SPECIMEN COLLECTION AND STORAGE INFORMATION, GENERAL

PURPOSE: This policy outlines general instructions for collection and handling of specimens. Specific test requirements are listed alphabetically in the specimen requirements section of this manual.

POLICY: Specimens must be collected and stored in accordance with regulatory guidelines to ensure the safety of the patient and employee.

PROCEDURE:

- All laboratory specimens are considered potentially infectious. Clean all spills with a freshly made 10% bleach solution and water.
- You must wear protective clothing when drawing blood and handling laboratory specimens. The clothing should be non permeable. New disposable non-latex gloves must be worn with each patient blood draw. You must wash your hands between drawing each patient.
- Do not eat, drink, apply makeup, or chew gum while drawing blood or handling laboratory specimens.
- Label all specimens in the presence of the patient. Include the following on each specimen:
 - Patient Name
 - o Date of Collection
 - o Time of Collection
 - o Initials of Collector
- On the requisition include the following:
 - o Patient Name
 - o Patient Date of Birth
 - Date of Collection
 - o Time of Collection
 - Initials of Collector
- Refrigeration or freezing of specimens:
 - A separate refrigerator/freezer must be used to store specimens. The refrigerator/freezer must never be used to store food, drugs, or anything other than laboratory specimens.
 - o The freezer must not be a self-defrosting freezer.
 - o The refrigerator must be maintained at 2-8 degrees Celsius
 - o The freezer must be maintained at minus 15 to minus 30 degrees Celsius
 - To ensure the specimens are maintained at proper temperatures a temperature log must be kept with the refrigerator/freezer. The temperatures along with the initials of the person checking the refrigerator/freezer must be recorded daily on the temperature log sheet.

BLOOD SPECIMEN COLLECTION

PURPOSE: The quality of laboratory results is dependant upon the quality of specimens submitted for analysis. Good quality specimens produce good quality results useful for diagnosing and monitoring treatment.

POLICY: The laboratory regularly monitors the quality of specimens submitted for testing. If a specimen is found to be of poor quality, it will be rejected and a recollection requested.

PROCEDURE:

- Confirm proper patient identification. For alert patients, verify name and date-of-birth.
- Collect specimens for requested tests, in the proper order of draw:

BLOOD	(SPS:sterile)	(Blood culture)
CULTURE		
BRICK / RED	(no additive)	(Blood Bank & Therapeutic Drug)
LIGHT BLUE	(Citrate)	(Coagulation)
SST/GOLD with gel	(serum sep.)	(Most Chemistries)
BLACK (Auto	(Citrate)	(Sedimentation rate)
Plus)		
GREEN	(Sodium	(Ammonia)
	Heparin)	
LIGHT GREEN	(Lithium	(Troponin I)
	Heparin)	
LAVENDER	(EDTA)	(CBC, Platelets)
GRAY	(oxalate/fluoride)	(Lactic Acid)

IMPORTANT: If using a butterfly infusion set to draw specimens, the light blue top cannot be the first tube collected. A small amount of blood must be collected in a "discard" light blue tube or a red/brick tube without clot activator prior to collecting the primary blue tube for testing.

NOTE: Order of draw was established utilizing the NCCLS recommendations

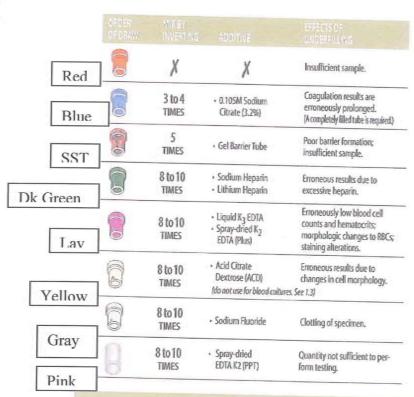
- If blood is drawn in a syringe, transfer it to tubes within seconds of collection.
 A BD Blood Transfer Device is connected to the syringe for transferring the blood into the tubes. Syringe collected blood should be transferred to tubes utilizing the same order of draw as outlined above. The vacuum in the tube will draw in the correct amount of blood. Do not apply pressure to the syringe or force blood into the tubes.
- All tubes with anticoagulants (blue, black, yellow, green, lavender, and gray tops), are to be thoroughly mixed by gently inverting 8 to 10 times. Brick and SST stoppered tubes should be gently inverted once or twice to wet all sides of the tube.

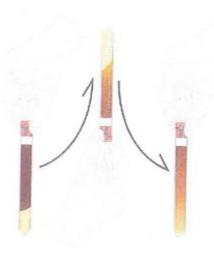
- Label the specimens. <u>Each tube must have the patient's full name, location, procedure or test, date and time collected, and initials of the person collecting the specimen.</u> Do not write initials beside the barcode on the computerized labels. It interferes with the laboratory instrument properly reading the barcode.
- Record time, date, and your initials on the lab slip.
- Please refer to Sample Collection for Coagulation Testing for additional information.

Processing Tubes

The vacuum blood collection tube does not fill completely to the stopper, but only to the required level. Proper dilution of the blood and additive in the tube is critical. Be sure that each tube is allowed to fill until the blood flow stops. If unsure, wait an additional 1-2 seconds before removing the tube from the holder and withdrawing the needle from the arm. Improperly filled tubes will be rejected by the laboratory, and the sample must be redrawn to ensure accurate results.

REMEMBER: Always check the expiration date on tubes prior to collection. Expired tubes will NOT be processed by the laboratory, and the sample must be redrawn to ensure accurate results.





WHY?

- Most tubes contain an Accorder or CLOT ACTUATION that needs to be mixed with the blood sample.
- Tubes with anticoagulants such as EDTA need to be mixed to ensure the specimen does not clot.

HOW?

- Holding tube upright, gently invert 180° and back.
- Repeat movement as prescribed for each tube.

WHEN

· Immediately after drawing.

CONSEQUENCES IF NOT MIXED -

- Tubes with anticoagulants will clot.
- · SST tubes may not clot completely.
- Specimen will often need to be redrawn.

27) Westing Tourned Specimens

Specimen Integrity

An unspun or poorly spun specimen allows the cells contact with the serum or plasma. Metabolic changes occur until the specimen is properly spun. Delay in processing changes the composition of the specimen and could cause erroneous values.

Centrifuge Operation

3000 RPM is the common speed under most circumstances. The majority of samples require 10 – 15 minutes of centrifugation.



Proette Technique A pipette is used to remo

A pipette is used to remove the serum or plasma after a specimen has been spun.

When using a pipette, be cautious not to disturb the red cells. If the red cells are disturbed, re-spin the specimen and begin pipette process again.

Transfer the serum or plasma from the pipette into the transport vial and cap the vial. Store sample at the appropriate temperature as indicated for the testing requested.

Send ONLY the transport vial to the laboratory for testing. DO NOT send the original tube.

Pour Techniqu

Slowly pour the required amount of serum into the transport vial and cap the vial. Store sample at the appropriate temperature as indicated for the testing requested. Do not pour a sample without a gel barrier in the specimen collection tube.

