
Specimen and Requisition Requirements

All specimens received in the Laboratory must be clearly labeled with:

- the patient's first and last name,
- HCN
- Date of Birth
- Collector's initials
- Date of collection
- Time of Collection
- Specimens must be accompanied by a completed requisition, including patient's first and last name, Date of birth, Health card number as well as physician name, clinical notes, the collection date, collection time and collector's name, as well as the Patient Information Form. (NNZ-F-LS-0023).

Ensure that specimens are not leaking and are delivered to the Laboratory within 1.5 hours. Some specimens specify quicker delivery time required. Please note the date and time of last dose if drug testing is requested.

Refer to pages 34 to 38 for the collection requirements for Transfusion Medicine specimens.

Tests Not in Catalogue

Please view Capital Health Test Catalogue on NSH Intranet or ICL catalogue for tests not performed at Cumberland Regional Health Care Centre. Cumberland Regional Health Care Centre Collection Service at 902-6667-5400 ext. 6477 for information on tests not found in these catalogues.

Information for sample type and collection instructions of microbiology specimens not found in this catalogue may be found in the provincial microbiology user's manual.

Collection, Handling and Transport Instructions

The specimens need to be properly collected, processed, packaged, and transported in accordance with laboratory policies and procedures, in a timely manner and under conditions that will not compromise either the integrity of the specimen or patient confidentiality. Transportation must be compliant with the Transportation of Dangerous Goods (TDG) Act. Please ensure no patient information is visible when packaging specimens to be transported to the laboratory.

It is essential that an adequate volume/ quantity of specimen be submitted for analysis. Minimum volume/ quantity information is provided in each catalogue listing whenever applicable.

Hemolyzed or lipemic specimens may alter certain test results and may be rejected.

All blood and urine specimens being dropped off must follow the guidelines of the independent phlebotomist agreement (<http://www.nshealth.ca/about-us/doing-business-us/independent-phlebotomy>)

Refer to pages 39 to 48 for the collection requirements for Microbiology Specimens

For Microbiology tests not found in this manual please view Provincial Microbiology User's Manual PPHLN - M0008-02

24 Hour Urine Calcium

Mnemonic	U24CA
Specimen	Urine
Collection Tube	24 Hour Urine Container with 25mL 6N HCL additive
Special Instructions	Transport and store refrigerated upon arrival to the laboratory.
For Lab Use Only	Referred to Colchester.

24 Hour Calcium Creatinine Plus Ratio

Mnemonic	U24CACREAT
Specimen	Urine
Collection Tube	24 Hour Urine Container with 25mL 6N HCL additive
Special Instructions	Transport and store refrigerated upon arrival to the laboratory.
For Lab Use Only	Referred to Colchester. 24-hour Creatinine must be site changed to Colchester.

24 Hour Urine Chloride

Mnemonic	U24CL
Specimen	Urine
Collection Tube	24 Hour Urine Container – No Preservative
Special Instructions	Transport and store refrigerated upon arrival to the laboratory.

24 Hour Urine Cortisol

Mnemonic	U24CORT
Specimen	Urine
Collection Tube	24 Hour Urine Container – No Preservative
Special Instructions	Transport and store refrigerated upon arrival to the laboratory.
For Lab Use Only	Referred to QE2.

24 Hour Urine Creatinine

Mnemonic	U24CREAT
Specimen	Urine
Collection Tube	24 Hour Urine Container – No Preservative recommended or 25mL 6N HCL additive is acceptable
Special Instructions	Transport and store refrigerated upon arrival to the laboratory.

24 Hour Urine Magnesium

Mnemonic	U24MG
Specimen	Urine
Collection Tube	24 Hour Urine Container with 25mL 6N HCL additive
Special Instructions	Transport and store refrigerated upon arrival to the laboratory.
For Lab Use Only	Referred to Colchester.

24 Hour Urine Microalbumin

Mnemonic	U24MALB
Specimen	Urine
Collection Tube	24 Hour Urine Container – No Preservative
Special Instructions	Transport and store refrigerated upon arrival to the laboratory.

24 Hour Urine Osmolality

Mnemonic	U24OSMO
Specimen	Urine
Collection Tube	24 Hour Urine Container – No Preservative
Special Instructions	Transport and store refrigerated upon arrival to the laboratory.
For Lab Use Only	Referred to Colchester.

