

# Directory of Laboratory Services

3/15/19

Date

Hani Hojjati, MD Laboratory Medical Director

Rev. March 2019

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## Laboratory Procedure Catalog

The Laboratory Catalog is updated frequently and should be referred to for current information. The laboratory procedure catalog is available in Guthrie's Electronic Medical Record, EPIC. A printable version is available at <u>www.Guthrie.org/LabServices</u> and is considered accurate only at the date and time it is generated. Printed copy is available upon request. Contact Laboratory Client Services at (844) 617-4719 for assistance. Guthrie and its reference laboratories are constantly increasing their test menus and improving their services. The most significant changes are communicated via technical bulletin.

## **Laboratory Client Services**

Laboratory Location	Office Support Hours of Operation	Phone	Fax
Sayre, PA	Monday – Friday 7:30 AM – 5:00 PM	(570) 887- 4719	(570) 887- 4729
		(844) 617-4719 toll free	
Corning, NY	Monday – Friday 8:00 AM – 4:30 PM	(607) 937-7271	(607) 937-7851
Cortland, NY	Monday – Friday 8:00 AM – 5:00 PM	(607) 756-3618	(607) 756-3636
	Saturday 8:00 AM – 12 Noon		
Towanda, PA	Monday – Friday 7:30 AM – 5:00 PM	(570) 268-2228 ext. 2466	(570) 268-2399
Troy, PA	Monday – Friday 7:30 AM – 5:00 PM	(570) 297-9289	(570) 297-3910

## **Guthrie Reference Laboratories**

Tests not performed in the Guthrie laboratory system are sent to one of the following New York State accredited laboratories:

- Quest Diagnostics
- LabCorp
- Specialized laboratories

## **Quality Assurance**

Guthrie Laboratory Services is committed to supporting health care providers in our region with highquality laboratory test results, covering a comprehensive menu of testing services. Guthrie's Quality Assurance (QA) program provides systematic monitoring and evaluation of the pre-analytical, analytical and post-analytical testing process. Performance improvement indicators are monitored regularly. QA is incorporated into every department. Guthrie is accredited by the College of American Pathologists (CAP), The Joint Commission (TJC) and conforms to stringent regulations required by CLIA, OSHA and CMS.

## Confidentiality

Guthrie is committed to protecting the confidentiality of individuals' laboratory test results and personal information in compliance with all federal, state and local regulations. Anonymous testing is available through the County Health Department. A complete list of health departments is available on the Guthrie Intranet or by calling the laboratory client services department.

## Lab Department Contacts

#### Medical Director

Medical Director and Department Chair Hai

#### Pathologists

Hani Hojjati, M.D.

Javad Beheshti, M.D. Perry Bradstreet, M.D.

Dilip Gupta, M.D. Ricky Hartman, D.O. Ashit Sarker, M.D.

#### **Administration**

Vice President of Laboratory Services

#### Sayre

Quality Assurance Manager Director of the Clinical Laboratory Regional Office Coordinator Point of Care Manager Blood Bank Supervisor Chemistry / Processing Supervisor Anatomic Pathology Supervisor Hematology Supervisor Histology Supervisor Microbiology Supervisor Phlebotomy / Courier Supervisor

#### **Corning**

Assistant Administrator Quality Coordinator Core Lab Coordinator Blood Bank Coordinator Microbiology & Send outs Histology Supervisor

#### **Cortland**

Administrative Director Quality Systems Supervisor Point of Care Coordinator Core Lab Supervisor

#### <u>Towanda</u>

Lab Manager

George Deratany, MA, MT(ASCP), CHC, CHPC

Barbara Hayes, MLS (ASCP) Nicole Osman MLS (ASCP) Tonya Wilhelm MT (ASCP) Karen Updegraff, MLS (ASCP) Barb Tubby MT (ASCP), SBB Nikki Wolfe MLS (ASCP) Sahar Halabi, CT (ASCP) Jennifer Lison, MT (ASCP) Ed Sperduto Maureen Villanti MT, (ASCP) SM

Patricia Butray-Frey, MT, MS Mary Ann Plumley, MT Kristy Edwards, HLT (ASCP) QIHC Melissa Bevins, MT John Haig, MT Linda Stirpe

Lisa Temple, MT (ASCP) Robin Puzo David McGowan Elaine Marsella

Kellie Perri, MT

#### <u>Troy</u>

Lab Supervisor

Stacy Pond, MS, MLS

#### FAX Numbers

Laboratory Department	Fax Number
Sayre, PA Laboratory Departments	
Blood Bank	(570) 887-4871
Client Services	(570) 887-4729
Microbiology	(570) 887-5528
Phlebotomy	(570) 887-3904
Off hours	(570) 887-5329
Corning, NY Laboratory	(607) 937-7851
Cortland, NY Laboratory	(607) 756-3123
Towanda, PA Laboratory	(570) 268-2399
Troy, PA Laboratory	(570) 297-3910

## **Patient Service Centers and Satellite Offices**

Patients may have blood specimens collected at most Guthrie's offices. Patients are encouraged to call their local office/draw station to confirm availability and ensure maximum convenience. A laboratory appointment may be required at some locations. Patients must have a laboratory order/requisition for laboratory specimens to be collected. Appendix A, laboratory requisitions.

## **Hours of Operation**

Up-to-date office hours are available on the Guthrie website, <u>www.Guthrie.org/LabServices</u> Phlebotomy sites are closed on Sundays and holidays.

Laboratory Testing Location	Hours of Oper	ation	Address	Phone
Guthrie Clinical Laboratories	24 hours a day	, 7 days per week	PA: Sayre, Towanda and Troy NY: Corning	Refer to client services above
Phlebotomy Service Location	Hours of Oper	ation	Address	Phone
Sayre, PA	Monday-Friday Saturday	7:00 AM - 5:30 PM 7:00 AM – 12 Noon	Guthrie Medical Office Building 2 <sup>nd</sup> Floor Phleb. Department 1 Guthrie Square Sayre, PA 18840	(570) 887-2588
Cortland, NY	Monday-Friday Saturday	6:00 AM – 5:00 PM 8:00 AM - 12 Noon	134 Homer Ave Cortland, NY 13045	(607) 756-3618
Cortland, NY	Monday	8:00 AM- 4:00 PM	4077 West Road Cortland, NY 13045	(607) 753-8590
Corning Centerway, NY	Monday-Friday Saturday	7:00 AM – 6:00 PM 7:00 AM – 12 Noon	Guthrie Medical Office Building 1 <sup>st</sup> Floor Phleb. Department 130 Centerway Corning, NY 14830	(607) 937-7607
Towanda, PA	Monday-Friday Saturday	6:00 AM – 8:00 PM 6:00 AM – 2:00 PM	91 Hospital Drive Towanda, PA 18848	(570) 268-2466
Troy, PA	Monday-Friday Saturday	6:00 AM - 7:00 PM 7:00 AM - 12 Noon	285 Guthrie Drive Troy, PA	(570) 297-9289
*Bath, NY	Monday-Friday	7:30 AM – 3:00 PM	47 West Steuben Street Bath, NY	(607)776-2781
*Erwin, NY	Monday-Friday	7:00 AM- 11:30 AM	9768 Liberty Drive Painted Post, NY	607-973-8000

\*Hospital deductibles may apply. Bath and Erwin are hospital phlebotomy sites.

Guthrie New York State Satellite Offices	Guthrie Pennsylvania Satellite Offices
Apalachin	Athens
Bath	Canton
Big Flats	Dushore
Big Flats Southern Tier Pediatrics	Mansfield
Corning Centerway	Mansfield University
Corning Southern Tier Pediatrics	Towanda
Corning Steuben	Troy
Cortland	Tunkhannock
Erwin	Wellsboro
Ithaca	Wyalusing
Owego	
Southport	
Vestal	
Waverly	

## Supplies

All supplies required for specimen collection are provided by Guthrie Laboratory Services. Order laboratory supplies using the laboratory supply requisition located in Appendix A. Fax the laboratory supply requisition to the number listed on the supply requisition. Order supplies one week in advance. Guthrie Clinic locations may request low volume supplies using the laboratory supply requisition.

Specimen collection supplies are used for Guthrie Laboratory testing only.

## Compliance

### Medicare

Medicare is a national health insurance program administered by the U.S. federal government. Medicare provides health insurance coverage to American citizens who are 65 years of age and older, who are under 65 and are permanently physically disabled, who have a congenital physical disability, or who meet other specimen criteria. Guthrie is a Medicare provider and is responsible to defend against fraud and abuse of Medicare and other government programs. The outpatient Medicare guidelines are complex. Understanding the payment rules for laboratory services is required to provide accurate coding and billing.

#### **Medical Necessity**

Physician and medical providers are free to order any test they judge appropriate for an individual patient. The Office of the Inspector General (OIG) and the Centers for Medicare and Medicare Services (CMS) require providers of laboratory services to advise physicians when they order tests on Medicare patients. Providers must only order those tests which they believe are medically necessary for patient diagnosis and treatment.

The laboratory services must be properly documented in the patient's medical record to be eligible for Medicare reimbursement. Medical documentation must reflect the services rendered, the extent of the service rendered and why the service is medically necessary. Healthcare providers use the ICD coding system for reporting and billing Medicare and other payment systems. The ICD coding system translates medical terminology into codes.

#### **ICD Diagnosis**

All laboratory orders must include an ICD diagnosis code that reflects the signs and symptoms to support medical necessity. The information is required to provide laboratory services. A signed Advanced Beneficiary Notice (ABN) must accompany the test requisition when test requests are not deemed medically necessary or are used for screening of Medicare patients.

Diagnostic coding must be coded to the highest level of specificity possible.

#### Advance Beneficiary Notice (ABN)

Medicare only pays for services that are determined to be reasonable and necessary for medical treatment and diagnosis under the Medicare law. If Medicare determines that a service is not reasonable or necessary under the Medicare Program Standards, Medicare denies payment for that service. By signing an ABN, the patient or responsible party is confirming agreement to assume financial responsibility for payment of the tests.

The ABN is generated automatically in the EPIC computer system or paper copies are available from the client services department. A signed copy of the ABN listing the test likely to be denied must be given to the patient prior to specimen collection. A second copy of the ABN must accompany the lab requisition and specimen.

An ABN is only obtained when appropriate. Inform the patient that the services are likely to be denied by Medicare. The patient must be given the choice of having or not having the lab specimen collected and understand they may receive a bill for the laboratory services.

#### **Billing and Crediting**

Guthrie accepts assignment for Medicare, Medicaid agencies and insurance carriers. To avoid billing errors all lab requisitions must be filled out completely. Guthrie's reference laboratories directly bill the patient or patient's insurance carrier.

## **Reporting Results**

Specimens are processed upon receipt. Reporting times vary depending on the nature of the test, the analytical time required for the procedure and the method of reporting.

**Communicating Urgent Results:** Critical values are results that are so far below or so far above the reference range that they have life threatening potential. The result must be verified, and the attending physician informed.

<u>Out-patients during normal working hours (8:00 AM-5:00 PM)</u>: the laboratory calls the physician's office noting the first and last name of the individual taking and reading back the test result.

<u>Out-patients after normal office hours</u>: the laboratory makes every attempt to notify the ordering provider. The provider's on-call service is notified when the ordering provider is not available. The laboratory attempts to contact the on-call service three times within 30 minutes. Each attempt is documented in the medical record.

Critical Results - Quantitative				
CHEMISTRY	Age	Less than	Greater than	Units
		or equal to	or equal to	
Glucose	Birth – 7 days	40	120	mg/ai
Glucose	8 days – 16 years	60	200	mg/dl
Glucose	17 years – Adult	50	500	mg/dl
Bilirubin	0 to 24 hours		10	mg/dl
Bilirubin	25 to 48 hours		14	mg/dl
Bilirubin	49 to 96 hours		18	mg/dl
Bilirubin	97 hours to adult		12	mg/dl
Sodium		120	160	mmol/L
Potassium		2.9	6.0	mmol/L
CO2		10	45	mmol/L
Calcium		6	13	mg/dl
Magnesium		1	4	mg/dl
Magnesium – OB		3.9	7.1	mg/dl
Lactic Acid			4	mmol/L
Ammonia*	Birth – 7 days		100	umol/L
Ammonia*	8 days – 30 days		80	umol/L
Ammonia*	31 days – Adult		60	umol/L
Troponin (First elevated value only)			0.12	ng/ml
Troponin iSTAT			0.08	ng/ml
Urine Protein (Female / pregnant patient			300mg/24 Hrs	
only)			Ū	
Hematology	Age	Less than	Greater than	Units
	-	or equal to	or equal to	
* Platelets	Birth – 17 years	50		K/ul
**Platelets	18 years and older	40	1000	K/ul
**WBC	2 days to adult	1	37	K/ul
WBC	0 – 1 day	1	50	K/ul
WBC (Known chronic lymphocytic leukemia)	-		100	K/ul
Hemoglobin	Birth to 17 years	7	N/A	g/dL
Hemoglobin	18 years +	7	20	g/dL
Hematocrit		22	60	%
**Neutrophil Absolute		0.5		K/uL
PTT		Ī	125	Second
				S
INR			5	Ratio

### **Critical Results – Quantitative Results**

\*\* First decreased value only for oncology outpatients reported from Guthrie Lab in the past 7 day

\* Reference: Harriet Lane Pediatric Handbook, 20th edition

### **Critical Results – Therapeutic Drugs**

THERAPEUTIC DRUGS	AGE	Less than	Greater than	Units
		or equal to	or equal to	
Acetaminophen			100	mcg/ml
Carbamazepine (Tegretol)			15	mcg/ml
Digoxin			2.5	ng/mL
Gentamicin Random			12	mcg/ml
Gentamicin Peak			12	mcg/ml
Gentamicin Trough			2	mcg/ml
Lithium			2	mmol/L
Phenytoin (Dilantin)			40	mcg/ml
Salicylate			30	mg/dl
Theophylline			25	mcg/ml
Tobramycin Random			12	mcg/ml
Tobramycin Peak			12	mcg/ml
Tobramycin Trough			2	mcg/ml
Valproic Acid			125	mcg/ml
Vancomycin Random			40	mcg/ml
Vancomycin Peak			40	mcg/ml
Vancomycin Trough	13 to adult	10	20	mcg/ml
Vancomycin Trough	0 – 12 years	5	20	mcg/ml
Amikacin Random			35	mcg/ml
Amikacin Peak			35	mcg/ml
Amikacin Trough			10	mcg/ml

Critical Values Updated 1/3/2019

## **Critical Results – Qualitative Results**

#### Hematology

Upon identification of a new leukemia or lymphoma, the pathologist on call notifies the ordering provider:

- First incidence of blasts or auer rods on blood smear
- Presence of blasts or microorganisms and intracellular bacteria in cerebrospinal fluid or body fluids
- Presence of any parasite on peripheral smear (i.e. Babesiosis, Ehrlichia and Malaria)

#### Microbiology

- \*\* Positive for MRSA by PCR
- \* Positive for C Diff by PCR

Positive results from Gram stain or culture from blood, cerebrospinal fluid or any other internal body fluid or organ.

\*\*Positive results for Influenza A/B virus, Respiratory Syncytial virus (RSV) and Rotavirus.

Positive urinary antigen test for Legionella pneumophila serogroup 1 and Streptococcus pneumoniae Positive culture for Legionella spp.

Positive culture for Cryptococcus neoformans

\*MDRO - Multi Drug Resistant Organisms (MRSA, VRE, ESBL AND KPC)

\*Outpatients. Monday-Friday up to 5 pm, as detected, after 5 pm and on Weekends and holidays, Called on next business day

\*\* Inpatients.

## **Stat Services**

**STAT Tests:** Select tests are available on a STAT basis. STAT results are reported electronically as soon as possible, usually within 45 minutes. Written and/or electronic reports follow per routine medical report delivery system. STAT tests include:

STAT TEST LIST		
Acetaminophen	HCG Qualitative (serum or urine) [1 hour]	
Acetone	HCG Quantitative (serum) [2 hours]	
Alcohol	Hemoglobin/Hematocrit	
ALT/AST	Influenza - A/B and RSV (1-hour turnaround)	
Ammonia	Intra Op Consult – Gross	
Amnisure	Lactic Acid	
Amylase	Legionella Urinary Antigen (2 hour turnaround)	
Antiglobulin Testing: direct and indirect coombs test	Lipase	
Bilirubin, Total and Direct, neonatal	Lithium	
BMP	Magnesium	
BNP (NT Pro BNP)	Mononucleosis Test	
Calcium	MRSA screen by PCR (2-hour turnaround)	
CBC with Diff	Myoglobin (serum)	
C Diff by PCR (2-hour turnaround)	Osmolality (serum or urine)	
Chloride		
СМР	Platelet Count	
CPK – CK	Potassium	
CKMB – MB	PT/INR (Prothrombin Time)	
CO2	PTT (Partial Thromboplastin Time)	
Creatinine/ eGFR		
D-Dimers	Rapid Strep Screen	
Drugs of Abuse Urine Screen	Salicylate	
Drugs: Digoxin, Theophylline, Dilantin, Vancomycin, Valproic Acid, Gentamicin, Tobramycin	Sodium	
Erythrocyte Sedimentation Rate:	Spinal Fluid Analysis (Cell Count, Glucose, Protein, Gram Stain)	
FFN (Fetal Fibronectin)	S. Pneumoniae urinary antigen (2-hour turnaround)	
Fibrinogen	Troponin I	
Fibrinogen Degradation Products	Transfusion Reaction Investigation Workup	
Fluid Cell Count and Glucose	Type & Screen and Prepare Blood Products	
Frozen Sections	Urea Nitrogen	
Gram Stain	Urinalysis	
Glucose	Chlamydia/GC screen by PCR (2-hour turnaround)	

Note: Other tests that are on occasion needed as STAT are TSH, Cortisol, Fetaldex (Kleihauer Betke) and special coagulation testing.