Using the pipette technique is the appropriate method to remove serum or plasma from a non-gel barrier tube. Send ONLY the transport vial to the laboratory for testing, DO NOT send the original tube.

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Sample Collection for Coagulation Testing

- Collection Tube. Blood should be collected in a blue-top tube containing 3.2% buffered sodium citrate.
- 2. **High Hematocrit Samples.** Patients with elevated hematocrits have a relatively low amount of plasma for a given whole blood (collection) volume. This tends to effectively increase the plasma citrate concentration. If the patient has a known hematocrit >55%, the amount of citrate in the collection tube must be decreased according to the formula below:

Citrate volume = (100 - hematocrit) / (595 - hematocrit) x total volume **Example:**Patient hematocrit = 60%Total volume = 5 mL (standard citrated plasma collection tube volume) $(100 - 60) / (595 - 60) \times 5 = 0.33 \text{ mL sodium citrate}$

- 3. Order of Draw. A discard tube is not required prior to collection of coagulation samples, unless using a winged blood collection kit (butterfly) as stated in number 5 below. When non-citrate tubes are collected for other tests, collect sterile and nonadditive (red top) tubes prior to citrate (blue top) tubes. Any tube containing an alternate anticoagulant should be collected after the blue-top tube. Gel-barrier tubes and serum tubes with clot initiators should also be collected after the citrate tubes.
- Venipuncture Technique. To avoid contaminating the sample with tissue thromboplastin, the venipuncture must be clean, with no trauma. Hemolyzed samples are not acceptable.
- Winged blood collection kits (butterfly) must use a discard lead tube prior to collecting specimen tube to submit for testing.
- 6. Fill Volume. Evacuated collection tubes must be filled to completion to ensure that a 9:1 blood-to-anticoagulant ratio is achieved. Underfilling of citrate collection tubes results in an increased anticoagulant-to-blood ratio and can extend clot-based coagulation assays. Note: Never combine two underfilled tubes together.
- Mixing. The sample should be mixed immediately by gentle inversion at least six times to ensure adequate mixing of the anticoagulant with the blood.
- 8. **Plasma Processing.** Transfer the sample as soon as possible (preferably within 30 minutes of collection). Transfer plasma using a plastic pipette into a LabCorp PP transpak frozen purple tube with screw cap (LabCorp N ° 49482). Note that glass should not be used because glass can activate the clotting cascade. Label each tube "plasma, citrate." The specimen should be **frozen** immediately and maintained frozen until tested. To avoid delays in turnaround time when requesting multiple tests on frozen samples, please submit separate frozen specimens for each test requested.

Con't - Sample Collection for Coagulation Testing

Platelet-poor Plasma (PPP) Collection for Lupus Anticoagulant Testing

Lupus anticoagulants (LA) are nonspecific antibodies that extend clot-based coagulation assays as the result of their interaction with phospholipid in the reaction mixture. Platelets in plasma samples can act as a source of phospholipid and mask the effects of LA. For this reason, it is important to prepare platelet-poor plasma (PPP) for LA testing. PPP should have a platelet count <10,000/mcL. PPP samples should be collected by double centrifugation.

- Centrifuge for 10 minutes and carefully remove two-thirds of the plasma using a plastic transfer pipette, being careful not to disturb the cells.
- Deliver plasma to a plastic transfer tube, cap, and re-centrifuge for 10 minutes.
- Use a second plastic pipette to remove the plasma, staying clear of the platelets at the bottom of the tube.
- 4. Transfer plasma using a plastic pipette into a purple screw cap "freezer" transport tube(LabCorp N $^\circ$ 49482). Label each tube "plasma, citrate."
- The specimen should be frozen immediately and maintained frozen until tested. To avoid delays in turnaround time when requesting multiple tests on frozen samples, please submit separate frozen specimens for each test requested.

THERAPEUTIC DRUG MONITORING

PURPOSE: Accurate time records are very important in interpreting serum drug. Levels. The result of a drug level determination depends on when the doses are given, when the blood specimen is drawn, route of administration, and how long the patient has been receiving the drug. Time to steady state may be prolonged in renal or hepatic failure where the dosage is decreased accordingly.

POLICY: Peak, Trough and Random levels are available on therapeutic drugs. Those marked with an (*) are available at the ECH laboratory. The other drugs will be referred to another laboratory.

PROCEDURE: The chart below lists the optimal time of draw for the most common therapeutic drugs.

DRUG	STEADY STATE	TIME TO DRAW	
Amikacin	5-35 hours	Peak: 30 min after end of infusion	
A CONTRACTOR OF THE PROPERTY O		1 hour after dose is scheduled	
		Trough: No sooner than 30 min prior to dose	
* Carbamazepine	6 days	30 min. prior to dose	
* Depakote	30-85 hours		
* Digoxin		30 min. prior to dose or 6 hours after dose	
* Gentamicin	2.5-75 hours	Peak: 30 min after end of infusion	
		1 hour after dose is scheduled	
		Trough: No sooner than 30 min prior to dose	
Lidocaine		12-24 hours after start of the maintenance infusion	
* Lithium	5 days	Prior to AM dose	
* Phenytoin	5 days	IV: 2-4 hours after, or 30 min prior to dose	
		ORAL: 30 min prior to dose	
* Phenobarbital	18 days	IV: 1 hour after dose	
		ORAL: 30 min prior to dose	
Procainamide	24 hours	IV: 30 min after loading dose and 24 hours	
		after start of maintenance infusion	
		ORAL: 30 min prior to dose	

Quinidine	2 days	30 min prior to dose
* Theophylline	tablets or soln: 24-36 hr IV: 6-12 hours	IV: At least 24 hours after start of infusion
	IV. 0-12 Hours	ORAL: 30 min prior to dose
* Tobramycin	2.5-75 hours	Peak: 1/2 hour after the end of infusion
		1 hour after dose is scheduled
		Trough: 30 min prior to dose
* Vancomycin		Peak: 1 hour after the end of infusion
		2 hours after dose is scheduled
		Trough: 30 min prior to 3 rd dose

Handling, Transport, and Storage of Specimens

Excerpt from Procedures for the Handling and Processing of Blood Specimens;
Approved Guideline—Third Edition (H18-A3)

Specimen Ha	andling
Serum	 Specimens should be clotted before centrifugation. Spontaneous and complete clotting normally occurs within 30 to 60 minutes
	at room temperature.
	NOTE: The use of a wooden applicator stick or similar device for the release of a clot attached to the tube closure or the sides of the tube (i.e., "rimming") is not recommended as it is a potential source for
	laboratory-induced hemolysis.
1	 The time to clot will be prolonged if the patient is on anticoagulant therapy or if the specimen is chilled.
Plasma	 Use a collection device containing an anticoagulant when plasma is required.
	 Centrifuge anticoagulated specimens immediately after collection.
Chilled	 To chill a specimen, place it immediately in either crushed ice or a mixture of
Specimens	ice and water. Good contact between the cooling medium and the specimen is essential.
	 Chilling a specimen inhibits the metabolism of blood cells and stabilizes certain thermolabile constituents.
	 Do not chill whole blood specimens unless there are documented recommendations for so doing.
Preservatives	 Collection devices containing an additive (e.g., fluorides) can prevent concentration changes within the specimen over extended periods of time and should be avoided.
	 Use sodium fluoride to stabilize glucose in the presence of blood cells for up to 24 hours at 22 to 25 °C or 48 hours at 2 to 8 °C.
	 Use microcollection devices containing a suitable antiglycolytic agent for pediatric blood glucose collection.
Criteria for	Under the following conditions, blood specimens may not be acceptable for
Rejection	testing purposes:
	 Inadequate Specimen Identification
	 Inappropriate Volume of Blood
	Using the Wrong Collection Tube
	Hemolysis
	Improper Storage/Transportation