24 Hour Urine Potassium

Mnemonic	U24K
Specimen	Urine
Collection Tube	24 Hour Urine Container – No Preservative
Special Instructions	Transport and store refrigerated upon arrival to the laboratory.

24 Hour Urine Total Protein

Mnemonic	U24TP
Specimen	Urine
Collection Tube	24 Hour Urine Container – No Preservative
Special Instructions	Transport and store refrigerated upon arrival to the laboratory.

24 Hour Urine Urea

Mnemonic	U24UREA
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Specimen	Urine
Collection Tube	24 Hour Urine Container – No Preservative
Special Instructions	Transport and store refrigerated upon arrival to the laboratory.
For Lab Use Only	Referred to Colchester.

24 Hour Urine Uric Acid

Mnemonic	U24URIC
Specimen	Urine
Collection Tube	24 Hour Urine Container with 10mL of 5% NaOH additive
Special Instructions	Transport and store refrigerated upon arrival to the laboratory.
For Lab Use Only	Referred to Colchester.

24 Hour Urine Sodium

Mnemonic	U24NA
Specimen	Urine
Collection Tube	24 Hour Urine Container – No Preservative
Special Instructions	Transport and store refrigerated upon arrival to the laboratory.

Acetaminophen (Tylenol)

Mnemonic	ACET
Specimen	Plasma or Serum
Collection Tube	4 mL lithium heparin (dark green) or 4 mL no additive (red)
For Lab Use Only	Separate plasma/serum from cells within 2 hours of collection.

Activated Partial Thromboplastin Time

Mnemonic	PTT
Specimen	Plasma
Collection Tube	2.7 mL 3.2% sodium citrate (light blue)
Special Instructions	Sample must be filled to line; inadequate volume will result in specimen rejection
For Lab Use Only	Heparinized patients must be tested within 4 hour of collection and non-heparinized within 18 hours of collection.

Activated Partial Thromboplastin Time DADE

Mnemonic	PTT
Specimen	Plasma
Collection Tube	2 x 2.7 mL 3.2% sodium citrate (light blue)
Special Instructions	Sample must be filled to line; inadequate volume will result in specimen rejection. Dade test not orderable in Meditech, please indicate on requisition "Dade."

Albumin

Mnemonic	ALB
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)
For Lab Use Only	Centrifuge within 2 hours of collection.

Albumin/Creatinine Ratio Urine

Mnemonic	U ACR
Specimen	Urine
Collection Tube	Sterile urine container >3 mL

Alcohol (Ethanol)

Mnemonic	ETOH
Specimen	Plasma or Serum
Collection Tube	4 mL lithium heparin (dark green) or 4 mL no additive (red)
For Lab Use Only	Separate plasma/serum from cells within 2 hours of collection. Cannot be added on if alcohol swab is used.

Alkaline Phosphatase

Mnemonic	ALK
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)
For Lab Use Only	Centrifuge within 2 hours of collection.

Alanine Amino Transferase

Mnemonic	ALT
Specimen	Plasma

Collection Tube	3 mL lithium heparin gel separator tube (light green)
For Lab Use Only	Centrifuge within 2 hours of collection.

Amylase

Mnemonic	AMY
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)
For Lab Use Only	Centrifuge within 2 hours of collection.

Anaplasma

Mnemonic	ANAPLASMA
Specimen	Serum and Plasma
Collection Tube	3.5 mL SST (gold) <u>and</u> one lavender EDTA
Special Instructions	Onset of Symptoms required. Must be received at regional site within 4 hours of collection.
For Lab Use Only	Allow to clot for one hour before centrifuging.

Arterial Cord Blood Gas

Mnemonic	ACOBG
Specimen	Cord Blood
Collection Tube	Lithium Heparin Syringe
Special Instructions	Transport at room temperature.
Stability	Optimal analysis is within 30 minutes of collection, to a maximum of 60 minutes. Please use clot catcher when running.

Arterial Blood Gas

Mnemonic	ABG
Specimen	Arterial sample
Collection Tube	Lithium Heparin Syringe
Special Instructions	Transport at room temperature.
Stability	Optimal analysis is within 30 minutes of collection, to a maximum of 60 minutes.

Aspartate Amino Transferase

Mnemonic	AST
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)
For Lab Use Only	Centrifuge within 2 hours of collection.