STAT List updated 5/15/2018

## **Patient Preparation**

Accurate laboratory results are directly related to the quality of specimen submitted for analysis. Requirements for collection and handling must be followed.

## **Health and Safety Precautions**

Use standard precautions when handling specimens containing blood or other potentially infectious material. Work areas contaminated with potentially infectious material must be disinfected immediately with an appropriate disinfectant such as 10% dilution of household bleach. In the event of an exposure, administer first aid immediately, notify the manager and/or supervisor and seek prompt medical attention. First aid includes washing cuts and needle sticks with soap and water; flushing splashes to the nose, mouth or skin with copious amounts of water and irrigating eyes with clean water, saline or sterile irrigants. Information on health and safety precautions is available from the U.S. Occupational Safety and Health Administration (OSHA) and the Centers for Disease Control and Prevention (CDC). Information is also available on the Guthrie intranet. All specimens must be submitted in sealed, leak-proof, bio-hazard bags.

## **Patient Preparation**

Many tests require specific patient preparation (e.g. fasting, diets, urinary voiding). Consult the Laboratory Procedure Catalog located on Guthrie's website, <u>www.Guthrie.org/LabServices</u> or contact Laboratory Client Services for information.

**Fasting Requirements** - Fasting specimens are preferred for some laboratory tests. Fasting is defined as no consumption of food or beverage, other than water, for 9-12 hours before testing. When fasting is required as part of patient preparation, the patient must refrain from strenuous exercise during the fasting period. Individuals must not become dehydrated, creating acute inflammation that may alter the test results.

**Provocation Tests –** Some laboratory tests require consumption of a substance prior to specimen collection. Glucose Tolerance tests require patients to drink a glucose solution. Blood specimens are obtained before ingestion and at various intervals after ingestion to measure blood glucose concentration.

\***Important note**: Lactose Tolerance Tests must be scheduled. See contact information above to schedule an appointment.

## **Proper Patient and Specimen Identification**

Patient's identity is confirmed by asking the patient to state and spell his/her name and date of birth. Patient identification bands are used to identify hospital patients and some outpatients. Scan the identification band and confirm the patient's identification by asking the patient to state and spell his/her name and date of birth.

All specimens must be labeled at the time of collection. **The two forms of patient identification must appear on the specimen and requisition.** Pre-labeling specimen containers is unacceptable. Laboratory orders are entered into the laboratory computer system generating a barcode label for each sample that needs to be collected. Immediately after specimen collection, at the patient's bedside/chairside, place the labels on the specimens. Care must be taken not to obscure the patient identification when a barcode label is placed over an existing label. Labels must be placed on the body of the specimen container and not applied to the specimen lid.

Hand-written labels are acceptable when barcode labels are not available. Complete a hand-written specimen label using a ballpoint pen. The label must be legible and contain **two forms of patient identification**. Guthrie specimen labels are available upon request using the laboratory supply requisition or from the Guthrie storeroom.

Specimens must be labeled with the following:

- The patient's first and last name (first form of patient identification)
- Medical Record Number and/or date of birth (second form of patient identification)
- Date and time of specimen collection
- The collector's identification (EPIC logon or collector's name)
- Specimen site and source for non-blood specimens

## **Receiving Laboratory Specimens**

Most laboratory specimens may be received at any Guthrie location. The receiving location must confirm the specimen(s) is properly labeled with the following information:

- The patient's first and last name
- Medical Record Number and/or date of birth
- Date and time of specimen collection
- The collector's identification (EPIC logon or collector's name)
- Specimen site and source for non-blood specimens

### **Unacceptable Specimens**

Specimens that do not meet the acceptance criteria are rejected as per policy. The originating location is notified when a specimen is rejected. Patients are not billed for rejected specimens.

- 1. Identification Specimen rejection criteria include:
  - Specimen not labeled
  - Labels and information for two patients on the same specimen
  - Site or source not provided for non-blood specimens
  - Wrong or inconsistent specimen information regarding site, source, or patient information
  - Labels placed on the specimen lid
  - Specimen label(s) illegible

Irretrievable specimens (i.e. spinal fluid, surgical specimens) are investigated and every effort is made to determine the appropriate identifying information to process and test the specimen. A Laboratory Unacceptable Specimen Authorization Form, supplied by the laboratory, is required. The individual accepting responsibility for the specimen identification must complete and sign the authorization form.

- 2. **Needles -** Guthrie Laboratory Services will not accept, transport or test specimens contained in a syringe with a needle attached. Specimens that are submitted in a syringe must have the needle removed and replaced with a Luer Lock cap that is available in the storeroom.
- 3. Leaking Guthrie Laboratory Services will not accept specimens that are visibly leaking at the time of receipt.
- 4. Insufficient Volume It is critical that an adequate specimen volume is submitted for analysis. The volume requested must be enough for initial analysis and for any confirmatory tests that are required. Initial, repeat or confirmatory tests cannot be performed, the laboratory reports QNS (Quantity Not Sufficient for testing).

## Laboratory Requisition Requirements

Specimens must be accompanied by a paper or electronic laboratory requisition. Paper requisitions must be legible. Place the requisition in the outside pocket of the bio-hazard bag. All laboratory orders must be entered in the laboratory computer system. Requisitions must contain the following information:

- 1. Adequate patient identification (name, address, telephone number)
- 2. Medical record number and/or date of birth
- 3. Name of the ordering provider and provider's address
- 4. Physician's signature
- 5. Appropriate ICD diagnosis code
- 6. Specimen type (site and source)
- 7. Identity of the collector
- 8. Date and time of specimen collection
- 9. Test(s) requested
- 10. Insurance information
- 11. Type of infection and/or organism expected when appropriate
- 12. Special collection requirements (fasting specimen) when appropriate

## **Transcribing Laboratory Orders**

Paper laboratory requisitions must be transcribed into the laboratory computer system.

- 1. Register the patient/specimen and confirm insurance coverage in the computer system.
- 2. Enter the laboratory order/s using the Order Entry activity.
- 3. Change the Order Mode to Transcription.
- 4. Enter the ordering provider. The Guthrie provider dictionary is available by default. Enter External Provider to activate the non-Guthrie/external provider dictionary.
- 5. Enter the authorizing provider. The authorizing provider receives laboratory results automatically by fax or within the EPIC computer system. If the external provider is not listed, enter external provider in the authorizing provider field.
- 6. Results are routed to multiple providers using the Specimen Update Activity. Carbon Copy CC results to any provider by entering \* and free text the provider's name and fax number.
- 7. Add a small aliquot label to the original laboratory requisition and send the requisition with the specimen to the laboratory. Laboratory Client Services scans the requisition into the patient's record and has the new provider added to the LIS.

## Addition of Tests After Submission of Specimen

### 1. Internal Electronic Add-On Orders:

- a. Adding tests to specimen collected within the last 24 hours Epic automatically prompts the ordering user if there is another specimen collected within the last 24 hours. Answer yes to the prompt "Do you want to add tests to the existing specimen?"
- b. Adding tests to specimens greater than 24 hours old Place a laboratory "Add On" order. Laboratory staff notifies the patient's nurse, unit clerk, or the outpatient office if the test cannot be performed.
- 2. External Providers Verbal Add-On Orders: Contact the Laboratory Client Services department to add additional tests. Laboratory personnel enter the "Verbal Order" and read back the order. Read back confirmation is documented in the electronic medical record. Written authorization is required for the addition of laboratory tests.
- 3. **Reflex Testing:** Several laboratory tests may require additional testing. When additional testing is required by law or indicated by good medical practice, the laboratory automatically performs and bills for the additional test(s).

## **Specimen Collection and Processing**

## **Blood Sample Collection**

Most blood specimens are obtained using routine phlebotomy techniques; however, there are exceptions. The use of a tourniquet can cause stress and is not recommended in all cases. Instruct patients not to clench their fists(s) prior to or during the phlebotomy procedure. Fist clenching leads to hemolysis that may alter the patient's laboratory results, such as the concentration of potassium in serum. The patient's posture (sitting, standing or supine), or the time of day of phlebotomy are key factors for some tests (e.g. therapeutic drug monitoring and hormone tests). Consult the Laboratory Procedure Catalog before specimen collection.

Collect blood in the color-coded test tube indicated in the procedure. Collect approximately 2 ½ times the requested blood volume for tests that require serum or plasma. Completely fill the test tube to eliminate dilution from anticoagulant or preservative. Immediately mix the blood by gently and thoroughly inverting the test tube 5-10 times. Serum samples must be allowed to clot in an upright position for at least 30 minutes, but not longer than 2 hours before centrifugation.

#### **Pediatric Collection Volumes:**

Consideration must be given when infants and children are drawn for laboratory testing. Collect the necessary and minimum volume required for requested tests. Follow the recommended maximum draw volume in the following table.

(lbc) W	eight (kg)	Maximum Amount Drawn at One Time	Maximum Amount Drawn at One Month
(IDS)	(Kg)	(mL)	(mL)
6.0-7.9	2.70-3.62	2.5	23
8.0-9.9	3.63-4.53	3.5	30
10.0-15.9	4.54-7.25	5	40
16.0-20.9	7.26-9.52	10	60
21.0-25.9	9.53-11.78	10	70
26.0-30.9	11.79-14.05	10	80
31.0-35.9	14.06-16.32	10	100
36.0-40.9	16.33-18.59	10	130
41.0-45.9	18.60-20.86	20	140
46.0-50.9	20.87-23.12	20	160
51.0-55.9	23.13-25.39	20	180
56.0-60.9	25.40-27.66	20	200
61.0-65.9	27.67-29.93	25	220
66.0-69.9	29.94-32.20	30	240
70.0-75.9	32.21-34.46	30	250
76.0-80.9	34.47-36.73	30	270
81.0-85.9	36.74-39.00	30	290
86.0-90.9	39.01-41.27	30	310
91.0-95.9	41.28-43.53	30	330
96.0-100.9	43.54-45.80	30	350
Adapted from Becan-Mcbride K: Textbook Of Clinical Laboratory Supervision, New York, Appleton-Century-Crofts, 1982, with permission. Phlebotomy Handbook, By Diane Garza and Kathleen Becan-McBride. Copyright 1984 By Appleton-Century-Crofts, East Norwalk, CT. Nelson Textbook of Pediatrics, 16th Edition, Edited by R.E. Behrman, R.M. Kliegman, and H.B. Jenson, © 2000 by W.B. Saunders Co., Philadelphia, PA. Saunders Manual of Pediatric Practice, Edited by L. Finberg, Copyright 1998 by W.B. Saunders Co., Philadelphia, PA. Children's Hospital of Seattle Maximum Allowable Blood Draw Volumes, by Rona Jack, Ph.D.			
Maximum Amounts of Blood to be Drawn From Patients Younger than 14			

Standard Maximum Blood Draw for Patients Under

Years, available online at Drgreene.com/article/how-much-blood-too-muchguideline

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**Hand Washing:** Gloves must be worn and changed after each phlebotomy procedure. Hands must be disinfected using soap and water or approved waterless antiseptic between each patient.

**Sharps Disposal**: Needles, lancets and any other sharps that can easily puncture the skin must be handled with extreme caution. Needles must not be recapped, bent, broken or cut. Needles are not removed from syringes or vacutainer adapters. Dispose of the entire device with the needle attached. Fill red sharps biohazard containers to the indicated level only, do not overfill.

## **Specimen Processing**

Consult the Laboratory Procedure Catalog for individual test requirements.

### Whole Blood

Collect an adequate volume of blood, filling the tube to capacity. Partial filling results in distortions caused by the osmolality of the anticoagulant. Blue top sodium citrate anticoagulation test tubes must be completely full. Under filled test tubes are rejected. When collecting test tubes containing additives, i.e. purple and pink-top tubes containing EDTA or blue-top tubes containing sodium citrate, immediately mix the blood by inverting 8 times. Incomplete mixing or delay in mixing after phlebotomy results in microscopic partial clotting that causes inaccurate test results. Unless otherwise directed, never freeze whole blood or place specimens in direct contact with ice packs. Direct contact with ice will cause hemolysis.

### Plasma

Plasma separator tubes (PST, light-green top tubes) are recommended for most tests performed using plasma. PST tubes contain anticoagulant however there are many types of anticoagulated test tubes that can produce plasma specimens. Refer to the Laboratory Procedure Catalog for collection requirements. Fill the test tube(s) to capacity. Partial filling results in dilution of the sample.

- 1. Mix the test tube by gently inverting the tube 5-10 times immediately following blood collection.
- 2. Centrifuge for at least 10 minutes at 3,300-3,500 RPM within two hours of collection.
- 3. Tubes must always remain closed and stoppered during the centrifugation process.
- 4. Transfer the plasma into a properly labeled, clean, plastic, aliquot tube/vial, when indicated.
- 5. Do not transfer red blood cells to the vial. If red blood cells are transferred, centrifuge the aliquot tube/vial for 10 minutes and repeat step 4. Make certain to properly balance the centrifuge prior to spinning.
- 6. Seal the aliquot tube/vial and verify the cap is tight to prevent leakage.

## Serum

Serum separator tubes (SST, gold-top tubes) are recommended for most tests performed using serum. SST tubes contain clot activator however red top tubes (additive-free tube) can be used for serum specimens. Refer to the Laboratory Procedure Catalog for collection requirements. Fill the test tube to capacity. Partial filling of the test tubes results in higher serum concentrations of tube additives (clot activators) and alters the results of some tests.

- Mix the test tube by gently inverting the tube 5-10 times immediately following blood collection. Less than 5 inversions may result in incomplete clotting and incomplete separation of red cells from serum. Hemolysis or even a small number of red cells remaining above the gel in contact with serum elevates results of some tests such as serum potassium and LDH.
- 2. Allow blood to clot in an upright position for at least 30 minutes, but no longer than 2 hours before centrifugation.
- 3. Centrifuge for at least 10 minutes at 3,300-3,500 RPM within 2 hours of collection.
- 4. Serum separator tubes must not be refrigerated before centrifugation.
- 5. Tubes must remain closed and stoppered during the centrifugation process.
- 6. When indicated, transfer serum to a properly labeled, clean, plastic, tightly capped vial. Do not transfer red cells to the vial. Verify the cap is tightly sealed to prevent leakage.

#### **Therapeutic Drug Monitoring**

Therapeutic drug monitoring is performed using red-top, additive-free test tubes that do not contain a gel barrier. SST tubes **are not acceptable for drug monitoring**. The polyester in the separator gel can extract substances and cause a falsely low drug concentration result.

## Centrifuge

Operate centrifuges according to the manufacturer's instructions. The centrifuge must be calibrated annually. In the event of a centrifuge malfunction, contact Guthrie Laboratory Service to arrange for a replacement.



## Body Fluids (excluding cerebral spinal fluid)

Body fluids must be collected using aseptic technique. Immediately place body fluid specimens into the appropriate specimen container/s to prevent clotting. Invert the test tube 6-10 times to completely mix the anticoagulant and body fluid. Label the specimens noting the body fluid source.

- Body Fluid Cell Counts and Differentials are collected using a lavender-top EDTA test tube. Body fluid is stable up to 48 hours refrigerated.
- Body Fluid Chemistry and Crystals are collected using a white-top no additive body fluid test tube. Body fluid is stable up to 48 hours refrigerated.
- Body Fluid Culture: refer to the Lab Procedure Catalog, microbiology culture. Body fluids submitted for culture are stable up to 24 hours at room temperature.
- Body Fluid Cytology: refer to cytology section for body fluid collection instructions.

## Urine

Normal composition of urine varies considerably during a 24-hour period. Freshly voided, first morning specimens are preferred. First morning specimens have a uniform volume and concentration and a lower pH which helps preserve formed elements. Mid-stream urine collection is best to help prevent contamination. Unpreserved urine specimens **must** be refrigerated within 2 hours of collection for urinalysis testing and within 10 minutes for urine cultures. Patient collection instructions are available in Appendix A and at <u>www.Guthrie.org/LabServices</u>.

URINALYSIS: Collect a mid-stream urine specimen into a clean, dry specimen container.

- 1. Instruct the patient to begin urinating into the toilet.
- 2. Midway through urination, use a specimen container to collect urine without stopping the flow of the urine. Fill the specimen container until it is ½ full.
- 3. Finish urinating into the toilet.
- 4. Immediately transfer the urine into a urinalysis yellow-stoppered test tube using a needled transfer device (straw).
- 5. Label the specimen container with the patient's name and date of birth and /or medical record number.
- 6. Store and transport urinalysis specimens refrigerated.
- 7. Urinalysis test tube specimens cannot be used for urine culture.