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Handling, Transport, and Storage of Specimens (Continued)

Specimen Tra	ansport
Time	 Transport specimens in the appropriate biohazard bags or containers to the laboratory in as short a time as possible. Unless chilling of the samples is required (e.g., lactic acid, ammonia), transport all samples at room temperature. Prompt removal of specimens from the collection area is especially important if the area temperature is above 22 °C, which may cause some analytes to deteriorate. If an uncentrifuged whole blood specimen is to be sent to the laboratory for testing, it must reach the laboratory in time to be processed with serum/plasma separation occurring in a time limit to protect the stability of the analytes.
Temperature	Keep chilled specimens at 2 to 8 °C until they are ready to be centrifuged.
Tube Orientation	 Place tubes of blood in a vertical, closure-up position upon delivery to the laboratory. NOTE: Evaluate automated transport systems, pneumatic or otherwise, for any effects on laboratory results prior to use.
Tube Closure	Keep tubes of blood closed at all times. Keeping the tube in a closed position eliminates possible exogenous contamination of the specimen and prevents evaporation and the possibility of spills and aerosols.
Agitation	Gentle handling of collected specimens helps to minimize erythrocyte damage leading to hemolysis of specimens.
Exposure to Light	 Avoid exposing blood specimens for photosensitive analytes (e.g., bilirubin) to artificial light or sunlight (ultraviolet) for any length of time. Protect these specimens with an aluminum foil wrap, an amber specimen container, or the equivalent.

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Handling, Transport, and Storage of Specimens (Continued)

Specimen Proc	cessing the second seco
General	 RECOMMENDATION: Physically separate serum or plasma from contact with cells as soon as possible, unless conclusive evidence indicates that longer contact times do not contribute to result error. A maximum limit of TWO HOURS from the time of collection is recommended. Blood specimens for serum samples should be adequately clotted before centrifugation. Centrifuge tubes with their closures in place and with a centrifuge that has an adequate closure.
Centrifuge Time and Relative Centrifugal Force (rcf)	Consult the manufacturer's literature, which makes recommendations for specific blood collection devices.
Temperature	 Centrifuge chilled specimens that are transported to the laboratory under temperature-controlled conditions. Separate specific thermolabile analytes (e.g., ACTH, cyclic-AMP) at 4 °C. Use temperature-controlled centrifuges.
Recentrifugation	 Do not centrifuge specimens for potassium measurement more than once. Results will be falsely increased. DO NOT attempt to harvest additional serum/plasma AFTER serum/plasma has been removed from non-gel or gel tubes.







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BLOOD CULTURE SPECIMEN COLLECTION

PURPOSE: This policy provides detailed instructions for the collection of blood culture samples.

POLICY: A blood specimen is collected in an aseptic manner and placed in a bacterial growth media to determine the presence of systemic infection. Bactec Plus Blood Culture Bottles are used, both aerobic and anaerobic. These bottles contain a resin which neutralizes the antimicrobial activity of antibiotics present in the patient's blood.

MATERIALS: 70% isopropyl alcohol preps; ChloraPrep One-Step Frepp Applicators; Butterfly blood collection sets with multiple sample Luer Adapter; Bactec Blood Culture Bottles

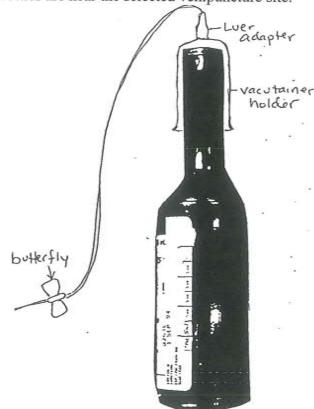
PROCEDURE:

- · Always collect blood cultures before other specimens.
 - o Fill the aerobic bottle first, followed by the anaerobic bottle.
- Assess the patient's arm first. The combination of bottles used will depend on the type of patient. If the patient is a small child or if it appears that the patient's vein may be extremely small, use a Peds Plus bottle rather than the Plus Aerobic. The bottles will need to be filled according to the guidelines on the table provided.

GUIDELINES FOR THE INCCULATION OF BACTEC BLOOD CULTURE BOTTLES

Volume of Blood Specimen (ml)	Volume of Blood added to bottle		
	Plus Aerobic	Plus Anaerobic	
15	10	5	
14	10	4	
13	10	3	
12	9	3	
11	8	3	
10	7	3	
9	6	3	
8	5	3	
	Peds Plus	Plus Anaerobic	
7	4	3	
6	3	3	
5 or less	Entire specimen into this bottle		

- Prep the septum of each bottle with an alcohol prep pad and allow to dry.
- While the alcohol is drying, mark each bottle along the line of graduation on the label (see illustration), estimating the amount of blood needed according to the guidelines listed in this procedure.
- Mix bottles gently to ensure all of the solution is at the bottom of the Bactec bottles.
- Sterilize the selected venipuncture site with the ChloraPrepp One-Step Frepp Applicator
 - Remove Frepp carefully from kit, without touching the foam surface of the applicator. Hold by the center of the handle, in a horizontal position, with the foam surface down. Pinch handle to break the ampoule. DO NOT CONTINUE TO SQUEEZE HANDLE.
 - O Apply the foam surface to the site; depress foam against surface once or twice to saturate foam. For dry sites: Cleanse area thoroughly by repeated back and forth strokes of the applicator for approx. 30 seconds. Do not blot or wipe away, allow to air dry. For moist sites: Cleanse area thoroughly by repeated back and forth strokes of the applicator for approx. 2 minutes. Completely wet the area with the antiseptic. Allow the area to air dry for approx. one (1) minute. Do not blot or wipe away. Discard applicator after a single use.
- Do not re-palpate venipuncture site after it has been properly disinfected.
- Place the bottles upright on a convenient surface near the patient's arm so that the bottles are near the selected venipuncture site.



