    |  |

| Test                               | Red | Gold | Dk.<br>Green | Mint<br>Green | Blue | Lav. | Special<br>Tube        | Collection<br>Instructions   |
|------------------------------------|-----|------|--------------|---------------|------|------|------------------------|--|
| Liver Profile                      |     | 1    |              | 1**           |      |      |                        | Includes Bilirubin (Total and Direct), GPT, ALP, GGT, and LDH.  Use Gold top if testing will be greater than 1 |
| L/S Ratio*Or FLM                   |     |      |              |               |      |      | 7ml<br>Amnio           | hour.  Protect from light. Must be at Clarian prior to 1100  |
| (Fetal Lung Maturity)              |     |      |              |               |      |      | Fluid                  | for same day testing.  |
| Magnesium                          |     | 1    |              | 1**           |      |      |                        |  |
| Metabolic Profile<br>(Newborn)     |     |      |              |               |      |      | Use<br>profile<br>card |  |
| NAPA*                              | 1   |      |              |               |      |      |                        | See Therapeutic Drug<br>Drawing Guidelines<br>Policy.  |
| Osmolarity, Serum                  |     | 1    |              |               |      |      |                        |  |
| Phenobarbital*                     | 1   |      |              |               |      |      |                        | See Therapeutic Drug<br>Drawing Guidelines<br>Policy.  |
| Phosphorus                         |     | 1    |              | 1**           |      |      |                        |  |
| Potassium                          |     | 1    |              | 1**           |      |      |                        |  |
| Procainamide*                      | 1   |      |              |               |      |      |                        | See Therapeutic Drug<br>Drawing Guidelines<br>Policy.  |
| Procalcitonin (PCT)                |     | 1**  |              | 1             |      | 1**  |                        |  |
| Progesterone*                      |     | 1    |              |               |      |      |                        |  |
| Prolactin                          |     | 1    |              | 1**           |      |      |                        |  |
| Protein Electroph*                 |     | 1    |              |               |      |      |                        |  |
| PSA (Prostate<br>Specific Antigen) |     | 1    |              | 1**           |      | 1**  |                        |  |
| PTH (Parathyroid<br>Hormone)*      |     |      | 1            |               |      |      |                        | Fasting for 12 hours.  |
| Quantiferon Gold                   |     |      | 2            |               |      |      |                        | Must draw 2 full tubes.<br>Send to ref lab within 48<br>hours of collection.                                   |
| Quinidine*                         | 1   |      |              |               |      |      |                        | See Therapeutic Drug<br>Drawing Guidelines<br>Policy.  |
| Renal Panel                        |     | 1    |              | 1**           |      |      |                        |  |

| Test                                  | Red | Gold | Dk.<br>Green | Mint<br>Green | Blue | Lav. | Special<br>Tube | Collection<br>Instructions                            |
|---------------------------------------|-----|------|--------------|---------------|------|------|-----------------|---|
|                                       |     |      |              |               |      |      |                 |   |
| Renin*                                |     |      |              |               |      | 1    |                 | Freeze plasma within 4 hours of collection time.      |
| Salicylates                           | 1   |      | 1**          |               |      |      |                 | See Therapeutic Drug<br>Drawing Guidelines<br>Policy. |
| SGOT (AST)                            |     | 1    |              | 1**           |      |      |                 | Use Gold top if testing will be greater than 1 hour.  |
| SGPT (ALT)                            |     | 1    |              | 1**           |      |      |                 |   |
| Sodium                                |     | 1    |              | 1**           |      |      |                 |   |
| T3 Total*                             |     | 1    |              |               |      |      |                 |   |
| T3 Uptake*                            |     | 1    |              |               |      |      |                 |   |
| T4 Free                               |     | 1    |              |               |      |      |                 |   |
| T4 Total*                             |     | 1    |              | 1**           |      |      |                 |   |
| Tegretol<br>(Carbamazepine)           | 1   |      | 1**          |               |      |      |                 | See Therapeutic Drug<br>Drawing Guidelines<br>Policy. |
| Testosterone                          |     | 1    |              | 1**           |      | 1**  |                 |   |
| Theophylline*                         | 1   |      |              |               |      |      |                 | See Therapeutic Drug<br>Drawing Guidelines<br>Policy. |
| TIBC (Total Iron<br>Binding Capacity) |     | 1    |              |               |      |      |                 |   |
| Tobramycin*                           | 1   |      |              |               |      |      |                 | See Therapeutic Drug<br>Drawing Guidelines<br>Policy. |
| Total Protein                         |     | 1    |              | 1**           |      |      |                 |   |
| Triglycerides                         |     | 1    |              | 1**           |      |      |                 | Fasting 12-14 hours.                                  |
| Troponin                              |     | 1**  | 1            | 1**           |      |      |                 |   |
| TSH                                   |     | 1    |              | 1**           |      |      |                 |   |
| Uric Acid                             |     | 1    |              | 1**           |      |      |                 |   |
| Valproic Acid                         | 1   |      | 1**          |               |      | 1**  |                 | See Therapeutic Drug<br>Drawing Guidelines<br>Policy. |