Note: Low volume urine specimens or specimens that cannot be transferred into a test tube may be submitted in the original specimen container if refrigerated within 2 hours of collection. Unpreserved urine must be kept refrigerated.

CULTURE AND SENSITIVITY: Collect a clean-catch urine specimen into a sterile specimen container.

- 1. Instruct the patient to wash hands with soap and water.
- 2. Remove the lid of the urine container, taking care not to touch the inside of the container. Keep the container within reach.
- 3. Females: Gently wash the vulva area well using the provided antiseptic towelette washing from front to back. Keep labia separated with your fingers. Males: Gently wash the tip of the penis using the provided towelette.
- 4. Pass a small amount of urine into the toilet bowl and stop. \*Some people find it difficult to stop urinating once they have started. If this is a problem, do not try to stop. Catch some urine in the cup a few seconds after the stream has begun.
- 5. Place the empty container in the path of the stream.
- 6. Restart the urine stream into the container. Stop when the container is approximately ½ full.
- 7. Finish urinating into the toilet.
- 8. Immediately transfer the urine into a urine culture preservative tube using a needled transfer device (straw).
- 9. Label the specimen container with the patient's name and date of birth and /or medical record number.
- 10. Store and transport preserved urine culture tubes at room temperature. Preserved urine is stable up to 48 hours at room temperature.

Note: Low volume urine specimens or specimens that cannot be transferred into a test tube may be submitted in the original specimen container if refrigerated within 10 minutes of collection. Unpreserved urine must be kept refrigerated up to 24 hours.

**URINE PAIN MANAGEMENT PROFILE:** Urine must be collected in the office using a temperature sensitive collection container. Document the urine temperature immediately after specimen collection. Urine specimens that do not meet the temperature requirement or are collected outside the office are rejected.

**URINE CYTOLOGY:** Refer to the cytology section for urine collection instructions.

## 24-Hour Urine

Proper collection, preservation and volume measurement are essential for accurate 24-hour test results. Instruct patients in proper collection procedure. Patient collection instructions and labels are available in Appendix A and at <u>www.Guthrie.org/LabServices</u>.

In the interest of patient safety – containers are issued <u>without</u> preservative. Instruct patients to keep specimen(s) refrigerated. Preservatives are added upon receipt in the laboratory.

- Obtain a plain (no additive) or acid washed 24-hour urine from the laboratory or via Guthrie's purchasing system. Contact the laboratory three days in advance of desired collection day. Refer to the Lab Procedure Catalog for preservative requirements. (Acid washed 24-hour urine containers are used for trace metal tests.)
- 2. Label all containers with a 24-hour urine instruction label. Write the patient's name and medical record number or date of birth, ordering provider and test on the container label.
- 3. Provide the patient with a toilet inset "hat", labeled 24-urine jug(s), a zip-lock bag for the container(s) and instruction handout.
- 4. Patient instructions: Unless the physician indicates otherwise, instruct the patient to maintain normal liquid intake. **DO NOT** consume alcoholic beverages.
  - a. On wakening, the patient empties his bladder. The urine is discarded. This is the start of the 24-hour collection period. Write the start time on the urine container.
  - b. Collect all specimens voided after the initial specimen into the 24-hour urine container.
  - c. The first specimen voided the following morning at the same time as the previous morning is added to the 24-hour urine container. This is the end of the 24-hour collection. Write the end time on the 24-hour urine container.
  - d. If more than one 24-hour urine collection is ordered and requires an acid washed container, the patient must collect two 24-hour urine samples.
- 5. 24-hour urine samples must be stored and transported refrigerated.

NOTE: A serum creatinine must be collected during the 24-hour urine collection process, when a creatinine clearance is ordered. Submit the urine specimen accompanied by the serum creatinine. Order both serum and 24-hour urine creatinine test.

#### 24-Hour Urine Preservatives are added once the specimen is received in the laboratory.

- Boric acid (4 Tablets)
- HCI 6 Normal (25 ml)

### Sputum

Early morning sputum obtained after a deep cough is preferred. Do not pool sputum samples. Patients rinse his/her mouth with water before sputum is collected. Avoid adding saliva or nasopharyngeal discharges to the sputum sample. Collect sputum in a sterile container. Lower respiratory tract specimens are collected by bronchoscopy or transtracheal aspiration avoiding contamination by oropharyngeal flora. Sputum specimens are stable up to 24 hours refrigerated.

## Stool

Provide individual containers for <u>each</u> stool test. Stool that is frozen cannot be thawed and separated. Provide the patient with a stool collection instruction guide available in Appendix A online at <u>www.Guthrie.org/LabServices</u>. Refer to the Laboratory Procedure Catalog for test requirements.

**STOOL CHEMISTRY TEST(s):** Collect timed specimens (12, 24, 48, 72 hours) in a plastic container available from Guthrie Laboratory Services. Label the container with the date and time of collection, the patient's name and date of birth or medical record number.

### STOOL CULTURE (orange cap with additive-Cary-Blair)

Stool must not be contaminated with urine or toilet water. Patients must not take any anti-diarrhea preparations (e.g., Imodium, Pepto-Bismol) or have had a barium enema within the previous 10 days.

- 1. Add stool to the Cary Blair vial up to the red line using the attached spork.
- 2. MIX WELL. No solid stool pieces should remain. Unmixed specimens are rejected.
- 3. Label the container with the date and time of collection, patient's name, date of birth and /or medical record number.
- 4. Store the container refrigerated up to 72 hours after collection.
- 5. Return the container to your physician's office or a Guthrie Hospital Laboratory.

#### OVA AND PARASITE EXTENSIVE (black cap with additive)

Stool specimens must not be contaminated with urine or toilet water.

- 1. Add stool to the vial up to the red line using attached spork.
- 2. MIX WELL. No solid stool pieces should remain. Unmixed specimens are rejected.
- 3. Label the container with the date and time of collection, patient's name, date of birth and /or medical record number.
- 4. Store the container at room temperature.
- 5. Return the container to your physician's office or a Guthrie Hospital Laboratory.

### GIARDIA/CRYPTOSPORIDIUM or OVA/PARASITE BASIC (orange cap with additive-Cary-Blair)

Stool specimen must not be contaminated with urine or water.

- 1. Add stool to the vial up to the red line using the attached spork.
- 2. MIX WELL. No solid stool pieces should remain. Unmixed specimens are rejected.
- 3. Label the container with the date and time of collection, patient's name, date of birth and /or medical record number.
- 4. Store the container refrigerated up to 72 hours after collection.
- 5. Return the container to your physician's office or a Guthrie Hospital Laboratory.

#### C. DIFFICILE (sterile container)

Stool specimen must not be contaminated urine or toilet water.

- 1. Collect at least 5 mL (2 tablespoons) of fresh stool and place in a sterile screw-capped container.
- Label the container with the date and time of collection, patient's name, date of birth and /or medical record number.
- 3. Store the container refrigerated up to 5 days after collection.
- 4. Collect no more than one sample within a 24-hour period.
- 5. Return the container to your physician's office or a Guthrie Hospital Laboratory.

#### FIT Test – Fecal Immunochemical Test

A stool specimen must be collected using a FIT collection kit available from Guthrie Laboratory Services or via Guthrie's supply system.

## Semen

Specimen containers must be labeled with the patient's first and last name and the patient's medical record number or date of birth. Containers without two identifiers are rejected.

Collect seminal fluid by masturbation without aid of a lubricant directly into a clean, dry, room temperature, plastic specimen container. A specimen collected in any way other than masturbation is not acceptable because it may interfere with the test results. The use of a condom for specimen collection is not acceptable because it also may interfere with the test results.

### FERTILITY SEMEN SPECIMEN:

- 1. Abstain from ejaculation (sexual activity/intercourse) for at least 48 hours but not more than 7 days before collecting this specimen.
- 2. Urinate and wash your hands prior to specimen collection. This will prevent bacterial contamination.
- 3. Care must be taken to collect the entire specimen in the container. Loss of the first portion of the ejaculate may result in a decreased sperm count. Do not contaminate the specimen.
- 4. Confirm the specimen container is tightly sealed.
- 5. The specimen must be received in the hospital laboratory within 1 hour of specimen collection.
- 6. The specimen must remain at body temperature during transport. This can be accomplished by carrying the sample in an inside pocket.

#### POST VASECTOMY SEMEN SPECMEN:

- 1. Abstain from ejaculation (sexual activity/intercourse) for at least 24 hours before collecting this specimen. However, do not abstain for longer than 3 days before specimen collection.
- 2. Care must be taken to collect the entire specimen in the container. Do not contaminate the specimen.
- 3. Confirm the specimen container is tightly sealed.
- 4. The specimen is taken to any Guthrie location within 24 hours of specimen collection.
- 5. The specimen must be stored at room temperatyre.

#### Fertility or vasectomy reversal semen specimen must be delivered to Guthrie-Sayre or Guthrie-Corning hospital laboratory immediately. Satellite offices cannot accept semen for fertility testing.

Post-vasectomy semen specimens can be received at any satellite location. The source, date and time of specimen collection must be noted on the label. Store and transport at room temperature.

Patient instructions are available in Appendix A and online at <u>www.Guthrie.org/LabServices</u>.

## **Blood Smear Preparation**

Blood smears are required for Complete Blood Counts (CBCs) not performed within 24 hours of specimen collection. A peripheral smear is used to perform the manual differential when significant abnormalities are detected. Fresh blood is required to prepare a smear and cannot be made from blood older than 24 hours.

1. Label the frosted-end of the glass slide with a printed Bar-Code label or use a **pencil** to write the patient's full name and date of birth or medical record number.

The bar-code label must be placed on the <u>back</u> of the frosted edge of the slide.



The blood specimen must be on the top of the slide.

- 2. Don gloves and thoroughly mix the EDTA whole blood specimen by inverting the test tube a minimum of 8 times.
- 3. Insert a "Diff-Safe" dispenser (available from the Guthrie laboratory) through the rubber stopper of the blood-filled test tube. Hold the test tube upside down and gently press the Diff-Safe dispenser onto the labeled slide dispensing a small drop of blood (approximately 5-7 mm in diameter) ½ inch from the frosted end of the slide.
- 4. Hold a second slide at a 30° angle. Maintain contact with the bottom of the slide. Pull the top slide back into contact with the drop of blood. The blood spreads by capillary action.
- 5. Maintain firm contact with the bottom slide and push the top slide in one motion to produce a thin smear.



- 6. A feathered edge must be observed at the end of the smear. The smear cannot contain any lines, ridges or bubbles. The entire smear must not cover more than 2/3 of the slide area.
- 7. Allow the smear to air dry.
- 8. Place the dry slide in a slide holder. Store and transport the slide at room temperature.

#### Troubleshooting poor blood smears

- 1. The drop of blood is too large or too small.
- 2. The spreader slide is pushed across the slide in a jerking manner.
- 3. Failure to keep the entire edge of the spreader slide against the slide while making the smear.
- 4. Failure to keep the spreader slide at a 30° angle. Increasing the angle results in a thick smear and a smaller angle yields a thin smear.
- 5. Failure to push the spread slide completely across the slide.
- 6. Glass slides must be scrupulously clean, do not reuse glass slides
- 7. Failure to make the smear immediately after placing the drop of blood on the slide.



Good quality

## **Flow Cytometry**

Immunophenotyping is performed at Guthrie's reference laboratories. Refer to the Laboratory Procedure Catalog for specimen collection requirements.

Flow Cytometry Tests Include:

- T-cell Subsets
- T&B-cell Subsets
- Leukemia/Lymphoma Panel

Common synonyms include:

T&B cell quantitation (total), Helper/suppressor T cells (CD4/CD8), Natural Killer Cells, CD4 Count, T&B Lymphocyte Subset Assay, Lymphocyte Receptor Studies, Lymphocyte Subset Identification, T&B Lymphocyte Analysis, Assay, Lymphocyte Marker Studies, Lymphocyte Subset Analysis, Typing, T&B Cell Typing, T&B Lymphocyte Assay.

### **Anatomic Pathology/ Surgical Specimens**

Anatomic pathology services are provided by Guthrie Sayre Laboratory. The hours of operation are Monday through Friday, 8:00 am - 5:00 pm. All specimens received after 4:00 pm or on weekends are processed the next working day. An on-call pathologist is available by contacting Guthrie's telephone operator, (570) 888-6666.

### **Routine Specimens:**

Immediately place tissue specimen(s) in a tightly secured container with 10% neutral buffered formalin. The specimen must be completely submerged in formalin. Do not allow the specimen to dry. Use a separate container for each separately identified specimen. Do not force a large specimen into a small container. Formalin must surround the tissue. Label specimens with the correct patient label, noting the site and source of each specimen. Place the labels on the body of each container. Labeling the lid(s) is unacceptable.

- Site where the specimen was removed (left foot)
- Source what the specimen is (mole, lesion, CSF)

### Intraoperative Consultation (IOC):

Specimens submitted for IOC must be delivered to the lab fresh (without formalin) and as soon as possible. Contact the histology department at (570) 887-4173 during normal business hours to arrange for an IOC specimen. Notify the on-call pathologist through the Guthrie telephone operator for IOC that occur after normal business hours.

#### **Specimens that Require Special Handling:**

Specimens that require special handling and collection must be sent fresh (without formalin). Special handling specimens include:

- Breast Tissue (biopsy, excision, partial or total mastectomy
- Lymph Nodes or Other Tissue for Flow Cytometry (biopsy or excision)
- Calculi for Chemical Analysis
- Gross Only Specimens (medical devices, medical/legal cases, teeth, etc.)
- Tissue for Immunofluorescence (fresh or saline)
- Tissue for Gout
- POC for Cytogenetics
- Large Specimens that cannot fit in the largest container available (for example total colon, leg amputation, etc.)

Refer to the Surgical Pathology Specimen Collection and Handling Policy located on Guthrie's intranet or contact laboratory client services at (570) 887-4719 for a copy of the policy.

## **Transfusion Services (Blood Bank)**

Patients who require blood or blood product transfusion must have pre-transfusion testing. Blood specimens are collected at any Guthrie Hospital location. Specimens must be collected where the patient will receive the possible transfusion. Patients receive an identification wristband that must remain in place from the time the blood sample is collected until the blood transfusion is complete.

Autologous (self) blood collection requests are referred to the local American Red Cross.

### **Therapeutic Phlebotomy**

Therapeutic phlebotomy is performed to remove excess blood from a patient for his or /her health benefit. This blood is discarded. All therapeutic phlebotomies are scheduled with the Guthrie infusion center.

## Virology

#### **Guthrie Laboratory Services offer:**

- Influenza A and B
- Respiratory Syncytial Virus (RSV)
- Rotavirus antigen tests

Other viral tests/cultures are referred to reference laboratories.

#### Virology Specimen Storage and Transport

Specimens for viral isolation must be collected when the virus is at its highest concentration, during the acute phase of the illness. Routine testing (Influenza and RSV) is not recommended outside of the respiratory virus season due to low specificity. Conventional viral culture can routinely detect the following viruses: adenovirus, cytomegalovirus (CMV), enterovirus, herpes simplex virus, varicella-zoster which can take up to 4 weeks for final test results.

Viral collection kits are available from Guthrie's send out department and may by ordered using the laboratory supply requisition located in appendix A or www.Guthrie.org/LabServices.

- Cervical
- Lesion/other
- Nasopharynx mini-tip
- Urethral

Confirm the expiration date of the viral kit(s) prior to specimen collection. All virology specimens Must be placed into viral culture media (VCM) IMMEDIATELY after collection. Store and transport viral cultures refrigerated. Specimens must be received in the laboratory within 48 hours of collection. All specimens must be properly labeled noting the specimen site and source. Refer to the Lab Procedure Catalog for specific specimen requirements regarding viral testing. Store the VCM media at room temperature until inoculated.

## **Microbiology Bacteria Cultures**

Successful isolation of potential pathogens depends upon proper specimen collection, transport and timely delivery to the laboratory. Refer to the Lab Procedure Catalog for collection instructions. Specimens must be collected prior to the administration antimicrobial therapy and early in the disease for best results. Always collect enough quantity, use appropriate transport devices (tightly sealed, sterile, leak-proof containers), deliver promptly or preserve the specimen if processing is delayed. Note the specimen site and source on the specimen and requisition.

Handle all microbiologic specimens as potentially hazardous and follow standard precautions.

Refer to the *Microbiology Specimen Collection Guide* available in Appendix B and at <u>www.Guthrie.org/LabServices</u> -

#### **AEROBIC CULTURE**

Refer to the Laboratory Procedure Catalog, culture and sensitivity for collection requirements. Properly label specimens noting the specimen site and source on all samples.

#### ANAEROBIC CULTURE

Use an E-Swab Regular to collect specimens for anaerobic culture. Anaerobic cultures include an aerobic culture. Confirm the E-Swab expiration date. Do not use an expired device.

Tissue for anaerobic culture - Submit tissue specimens for anaerobic culture in sterile containers and IMMEDIATELY transported to the laboratory.

Body Fluids for anaerobic culture - Collect large volume, non-bloody, body fluids (> 3ml) in a plastic syringe. Remove the needle, expel air and re-cap the syringe using a Luer lock cap and transport to the laboratory IMMEDIATELY.

Store and transport all anaerobic cultures at room temperature.