- Perform the venipuncture. Push the vacutainer holder onto the aerobic blood culture bottle, keeping the blood culture bottle standing upright during the venipuncture. Allow the bottle to fill up to your mark. Remove the vacutainer holder and slide onto the next anaerobic bottle, repeating the procedure of filling. Gently mix blood in bottles after collection.
- After the second bottle is filled, additional blood specimens may be collected, using the vacutainer system.
- Label the bottles properly, including the time the blood was drawn and transport
 promptly to the lab. Any specimens being collected by the nurse from a line or
 port must be marked with the type of line that was used.
- The blood may also be collected using a syringe. Determine the amount of blood necessary and collect into a syringe. Replace with a clean needle. Inoculate the blood culture bottles directly by inserting the needle through the clean septum of each bottle. The aerobic bottle must be inoculated first, then the anaerobic bottle. Be sure to stop the flow of blood from the syringe just before the blood volume is depleted. DO NOT expel air into the anaerobic bottle.

URINE COLLECTIONS

PURPOSE: Particular attention to specimen collection of urine specimens is required to minimize bacterial contamination or over-growth. This procedure outlines the necessary steps for the collection of specimens for routine, culture and 24 hour analysis.

POLICY: All urine specimens should be collected in accordance with this procedure to ensure the best quality results.

PROCEDURE:

- Routine Urinalysis: The optimal specimen is the first morning void that is refrigerated for no more than 8 hours; however, specimens refrigerated up to 24 hours will be accepted.
 - o Collect in clean dry container.
 - Keep specimen at refrigerator temperature.
 - o Record patient name, date and time of collection on the container.
 - o Indicate whether collection was a clean-catch or catheterization specimen.

• Urinalysis with Culture if Indicated:

- Collect urine in a sterile container supplied by either the physician or the Laboratory.
- o Patient must use the supplied towlette to prep the urinary opening.
- Transfer a portion of the urine specimen from the primary collection container to a transport tube by using a urine transport kit.
- Keep both specimens (Sterile primary collection and transport tube at refrigerator temperature and transport to the lab as soon as possible.
- o Record on both specimens the patient name, date and time of collection.
- o Indicate whether collection was a clean-catch or catheterization specimen.

• Urine Culture (Clean Catch or Cath):

- Collect urine in a sterile container supplied by either the physician or the Laboratory.
- o Patient must use the supplied towlette to prep the urinary opening.
- Transfer a portion of the urine specimen from the primary collection container to a transport tube by using a urine transport kit.
- Keep both specimens (Sterile primary collection and transport tube at refrigerator temperature and transport to the lab as soon as possible.
- o Record on both specimens the patient name, date and time of collection.
- o Indicate whether collection was a clean-catch or catheterization specimen.

• 24 Hour Urine Specimens:

Obtain appropriate container(s) from either the physician or Laboratory.

- Record physician name, patient name, date of collection and testing required on specimen container(s).
- o Recommended collection instructions:

- Upon arising in the morning, urinate into the toilet, emptying your bladder completely. Do not collect this sample. Record the exact time and print it on the container label.
- Void (urinate) into the smaller container or "hat" provided and transfer the urine into the larger 24 hr collection container. Do not urinate directly into the 24 hr collection container; personal injury may result.
- Do not add anything but urine to the container and do not pour out any liquid or powder that may already be in the collection container.
- Collect all urine voided for the next 24hours. All urine passed during the 24-hour time period (day or night) must be saved. Urine passed during bowel movements must also be collected, but do not put stool in the collection container.
- Refrigerate the collected urine between all voids or keep it in a cool place. E.g. a tub or cooler with ice in it.
- At exactly the same time the following morning, void completely again (first time after awakening), and add this sample to the collection container. This completes your 24-hour collection.
- Take the 24-hour specimen to the physician's office or laboratory as soon as possible, maintaining the cool temperature in transit by placing the specimen in a portable cooler or insulated bag.

INTE	RFERING SUBSTANCES : CA	ATECHOLAMINES
Plasma, Physiological (in vivo)		
No Effect:	Increase Effect:	Con't Increase Effect:
Indomethacin	Ajmaline	Isoproterenol
Ramipril	Aminophylline	MAO Inhibitors
	Chlorpromazine	Methyldopa
	Clonidine	Nitroglycerin
Decrease Effect:	Cocoa	Perphenazine
Captopril	Cyclopropane	Phenothiazines
Reserpine	Diazoxide	Phentolamine
	Epinephrine	Promethazine
	Ethanol	Stress
	Ether	
Urine, Physiological (in vivo)		
No Effect:	Decrease Effect:	Increase Effect:
Acetaminophen	Clonidine	Ethanol
Amphetamine	Decaborane	Isoproterenol
Aspirin	Diurnal variation	Muscular exercise
Cannabis	Guanethidine	Nicotine
Chlordiazepoxide	Methyldopa	Nitroglycerin
Chlorothiazide	Ouabain	Pain
Diazepam	Radiographic agents	Prochlorperazine
Diphenhydramine	Reserpine	Rauwolfiz
Ephedrin	Sleep	Reserpine
Glucose	Tosylate bretylium	Smoking
Hydralazine		
Mecamylamine		
Meprobamate		
Muscular exercise		
Oral contraceptives		T
Phenobarbital		
Phentolamine		

	INTERFERING SUBSTANCE	ES: CITRATE
Urine, Physiological (in vivo) <u>No Effect:</u> Bedrest Lithium	Decrease Effect: Acetazolamide Parathyroid extract	Increase Effect: Citrates Bendrofluazide Cellulose phosphate Chlorothiazide Hydrochlorothiazide Polythiazide Thiazides

P.	INTERFERING SUBSTANCES:	CORTISOL, FREE
Urine, Physiological (in viv <u>No Effect:</u>		Increase Effect: Estrogens Oral contraceptives Sandfly fever

Reference: LabCorp Directory of Services 2007-2008 42

Urine, Analytical (in vivo) No Effect:	Increase Effect:	Con't Ingrance Effect.
Alclometasone	Acetazolamide	Con't Increase Effect: Meprobamate
Amphetamine	Acetone	Methenamine
Aspirin	Antihypertensive agents	Methyprylon
Barbiturates	Ascorbic acid	Oleandomycin
Chloramphenicol	Carbamazepine	Paraldehyde
Chlordiazepoxide	Cefoxitin	Penicillin
Dextroamphetamine	Cephalothin	
Nalidixic acid		Perphenazine
Penicillin	Chloral hydrate Chlordiazepoxide	Phenazopyyridine Phenothiazines
Phenobarbital	Chlormerodrin	
	Chlorothiazide	Piperidine
Phenytoin		Potassium iodide
Propoxyphene	Calabiaina	Prochlorperazine
Quinine	Colchicine	Promazine
Secobarbital	Dexamethasone	Quinidine
D	Digitoxin	Quinine
Decrease Effect:	Digoxin	Spironolactone
Aspirin	Erythromycin	Sulfamerazine
Carbamazepine	Ethinamate	Testosterone
Estrogens	Etryptamine	Tranquilizers
Hydralazine	Fructose	Vitamin K
Phenytoin	Glutethimide	
Prochlorperazine	Hydroxyzine	
Promethazine	Iodides	
Reserpine		
Salicylate		
Urine, Physiological (in vivo)		
No Effect:	Decrease Effect:	Con't Decrease Effect:
Acetaminophen	Aminoglutethimide	Promazine
Amobarbital	Barbiturates	Propoxyphene
Aspirin	Blindness	Rauwolfia
Barbiturates	Calcium gluconate	Reserpine
Bedrest	Carbon disulfide	SKF-12218
Chlordiazepoxide	Chlorpromazine	
Clopamide	Corticosteroids	
Cromoglycate	Corticotropin	Increase Effect:
Diazepam	Dexamethasone	Betamethaswone
Diphenhydramine	Estrogens	Chlorthalidone
Iothalamate	Ethinyl estradiol	Corticotropin
Nitrazepam	Lead	Cortisone
Phenobarbital	Levodopa	Diethylstilbestrol
Smokine	MAO inhibitors	Diurnal variation
Starvation	Medroxyprogesterone	Ethinyl estradiol
, will	Meperidine	Gonadotropin
	Methandrostenolone	Histamine
	Methylethinylestradiol	
	Metyrapone	Metyrapone Muscular exercise
	Mitotane	
		Sleep deprivation
	Morphine	
	Norethynodrel	
	Oral contraceptives	
	Pentazocine	
	Perphenazine	
	Phenobarbital	
	Phenothiazines	
	Phenylbutazone	
	Phenytoin	
	Progesterone	