| Test              | Red | Gold | Dk.<br>Green | Mint<br>Green | Blue | Lav. | Special<br>Tube | Collection<br>Instructions                            |
|-------------------|-----|------|--------------|---------------|------|------|-----------------|---|
| Vancomycin        | 1** |      |              |               |      | 1    |                 | See Therapeutic Drug<br>Drawing Guidelines<br>Policy. |
| Vitamin D hydroxy | 1** | 1    |              |               |      |      |                 |   |

# **CHEMISTRY (BODY FLUIDS):**

Unless Specified by the ordering physician, body fluids are tested as follows:

Tube #1: Chemistry

Tube #2: Microbiology
Tube #3: Hematology

Body Fluids can be sent in green top, lavender top, or spinal fluid tubes. Body fluids include:

Peritoneal

Pleural

Spinal

Synovial

Body Fluid Panels Include:

- 1. Cell Count
- 2. Glucose
- 3. Total Protein
- 4. Culture and Gram Stain

Other requested tests should be ordered individually.

# **CHEMISTRY (URINE):**

NOTE: Additives must be added in Lab prior to collection.

| Test                      | Additive     | Collection Instructions |
|---------------------------|--------------|-------------------------|
| Amylase, 2 hr. and 24 hr. | None         | Refrigerate             |
| BUN (UUN), 24 hr.**       | None         | Refrigerate             |
| Calcium, 24 hr.**         | 10 ml 6N HCL | Refrigerate             |

<sup>\*</sup>Indicates test is referred out.

<sup>\*\*</sup>Indicates test may also be performed on a random sample if ordered.

| Test                               | Additive | <b>Collection Instructions</b>  |
|------------------------------------|----------|---|
| Catecholamines, 24 hr.*            | None     | Refrigerate   |
| Chloride, 24 hr.**                 | None     | Refrigerate   |
| Creatinine, 24 hr.**               | None     | Refrigerate   |
| Creatinine Clearance, 24 hr.       | None     | Refrigerate   |
| Glucose, 24 hr.**                  | None     | Refrigerate   |
| Heavy Metals, 24 hr.*              | None     | Patient should avoid seafood 48 hrs. prior to and during collection. Refrigerate. |
| 5-HIAA (Serotonin), 24 hr.*        | None     | Refrigerate   |
| HVA (Homovanillic Acid), 24 hr. *  | None     | D/C Levodopa 2 weeks prior.<br>Refrigerate.                                       |
| 17-Ketosteroids, 24 hr.*           | None     | Refrigerate   |
| Magnesium, 24 hr.**                | None     | Refrigerate   |
| Metanephrines, 24 hr.*             | None     | Refrigerate   |
| Microalbumin, 24 hr.**             | None     | Refrigerate   |
| Phosphorus, 24 hr.**               | None     | Refrigerate   |
| Potassium, 24 hr.**                | None     | Refrigerate   |
| Protein Electrophoresis, 24 hr.*   | None     | Refrigerate   |
| Protein, Total, 24 hr**.           | None     | Refrigerate   |
| Sodium, 24 hr.**                   | None     | Refrigerate   |
| Uric Acid, 24 hr.**                | None     | Refrigerate   |
| VMA (Vanillylmandelic Acid),24 hr* | None     | Refrigerate   |

# For all 24 hour urine collections:

- 1. Upon receipt of an order for a 24-hour urine collection, contact the Laboratory. The Laboratory will prepare a 24-hour urine collection container based on the type of test and label with the appropriate patient information.
- 2. To begin collection, have patient urinate and discard this first sample (do not put into container). Note this date/time as the start of the collection.
- 3. Save all urine voided after this time for 24 hours, including any urine voided at the exact time of period end. Document this date/time as the end of the collection.
- 4. If the container has a preservative in it, make sure the patient does not come into contact with the container and does not void directly into the container (to prevent splashing/contact with preservative).