Specimens Acceptable for Anaerobic Culture:

- Abscess aspirates
- Blood Culture
- Body fluids
- Bone
- Bronchial brush
- CSF (cerebrospinal fluid)
- Deep wounds
- Genital specimens from culdocentesis or abscess
- Suprapubic bladder aspiration
- Tissue
- Transtracheal aspiration

## **Blood Cultures**

Refer to the Laboratory Procedure Catalog for collection instructions.

- Blood Culture Adult
- Blood Culture Pediatric
- Blood Culture Fungal
- Blood Culture Mycobacterium

## **Fungal Culture**

Hair, skin and nail fungal cultures must include both abnormal hairs removed with forceps and scales collected by scraping. Take nail specimens from the proximal portion of the nail plate. Do not submit initial nail clippings (tips of nails). Nail clippings of at least 3 mm in length must be obtained. Submit all hair, nail and skin specimens in a sterile container.

Fungal specimens must be stored and transported at room temperature. Label specimens noting the specimen source. Do not submit specimens if the patient is currently undergoing antifungal therapy

### Mycobacteria / TB Culture

Mycobacterial cultures are sent to reference laboratories. Allow 8 weeks for final test results. Refer to the Laboratory Procedure Catalog for specimen collection instructions.

### **Parasites**

Refer to the Laboratory Procedure Catalog for collection instructions. No more than 2 -3 specimens (one every two or three days) are accepted for extensive parasite exam or for antigen testing.

Acceptable specimens for Parasite Detection:

- Stool
  - 1. Basic Ova and Parasite Test (performed at Guthrie) includes: Giardia and Cryptosporidium Antigen
  - Extensive Ova and Parasite Test includes Giardia and Cryptosporidium Antigen (performed at Guthrie) Microscopic examination (performed at reference laboratory)
- Perianal region pinworm detection
- Vaginal Trichomonas detection
- Various Worm / Insect identification (performed at reference laboratory)

## Cytology

Cytology services are offered at Guthrie-Sayre only. Hours of operation: Monday thru Friday 7:00 AM – 4:30 PM. Question are addressed by contacting the Cytology Department (570) 887-5610. Complete a cytology lab requisition for all Cytology lab orders. Requisitions available electronically in EPIC or upon request

**Specimen Collection:** The quality of the cytology diagnosis depends in equal measure to the excellence of the clinical procedure that is used to secure the sample. The best quality smears especially from fine needle aspirates are those obtained with the cytologists in attendance.

## **ThinPrep Pap Collection**

Plastic Spatula:	Obtain an adequate sampling from the ectocervix using a <i>plastic</i> spatula
A CONTRACT OF A	Rinse the spatula as quickly as possible into the PreservCyt® Solution vial by swirling the spatula vigorously in the vial 10 times. Discard the spatula.
Endocervical Brush:	Obtain an adequate sampling from the endocervix using an endocervical brush device. Insert the brush into the cervix until only the bottom-most fibers are exposed. Slowly rotate ¼ or ½ turn in one direction. DO NOT OVER ROTATE.
	Rinse the brush as quickly as possible in the PreservCyt® Solution by rotating the device in the solution 10 times while pushing against the vial wall. Swirl the brush vigorously to further release the material. Discard the brush.
Broom-Like Device:	Obtain an adequate sampling from the cervix using a broom-like device. Insert the central bristles of the broom into the endocervical canal deep enough to allow the shorter bristles to fully contact the endocervix. Push gently and rotate the broom in a clockwise direction 5times.
	Rinse the broom as quickly as possible into the PreservCyt® Solution vial by pushing the broom into the bottom of the vial 10 times, forcing the bristles apart. The last step; swirl the broom vigorously to further release material. Discard the collection device.
Labeling and Transportation:	Tighten the cap so that the torque line on the cap passes the torque line on the vial.
	Record the patients name and MRN on the vial Record the patient information and medical history on the cytology requisition form. Place the vial and requisition in a specimen bag for transport to the laboratory.

## **Cytology FNA Smear Preparation:**

Label frosted-end glass slides using a **pencil or Leica marking pen**, noting patient's first and last name, medical record number (MRN), and site of specimen.

Retrieve the needle from the physician performing the FNA and place a small drop on one labeled microscope slide. Immediately place a second labeled clean microscope slide (face down) over the small drop of specimen on the first slide and pull apart. Immediately spray one microscope slide with BD Clay Adams<sup>™</sup> Brand Spray-Cyte Water Soluble Fixative or with **Surgipath** Cytology Fixative by Leica and set the second slide aside to air dry. The fixed slide can also be fixed by immersing the slide into 95% Ethyl Alcohol for 3-5 minutes, then removed and allowed to dry. Label the slide fixed or air-dried by writing "Air" or "Fixed" on the frosted-end with a pencil or Leica marking pen. The "Fixed" slide is sprayed with spray fix or immersed in alcohol, while the "Air" is not fixed. The slides, once dried, can be placed in a slide container for transport. The remaining contents of the FNA needle are rinsed into a ThinPrep CytoLyt® container (labeled with last name, first initial, MRN, and site of specimen) by drawing the CytoLyt® fluid into the needle hub and expelling it back into the CytoLyt® container. Once completed, the needle can be discarded into a sharps container. Submit 1-5 passes of material from any source that can be evaluated cytologically. Cyst contents are submitted as fluids, not smears. Slides in the slide container, CytoLyt® container, along with hand written or computer-generated requisition form placed in a biohazard bag and brought to the laboratory. Specimens that are placed in CytoLyt® can be left at room temperature (15°C-30°C) during transport and overnight. Slides can be store at room temperature (15°C-30°C) or refrigerated (2°C-8°C).

## **Cytology Respiratory Tract Specimens:**

#### Sputum:

Sputum's are obtained fresh from a spontaneous deep expectoration or obtained using an aerosol method. Regardless of the method of collection, the specimen is expelled into a sterile container without fixative. The specimen container is labeled with the patient's first and last name, medical records number, and source of specimen. This information can be hand written, using the Leica Black marking pen, or can be labeled with a computer-generated label. The labeled container and requisition forms are placed in a biohazard bag and brought to the laboratory. Fresh specimens collected and brought to the lab during Cytology business hours can be room temperature (15°C-30°C); however, if collection is outside of Cytology business hours, the specimen is refrigerated at 2°C-8°C.

#### Bronchial Washing:

Bronchial washings are obtained fresh during bronchoscopy procedures. The specimen is put into a sterile container with the patient's first and last name, medical records number, and source of the specimen. This information can be hand written, using the Leica Black marking pen, or can be labeled with a computer-generated label. The labeled container and requisition forms are placed in a biohazard bag and brought to the laboratory. Fresh specimens collected and brought to the lab during Cytology business hours can be room temperature (15°C-30°C); however, if collection is outside of Cytology business hours, the specimen is refrigerated at 2°C-8°C.

#### Bronchial Brushing:

Bronchial brushings are obtained during bronchoscopy procedures. Once the brush has a patient's specimen, it is agitated into a sterile container with sterile saline or agitated into a ThinPrep CytoLyt® Solution 30ml container. The agitation assures the cells are sloughed into the solution and not stuck on the brush. The specimen container is labeled, using the Leica Black marking pen or a computer-generated label, with the patient's first and last name, medical records number, and source of the specimen. The container and requisition forms are placed in a biohazard bag and brought to the laboratory. Fresh specimens collected and brought to the lab during Cytology business hours can be room temperature (15°C-30°C); however, if collection is outside of Cytology business hours, the specimen is refrigerated at 2°C-8°C. Specimens placed in CytoLyt® can be left at room temperature (15°C-30°C) during transport and overnight.

## **Cytology Gastrointestinal Tract Specimens:**

(Includes Esophagus, Stomach, Duodenum, and Colon)

#### Endoscopic brushings:

Brushings are obtained during endoscopic procedure where a targeted specimen is obtained. Once the brush has a patient's specimen, it is removed from the endoscope and agitated into a sterile container with sterile saline or agitated into a ThinPrep CytoLyt® Solution 30ml container. The agitation assures the cells are sloughed into the solution and not stuck on the brush. The specimen container is labeled, using the Leica Black marking pen or a computer-generated label, with the patient's first and last name, medical records number, and source of the specimen. The container and requisition forms are placed in a biohazard bag and brought to the laboratory. Fresh specimens collected and brought to the lab during Cytology business hours can be room temperature, (15°C-30°C); however, if collection is outside of Cytology business hours, the specimen is refrigerated at 2°C-8°C. Specimens placed in CytoLyt® can be left at room temperature (15°C-30°C) during transport and overnight.

## **Cytology Body Fluids:**

(Pleural, Pericardial, Ascitic, Peritoneal Washing, and Cyst fluids)

Specimens are collected in a 500ml empty evacuated container, tubes, or syringes. Preferably, body cavity fluids are sent fresh to the cytology laboratory. The specimen is labeled using the Leica Black marking pen or a computer- generated label, with the patient's first and last name, medical records number, and source of the specimen. The container and requisition forms are placed in a biohazard bag and brought to the laboratory. Fresh specimens collected and transported to the lab during Cytology business hours can stored at room temperature (15°C-30°C); however, if collection is outside of Cytology business hours, the specimen is refrigerated at 2°C-8°C.

#### **Cerebrospinal Spinal Fluids:**

CSF is collected via a spinal tap or through a shunt in the patient. The specimen is labeled using the Leica Black marking pen or a computer-generated label, with the patient's first and last name, medical records number, and source of specimen. The specimen in a biohazard bag is sent to the laboratory fresh, (room temperature which is 15°C-30°C) and as quickly as possible. After hours, which are after 4:30 Monday-Friday and all-day Saturday and Sunday, the specimen is to be sent to the Hematology department where two air-dried smears and two spray fixed smears (with BD Clay Adams<sup>™</sup> Brand Spray-Cyte Water Soluble Fixative) are prepared (Regardless of Cytology requests/orders).

## **Cytology Urine:**

#### Urine Voided:

Cleanse the opening of the urethra before collecting the urine. A sterile container is used to catch the urine as it voids from the urethra. It is preferred to obtain enough urine to cover the bottom of the container. The specimen is labeled, using the Leica Black marking pen or computer-generated label, with the patient's first and last name, medical record number, and source. The labeled container and requisition forms are placed in a biohazard bag and brought to the laboratory. Fresh specimens that are collected and brought to the lab during Cytology business hours can be room temperature, (15°C-30°C), however; if collection is outside of Cytology business hours, the specimen is refrigerated at 2°C-8°C.

#### Urine Catheterized:

A urine sample is collected from a patient's catheter and placed in a sterile container. The specimen is labeled using the Leica Black marking pen or a computer-generated label, with the patient's first and last name, medical records number, and source of the specimen. It is important to note on the requisition that the urine is collected from a catheter. The container and requisition forms are placed in a biohazard bag and brought to the laboratory. Fresh specimens that are collected and brought to the lab during Cytology business hours can be room temperature, (15°C-30°C); however, if collection is outside of Cytology business hours, the specimen is refrigerated at 2°C-8°C.

#### Bladder Washing/Bladder Barbotage:

Urine that is collected during a cystoscopy, where the cystoscope is inserted into the bladder and washed to obtain urine directly from the bladder, is placed in a sterile container. The specimen is labeled using the Leica Black marking pen or a computer-generated label, with the patient's first and last name, medical records number, and source of the specimen. It is important to note on the requisition that the urine is collected from a cystoscopy. The container and requisition forms are placed in a biohazard bag and brought to the laboratory. Fresh specimens that are collected and brought to the lab during Cytology business hours can be room temperature, (15°C-30°C); however, if collection is outside of Cytology business hours, the specimen is refrigerated at 2°C-8°C.

#### Kidney/Renal Pelvis Washing/Brushing:

Urine that is collected during a cystoscopy is placed in a sterile container. The specimen is labeled using the Leica Black marking pen or a computer-generated label, with the patient's first and last name, medical records number, and source of the specimen. It is important to note on the requisition that the urine is collected from a cystoscopy. The container and requisition forms are placed in a biohazard bag and brought to the laboratory. Fresh specimens that are collected and brought to the lab during Cytology business hours can be room temperature, (15°C-30°C); however, if collection is outside of Cytology business hours, the specimen is refrigerated at 2°C-8°C.

### **Cytology Breast Secretions:**

Nipple Discharge:

Complete a cytology lab requisition for request in EPIC.

The specimen is to be collected by applying a clean labeled microscopic slide directly to the nipple. The slide is labeled on the frosted-end glass using a pencil or Leica marking pen, noting patient's first and last name, medical record number (MRN), and source of the specimen. The slide is immediately spray fixed with BD Clay Adams<sup>™</sup> Brand Spray-Cyte Water Soluble Fixative and allowed to dry. Label the slide fixed by writing "Fixed" on the frosted-end with a pencil or Leica marking pen. Once the slides are dried, they are placed in a slide container for transport. Slides in a slide container, with hand written or computer-generated requisition form are placed in a biohazard bag and brought to the laboratory. Slides can be store at room temperature (15°C-30°C) or refrigerated (2°C-8°C).

#### **Breast Secretions:**

Complete a cytology lab requisition for request in EPIC.

The specimen is collected via a swab or spatula and agitated directly into a ThinPrep CytoLyt® Solution 30ml sterile container. The agitation assures the cells are sloughed into the solution and not stuck on the collection device; the collection device can be discarded. The specimen is labeled using the Leica Black marking pen or computer-generated label, with the patient's first and last name, medical record number, and source of the specimen. The specimen is placed in a biohazard bag and transported to the laboratory. Specimens that are placed in CytoLyt® can be left at room temperature (15°C-30°C) during transport and overnight.

## **Specimen Storage**

Appropriate storage and transport temperatures are essential for accurate laboratory testing. Temperature of specimen storage areas must be monitored and documented each day of use using a calibrated thermometer.

Room Temperature Storage	15.0°C- 30.0°C
Refrigerated Storage	2.0°C - 8.0°C
Frozen Storage	0.0°C20.0°C
Humidity	20.0% - 80.0%

Refer to the Laboratory Procedure Catalog for specific storage and transport requirements. Specimens must be placed into biohazard bags.

#### **Room Temperature**

Specimens that require room temperature storage and transportation must be kept between 15.0°-30.0°C and not placed in an environment where they are exposed to extreme heat or cold. Transport the specimens in an insulated biohazard cooler. The cooler must not contain cool packs.

#### **Refrigerated:**

Specimens that require refrigerated storage and transport must be kept between 2.0°- 8.0°C using a household or commercial refrigerator not used for food storage. Store refrigerated blood specimens upright in a test tube rack. Insert the entire test tube rack into a biohazard bag for transport. Refrigerated specimens must be transported using an insulated, biohazard cooler with ice packs. Wrap ice packs with paper toweling to avoid direct contact with the blood samples. **Blood samples must never come in direct contact with ice.** Direct contact may cause hemolysis and may cause inaccurate test results.

#### Frozen:

Freeze specimens when indicated. It is essential to freeze plasma or serum as soon as it is separated from the red blood cells. Transfer plasma or serum into a plastic vial using a pipet. Allow 1-2 mL of space for expansion during freezing. Do not freeze glass tubes. Freeze specimens in plastic vials unless instructed otherwise. Samples are stored in non-frost-free freezers at 0.0°C – -20.0 °C or a dry ice container until transported to the laboratory. Use frost-free freezers is prohibited. Automatic defrost cycles cause specimens to partially thaw and refreeze. Test results are affected by freeze-thaw cycles.

## Note: Divide specimens prior to freezing when more than one test is requested on a specimen. Frozen specimens cannot be thawed and divided.

Insert the specimen or entire test tube rack into a biohazard bag and transport frozen specimens using an insulated cooler that contains dry ice.

Temperature logs are located on the Guthrie Laboratory Department Intranet site or by contacting the laboratory client services department.

## **Specimen Packing and Transport**

Specimens are packaged and transported in a manner to minimize personnel or pubic exposure to infectious or biohazardous material. Storage and transport conditions are listed in the Procedure Catalog and printed on the LIS Packing List. All specimens are transported to the laboratory for examination as quickly as reasonably practicable. Specimens are maintained at the correct temperature and under conditions recommended for examination as per the individual assay requirements and procedure catalog. Temperature requirements print on the LIS Packing List.

- Ambient 15.0° to 30.0°C
- Refrigerated 2.0° to 8.0°C
- Frozen 0.0°C or colder
- 1. Specimen transport containers are labeled with the name of the patient service center and/or clinical laboratory name and address. Transport containers are labeled with a biohazard symbol.
- 2. Primary specimen containers (test tubes, vials, swabs) are labeled with the patient's name, date of birth or medical record number and date/time of collection. Seal primary containers securely.
- 3. Place primary containers into biohazard bags. Remove the excess air and seal.
- 4. Mark the exterior of the bio-hazard with the appropriate storage temperature and store the specimen at that temperature until the specimen is picked up for transport.
- 5. External client specimens are tracked using Medical Courier Elite, MCE.