Reference: LabCorp Directory of Services 2007-2008

Urine, Physiological (in vivo)	<u>UBSTANCES: HYDROXYIND</u>	DLEACETIC ACID (3-HIAA)
No Effect:	Decrease Effect:	Increase Effect:
Amantadine	Aging	Avocados
Barbiturates	Chlorophenylalanine	Eggplant
	Corticotropin	Fluorouracil
	Ethanol	Melphalan
	Heparin	Methamphetamine
	Hydrazine derivatives	Nicotine
	Imipramine	Phenmetrazine
	Iosocarboxazid	Pineapples
	Isoniazid	Plums
	Levodopa	Pregnancy
	MAO inhibitors	Rauwolfia
	Methyldopa	Reserpine
	Streptozocin	Sleep deprivation
		Smoking
		Walnuts

Plasma, Physiological (in vivo)		
No Effect:	Decrease Effect: Methysergide Reserpine	Increase Effect: Diurnal variation MAO inhibitors
Blood, Physiological (in vivo) No Effect: Food	Decrease Effect:	Increase Effect:

INTERFE	RING SUBSTANCES: 17-KETO	GENIC STEROIDS
Urine, Analytical (in vivo)		
No Effect:	Increase Effect:	Con't Increase Effect:
Ampicillin	Acetazolamide	Nalidixic acid
Carbamazepine	Acetone	Oleandomycin
Chlorothiazide	Acetophenon	Paraldehyde
Glutethimide	Cephaloridine	Penicillin
	Cephalothin	Phenaglycodol
Decrease Effect:	Chlordiazepoxide	Phenazopyriding
Chlordiazepoxide	Chlorpromazine	Phenothiazines
Glucose	Digitoxin	Quinine
Iodipamide	Etryptamine	Spironolactone
Iothalamate	Hydralazine	
Meprobamate	Hydroxyzine	
Metyrapone	Meprobamate	
Radiographic acid	Methyprylon	
Urine, Physiological (in vivo)		
No Effect:	Decrease Effect:	Increase Effect
Carbamazepine	Ampicillin	Ampicillin
Iothalamate	Dexamethasone	Cortisone
Oxytocin	Oral contraceptives	Metyrapone

Reference: LabCorp Directory of Services 2007-2008 44



	RFERING SUBSTANCES: 17-1	<u>KETOSTEROIDS</u>
Urine, Analytical (in vivo)		
No Effect:	Decrease Effect:	Con't Increase Effect:
Acetazolamide	Carbamazepine	Chlorpromazine
Amphetamine	Chlordiazepoxide	Cloxacillinq
Ampicillin	Chlormerodrin	Dexamethasone
Aspirin	Digoxin	Erythromycin
Barbiturates	Estrogens	Ethinamate
Chlordiazepoxide	Glucose	Etryptamine
Chlorothiazide	Meprobamate	Meprobamate
Dextroamphetamine	Metyrapone	Methicillin
Digitoxin	Promazine	Methyprylon
Gentamicin	Propoxyphene	Morphine
Glutethimide	Reserpine	Malidixic acid
Hydralazine	Secobarbital	Oleandomycin
Hydroxyzine	Spironolactone	Oxacillin
Perphenazine		Penicillin
Phenobarbital	Increase Effect:	Phenaglycodol
Phenytoin	Acetone	Phenazopyridine
Prochlorperazine	Acetophenone	Phenothiazines
Propoxyphene	Antihypertensive agents	Piperidine
Testosterone	Ascorbic acid	Qauinidine
	Cephaloridine	Reserpine
	Cephalothin	Secobarbital
	Chloramphenicol	Spironolactone
	Chlorothiazide	Tranquilzers
	Cinorounaziae	Tranquizers
Urine, Physiological (in vivo)		
No Effect:	Con't Decrease Effect:	Con't Decrease Effect:
Acetaminophen	Chlorpromazine	Pyrazinamide
Aspirin	Corticosteroids	Spironolactone
Barbiturates	Corticotropin	Spironolacione
Carbamazepine	Cortisone	Ingrassa Effect.
Chlordiazepoxide	Dluoxymesterone	Increase Effect: Aging
Clopamide	Menopause	
Diazepam		Ampicillin
	Meperidine Methandrostenolone	Chloridalidae
Diphenhydramine othalamate		Chlorthalidone
	Metronidazole	Corticotropin
Lead	Morphine	Danazol
Phenobarbital	Noise	Diurnal variation
n .	Oral contraceptives	Ethinyl estradiol
Decrease Effect:	Oxymetholone	Gonadotropin
Aminoglutethimide	Phenothiazines	Muscular exercise
Ampicillin	Phenytoin	Nandrolone
Betamethasone	Probenecid	Pregnancy
Blindness	Propoxyphene	Testolactone
Carbon disulfide	Pyrazinamide	

INTI	ERFERING SUBSTANCES:	METANEPHRINE
Urine, Analytical (in vivo) <u>No Effect:</u>	Decrease Effect:	Increase Effect: Buspirone (antianxiety)
Urine, Physiological (in vivo) No Effect:	Decrease Effect: Levodopa	Increase Effect: Hydrazine derivatives MAO inhibitors Prochlorperazine

Reference: LabCorp Directory of Services 2007-2008

IN	TERFERING SUBSTANCE	S: OXALATE
Urine, Analytical (in vivo) <u>No Effect:</u> Ascorbic acid	Decrease Effect: Ascorbic acid Calcium carbamide	Increase Effect: Ascorbic acid Homogentisic acid
Urine, Physiological (in vivo) <u>No Effect:</u> Ascorbic acid Citrates	Decrease Effect: Pyridoxine	Increase Effect: Ascorbic acid Ethylene glycol Methoxyflurane Oxalate