**Urine Drug Screens:** Collect in sterile urine container. Initiate chain of custody form and refrigerate.

# **COAGULATION:**

\*Indicates test is referred out.

| Test                  | Red | Gold | Green | Blue | Lav. | SpecialTube | <b>Collection Instructions</b>                                 |
|-----------------------|-----|------|-------|------|------|-------------|--|
| Anti-thrombin III*    |     |      |       | 1    |      |             |  |
| D-Dimer               |     |      |       |      | 1    |             |  |
| Factor V Leiden*      |     |      |       |      | 2    |             |  |
| Prothrombin Time (PT) |     |      |       | 1    |      |             | Tube must be filled to fill line. 24 hr stability Refrigerated |
| PTT                   |     |      |       | 1    |      |             | Tube must be filled to fill line. 4 hr stability refrigerated  |
| Fibrinogen*           |     |      |       | 1    |      |             | Tube must be filled to fill line.                              |
| FDP (FSP)*            |     |      |       | 1    |      |             | Tube must be filled to fill line.                              |

# **HEMATOLOGY (MISC.):**

Lactoferrin: A small amount of stool in stool container.

Hemoccult: iFOBT collection kit or a small amount of stool in a sterile container.

# **HEMATOLOGY:**

| Test         | Red | Gold | Green | Blue | Lav. | Tube | Collection Instructions   |
|--------------|-----|------|-------|------|------|------|---|
| Bone Marrow  |     |      |       |      |      |      | This is performed by the Pathologist.   |
| CBC          |     |      |       |      | 1    |      | Includes: WBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW, PLT, MPV and Differential.   |
| Differential |     |      |       |      | 1    |      | Includes: Seg, Band, Lymph, Mono,<br>Eosin, Baso, Atypical Lymph, Meta,<br>Myelo, Pro Myelo, Blast, IG, NRBC's<br>and WBC, RBC, and PLT Morphology. |
| Hemogram     |     |      |       |      | 1    |      | Includes: WBC, RBC, HGB, HCT, MCV, MCHC, RDW, PLT, and MPV.   |
| Retic Count  |     |      |       |      | 1    |      |   |

| Test     | Red | Gold | Green | Blue | Lav. | Tube | Collection Instructions                    |
|----------|-----|------|-------|------|------|------|--|
| Sed Rate |     |      |       |      | 1    |      | Stability 24 hrs Room Temp or refrigerated |

The parameters of Hemoglobin (HGB), Hematocrit (HCT), Red Blood Cell (RBC), White Blood Cell (WBC), platelet (PLT), Eosinophil Count can be ordered individually. A lavender top tube is required.

# **HEMATOLOGY (BODY FLUIDS):**

Cell counts are included in each of the body fluid panels or may be ordered separately. Spinal fluid should be in a spinal fluid tube, all other body fluids should be in a green and lavender top tube.

### **MICROBIOLOGY:**

# \*\*See Collection of Culture Specimens for proper collection methods.\*\*

Specimens must be processed and/or tested within the time stabilities listed. All specimens should be transported to the lab within 30 minutes of collection for optimal recovery of organisms.

<sup>\*</sup>Indicates test is referred out.