**Guthrie Medical Group Practices:** 

- Use the LIS to create a packing list for all specimens transported to the laboratory for testing. Specimens are tracked using the LIS packing list. Refer to Beaker Daily Tasks Procedure GMG 700-500 and instructions below.
- 7. Place specimens into a secondary leak-proof, container labeled biohazard. The secondary container traps the specimen if the primary container breaks or leaks in transit. Secondary containers include biohazard specimen bags or any suitable leak-proof container labeled biohazard. Once the specimen is sealed in a secondary container, the container may be handled without gloves.
- Place specimens into a tamper-proof biohazard bag according to storage temperature. Refrigerated specimens into one bag, room temperature specimens into a second bag and frozen specimens into a third bag.
- 9. Match the LIS packing list to the tamper-proof bag. Assure all specimens are listed on the packing list.
- 10. Remove all the air from the bag and seal. Mark the storage temperature on the outside of the tamper-proof bag (refrigerate, room temperature or frozen).
- 11. Insert the packing list(s) into the outer sleeve of the appropriate tamper-proof bag. Any additional paperwork pertaining to the laboratory specimens (lab requisitions, printed instructions) maybe inserted into the outer sleeve of the biohazard bag.
- 12. Refrigerators or freezers storing specimens prior to transport, must be labeled biohazard and located in restricted areas.
- 13. Breakage or spilling of specimens is promptly cleaned using a biohazard spill kit and standard precautions.

#### **Guthrie Courier Specimen Transport**

Guthrie couriers transport specimens to and from laboratories using transport totes. Specimens are packed into coolers according to the storage temperature marked on the outside of the tamper-proof biohazard bags.

**Packing Refrigerated Specimens** Keep specimens refrigerated before transporting unless otherwise indicated.

- 1. Prior to specimen pickup, prepare the refrigerated cooler by placing 8-10 ice packs into the empty cooler.
- 2. Place the bag of refrigerated specimens in the bottom of a transport cooler.
- 3. Place an insulation barrier over the specimens. Barriers include poly-towels, 3-4 layers of paper towels or the tamper-proof bag wrapped around the specimens.
- 4. Place frozen cool packs on top of the insulation barrier.
- 5. Immediately close the transport cooler lid.



**Packing Frozen Specimens-** Keep specimens frozen before transporting unless otherwise indicated. Frozen specimen must be stored in plastic containers. Containers should be filled no more than <sup>3</sup>/<sub>4</sub> full to avoid tube breakage and to eliminate caps from popping off.

- 1. Prepare the frozen transport cooler by adding a 2-inch layer of pellet dry ice in the bottom of the cooler. Avoid burns, always wear cloth gloves and safety glasses when handling dry ice.
- 2. Insert the bagged specimen into the dry ice.
- 3. Immediately close the transport cooler lid.



#### Packaging Ambient Room Temperature Specimens

- 1. Prepare the ambient transport cooler (confirm the cooler contains no ice packs).
- 2. Open the lid of the ambient transport cooler.
- 3. Insert the bagged specimens into the ambient cooler and close the lid.



## **LIS Packing List Creation**

A packing list is a list of specimens that are sent for testing and are based on shipping conditions. Types of packing lists include refrigerated, room temperature, frozen, cytology and anatomic pathology. Specimens must appear on the appropriate packing list.

- 1. Click the **Epic button > Packing List Editor**.
- 2. On the Packing List Lookup window, select the Create option.
- 3. In the List Type field, select the type of packing list you're creating (for example, a refrigerated list)
- 4. The computer system generates an ID for that list.

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Example: Sattelite office packing list with specimens traveling to Sayre.

- 4. Click **Accept. The Packing List Editor opens.**
- 5. Scan the specimen barcodes to add the specimens to the list.
- 6. If you want to see if there are other specimens that could be added to the list, **click** Send out Bench to find specimens. If there is a specimen, add it to the packing list.

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**Send out Bench Activity**: Is used to find specimens that have not been scanned onto a packing list. After scanning all specimens onto the appropriate packing list, the send out bench should be empty.

Any specimen displayed in PSend out Bench must be investigated, and the appropriate action taken:

- 1. Click **Add Test(s)** if there is a specimen. The test selected disappears from the send out bench list on the left and is added to the report on the right.
- 2. Click specimen update and order a redraw if the specimen could not be collected.
- 3. Tests are canceled only when the provider no longer wants tests results.

**Send A Packing List to Another Lab**: After adding all the appropriate containers to a packing list, indicate that the list is complete and that the associated containers are ready for pickup.

To do this, click **Ready**. Marking a packing list Ready, triggers the following:

- 1. The packing list is locked in the system, meaning no more containers can be added. This ensures that no extra containers get added to the list accidentally.
- 2. The packing list's status changes to Ready for pickup.
- 3. The packing list prints.

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Clicking **Ready** locks the packing list, meaning no more containers can be added. If you need to add more tests, you can unlock the packing list again by clicking **Unready**.

When the package is picked up, click is picked Up. The packing list is closed and can no longer be unlocked for editing.

<u>Packing List Editor</u>: The actual specimen in your hand ready to scan <u>Send Out Bench Activity</u>: Search for samples to add to a packing list before sending

#### Packing List Troubleshooting:

Specimens that do not scan onto a packing list-

- 1. Receive the specimens into the current lab to place them onto a packing list. Go to the Receiving activity (located under the Epic dropdown) and receive the samples.
- 2. Confirm the Epic Log-In Department. Specimens that are collected in the collection activity using the wrong log-in department, do not scan onto the packing list.
- 3. Confirm specimen storage temperature matches the packing list temperature.

## **Computer Downtime:**

Complete a paper laboratory requisition available at <u>www.Guthrie.org/LabServices</u> and Appendix A during computer downtime and laboratory orders cannot be entered in the LIS. Refer to Laboratory requisition requirements. Laboratory prescription orders are acceptable but not preferred.

Specimens are labeled immediately after specimen collection in presence of the patient using hand-written, or label created from the patient wristband. Specimen labels may be ordered using the Guthrie Laboratory Services supply requisition form. Hand-written labels are also available form Guthrie's supply ordering system.

### **Guthrie Practices:**

Complete a paper Laboratory Requisition, document the specimen on a downtime packing list and handlabel specimens with the following information:

- 1. Patient's name
- 2. Medical record number or date of birth
- 3. Date and time of collection and collector ID
- 4. Laboratory Test

Laboratory Requisitions and downtime packing lists may be ordered using the Laboratory Services supply requisition form. Refer to the office Downtime computer for laboratory orders entered prior to downtime.

#### Computer Remains Down After Courier Pick-Up

Guthrie Laboratory services enters the laboratory order in the computer system. Satellite offices do not enter orders of specimens that have been shipped to the Guthrie Laboratory to eliminate duplicate lab orders.

Document specimens on the paper packing list. Retain a copy in the office and send a copy with the courier.

#### Computer Becomes Operational Before Courier Pick-Up

Document specimens on the paper packing list. Enter Laboratory orders into the computer system. Label all specimens using the computer-generated bar-code labels.

Downtime Packing List is available on the Guthrie Laboratory Intranet. See Appendix B.

### Cytology Specimens during downtime:

All pap-smear cytology requests and specimens are held in the office until the computer system becomes operational.

All other cytology specimens (urine, sputum, etc.) are sent to the lab without delay with a completed cytology requisition. Retain a copy of the cytology request to enter the cytology test in the computer system once it becomes operational.

Questions regarding down time procedures are directed to the laboratory Client Services Department (570)887-4719.

## Appendix A

- General Lab Requisition
- Toxicology Requisition
- Lab Supply Requisition
- Patient Specimen Collection Instructions