INTERFER	ING SUBSTANCES : VANILLYN	MANDELIC ACID (VMA)
Urine, Physiological (in viv		
No Effect:	Decrease Effect:	Increase Effect:
Amphetamine	Clonidine	Ajmaline
Angiotensin	Debrisoquin	Chlorpromazine
Antibiotics	Disulfiram	Creatinine clearance
Barbiturates	Ethanol	Diurnal variation
Chlorothiazide	Guanethidine	Epinephrine
Clopamide	Hydrazine derivatives	Glucagon
Dextroamphetamine	Imipramine	Guanethidine
Digoxin	Isocarboxazid	Histamine
Ephedrine	Levodopa	Insulin
Hydralazine	MAO inhibitors	Isoproterenol
Isoproterenol	Methyldopa	Ketosis
Mecamylamine	Morphine	Levarterenol
Meprobamate	Nialamide	Levodopa
Molindone	Phenothiazines	Lithium
Neomycin	Radiographic agents	Methyldopa
Oral contraceptives	Reserpine	Muscular exercise
Phenoxybenzamine	Uremia	Nitroglycerin
Phentolamine		Prochlorperazine
Prochlorperazine		Rauwolfia
Season		Reserpine
Smoking		Starvation
Thiothixene		Syrosingopine

Evangelical Community Hospital OVA AND PARASITE STOOL COLLECTION INSTRUCTIONS

If you have any questions about collecting, or submitting specimens please call the hospital Laboratory at 570-522-2963.

Your doctor will instruct you on the total number of kits to be submitted. Typically 3 Ova and Parasite Kits (collected every other day) for each patient being tested are recommended.

PATIENT INSTRUCTIONS

1. The Ova and Parasite Collection kit includes a 10% formalin vial (PINK), a PVA vial (GRAY), Para-Pak vial (ORANGE) and an EMPTY Clean vial (White) shown below. Stool specimens collected in anything other than these vials may be considered unsatisfactory for testing. It is necessary to use all the vials when collecting a single specimen (same bowel movement) so that a complete Ova and Parasite exam can be done. Specimens must be fresh when placed in the vials. CAUTION: SOLUTIONS ARE POISONOUS, DO NOT DRINK.



- 2. Please read all instructions before collecting the specimen.
- Please label both vials with Patient Name and Date of Birth. Any vials that
 are received without the patient name and date of birth will be considered
 unsatisfactory and discarded without testing. Please include the date and
 time the specimen was collected.
- 4. Collect the fecal specimen (bowel movement) in a wide mouth container, bedpan, or on a clean newspaper, plastic bag, or piece of saran wrap placed over the toilet seat opening. These will prevent the fecal specimen from falling into the toilet. Please do not mix urine with the sample. Urine mixed in the sample may result in an unsatisfactory specimen. Do Not retrieve fecal samples from the toilet water. Toilet water may result in an unsatisfactory specimen.



Evangelical Community Hospital OVA AND PARASITE STOOL COLLECTION INSTRUCTIONS

5. Remove the vials from the zip lock bag. Carefully open the vials. Do not spill or dump out any of the liquid in the vials. Using the spork (collection spoon/fork attached to the cap) add approximately 3 spoonfuls of hard stool, or 5 spoonfuls of soft stool (from the same bowel movement) to each vial. It is important to sample the areas of the stool that appear bloody, slimy, or watery. If the stool is hard, take a small amount of the stool from each end and from the middle of the specimen.



*** Your kits vial caps will be Pink, Gray, Orange and White.

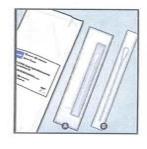
- 6. The stool added to the liquid in the vial should reach the RED LINE on the front of each vial. Thoroughly mix the specimen and the liquid in each vial using the spork. Replace the caps and the spork onto the correct vials. Close tightly. Invert each vial until the specimen is well mixed.
- 7. Wash hands thoroughly.
- 8. Return the vials to the zip lock bag and seal securely. These specimens do not require refrigeration.
- 9. Wash hands thoroughly.

Specimens should be submitted to the Laboratory as soon as possible.

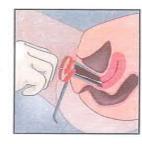
Xpert® CT/NG Endocervical Specimen Collection

The Xpert® CT/NG Vaginal/ Endocervical Specimen Collection kit contains

- Individual Collection Kit
- Cleaning Swab



Insert the collection swab into the endocervical canal. Rotate the swab clockwise for 10-30 seconds in the endocervical canal. Withdraw the swab carefully.



Remove excess mucus from the cervix and surrounding area using the large individually wrapped cleaning swab 3.

Discard the swab.



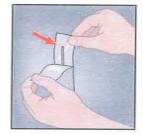
Unscrew the cap from the transport tube.

> Immediately place the specimen collection swab into the transport reagent tube.



Open package (a) that contains the pink-capped Xpert Swab Transport Reagent tube and individually wrapped collection swab. Set the tube aside before beginning to collect sample.

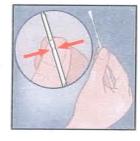
Open the collection swab wrapper by peeling open the top of the wrapper.



Identifying the scoreline, break the swab shaft against the side of the tube. Discard the top portion of the swab shaft.



Hold the swab in your hand, placing your thumb and forefinger in the middle of the swab shaft.



Re-cap the swap transport reagent tube and tighten the cap securely.

Label the transport tube with the sample identification information, including date of the collection, as required.









Xpert® CT/NG Patient-Collected Vaginal Swab Specimen Collection

Open the individual collection package @ that contains the pink-capped Xpert® Swab Transport Reagent tube and individually wrapped collection swab. Set the tube aside before beginning to collect sample. Discard the larger swab 3.



Gently rotate the swab for 10 - 30 seconds. Ensure the swab touches the walls of the vagina so that moisture is absorbed by the swab. Withdraw the swab and continue

to hold it in your hand.



Open the collection swab wrapper by peeling open the top of the wrapper.

Remove the swab, taking care not to touch the tip or lay it down.

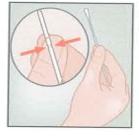


Unscrew the cap from the transport tube.

> Immediately place the collection swab into the transport tube.



Hold the swab in your hand, placing your thumb and forefinger in the middle of the swab shaft across the scoreline.



Identifying the scoreline, break the swab shaft against the side of the tube. Discard the top portion of the swab shaft.

> Avoid splashing contents on the skin. Wash with soap and water if exposed.



Carefully insert the swab into your vagina about two inches inside the opening of the vagina.



Re-cap the transport tube and tighten the cap securely.

Return the tube as instructed by your doctor, nurse or care-provider. Note: Health care provider should

label the transport tube with the sample identification information, including date of the collection, as required.