| Culture Type                                  | Specimen   | Storage  |
|---|--|--|
| Acid Fast Culture*                            | Sputum or Urine: minimum 1 ml<br>in sterile container<br>Body Fluid/Tissue: Sterile<br>container                       | Refer to Collection of Culture<br>Specimens procedure.<br>Refrigerate.           |
| Acid Fast Stain (if ordered without culture)* |  | Follow Acid Fast Culture procedure.  |
| Anaerobic Culture                             | 1ml in sterile syringe (discard<br>needle), swab w/appropriate ana<br>transport media, or Tissue bx                    | Fluid/Tissue: stored 2-8°C for up to 24hrs. Swabs stored 2-25°C up to 48hrs.     |
| Beta Strep Culture                            | Opti-swab or other appropriate bacterial transport media   | 2-25°C up to 24hrs   |
| Beta Strep Screen                             | Sterile foam tipped applicator or rayon tip/plastic shaft swab.  | Return to lab immediately-No transport media.                                    |
| Blood Culture                                 | Adult: 1-4 cc blood into<br>each bottle<br>Pediatric (Under 13yrs.):1-4 ml<br>blood in Aerobic bottle only for<br>Peds | Take to Laboratory immediately to be processed. Stable at room temp up to 12hrs. |
| Body/Spinal Fluid Culture                     | 1ml fluid in a sterile syringe or tube   | Process immediately or refrigerate up to 24hrs                                   |
| Catheter Tip Culture                          | Place in sterile urine container.  | Transport to Laboratory immediately.   |
| Clostidioides Difficile Toxin (C. Diff)       | 3 grams stool in clean, dry container  | Refrigerate up to 5 days.  |

| Culture Type  | Specimen  | Storage   |
|---|---|---|
| Covid-19 ID NOW (Rapid)                               | Nasal or NP: Foam or rayon tip swab with plastic shaft. No transport media                | 1 hr Room Temp                                      |
| Covid-19 Antigen                                      | Nasal or NP: Foam or rayon tip swab with plastic shaft. No transport media                | 48 hrs refrigerated                                 |
| Cepheid SARS CoV-2/Flu/RSV                            | NP swab in VTM  | Up to 7 days refrigerated                           |
| Ear/Eye Culture                                       | Opti-swab or other appropriate bacterial transport media                                  | 2-25°C up to 24hrs                                  |
| ePlex Respiratory Panel                               | NP swab in VTM  | 72 hrs refrigerated                                 |
| Fungus Culture  | Refer to reference lab Culture<br>Collection Policy.*                                     | Room temperature                                    |
| GC/Chlamydia PCR                                      | Xpert specimen collection kit or urine.   | 2-30 degrees C                                      |
| Gram Stain (if ordered without culture)               |   | Refer to Collection of Culture Specimens procedure. |
| Herpes Culture*                                       | Viral M6 media-Pink solution  | Refrigerate-Obtain transport solution from lab.     |
| Influenza A & B Screen                                | Sterile foam tipped applicator  | Room Temperature or refrig. For 24 hours            |
| MRSA screen (pre-surgical and outpt only)             | Specimen collection device:<br>duel swab  | Room temperature                                    |
| Ova & Parasites (O&P), Giardia Ag,<br>Cryptosporidium | 1gram stool in a clean, dry container. Should not collect more than one specimen per day. | Send to Laboratory immediately.                     |
| RSV   | Nasopharyngeal Foam Tipped applicator or flocked swab                                     | Return to lab immediately-No transport media.       |
| Sputum/Bronchial Washing Culture                      | Minimum 1ml in a sterile container (first morning specimen ideal)                         | Refrigerate up to 24hrs                             |
| Stool Culture   | 3 grams in a clean, dry container   | Refrigerate up to 24hrs                             |
| Tissue Biopsy/Bone                                    | Place tissue in sterile container.  | Transport to Laboratory immediately.                |
| Urine Culture   | Minimum 1ml in sterile container or boric acid tube                                       | Refrigerate (if not using preservative) up to 24hrs |
| Wet Prep  | Swab placed in 1ml saline   | Send to Laboratory immediately                      |
| Wound Culture   | Opti-swab or other appropriate bacterial transport media                                  | 2-25°C up to 24hrs                                  |

# **SEROLOGY:**

Mono Spot and HIV's require a lavender top. ASO, RA, RPR and Rubella all require a red top tube.

#### **URINALYSIS:**

Urinalysis (UA) or any part of a UA requires a preferred volume of at least 10ml urine delivered to Laboratory within 60 minutes of collection or refrigerated. Minimum volume is 4 ml.

### HISTOLOGY/CYTOLOGY

- 1. Instructions for **ALL** specimens being sent for Cytology or Histology processing:
  - a. Each specimen container is to be labeled on the side (not the lid) with the following:
    - i. Patient identification (name, date of birth, MRN, account number)
    - ii. Container contents (date and time collected, specimen submitted)
    - iii. Submitting physician
  - b. Each submitted specimen is to be accompanied by an EMR order.
  - c. In the case of no EMR access or EMR downtime, a completed paper requisition identifying the patient's name, date of birth, MRN, account number, date and time of the procedure, patient history, the procedure, preoperative diagnosis, the specimen(s) submitted, and the doctor performing the procedure is to be submitted along with the specimen.