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Comp. Metab. Parel         Gen. Metab. Parel         Luc         RRCGam         Phateir Court           Max. Clic. Ob. BLUM. Conc. Clic. BLUM. Conc. Clic. BLUM. Total         Gen. Clic. BLUM. Conc. Clic. BLUM. Conc. Clic. BLUM. Total         Gen. Clic. BLUM. Conc. Clic. BLUM. Conc. Clic. BLUM. Total         Gen. Clic. BLUM. Conc. Clic. BLUM. Conc. Clic. BLUM. Total         Gen. Clic. BLUM. Conc. Clic. BLUM. Conc. Clic. BLUM. Fights           Max. Clic. Dia.         CA125         Gen. Dia. Market. Parel         Gen	(Na, K, Cl, CO <sub>2</sub> , Gluc, BUN, Creat, Ca)	ANA (titer if indicated) Gold	Green Green	Antibody Screen Pink
(m)         Click 2, Bit rep. Non-relation         Difficient Non-relation         Difficient Non-relation         Difficient Non-relation         Program         Difficient Non-relation         Program           ExtraCryster Restrict         Bit Rube, Non-relation         Columb 2, Relation         Columb 2, Relation <td>Comp. Metab. Panel Green</td> <td>Bilirubin, Direct Green</td> <td>MonoTest Lav</td> <td>RhoGam Pink</td>	Comp. Metab. Panel Green	Bilirubin, Direct Green	MonoTest Lav	RhoGam Pink
A last series in a finite in the intervention of the interven	(Na, K, Cl, CO <sub>2</sub> , Gluc, BUN, Creat, Ca,	Bilirubin, Neonatal Green	Phosphorus Green	Direct Antiglobulin Test (DAT) Pink
Image: Construction Parted         CA 123         Construction Parted	AID, TBIII, APrios, TP, AST, ALT)	BNP (B-type Natriuretic Peptide)	Potassium Green	(Culture ID & Sensitivity if indicated)
I Hegetic Function Panel       Gene       CA 199       case       PSA       Gene       SourceSite         I Auch Hegatits Panel       Get       Cathers, Boty Rais Auch, TA, XA, TA, TA, TA, TA, TA, TA, TA, TA, TA, T	(Na, K, Cl, CO <sub>2</sub> )	CA 125 Gold	Protein, Electrophoresis, serum (SPEP) Gold	Collection DateTime
(bb, Tall, DBM, ARbo, TRA, TA, ATT, ATT, ATT, ATT, ATT, ATT,	Hepatic Function Panel Green	CA 19-9 Gold	PSA Green	Source/Site
Actual registre Partie       Cost       Catalox       C	(Alb, TBili, DBili, APhos, TP, ALT, AST)	CA 27-29 Gold	PSA, Free Gold	Culture, Body fluid w/gram stain Sterile Cont.
Lipid Panel Cubics (Columna, Panel Cubics, Tray, Panel Cubics, Cubics, Status, Tray, Panel Cubics, Cubics, Cubics, Status, Cubics, Cubics	(HAAD (IGM) HECAD (IGM) HECAD (Gold	Carbamazenine (Tegretol)	PTH Intact Green	Culture, Fungus Culture or stene
Conct. Trip, Not. case. L0x)       CBC (w/ PL 1 & Differential)       Lvr       PRest Cont       c       Culture, Wound Angenobic/Aer. w/garcedal       Context         Rest FLOCD, Gase. BUN, Crase, Case Ab. (PO)       CBC w/or diff (Hemogram)       Lvr.       PRest Retrotot Factor       Context       Culture, Gp 8-Step Context       Periodin Allergic         Obstatic Panel (non-Medicare)       CC (LPR, Stot affective)       CC (LPR, Stot affective)       Description of indicated)       Context       Periodin Allergic         Concert (non-Medicare)       CC (LPR, Stot affective)       CC (LPR, Stot affective)       Description of indicated)       Context       Context       Culture, Stot affective)       Description of indicated       Context       Description of indicated)       Description of indicated indicated indicated indicated indicated indicated indicated indicated indicated indindicated indicated indicated in	Lipid Panel Green	Carbon Dioxide (CO2) Green	PTT Blue	Culture, Wound Aerobic w/gram Culturette
□ Protein Panel       Oese       □ Cellure, Go p. Shttp]       □ Cellure, Go p. Shttp]       □ Periodial Adergia         □ Obstatic Panel (non-Modcare)       □ Collure, Solo, Bis BUK, Conce, Busk, Name, Blood Type, Anthodares       □ Collure, Solo, Bis BUK, Conce, Busk, Name, Blood Type, Anthodares       □ Collure, Solo, Bis BUK, Conce, Busk, Name, Blood Type, Anthodares       □ Collure, Solo, Bis BUK, Conce, Busk, Name, Blood Type, Anthodares       □ Collure, Solo, Bis BUK, Conce, Busk, Name, Blood Type, Anthodares       □ Collure, Solo, Bis BUK, Conce, Busk, Name, Blood Type, Anthodares       □ Collure, Solo, Bis BUK, Name, Collure, Solo, Bis Buk, Conce, Busk, Name, Solo, Bis Buk, Steps Screen, Thread       □ Collure, Solo, Bis BUK, Name, Collure, Solo, Bis Buk, Steps Screen, Thread       □ Collure, Solo, Bis BUK, Name, Collure, Solo, Bis Buk, Steps Screen, Thread       □ Collure, Solo, Solo, Bis BUK, Name, Collure, Solo, Bis Buk, Steps Screen, Thread       □ Collure, Solo, Solo, Bis BUK, Name, Collure, Solo, Bis Buk, Steps Screen, Thread       □ Collure, Solo, So	(Chol, Trig, HDL, calc. LDL)	CBC (w/PLT & Differential)	Retic Count Lav	Culture, Wound Anaerobic/Aer. w/gram Anaerobe Culturette
MX KC CO, Gub, DM, Cree, Ca, AB, Poly       CEA       Gener       CFA       Gener       Ceal       Ferricitin Allergic       Perclin Allergic         Obstetic Farely       Cubues, Spatian (Wrighten)       See       See Rate (CSR)       Law       Cubues, Spatian (Wrighten)       See       Cibbe (CSR)       Law       Cubues, Spatian (Wrighten)       See       Cibbe (CSR)       Cubues, Spatian (Wrighten)       See       Cibbe (CSR)       Cubues, Spatian (Wrighten)       See       Cibbe (CSR)       Cubues, Spatian (Wrighten)       See       Tage (CSR)       Cubues, Spatian (Wrighten)       See       Sea       Cubues, Spatian (Wrighten)       Sea       Sea       Cubues, Spatian (Wrighten)       Sea       Cubues, Spatian (Wrighten)       Sea       Sea       Cubues, Spatian (Wrighten)       Sea       Sea       Tage (Cables, Sea	Renal Function Panel Green	CBC w/o diff (Hemogram)	Rheumatoid Factor     Gold	Culture, Grp B-Strep vag/rectal Cuturette
□ Outsetter Varie       □	(Na, K, Cl, CO <sub>2</sub> , Gluc, BUN, Creat, Ca, Alb, PO4)	CEA Green	RPR (w/confirmation if indicated)     Gold	Culture Sputum (w/gram)
MEDICARE SCREENING (ABN Required)       CRP (high sensitivity)       Green       T4 (Thyroxine)       Green       (wi Campy, Sal/Shig, E. Coli 157, and Shiga Tox)         Cardiovascular Screen w/ABN       Geen       Dipxin (Lanoxin)       Red       T A, free (Free Thyroxine)       Geen       Rado Streps Screen (Refex Cult freg)       Transferrin       Geen       Rado Streps Screen (Refex Cult freg)       Transferrin       Geen       Rado Streps Screen (Refex Cult freg)       Transferrin       Geen       Screen (ABN to possible to this patient:       Fighyperides       Geen       Tighyperides       Geen       Fighyperides       Geen       Fightyperides       Geen <td>(CBC w/plt &amp; diff. HBSAg, Rubella RPR, Blood Type, Antibody Sc</td> <td></td> <td></td> <td>Culture, Spatian (Wygrain) Casile Conte</td>	(CBC w/plt & diff. HBSAg, Rubella RPR, Blood Type, Antibody Sc			Culture, Spatian (Wygrain) Casile Conte
Cardiovascular Screen wIABN       Owen       Digoxin (Lanoxin)       Red       Transferrin       Calutate         Includes - Cholesterol, Triglycerides and HDL       Dilarin (Phenybin)       Red       Transferrin       Calutate         Dr Check the option appliable to this patient:       Foldes, serum       Foldes, serum       Foldes, serum       Calutate       Rapid Step Screen (Redex Cult ing)       Transferrin       Calutate         V135 Screen (Redex Cult ing)       Foldes, serum       Calutate       Foldes, serum       Calutate	MEDICARE SCREENING (ABN Required)	CRP (high sensitivity) Green	T4 (Thyroxine) Gold	(w/Campy, Sal/Shig, E. Coli 157, and Shiga Tox)
Includes - Cholester/L, Triglycarides and HDL       Freq Covered avery 5 years       Image: Transferrin       Get       Image: Transferrin       Get       Image: Courtery. Urine (Image: Section 2)       Image: Courtery. Urine (Image: Secti	Cardiovascular Screen w/ABN Green	Digoxin (Lanoxin) Red	T4, free (Free Thyroxine) Gold	Beta-Strep Screen, Throat Culturette
Prod Covered every 5 years       Image: Covered every 5 years       On Cub Play Tub         Dx - Check the option appliable to this patient:       Folds, serum       Source Clean cable.	Includes - Cholesterol, Triglycerides and HDL	Dilantin (Phenytoin) Red	Transferrin Gold	Rapid Strep Screen (Reflex Cult if neg) Throat Swab
Control to generative spin large ending spin large en	Freq Covered every 5 years Dx - Check the option appliable to this patient:	Eolate serum Green	TSH Gold	Source Clean catch Ca Foley
Diabetic Screen w/ABN (x) one below       Glucose       Glucose </td <td>V13.6 Screening for cardiovascular disease</td> <td>GGT Green</td> <td>Uric Acid Green</td> <td>FLU A&amp;B (Nasophary nx) Special Kit</td>	V13.6 Screening for cardiovascular disease	GGT Green	Uric Acid Green	FLU A&B (Nasophary nx) Special Kit
Fasting glucose and 2 hr post-glucose       Gene       Glucose Tolerance       hrs.       Gene       Witamin D, 25 Hydroxy       Gene       MRSA (nasal)       Copan Seab         Glucose Tol. Test (3 spec. incl. fasting)       Gene       HCG, Qual.       Gene       Vitamin D, 1,25-DiHydroxy       Zate       Chamydia/GC_End_Vag (Pt Citigreal k4         hdvid. w/pre-diabetes - Twice yearly       HOL.       Gene       Cardia/Gardnerela/Tichchomonas (vag)       Second K4         Dx - 213.1 Screening for Diabetes melitus       Hepatitis A Virus, IGM Ab       Gene       Cardia/Gardnerela/Tichchomonas (vag)       Second K4         Occurt Blood Screen w/ABN(1-3 specimers) CMD       Hepatitis B Core Ab [dM       Gene       Random w/creat traion Cup       24 Houze Hr uR       C-Difficile PCR       Second K4         Dx - See Medicare for specific ICD10 Requirement       Hepatits B Surface Ab       Gene       Urinalysis (w/ microscopic fi Indicated)       UR cup       Occurt Blood (1-3 spec - Non-Medicare)       CARD         Dx - See Medicare for specific ICD10 Requirement       Hepatits B Surface Ab       Gene       Urinalysis (w/ microscopic fi Indicated)       UR cup       Occurt Blood (1-3 spec - Non-Medicare)       CARD         Dx - See Medicare for specific ICD10 Requirement       Hepatits B Surface Ab       Gene       Urinalysis (w/ microscopic fi Indicated)       UR cup       Occurt Blood (1-3 spec - Non-Medic	Diabetic Screen w/ABN (x) one below	Glucose Green	Vitamin B12 Green	RSV (Nasophary nx ) Special Kit
Clucose Tol. Test (3 spec. incl. fasting)       Gener       HCG, Qualt.       Good       Utamin D, 1,2501Hydroxy       2 Red       Chamydia/GC       Endl. Vag (Pt Coll)eean KA         Freq Individ. w/pre-diabetes - Twice yearly:       HCG, Quant.       Good       URINE       Candida/Garcherella/Tichoronas (vag)       Byocal KA         Dx - Z13.1 Screening for Diabetes mellitus       Hepatitis A Virus, IGM Ab       Good       Count (b) one below       Strool (FECAL)       Strool (FECAL)         Dx - Z13.1 Screening for Diabetes mellitus       Hepatitis B Core Ab [Gold)       Good       Random w/creatration Cup       24 Houze Hrun       C-Difficile PCR       Speciation         Dx - See Medicare for specific (CD10 Requirement)       Hepatitis B Core Ab [Gold)       Good       Protein, Total, quant. (x) one below       Giardia / Crypto       Pure Par Pak         Freq 1 Covered Annual/       Hepatitis B Core Ab [Gold)       Good       Protein, Total, quant. (x) one below       Giardia / Crypto       Pure Pak         Dx - See Medicare for specific (CD10 Requirement)       Hepatitis B Surface Ab       Good       Urinalysis (w/ microscopic i indicated)       W Cup       Coult Blood (1-3 spec - Non-Medicare)       CARD         Dx - 72.8 Screen w/ABN (Frior HIV Dx Not Eligible)       HIV-1/1 HIV-2 Ab (w/conf)       Good       Urinalysis (w/ microscopic)       UR cup       O va & Parasite       OP re	Fasting glucose and 2 hr post-glucose Green	Glucose Tolerance hrs. Green	Vitamin D, 25 Hydroxy Gold	MRSA (nasal) Copan Swab
Individ, wording, er-clustes - runke yearly, Individ, wording, er-clustes - runke yearly, Dx - Z13.1 Screening for Diabetes mellitus       Image: Creating of Diabetes - One yearly Image: Creating of Diabetes mellitus       Image: Creating of Diabetes - One yearly Image: Creating of Diabetes mellitus       Image: Creating of Diabetes - One yearly Image: Creating of Diabetes mellitus       Image: Creating of Diabetes - Nucley yearly Image: Creating of Diabetes mellitus       Image: Creating of Diabetes - One yearly Image: Creating of Diabetes mellitus       Image: Creating of Diabetes - One yearly Image: Creating of Diabetes mellitus       Image: Creating of Diabetes - One Xeit runke yearly Image: Creating of Diabetes mellitus       Image: Creating of Diabetes - One Xeit runke yearly Image: Creating of Diabetes - One Xeit runke yearly Image: Creating of Diabetes mellitus       Image: Creating of Diabetes - One Xeit runke yearly Image: Creating of Diabetes - Creating of Diabetes - One Xeit runke yearly Image: Creating of Diabetes - Creating of Diabetes - One Xeit runke yearly Image: Creating of Diabetes - Creating of Diabetes - One-Medicare Picture india dia (Site Xeit) - One-Medicare Picture Picture india diabetes - Creating of Diabetes - Non-Medicare Picture Picture Picture india source Picture Pictures Picture Picture Picture Picture Picture Pi	Glucose Tol. Test (3 spec. incl. fasting) Green	HCG, Qual. Gold	Vitamin D, 1,25-DiHydroxy 2 Red	Chlamydia/GQ_End_Vag (Pt Coll) <sup>special Kit</sup>
Dx - Z13 Screening for Diabetes mellius       Hepatitis A Virus, IGM Ab       Goard         Occult Blood Screen w/ABN(1-3 specimens) CARD       Hepatitis B Core Ab IgM       Goard         Protein. Total, quant. (x) one below       C-Difficile PCR       Specimen Cup         Dx - State Medicare for specific ICD10 Requirement       Hepatitis B Core Ab (Total)       Goard         Dx - State Medicare for specific ICD10 Requirement       Hepatitis B Surface Ab       Goard         PSA Screen w/ABN       Giardia / Crypto       Para Pak         Preg Covered Annual(50 & Older)       Hepatitis B Surface Ag       Goard         Dx - Z12 S Scm. for Malig. Neoplas., Prostate       Hepatitis C Antibody       Goard         HV Screen w/ABN (for HIV Dx Not Eligible) <sup>1</sup> HUV:1 / HIV-2 Ab (w/conf)       Goard         Mill & Adolescent - Covered Annually       Insulin       Goard         Dx - X73.89 Scm for HIV       Insulin       Goard         Dx - X73.89 Scm for HIV       Insulin       Goard       Mill Scele Cole an catcl:       C4       Folge         Dx - X73.89 Scm for HIV       Insulin       Goard       Goard       Mill Scele AB       Mill Scele AB         Dx - V73.89 Scm for HIV       Insulin       Goard       Goard       Mill Scele AB       Mill Scele AB         Dx - V73.89 Scm for HIV       Ino	Individ. w/pre-diabetes - Twice yearly,	HDI Green	Creatinine Clearance Green & 24 Hr UR	
Occult Blood Screen w/ABN(1-3 specimens) CARD       Hepatitis B Core Ab IgM       Ged       Random w/creat rations Cup       24 Houze Hrus       C-Difficile PCR       Specimen Cup         Dx - See Medicare for specific ICD10 Requirement       Hepatitis B Core Ab (Total)       God       Protein, Total, quant. (x) one below       Giardia / Crypto       Pun Pak         Dx - See Medicare for specific ICD10 Requirement       Hepatitis B Surface Ab       God       Random w/creat rations Cup       24 Houze Hrus       H. Pytori Ag       Specimen Cup         PSA Screen w/ABN       Geen       Hepatitis B Surface Ag       God       Urinalysis (w/ microscopic)       UR Cup       Occult Blood (1-3 spec - Non-Medicare)       CARD         Freq Covered Annual (50 & Older)       Hepatitis C Antibody       God       Urinalysis (w/ microscopic)       UR cup       Occult Blood (1-3 spec - Non-Medicare)       CARD         Dx - Z12.5 Scm. for Malig. Neoplas., Prostate       Hty A11 (Hy-2 Ab (w/conf)       God       Urinalysis (w/reflex culture ind. source)       UR cup       Ova & Parasite       OP Ra         MIX Screen w/ABN (Prior HIV Dx Not Eligible) <sup>44</sup> Htv.1 / Htv-2 Ab (w/conf)       God       Urinalysis (w/reflex culture ind. source)       NH       Preparatite (Cicco ne below)       Insulin       God         Dx - V73.89 Scm for HIV       Insulin       God       LDL, Direct       Green	Dx - Z13.1 Screening for Diabetes mellitus	Hepatitis A Virus, IGM Ab Gold	Microalbumin, Urine (x) one below	STOOL (FECAL)
Freq 1 Covered Annually <ul> <li>Hepatitis B Core Ab (Total)</li> <li>Protein, Total, quant. (x) one below</li> <li>Giardia / Crypto</li> <li>Pax Pak</li> <li>B Sa Screen W/ABN</li> <li>Geen</li> <li>Hepatitis B Surface Ab</li> <li>Geen</li> <li>Hepatitis B Surface Ag</li> <li>Urinalysis (w/ microscopic)</li> <li>Urinalysis (searcore (searcore (searce)</li> <li>Urinalysis</li></ul>	Occult Blood Screen w/ABN(1-3 specimens) CARD	Hepatitis B Core Ab IgM Gold	Random w/creat.ratio/R Cup 24 Houl24 Hr UR	C-Difficile PCR Specimen Cup
Dx - See Medicate for specific ICD10 Requirement       Hepatitis B Surface Ab       Get       Covered Annual (Si & Older Hruik R   H. Pytion Ag       Submicine Cup         PSA Screen wi/ABN       Get       Hepatitis B Surface Ag       Get       Urinalysis (w/ microscopic) in uncop       Occult Blood (1.3 spec - Non-Medicare) CARD         Freq Covered Annual (S0 & Older)       Hepatitis C Antibody       Get       Urinalysis (w/ microscopic)       Uscup       Feed Immunochemical Test (FIT)       Special ka         Dx - Z12.5 Scm. for Malig. Neoplas., Prostate       Hgb A1C (Giycohemoglobin)       Lav       Urinalysis (w/ microscopic)       UR Cup       Ova & Parasite       OP Ka         HIV Screen wiABN (Prior HIV Dx Not Eligible) <sup>d</sup> HlV-1/ HIV-2 Ab (w/conf)       Get       Urinalysis (w/ microscopic)       UR Cup       Ova & Parasite       OP Ka         Dx - V73.89 Scm for HIV       Insulin       Get       MISCELLANEOUS TESTS       NH       Pregnant - (3 Covered Per Pregnancy)       Iron       Get         Dx -V73.89 Scm for HIV PLUS (Circle one below)       Iron Bind. Capacity (Inc. Iron)       Get       Misse       Get       Patient Signature (Required for HIV testing)       Patient Signature (Required for HIV testing)       HIV Testing - Inave been counseled by my doctor         0.09.90       O99.91       O99.92       O99.92       O99.93       HIV Testing who to have in terformed.	Freq 1 Covered Annually	Hepatitis B Core Ab (Total) Gold	Protein, Total, quant. (x) one below	Giardia / Crypto Para Pak
Image: Covered Annual (50 & Older)       Image: Covered Annual (50 & Older)         Dx - Z12.5 Scm. for Malig. Neoplas., Prostate       Image: Covered Annual (50 & Older)         HiV Screen w/ABN (Prior HIV Dx Not Eligible)       Hybraits C Antibody         HiV Screen w/ABN (Prior HIV Dx Not Eligible)       Hybraits C Antibody         Huv Screen w/ABN (Prior HIV Dx Not Eligible)       HVI-1/ HIV-2 Ab (w/conf)         Covered Annual (y       Homocystine (serum)         Dx - V73.89 Scm for HIV       Insulin         Insulin       Gold         Dx - V73.89 Scm for HIV PLUS (Circle one below)       Iron Bind. Capacity (Inc. Iron)         C34.90       Z34.90       Z34.92         O.09.90       O99.92       O99.92         O.09.90       O99.92       O99.92         Hepatitis C Virus Ab       Gold	DX - See Medicare for specific ICD10 Requirement	Hepatitis B Surface Ag Gold	Random W/creat.ration Cup 24 Houlz4 Hrok	H. Pylon Ag     Concutt Blood (1-3 spec - Non-Medicare)     CARD     CARD
Dx - Z12.5 Scm. for Malig. Neoplas., Prostate       Hgb A1C (Glycohemoglobin)       Lav       Urinalysis (w/reflex culture ind. source)       UR cup       Ova & Parasite       OP Ra         HIV Screen w/ABN (Prior HIV Dx Not Eligible)d       HIV-1/ HIV-2 Ab (w/conf)       Gold       NIH       Pereorem Collector Val         Dx - V73.89 Scm for HIV       Insulin       Gold       MISCELLANEOUS TESTS         Dx - V73.89 Scm for HIV PLUS (Circle one below)       Iron       Gold       Miscelland       Gene         Z34.00       Z34.01       Z34.02       Z34.03       Lipase       Gene       Gene         C34.90       Z34.91       Z34.92       Z34.92       Gene       Miscelland       Gene         MIY       Fregnant - (8 Covered Per Pregnancy)       Iron       Gold       Gene       Miscelland       Gene         Dx - V73.89 Scm for HIV PLUS (Circle one below)       Iron Bind. Capacity (Inc. Iron)       Gold       Gene       Gene       Gene       Gene       Gene       Hipase       Hipase       Gene       Hipase       Gene       Hipase       Hipase       Gene       Hipase       Gene       Hipase       Hipase       Gene       Hipase       Hipase       Hipase       Hipase       Hipase       Hipase       Hipase       Hipase       Hipase       Hi	Freq Covered Annual (50 & Older)	Hepatitis C Antibody Gold	Urinalysis (w/ microscopic) UR Cup	Fecal Immunochemical Test (FIT) Special Kit
HIV Screen w/ABN (Prior HIV Dx Not Eligible)       HIV-1 / HIV-2 Ab (w/conf)       God       Source       Clean catch       C.d.       Foley       NIH       Prevom Coledar Val         Dx-V73.89 Scm for HIV       Insulin       God       God       MISCELLANEOUS TESTS         Dx-V73.89 Scm for HIV       Insulin       God       God       MISCELLANEOUS TESTS         Dx-V73.89 Scm for HIV PLUS (Circle one below)       Iron       God       Iron       God         Z34.00       Z34.01       Z34.02       Z34.03       LDL, Direct       Geen         Z34.90       Z34.91       Z34.92       Goog.90       Gog.90       Gog.90       Gog.91       Green         HIV Tors Ab       God       Geen       HIV Tors       HIV Tors       Green       HIV Tors	Dx - Z12.5 Scrn. for Malig. Neoplas., Prostate	Hgb A1C (Glycohemoglobin)	Urinalysis (w/reflex culture ind. source) UR Cup	Ova & Parasite OP Kit
Aduit & Adoiescent - Covered Annually       Homocystine (serum)       Green       MISCELLANEOUS TESTS         Dx - V73.89 Scm for HIV       Insulin       Gold         Pregnancy       Iron       Gold         Dx - V73.89 Scm for HIV       Insulin       Gold         Dx - V73.89 Scm for HIV       Insulin       Gold         Dx - V73.89 Scm for HIV       Iron       Gold         Dx - V73.89 Scm for HIV PLUS (Circle one below)       Iron Bind. Capacity (Inc. Iron)       Gold         Z 34.00       Z 34.01       Z 34.02       Z 34.82       Z 34.82         Z 34.90       Z 34.91       Z 34.92       Green       Green         0.09.90       0.09.91       0.09.92       0.09.93       HIV Testing - Ihave been counseled by my doctor about the HV test and wish to have a therformed.	HIV Screen w/ABN (Prior HIV Dx Not Eligible)	HIV-1 / HIV-2 Ab (w/conf) Gold	Source Clean catch Ca Foley	NIH Pinworm Collector Vial
Pregnant - (3 Covered Per Pregnancy)       Insulini       God         Dx. V73.88 Scm for HIV PLUS (Circle one below)       Iron Bind. Capacity (Inc. Iron)       God         Z34.00       Z34.01       Z34.02       Z34.03       LDL, Direct       Green         Z34.90       Z34.91       Z34.92       Lipase       Green         0.09.90       0.09.91       0.09.92       O09.93       Patient Signature (Required for HIV testing)         Hepatitis C Virus Ab       God       God       God       Green	Adult & Adolescent - Covered Annually	Homocystine (serum)     Green	MISCELLA	INEOUS TESTS
Dx-V73.89 Scm for HIV PLUS (Circle one below)         Iron Bind. Capacity (Inc. Iron)         Gold           234.00         234.01         234.02         234.02         Z34.03           234.80         234.81         234.82         Z34.83         LDL, Direct           234.90         234.91         234.92         Green           0.09.90         0.09.92         0.09.92         Green           Hepatitis C Virus Ab         Gold         Fatient Signature (Required for HIV testing)	Pregnant - (3 Covered Per Pregnancv)			
Z34.00             Z34.02             Z34.03             Z34.03             Z34.8             Z34.8             Z34.8             Z34.8             Z34.8             Z34.8             Z34.9	Dx-V73.89 Scm for HIV PLUS (Circle one below)	Iron Bind. Capacity (Inc. Iron)		
Z34.80             Z34.82             Z34.82             Z34.83             Z34.92             Z34.91             Z34.91             Z34.91             Z34.92	□ Z34.00 □ Z34.01 □ Z34.02  Z34.03	LDL, Direct Green		
□ Z34.90       Z34.91       Z34.91       Z34.92         □ 0.09.90       0.09.92       0.09.93 <i>Gatient Signature (Required for HIV testing) HIV Testing - Ihave been counseled by my doctor about the HIV test and wish to have it performed.</i>	□ Z34.80 □ Z34.81 □ Z34.82 □ Z34.83	Lipase Green		
O 099.90       O 099.92       O 099.93         Hepatitis C Virus Ab       Gold	□ Z34.90 □ Z34.91 □ Z34.91 Z34.92			
HIV Testing - I have been counseled by my doctor about the HIV test and wish to have it performed.	009.90 090.9 009.92 009.93		Patient Signature (Required for HIV testing)	
	Hepatitis C Virus Ab Gold		HIV Testing - I have been counseled by my doctor about the HIV test and wish to have it performed	