© 2012 Cepheid In Vitro Diagnostic Medical Device





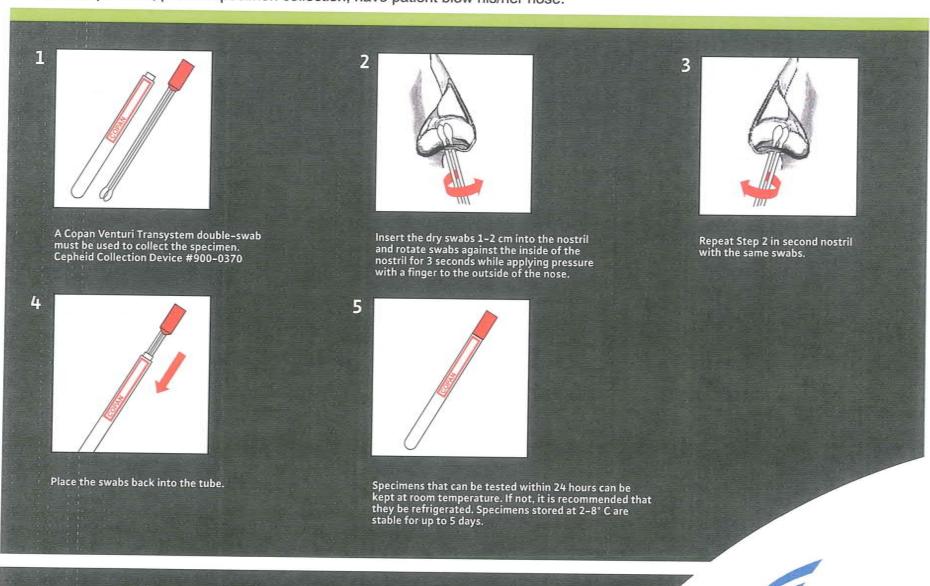






Xpert™MRSA Specimen Collection Protocol

Note: When possible, prior to specimen collection, have patient blow his/her nose.



defining on-demand molecular diagnostics.



For Technical Assistance please contact: Cepheid Technical Support: 888-838-3222, Option 2

NASOPHARYNGEAL SPECIMEN COLLECTION



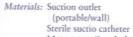
Specimen collection procedures appropriate for use with the following BD Directigen™ rapid test kits:

Product	Unit	Cat. No.
Directigen™ EZ RSV	30 Test Kit	256030
Directigen™ RSV	20 Test Kit	253020
Directigen™ RSV	40 Test Kit	253040
Directigen™ Flu A+B	20 Test Kit	256010
Directigen™ Flu A	20 Test Kit	256020

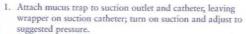
BD CultureSwab™ collection and transport systems for use with BD Directigen™ rapid test kits:

Product	Unit	Cat. No
8D CultureSwab™	Liquid Amies, Reg. Alum. Wire	220129
BD CultureSwab™	Liquid Amies, Soft Alum, Wire	220130
BD CultureSwab	Liquid Amies, Flex. Alum. Wire	220131
BD CultureSwab	Liquid Stuart, Reg. Alum. Wire	220132
BD CultureSwab	Liquid Stuart, Soft Alum, Wire	220133
BD CultureSwab™	Liquid Stuart, Flex. Alum. Wire	220134

Vacuum-assisted Nasopharyngeal Aspirate Method



Mucus trap (i.e., Luken's tube) Viral Transport Medium (VTM)



- 2. Without applying suction, insert catheter into the nose, directed posteriorly and toward the opening of the external ear. NOTE: Depth of insertion necessary to reach posterior pharynx is equivalent to distance between anterior naris and external opening of the ear.
- 3. Apply suction. Using a rotating movement, slowly withdraw catheter. NOTE: Catheter should remain in nasopharynx for a minimal period of time, not to exceed 10 sec.
- 4. Hold trap upright to prevent secretions from going into pu 5. Rinse catheter (if necessary) with approximately 2.0 mL VTM; disconnect suction; connect tubing to arm of mucus trap to seal.
- 6. Repeating procedure for the second nostril will deliver optimal combined sample.
- 7. After collection, immediately transport specimen to the laboratory for viral testing and viral antigen detection. If transport to the laboratory is delayed, place specimen on ice or in refrigeration.

Patient Age	Catheter Size (French)**	Suction Pressure
Premature infant	- 6	80-100 mmHg
Infant	6	80-100 mmHg
Toddler / Preschoole	r 8	100-120 mmHa
School age	8	100-120 mmHa
Adolescent / Adult	8	120-150 mmHa

* To determine length of carbeter tubing, measure distance from rip of nose to external

Nasopharyngeal Wash: **Bulb Method**

Materials: Saline

1-2 oz. tapered sterile rubber bulb* Viral Transport Medium (VTM) Specimen container

- 1. Suction 3-5 mL saline into a new sterile bulb.
- 2. Insert bulb into one nostril until nostril is occluded.
- 3. Instill saline into nostril with one squeeze of the bulb and immediately release bulb to collect recoverable nasal specimen.
- 4. Empty bulb into sterile specimen container with suitable VTM, according to virology laboratory requirements
- 5. Repeating procedure for the second nostril will deliver optimal combined sample.
- 6. After collection, immediately transport specimen to the laboratory for viral testing and viral antigen detection. If transport to the laboratory is delayed, place specimen on ice or in refrigeration.

* Length and diameter of bulb as appropriate for infant, child or adult.

Nasopharyngeal Swab Method

Materials: BD CultureSwab flexible, soft, or regular aluminum wire products or

Nasopharyngeal swab with synthetic fiber tip

1-2 mL Viral Transport Medium (VTM) Specimen container

- 1. Insert swab into one nostril.
- Rotate swab over surface of posterior nasopharynx.
- 3. Withdraw swab from collection site; insert into transport tube or container with VTM.
- 4. Repeating procedure for the second nostril will deliver optimal combined sample.
- 5. After collection, immediately transport specimen to the laboratory for viral testing and viral antigen detection. If transport to the laboratory is delayed, place specimen on ice or in refrigeration.

Nasopharyngeal Wash: Syringe Method

Materials: Saline

3-5 mL syringe* 2* Sterile NG tube 8-french Viral Transport Medium (VTM) Specimen container



0

- 1. Fill syringe with saline; attach tubing to syringe tip.
- 2. Quickly instill saline into nostril.
- 3a. Aspirate the recoverable nasopharyngeal specimen. Recovery must occur immediately, as the instilled fluid will
- 3b. (Alternate) In appropriate cases, patients may tilt head forward
- to allow specimen to drain into suitable sterile container. 4. (If aspirated) Inject aspirated specimen from syringe into sterile specimen container with suitable VTM, according to virology laboratory requirements.
- 5. Repeating procedure for the second nostril will deliver optimal combined sample.
- After collection, immediately transport specimen to the laboratory for viral testing and viral antigen detection. If transport to the laboratory is delayed, place specimen on ice or in refrigeration.
- * Length and diameter of syringe and tubing as appropriate for infant, child or adult.



parks, MD 21152-0999 800.638.8663





Vaginal/Rectal Specimen Collection Protocol



for use with Xpert™GBS and Smart GBS



defining on-demand molecular diagnostics



For Technical Assistance please contact: Cepheid Technical Support: 888-838-2222, Option 2



One Hospital Drive . Lewisburg, PA 17837

DEPARTMENT OF PATHOLOGY - 570-522-2510

Hemoccult ® BRAND ROUTINE SCREENING TEST FOR FECAL OCCULT BLOOD

PATIENT INSTRUCTIONS FOR INPATIENTS AND EMERGENCY ROOM:

- Do not collect samples during, or until three days after your menstrual period or while you have bleeding hemorrhoids or blood in your urine.
- Do not consume the following drugs, vitamins and or foods:
 - *Avoid 7 days prior to and during the test period:

Aspirin or other non-steroidal anti-inflammatory drugs

*Avoid for 72 hours prior to and during the test period:

Vitamin C in excess of 250 mg per day (from all sources, dietary and supplemental). Caution: some iron supplements contain quantities of Vitamin C which exceed 250 mg per day.