#### 2. CYTOLOGY SPECIMENS

- a. Non-Gynecological Specimens
  - i. Examples: Pleural fluids, pelvic washings, sputum, bronchial washings, urine, cyst fluid, etc.
  - ii. **DO NOT ADD FORMALIN** to these specimens; they are taken fresh to Histology/Cytology immediately
- b. Gynecological Specimens
  - i. Example: Pap smears, ECC brushings
  - ii. **DO NOT ADD FORMALIN**; these specimens are placed in ThinPrep solution

# 3. HISTOLOGY SPECIMENS

- a. Routine surgical specimens submitted for pathology review are placed in 10% neutral buffered formalin (NBF) which adequately covers the entire specimen
- b. Unsure/questions: Call Histology/Cytology [EXTENSION -3486] before adding any fixative

#### c. EXCEPTIONS:

- i. <u>Amputations</u> (above/below the knee, etc.): Placed in a biohazard bag and transported by surgery staff directly to the morgue refrigerator. The requisition is taken to Histology/Cytology.
- ii. Gout specimens: **DO NOT ADD FORMALIN**; submitted in 100% alcohol
- iii. Kidney stones: NO SOLUTION ADDED; specimen sent fresh

## iv. Muscle biopsies:

- 1. Specimen collected per reference laboratory guidelines (posted in the Pathology Laboratory/Frozen Section Room in Surgery)
  - a. Muscle samples must be at least 20 mm in length and 10 mm in diameter
  - b. Wrap muscle loosely in gauze that has been moistened with three (3) drops of saline only and place in plastic specimen cup with lid
- 2. Completed requisition and specimen are brought immediately to Histology/Cytology for transport

### v. Placental tissue for DNA/chromosome studies:

- 1. Specimen collected per reference laboratory guidelines (posted in the Pathology Laboratory/Frozen Section Room in Surgery)
  - Collection is done in Surgery/OB under sterile conditions
  - b. Fresh 3-10 mm³ tissue is collected aseptically and placed in a sterile container
- 2. After sample collection, the remainder of the placenta is placed in 10% NBF
- 3. All specimens are delivered immediately to Histology/Cytology for transport
- vi. <u>Testicular excisions</u>: **DO NOT ADD 10% NBF**; these are submitted in Bouin's solution

## 4. SUBMITTING SPECIMENS DURING WORK HOURS

- a. Surgical Specimens and accompanying paperwork are submitted in the two designated bins in surgery or brought to Histology/Cytology and placed in the Specimen Drop-off bin
- b. Fresh specimens and accompanying paperwork are brought to Histology/Cytology and staff is alerted

c. Pap specimens and accompanying paperwork are brought to Histology/Cytology and placed in the Specimen Drop-off bin

# 5. SUBMITTING SPECIMENS AFTER HOURS

- a. Specimens in 10% NBF and ThinPrep solution are placed with accompanying paperwork in the Specimen Drop-off bin in Histology/Cytology
- b. Specimens in the fresh state with accompanying paperwork are placed in the Pathology Specimen bin in the refrigerator in Histology/Cytology

| REFERENCES:                                     |                     |
|---|---------------------|
| RELATED POLICIES/FORMS:                         |                     |
| REGULATORY / ACCREDITATION STANDARDS ADDRESSED: |                     |
| REVIEWED BY:                                    | Laboratory Director |
| OWNER:  | Laboratory Manager  |
| KEYWORDS:                                       |                     |

## **HISTORY:**

| Approved:3/2021     |                    | Effective: 3/2021    |
|---------------------|--------------------|----------------------|
| Reviewed: 9/2022    | Revised:           | Effective: 9/2022    |
| Reviewed:03/2023    | Revised: 03/2023   | Effective: 03/2023   |
| Reviewed: 4-13-2024 | Revised: 4-13-2024 | Effective: 4-13-2024 |
| Reviewed: 5-21-2024 | Revised: 5-21-2024 | Effective: 5-21-2024 |
| Reviewed: 2-21-2025 | Revised:2-21-2025  | Effective: 2-21-2025 |