White: Laboratory Copy, Yellow: Client Copy

Version 2018-08 General Lab Requistion LMR Form #1611

GUTHRIE GMG Toxicology Laboratory Requisition Medical Director: Hani Hojjati, MD	1 Guthrie Square, Sayre, PA 18840 Toll Free Phone (844) 617-4719 Fax (570) 887-4729	Bill To: Client Insurance Patient	Request Date://
PATIENT INFORMATION (PLEAS	SE PRINT IN BLACK INK)	INSURANCE BILLING INFORMATION (PI	EASE PRINT IN BLACK INK)
Pt Last Name	First M I	PRIMARY Medica Me aid Other Ins	. S S S S Child
		Subscriber Last Name	First M
Address	Birth Date Sex	M F	
		Beneficiary/Member #	Group #
City	Pt. SS# or MRN		
		Claims Name and Address	City ST ZIP
ST ZIP	Home Phone	(Attach a copy of the patient's	insurance card and information)
		SECONDARY Medic Mechid Other Ins	□ S□ Sp□se Child
Employer	Work Phone	Subscriber Last Name	First M
Work Address	City ST ZIP	Beneficiary/Member #	Group #
CLIENT INFORMATION -	REFERRING PHYSICIAN	Claims Name and Address	City ST ZIP
Client Address:		(Atttach a copy of the patient's	insurance card and information)
olient Address.			
			Copy to:
Phone:	Fax:	Date Collected:	Time Collected: AM PM
		Specimen Type: Urin Vrin Sala O	her
<i>Thysician Signature</i> (legible - No Stamp)		For Lab Use Only	
(Required for Medicare & Medicaid patient orders)		Signed ABN Obtained	Place Lab Label Here
Contact Laboratory Medical Director (570-887-4719) wi	th questions concerning medical necessity		
PHYSICIAN When ordering tests the physician in	s required to make an independent medical necessity	decision with regard to each test the laboratory will hill	The physician also understands, he or she is
NOTICE required to (1) submit ICD-10 diagr	nosis supported in the patient's medical record as	s documentation of the medical necessity or (2) expla	ain and have the patient sign an ABN.
	and the second se		
ICD-10 Code(s) Diagnosis 1)	2) 3)	4) 5)	6)
Section 1 - Patient Pro	escribed Medications	Section 2 - Individu	al Drug Class Screen
No Medications Prescribed		<b>Drug Screen</b> (without reflex to augntita	tion <b>includes</b> validation testina)
Medication(s) Prescribed Below		<b>Drug Screen</b> (with reflex to auantitation	<b>includes</b> validation testing )
Medication(s) Prescribed Below (confired for the second	m all prescribed drugs that screen negative	Specimen Validity Includes Spec. gra	vity, pH, Creatinine, General Oxidants
Opioids:	Benzodiazepines	Amphetamines	Cocaine
Buprenorphine (Suboxone, Subutex)	🗌 Alprazolam (Xanax)	Amphetamine, quant	Benzoylecgonine, quant
Codeine (Tylenol 3, Tylenol 4)	🗌 Clonazepam (Klonopin)	Methamphetamine, quant	Marijuana Metabolites
Fentanyl (Actiq, Fentora)	🗌 Diazepam (Valium)	MDMA, quant	Marijuana Metabolites, quant
Hydrocodone (Hycodan, Lorcet, Lortab,	🔲 Nordiazepam (Tranxene)	Barbiturates	Methadone
Norco, Vicodin, Vocoprofen)	🗌 Lorazepam (Ativan)	Amobarbital, quant	EDDP, quant
Hydromorphone (Dilaudid,	Oxazepam (Serax)	Butalbital, quant	Methadone, quant
Meperidine, Demerol)	Prazepam (Centrax)	Pentobarbital, quant	☐ Opiates
Methadone's (Dolophine)	Temazepam (Restoril)	Phenobarbital, quant	Codeine, quant
Morphine (Avinza, Kadian,		Secobarbital, quant	Hydrocodone, quant
	Amphetamine (Adderall, Vyvanse)	Benzodiazepines	Hydromorphone, quant
Bercocet Percodan Povicedene)	Datrana Metadato)	Hudrowmidazolam, guant	
Ovymorphone (Opana ER, Opana IR)	Other.	Hydroxytriazolam quant	
Proposynbene's (Darvocet Darvon)	Amitrintyline (Flavil)	lorazenam guant	Oxymorphone quant
	Butalbital (Esgic, Floricet)	Nordiazenam guant	$\Box$ 6-Monoacetylmorphine
Tramadol (Ryzolt, Ultracet, Ultram)	Chlordiazepoxide (Librium)	Oxazepam, guant	6-Monoacetylmorphine, guant
<u></u>	Carisoprodol (Soma)	Temazepam, guant	Phencyclidine
	Meprobamate (Equanil, Miltown)	Buprenorphine	Phencyclidine, quant
Section 2 Dru	screen Panel	Buprenorphine, quant	Propoxyphene's
Section 3 - Dru	g Screen Faller	Norbuprenorphine, quant	Norpropoxyphene, quant
16260: Pain Management Base Profil	le without Confirmation, Urine	└ Cannabinoids	
(Benzodiazepines, Cocaine, Opiates,	Oxycodone, Specimen Validity)	Delta-9 THC	
		11-Hydroxy Delta-9 IHC	
16259: Pain Management Base Profil	ie with Confirmation, Urine		
(Benzodiazepines, Cocaine, Opiates,	oxycodone, specimen validity)	Section 4 - Quantita	tive Drug Test Menu
Irine Drug Scroon without Confirmed	tion Urine		
(Amphetamines Barbiturates Ponzo	diazenine Cannahinoids Cocaine	Barbiturates quant	
Methadone Oniates Oxycodone Pho	encyclidine. Propoxynhene)	Bath Salts (MDPV) guant	O-desmethyl-cis-tramadol quant
		Buprenorphine quant	O-des-methyl-tapentadol quant
21866: Pain Mgmt Screen w/ Fentany	I, Alcohol without Confirmation. Urine	Carisoprodol (Soma), guant	$\square$ Ritalinic acid, guant
(Opiate, Oxycodone, Buprenorphine,	Carisoprodol/Meprobamate,	Fentanyl, quant	Tapentadol, quant
Methadone, Tramadol/Desmethyltra	madol, Amitriptyline, Gabapentin,	Meperidine, quant	□Tramadol, quant
Pregabalin, Ritalinic Acid, Zolpidem,	Amphetamine, MDMA, Methylphenidate,	🗌 Meprobamate, quant	
6mam, Barbiturate, Benzodiazepine,	Cocaine, THC, PCP, Alcohol, Fentanyl,	∐Methylphenidate, quant	Testosterone Abuse Screening
Specimen Validity)		∐Norbuprenorphine, quant	☐Testosterone / Epitestosterone Ratio
L 21168: Pain Mgmt Screen w/ Fentany	and Alcohol, with Confirmation, Urine	Other Test	s) Requested
(Opiate, Oxycodone, Buprenorphine,	Carisoprodol/Meprobamate,		
Methadone, Tramadol/Desmethyltra	madol, Amitriptyline, Gabapentin,		
Pregabalin, Ritalinic Acid, Zolpidem,	Amphetamine, MDMA, Methylphenidate,		
6mam, Barbiturate, Benzodiazepine,	Cocaine, THC, PCP, Alcohol, Fentanyl,		
Specimen Validity)			
L			
White: Laboratory Copy, Yellow: Client Co	ру	Version 20	18-08 Toxicology Requisition LMR Form# 1612
			39

Labora	💦 GUTHRIE												
Office Nar	me:		Location:	Labo	ratory Services								
Office Cor	ntact Name:		Phone #:										
Order Dat	te:			-									
Ordering	Instruction	s: Allow u	p to 1 week for approval and supply replacement.										
Fax the c	completed s	uppiy requ	ulstion to Guthrie Laboratory Services at (570) 887- 4729.										
Guunnen	aboratory si	ipplies ar	e used for Guinne Laboratory resulting Only.										
Quantity	# Approved	Quantity		Lab Llaa									
Ordered	/ Denied	Supplied	ITEM	only Item	Unit of Measure								
	,		Swabs										
			Affirm® VPIII Swab Collection Kit - Candida/Gard/Trich	28316	each pkg=10								
			APTIMA® Unisex Kit - GC/Chlamydia for Males	sendouts	each								
	1	1	APTIMA® Urine Kit - see urine supplies below	Condouto	odon								
			Eswab Regular Collection Kit (aerobic and anaerobic culture)	75042	each pkg=50								
			Eswab Flexible Mini-Tin Collection Kit	1607	each pkg=50								
			CapeYpert® CT/NG (GC/Chlamydia) for Females	574	each pkg=50								
			Influenza / PSV/ Kit // ITM)	71/87	each pkg=30								
			MPSA Swoh, Copon Swoh	64011	each pkg=100								
			Nacaphanunggal VCM Kit – Bardatlla partussis	condoute	each								
			Sweb Culturette Duel Sweb Strep Sweb (red con)	1007									
		I	Viral Culture Kite ( Llamas Kite, caleat kit tura balaw	1997	each pkg=50								
		I	Viral Culture Kits / Herpes Kits - select kit type below	sendouts	each								
				condouto	each								
			lesion swab and V-C-IVI media	condoute	each								
			nasopharyngeal swab and V-C-M media	sendouto	each								
			urethral swab and V-C-M media	sendouts	each								
				<u> </u>									
		1	Stool Supplies										
			Stool Culture - Orange Cary Blair Para Pak	2265	each pkg=25								
			Stool Ova and Parasite Black Total Fixative	sendouts	each								
			Stool Ova and Parasite Pink/Gray Pack	sendouts	each								
				<u> </u>									
		I	Supplies - General										
			Biohazard Bags	1089	pkg=100								
			Formalin Pathology Container	45451	each pkg=20								
			Labels - Specimen	5482	box=roll of 250								
			Laboratory Test Requisition Tablet	lab	each								
			Specimen Log Sheet Tablet	lab	each								
			Specimen Sterile Container	1530	each								
			Thin Prep Papsmear containers										
			Urine Supplies										
			APTIMA® Urine Collection Kit - Trichomonas	sendouts	each								
			Pain Management Profile Container (temperature strip)	sendouts	each								
			Urine Collection Kit (needled cup/culture and urinalysis tubes)	28279	each pkg=50								
			Urine Culture Kit (gray test tube and transfer straw)	17496	each pkg=50								
			Additional Items/Comments										
				1									
0.1			Dut		•								
Oraer Appr	ovea/Denied By	y:	Date:										
Order Filled	l By:		Date:										
			GMG-3	709-132 Attac	hment B V3 2/2019								

## **Clean Catch Urine Specimen Collection Instructions**

**Important Note**: All specimen containers must be labeled with both the patient's first and last names as well as a second identifier such as the patient's medical record number or date of birth. Containers without two identifiers will be rejected.

A clean-catch urine specimen is necessary when your health care provider wants to test your urine for bacteria, which may be causing an infection. A clean-catch specimen is a way of collecting urine that does not contain a lot of bacteria from the skin. Please follow these instructions to collect a clean-catch midstream urine specimen:

- 1. Wash your hands with soap and water.
- Remove the lid of the urine container, taking care not to touch the inside of the container. Keep the container within reach.
- Female Patients: Gently wash the vulva area well using the provided antiseptic towelette washing from front to back. Keep labia separated with your finger.
- 4. Male Patients: Gently wash the tip of the penis using the provided towelette.
- 5. Pass a small amount of urine into the toilet bowl and stop. \*Some people find it difficult to stop urinating once they have started. If this is a problem, do not try to stop. Catch some urine in the cup a few seconds after the stream has begun.
- 6. Place the empty container in the path of the stream.
- Restart the urine stream into the container. Stop when the container is approximately half full.
- 8. Finish urinating into the toilet.
- Tightly screw the lid on to the urine container, taking care not to touch the inside of the container.
- 10. Store the container refrigerated and return to the lab within 24 hours of collection.
- Label the container with the date and time of collection, the patient's name and date of birth and /or medical record number. Return the container to your physician's office or a Guthrie Hospital Laboratory.



Attachment: Urine Clean Catch Collection GMG-708-0011 Rev 2/17/17

Guthrie Laboratory Services - (570) 887-4719: 1 Guthrie Square, Sayre PA 18840 Toll free: 844-617-4719

## 24-Hour Urine Specimen Collection Instructions

**Important Note**: All specimen containers must be labeled with both the patient's first and last names as well as a second identifier such as the patient's medical record number or date of birth. Containers without two identifiers will be rejected.

A 24-hour urine specimen is a large sample of urine. Please follow these instructions to collect a 24 hour urine specimen:

- 1. Maintain normal liquid intake unless the physician instructs otherwise.
- Do not consume alcoholic beverages.
- Store the 24-hour urine specimen in the REFRIGERATOR to prevent growth of microorganisms and urine decomposition.
- On wakening, empty the bladder directly into the toilet. Discard the first morning urine. This starts the 24 hour collection period. Write the start time and date on the urine container.
- Collect all urine specimens for the next 24 hours using the toilet insert. Carefully pour the urine from the insert into the 24 hour urine jug.
- 6. Include the first morning urine voided the following morning, collected at approximately the same time of day as the previous morning. Write the date and time of urination on the container label. This ends the 24-hour collection.
- Do not void directly into the 24 hour urine container. Collect the urine using a disposable container and dispense the urine into the 24 hour urine jug.
- Place the 24-hour urine specimen container into a sealed zipper bag.
- Return the 24-hour urine specimen to any Guthrie satellite location or Guthrie hospital lab on the same day the collection is complete; the end date.
- 10. Store and transport the specimen refrigerated.



Attachment: 24 Hour Collection GMG-708-0011 Rev 2/17/17

Guthrie Laboratory Services - (570) 887-4719: 1 Guthrie Square, Sayre PA 18840 Toll free: (844) 617-4719

## Stool Collection Instructions

There is no special preparation for this test/s. Tell your healthcare provider if you have recently completed a round of antibiotics or if you have traveled out of the country. Patients should not take any anti-diarrhea preparations (e.g., Imodium, Pepto-Bismol) or have had a barium enema within the previous 10 days.

\*\*Label your specimen containers with the following information. Specimen may be rejected if any information is omitted.

- your full name
- date of birth or medical record number
- date and time of specimen collection
- 1. Urinate before collecting the stool sample. Stool must not come in contact with urine or toilet-water.
- Collect stool in a clean, dry container provided by your healthcare provider. Toilet inserts "hats" may be obtained from laboratory services to aid in collection.
- Fill vials one at a time begin careful not to switch the color of the lids. When filling more than one container, add stool to the containers without liquid first. Liquid in the vial is poisonous. Keep out of reach of children and do not ingest the liquid.
  - Remove the cap on the vial. Use the scoop on the cap to add enough stool to bring the liquid level in the vial to the red fill line.
  - Choose fecal material that appears bloody and/or has mucous.
  - · Replace the cap on the vial and shake it gently to mix the contents.
  - · Stool must be added to the vials within 2 hours of collection.
- 4. Return the container to your physicians office or Guthrie Laboratory.



Stool Culture, Ova and Parasite Basic: Store the container <u>Refrigerated</u> and return to the lab within 72 hours of collection. Routine ova and parasite tests consist of one specimen tests for cryptosporidium and giardia. If you are immunocompromised or have traveled to a foreign country or worms are suspected, an extensive ova and parasite test may be ordered.



Extensive Ova and Parasite=international travel: Store the container at Room Temperature and return to the office or laboratory within 72 hours.



Clostridium difficile (C. diff.), Rotavirus, Chymotrypsin Collect at least 2 tablespoons of fresh stool and place in a specimen container. <u>Refrigerate</u> the container and return to the office or laboratory within 72 hours.



H. Pylori, IBD Panel, Lactoferrin, Electrolytes Place at least 2 tablespoons of fresh stool in each specimen container/s. <u>Freeze</u> the container/s and return to the office or laboratory within 72 hours. Frozen stool can not be thawed and divided.



Attachment: Stool Collection GMG-708-0014 Rev 2.. 3/11/2019

Guthrie Laboratory Services - (570) 887-4719: 1 Guthrie Square, Sayre PA 18840 Toll free: 844-617-4719

## Semen Specimen Collection Instructions

Important Note: All specimen containers must be labeled with both the patient's first and last names as well as a second identifier such as the patient's medical record number or date of birth. Containers without two identifiers will be rejected.