- * Red meat (beef, lamb) including processed meats and liver.
- * Raw fruits and vegetables (especially melons, radishes, turnips and horseradish).

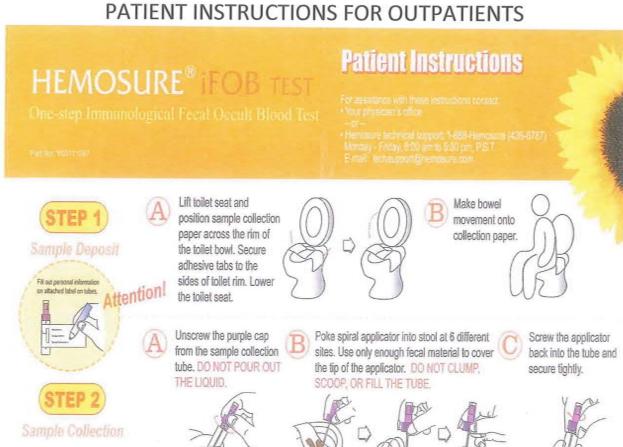
SPECIMEN COLLECTION

The Hemoccult test requires only a small fecal specimen. The specimen is applied to the guaiac paper of the Hemoccult Slide.

- Collect samples from three consecutive bowel movements or three bowel movements closely spaced in time.
- For the most accurate test results collect each stool sample before contact with the toilet bowl water. Collect sample in a clean dry container.
- Fill out the patient information on the appropriate side of the Hemoccult slide.
 Be sure to include date and time specimen was collected.
- Open the cover on the side of the slide that has the patient information.
- Using an applicator stick, collect a small fecal sample.
- Apply a thin smear, covering box A.
- Reuse the applicator to obtain a second sample from a different part of the fecal sample and apply a thin smear, covering box B.

- Close cover flap. Discard applicator stick.
- Slides should be stored at Room Temperature until tested.
- Send specimen to the lab A.S.A.P. after the collection.

HEMOSURE IFOB TESTING FOR OCCULT BLOOD PATIENT INSTRUCTIONS FOR OUTPATIENTS



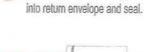




Complete the data. Complete the address







pouch and seal. Insert specimen pouch









DEPARTMENT OF PATHOLOGY - 570-522-2510

Patient Instructions for Semen Collection

Fertility testing, Complete Semen Analysis:

All Complete Semen samples for Fertility testing MUST be scheduled with the laboratory prior to collection. Patients should call 570-522-2522 to schedule an appointment.

Any sample received without an appointment will be rejected.

<u>Post – Vasectomy semen specimens</u>: No appointment is necessary. Specimens are accepted Monday through Friday 06:30 AM – 7 PM and Saturday 7AM - 10:30 AM.

Instructions:

Specimen must be brought to the Laboratory within 1 hour after collection. Specimens may be collected at the hospital.

- A container for collection may be supplied by the Doctor's office or can be picked up at the Out Patient Laboratory collection window.
- 2. Do not have sex or masturbate for at least 2 days prior to collection but no more than 7 days.
- 3. Write your name, date and time clearly on the container.
- 4. Collect your semen sample in the container by:
 - a. Masturbation: This is the recommended method of collection. Do not use lubricants.
 - Interruption of intercourse. This is not recommended. The use of condoms is not recommended.
- After collection is complete keep the container close to your body for warmth. Avoid exposing sample to extreme temperatures.
- 6. Complete all the questions on the Fertility Testing Questionnaire. This form should have been supplied to you by your doctor's office or it can be obtained at the laboratory.
- 7. Bring your sample with all the paper work to the testing laboratory on the ground floor (see map attached) within 1 hour after collection. Paper work includes:

- The test requisition
- The Fertility Testing Questionnaire
- 8. After you have delivered the semen specimen to the laboratory you will go to registration on the 1st floor of the hospital to be registered.

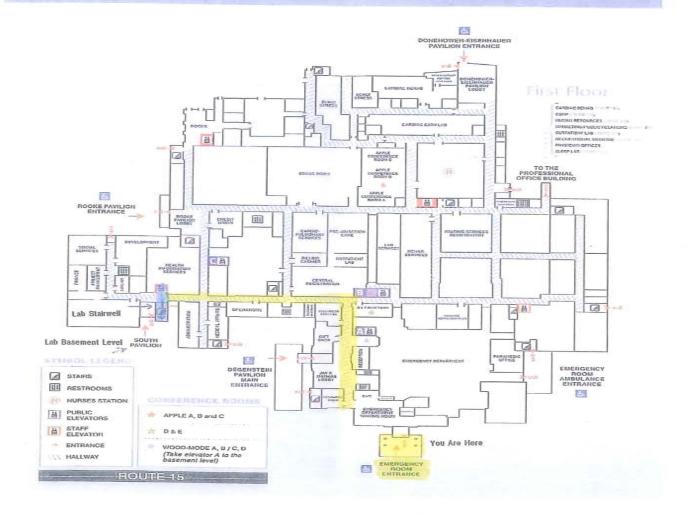


DEPARTMENT OF PATHOLOGY - 570-522-2510

Fertility Testing Questionnaire

N:	ame										
Last (please print)					First				M		
D	r. Name										
Da	ate of Co	ollecti	ion:			Tin	ne of C	Collect	ion: _		
Pl	ease cir	cle th	e appr	opriat	e ansv	ver for	the fo	llowir	ng que	stions.	
1.	Numbe	er of d	lays of	abstir	nence	from i	nterco	urse/ 1	mastuı	bation	1. (circle one)
	1	2	3	4	5	6	7	8	9	10	more then 10
2.	What n	netho	d did y	ou us	e for t	he coll	lection	of thi	s samp	ole? (cir	cle one)
	Mas	turbat	tion		Inte	rruptio	on of ir	itercou	Irse (not	recomme	ended)
3.	Were lu (circle Yes	one)	ants us No	ed du	ring s	pecime	en coll	ection	? (Lubi	ricants a	are not recommended)
4.			nny pro would No							. incon	nplete collection or
If:	yes, plea	se spe	ecify_								
5.	Was sp	ecim during	en kep transpor	t warı tation)	n duri	ing tra	inspor	t? (It is	recomm	ended tha	it specimen be kept close to
	Yes		NO								

CAMPUS MAPS





One Hospital Drive • Lewisburg, PA 17837 Laboratory Services - (570)522-2510

1 - Outpatient Availability of Laboratory Services