Collect seminal fluid by masturbation without aid of a lubricant directly into a clean, dry, room temperature, plastic specimen container. A specimen collected in any way other than masturbation is not acceptable because it may interfere with the test results. The use of a condom for specimen collection is not acceptable because it also may interfere with the test results.

Fertility Semen Specimen: Please call the Sayre 570-887-4719 or Corning 607-937-7271 laboratories to schedule an appointment for specimen drop-off.

- Abstain from ejaculation (sexual activity/intercourse/masturbation) for at least 48 hours but ٠ not more than 7 days before collecting this specimen.
- Urinate and wash your hands prior to specimen collection. This will prevent bacterial • contamination.
- Care must be taken to collect the entire specimen in the container. Loss of the first portion of the ejaculate may result in a decreased sperm count. Do not contaminate the specimen.
- Confirm the specimen container is tightly sealed.
- The specimen must be received in the hospital laboratory within 1 hour of specimen collection.
- The specimen must be maintained at body temperature during transport. This can be accomplished by carrying the sample in an inside pocket.
- Complete the following questions and return this form with the specimen to the laboratory:
  - Patient's Name / Date of Birth: / 1. How many days did you abstain before collecting this specimen? 2 3. How was the specimen collected? Masturbation, Other 4. Did you have any problems collection the specimen? Yes No Yes No
  - 5. Is the entire specimen in the container?
  - Collection Date: \_\_\_\_\_ Time \_\_\_\_ 6.
  - 7. Was the specimen exposed to cold temperatures during transport? Yes No

#### Post Vasectomy Semen Specimen:

- Abstain from ejaculation (sexual activity/intercourse) for at least 24 hours before collecting this specimen. However, do not abstain for longer than 3 days before specimen collection.
- Care must be taken to collect the entire specimen in the container. Loss of the first portion of the eiaculate may result in a decreased sperm count. Do not contaminate the specimen.
- Confirm the specimen container is tightly sealed.
- The specimen may be taken to any Guthrie location within 24 hours of specimen collection.
  - The specimen may be stored at room temperature.



Guthrie Laboratory Services - (570) 887-4719: 1 Guthrie Square, Sayre PA 18840 Toll free: 844-617-4719 Coring (607) 937-7271

## Appendix B

- Blood Collection Order of Draw
- Microbiology Collection Guide
- Guthrie Panels and Profile
- Packing List



## Test Tube Guide and Order of Draw

			Test	Alternate Test			Epro					
			Tube	Tube	Additive	Vol.	Item #	Laboratory Use				
	Γ	s	(TREATE	In succession	Bactec Aerobic grey cap		9617	Make certain to follow the blood culture procedure				
	000	ood	Sin all		Bactec Anerobic orange cap		10595	using ChloraPrep One-Step - Item #22960				
	2	cul	শাম্পদায়		Bactec Peds pink cap		9616					
		olue			Trace Element Serum	6 mL	see lab	Serum Trace element test: chromium, cobalt, copper, selenium				
C	)	royal					supply request	Serum: Carefully pour, do not pipet, serum into a serum trace element vial.				
R	2				Sodium Citrate Tube	4.5 mL	89	Coagulation testing. PT, PTT, TPT, Protein S, Protein C,				
D		olue			Fill test tube completely			Anti-Thrombin III, Lupus Anti-Coagulant				
		_			Proper mixing prevents clot formation							
					Serum Tube with clot activator	4 mL	2219	Serum chemistry tests: Digoxin, Dilantin, Drug Levels,				
R	2	red			Allow 30 min. for clot formation	10 mL	2222	Homocystine, Lithium, Tegretol, Theophylline,				
				1	Spin and separate serum into a plastic vial			PTH Intact (Quest)				
			1000		SST Gel Separator w / clot activator	5 mL	1234	Serum chemistry tests: CA125, CA15-3, CA19-9, Free-PSA				
		plot		100	Allow 30 minutes for clot formation		_	(sendout), Hepatitis, T3, T4, Free T4, TSH, FSH, LH, B12, B12				
*	•	0,		1	OR Red tiger top tube.			Folate				
		en			Sodium Heparin Tube	10 mL	94	Amino Acids, HLA B27, Comprehensive Drug Screen, Flow				
		.gre						Cytometry				
		ę		1								
C	)	c	-		Lithium Heparin PST Separator Tube	4.5 mL	2033	Plasma chemistry tests: Ammonia, BMP, CMP				
		reer		T	OR Green tiger top tube.			Electrolytes, PTH Intact (NON -OR specimen), Lipid Profile				
		g			Proper mixing prevents clot formation			Hepatic Function, Homocystine, PSA (Guthrie)				
		en	6		Lithium Heparin w ithout gel	9 mL	see lab	T-SPOT				
		gre	IN STATE				supply					
*	e	Ą					request					
		er	Contract of		EDTA Tube	3 mL	1012	Primarily Whole blood testing: CBC, Glyco, Retic, Sed. Rate				
		end			Proper mixing prevents clot formation			Mono, RBC Folate, Cyclosporin, Histamine, Cystic Fibrosis				
		lav						(INTRA OPERA TIV E PTH - Operating Room. Use Only)				
D			ALC: N		K2 EDTA	6 mL	40075	Whole blood blood bank tests: Type and Screen, Type and				
D		pink						Cross, Direct Antiglobulin (DAT)				
	<b>`</b>		L									
A		olue			K2 EDTA Trace Element Plasma and/or	5 mL	see lab	Trace elements: arsenic, cadmium, heavy metal screen, zinc				
V	V	/al b			Whole Blood		supply	Plasma: Carefully pour, do not pipet,				
		ſo					request	plasma into a plasma trace element vial.				
		Ð	ALC: NO		K2 EDTA	6 mL	see lab	Hepatitis C - Heptimax				
		whit	100				supply					
							request					
_		~	-		Sodium Fluoride	5 mL	see lab	Alcohol, Lactic Acid				
_		gra			Potassium Oxalate		supply					
_				ALC: N			request					
-		Ň	-		ACD solution B	6 mL	see lab	HLA typing - oncology patients - # of tubes depends on the				
_		yelk	-				supply	(570) 887-4218				
	-		Concession in the local division of the loca		No additivo, urino obomistry only	6 ml	70920					
_	9	istry	-		No additive, drifte chemistry only	0 IIIL	70838	chemisty tests.				
_		iemi	9									
_		с с										
		sis.			No additive, conical tube urinalysis only	8 mL	17522	"V" shaped conical tube is used for urinalysis testing only.				
		Jaly					28279 -	I ne cone shape allow s for microscopic examination. Urinalysis				
N		uri					tube & straw kit	preservative tube.				
					Preservative, urine culture, legionella	4 mL	63417	Urine culture. Store and transport at room temperature up to				
		ture	-14	1 .			17496 -	48 hours.				
-	1	cutt.	10	Statuted ()			tube &					
							straw kit					

Attachment GMG-708-0002 Phlebotomy Venipuncture Procedure and GMG-700-0031 LIS Dow ntime Policy

Specimen Collection Guide					GUTHRIE
SPECIMEN SITE (where) & SOURCE (what) are REQUIRED	on NON-BLOOD SPECIME	NS		<b></b>	Laboratory Services
				Store and Transport	
Laboratory Intended Use Aerobic Cultures	Description E-Swab - Regular	Swab / Transport Media	Lab Sayre	Temperature RT or Refrig up to	Supply Ordering Info. 75042 E-Swab Regular
Rectal, Aerobic Wounds, Urogential Culture (not viral)	White Cap Liquid Amies			48 hours	Collection Kit
Rapid Strep Screen: 2nd swab used to culture negative strep screens	BBL CultureSwab - Double Swab		Sayre	RT up to 48 hours	1997 Swab Culturette II
*Double swab is acceptable for aerobic cultures.	Red Cap - Liquid Stuart				Box=50
Aerobic Cultures where a small "mini-tip" swab is required, sinus	E-Swab - Flexible Minitip		Sayre	RT or Refrig up to	1607 E-Swab Flexible Minitin Collection Kit
Unacceptable for Viral Culture or Gram Stain	Blue Cap Elquid Amles			46 HOUIS	Cello Pack = Each
Anaerobic Culture Panel (includes aerobic culture): Deep wounds	E-Swab - Regular		Sayre	RT or Refrig up to 48 hours	75042 E-Swab Regular Collection Kit
Bordetalla portussis (Whooping Courth) BCP	Nacophaniov V-C-M Kit	Contraction of the second seco	Poforonco	Defrig up to 7 days in	Cello Pack = Each
Swab nasopharynx. Place in M4 or V-C-M Transport Media	Nasophalynx v-O-W Kit		Laboratory	V-C-M media	
immediately.	Afferm# \/DIII Suich Collection //it	1	Course	DT D-file to TO	29216 Allim VDIII Such
Vaginal specimens only	Allitti - VFIII Swab Collection Kit		Sayle	hours	Box=10
		THE ALL			
Candida, Gardnerella and Trichomonas <sup>a</sup> MALE PATIENTS Urethral specimens	APTIMA® Unisex Collection Kit		Reference Laboratory	RT or Refrig up to 60 days	Guthrie Lab Sendout dept.
		HOLDEC HAL			
*Trichomonas Only: Urine Urine is acceptable for Trichomonas Testing	APTIMA® Urine Collection Kit		Reference Laboratory	Refrig up to 30 days	Guthrie Lab Sendout dept.
Chlamydia and Gonorrhoeae FEMALE PATIENTS	GeneXpert® CT/NG Vaginal	Sector States Agency Transmitted Territory States 44	Savre	Room Temp or Refrig	574 Xpert CT/NG Swab Kit
Vaginal, Patient collected or Endocervical provider collect	Endocervical			up to 60 days	Box=50
	CAUTION - The GeneXpert* kit looks similar to the UTM influenza				
Chlamydia and Gonorrhoeae URINE	Urine Specimen Container		Sayre	Urine Refrig up to 8	1530 Specimen container
Urine NOT clean catch held in the bladder > 1 hour 20-50 mls of urine required. Store and transport refrigerated up to 8 days.				days	
Chlamydia and Gonorrhoeae MALES and NON-GENITAL SITES Urethra, eye conjunctiva, anorecal, oral	APTIMA® Unisex Collection Kit		Reference Laboratory	Refigerate up to 30 days	Guthrie Lab Sendout dept.
Not intended for the evaluation of suspected sexual abuse.		HRUDE			
Influenza A&B, RSV (Method-Rapid Antigen) Nasal Wash: (preferred) Collect nasal wash into a specimen container	Nasal Wash - Specimen Container		Corning Towanda	Refrig up to 24 hours	68137 (100/box) or individually from
and transport to the lab immediately.  Swab: (secondary) Collect pasal/pasopharypeal mini-tip swab	Swab- Sterile saline and a green		Troy		the hospital laboratories.
Place in sterile saline and transport to lab immediately.	capped mini-tip swab.		Savre	Refrig up to 7 days	71487 Nasonhan/ngeal
Influenza A&B, RSV (Method-PCR)	UTM Kit for Influenza Viruses	I PROBA	Only		Collection Kit for
transport media immediately.	*CAUTION - The UTM Influenza kit looks similar to the Chlamydia				Initidenza/RSV
MRSA SCREEN (Method-PCR)	COPAN_dual swab with scored tips		Sayre	Refrig up to 5 days	64911 MRSA Swab
Using both swabs at a one time, swab both nostrils using the	CAUTION - The COPAN swab differs from the dual-swab				
Sputum Culture	Specimen Container		Sayre	Refrig up to 24 hours	1530 Specimen Container
Stool Tests: NOT for Culture (1 container for each test)	Specimen Container		Varies	Refrig up to 72 hours	1530 Specimen Container
Rotavirus (refrigerate up to 72 hours)	Provide 1 labeled container per			France up to 14 days	
Lactoferin (frozen)	test. Frozen specimens may not be thawed and divided.	22 074		1 lozen up to 14 days	
Wright's Stain (refrigerate)		The of Spectrum			
Chymotrypsin (refrigerate up to 72 hours) Electrolytes (frozen)		0			
Fecal Fat 24, 48, 72 hour (frozen) *Fecal Fat Specimen container varies by reference lab. Call laboratory to confirm collection container.					
Stool Culture: Salmonella & Shigella (enteric pathogens) Campylobacter, E. coli 0157	Orange Para-Pak C&S	Section 2	Sayre	Refrig up to 72 hours	2265 Cary Blair Media Fecal Transport
Yersinia/Vibros/Shiga Toxin		AUPER STREET			
Stool Ova and Parasite BASIC					
	Plack Total Fix (fixation)		Deference	PT up to 2 months	Cuthrie Lab Sandaut dant
Intestinal Parasites	Dial and Orac Date		Laboratory	RT up to 2 months	Gutime Lab Sendour depr.
patients w/recent international travel.	Pink=10% buffered neutral formalin				
	Gray=Zinc Sulfate				
Urine Testing	Conical Urinalusis tube and a	Quest LabCorp	Saura	One DT is to to	
Urinalysis with Reflex Culture & Sensitivity	Gray preservative tube		Gayle	hours	Cup with both test tubes
				Yellow Urinalysis Refrig up to 24 hours	17496 C&S Transfer Kit - Gray test tube and straw
Little Onthern and Onestitute Onto	00.0 Transfer Oterwy Kite		0		17522 Urinalysis Tube
Unne Culture and Sensitivity Only	C&S Transfer Straw Kit		Sayre	Gray C&S - RT up to 48 hours	17496 C&S Transfer Kit - Grav test tube and straw
Legionella Antigen / Strep pneumoniae	Specimen Container		Sayre	Refrig up to 24 hours	1530 Specimen Container
Urine fungal and acid fast cultures are submitted in sterile containers					28127 Urine Straws (100)
		8			
Viral Cultures and Herpes	V-C-M Media kit		Reference	Refrig up to 3 days in	Guthrie Lab Sendout dept.
Swabs must be transferred into V-C-M media Immediately. If a herpes AND a viral culture are ordered, <b>TWO</b> swabs		Kits=Cervical, Lesion, Urethral,	Laboratory	· C-winitedia	
are required, each swab in it's own V-C-M media kit. Yeast / Fungal Culture	BBL CultureSwab - Single Swah	Nasopharynx. Swabs vary by kit	Savre	RT up to 48 hours	1395 Swab Culture
Material or fluid from any body site	WHITE Cap - Liquid Amies				
Skin/Hair/Nails = Yeast Dermatophyte Screen	Specimen Container		Sayre	RT up to 48 hours	1530 Specimen container
		THE OWNER OF THE			
Refrig = Refrigeration (2.0°C - 8.0°C) RT = Room Temp (15.0°C - 30.0°C)	Frozen = (0.0°C20.0°C)				Rev. 3, 1/2019



### **Guthrie Clinic Laboratories: Panels and Profiles**

Basic Metabolic Panel (BMP)	CPT Code 80048	Hepatic (Liver) Function Panel	CPT Code 80076
BUN		Albumin	
Calcium		ALK Phos.	
Carbon Dioxide		ALT / SGPT	
Chloride		AST / SGOT	
Creatinine		Bilirubin. Direct	
GFR		Bilirubin, Total	
Glucose		Total Protein	
Potassium			
Sodium		Henatitis Acute Panel	CPT Code 80074
Codium		Hen B Surface Ag	
Complete Metabolic Panel (CMP)	CPT Code 80053	Hep. B Core Ab IgM	
		Denal Function Denal	
			CP1 Code 80069
		Calcium	
Carbon Dioxide			
Chloride		Chloride	
Creatinine		Creatinine	
Glucose		Glucose	
GER		GER	
Potassium		Phosphorus	
Sodium		Potassium	
Total Protein		Sodium	
Electrolytes (lytes)	CPT Code 80051	Lipid Panel	CPT Code 80061
Carbon Dioxide		Cholesterol	
Chloride		HDL	
Potassium		LDL	
Sodium		Triglyceride	
Renal Failure Panel CPT Codes: 80	053, 84100, 84550	Pre-Natal Package	CPT Code 86592
Albumin		CBC	
ALK Phos.		RPR	
ALT / SGPT		Blood Type & Rh	
AST / SGOT		Antibody Screen	
Bilirubin, Total		Rubella	
BUN		Hepatitis B Surface Ag	
Calcium			
Carbon Dioxide		Pre-Natal Screen CPT Codes	s: 86900, 86901, 86850
Chloride		CBC	
Creatinine		1-Hr gestational Glucose	
Glucose			
		DIC Panel (DICP) CP	T Codes: 85610, 85730,
GFR		85384, 85049, 85378	
Phosphorous		D-Dimer	
Potassium		PT	
Sodium			
		matelet Count	
Hereditary Hypercoagulability (HCP)	CPT Code 55012	VonWillebrand's Papel (V/WIL)	CPT Code 5501260
Antithrombin	- Gr T Code 55012	VonWillebrand's Factor Antigen	
Protein S- functional		Factor 8 Assav	
Protein C- functional		Closure Time	
Factor V Leiden		Blood Type & Rh	
MTHER			
Prothrombin 20210		Lab Order Policy At	ttachment GMG-700-0029

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