Babesia

Mnemonic	BABESIA
Specimen	Serum and Plasma
Collection Tube	3.5 mL SST (gold) <u>and</u> one lavender EDTA
Special Instructions	Onset of Symptoms required. Must be received at regional site within 4 hours of collection.
For Lab Use Only	Allow to clot for one hour before centrifuging.

Bilirubin, Direct

Mnemonic	BILD
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)
Special Instructions	Protect from light.
For Lab Use Only	Centrifuge within 2 hours of collection.

Bilirubin, Total

Mnemonic	BILT
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)
Special Instructions	Protect from light.
For Lab Use Only	Centrifuge within 2 hours of collection.

Body Fluids – Albumin

Mnemonic	BFALB
Specimen	Peritoneal fluid, Pericardial fluid, Pleural fluid
Collection Tube	4 mL lithium heparin (dark green)

For Lab Use
Only

Centrifuge within 2 hours of collection. DO NOT perform testing on Synovial Fluid.

Body Fluids – ALT

Mnemonic

BFALT

Specimen

Peritoneal fluid, Pericardial fluid, Pleural fluid

Collection Tube

4 mL lithium heparin (dark green)

For Lab Use
Only

Centrifuge within 2 hours of collection. DO NOT perform testing on Synovial Fluid.

Body Fluids – Amylase

Mnemonic

BFAMY

Specimen

Peritoneal fluid, Pericardial fluid, Pleural fluid

Collection Tube

4 mL lithium heparin (dark green)

For Lab Use
Only

Centrifuge within 2 hours of collection. DO NOT perform testing on Synovial Fluid.

Body Fluids – Cell Count/Differential

Mnemonic

BFCC

Specimen

Peritoneal fluid, Pericardial fluid, Pleural fluid, Synovial fluid

Collection Tube

1 x 3 or 4ml EDTA (mauve)

For Lab Use
Only

Must be tested within 2 hours of collection to maintain cell integrity, if delayed keep at 2-8°C.

Body Fluids – Cholesterol

Mnemonic

BFCHOL

Specimen

Peritoneal fluid, Pericardial fluid, Pleural fluid

Collection Tube

4 mL lithium heparin (dark green)

For Lab Use
Only

Centrifuge within 2 hours of collection. DO NOT perform testing on Synovial Fluid.

Body Fluids – Creatinine

Mnemonic

BFCREAT

Specimen

Peritoneal fluid, Pericardial fluid, Pleural fluid

Collection Tube

4 mL lithium heparin (dark green)

For Lab Use
Only

Centrifuge within 2 hours of collection. DO NOT perform testing on Synovial Fluid.

Body Fluids – Crystal

Mnemonic	BFCRYS
Specimen	Synovial fluid
Collection Tube	4 mL lithium heparin (dark green)
For Lab Use Only	Do Not Spin

Body Fluids – Glucose

Mnemonic	BFGLU
Specimen	Peritoneal fluid, Pericardial fluid, Pleural fluid
Collection Tube	4 mL lithium heparin (dark green)
For Lab Use Only	Centrifuge within 2 hours of collection. DO NOT perform testing on Synovial Fluid.

Body Fluids – LDH

Mnemonic	BFLDH
Specimen	Peritoneal fluid, Pericardial fluid, Pleural fluid
Collection Tube	4 mL lithium heparin (dark green)
For Lab Use Only	Centrifuge within 2 hours of collection. DO NOT perform testing on Synovial Fluid.

Body Fluids – pH

Mnemonic	BFPH
Specimen	Peritoneal fluid, Pericardial fluid, Pleural fluid, Synovial fluid
Collection Tube	Lithium Heparin Syringe – transport on ice
For Lab Use Only	Optimal analysis is within 60 minutes of collection, acceptable up to 4 hours refrigerated (4°C). Minimum volume 1.0 mL sample. Please use clot catcher when running.

Body Fluids – Potassium

Mnemonic	BFK
Specimen	Peritoneal fluid, Pericardial fluid, Pleural fluid
Collection Tube	4 mL lithium heparin (dark green)
For Lab Use Only	Centrifuge within 2 hours of collection. DO NOT perform testing on Synovial Fluid.

Body Fluids – Sodium

Mnemonic	BFNA
Specimen	Peritoneal fluid, Pericardial fluid, Pleural fluid
Collection Tube	4 mL lithium heparin (dark green)
For Lab Use Only	Centrifuge within 2 hours of collection. DO NOT perform testing on Synovial Fluid.

Body Fluids – Total Bilirubin

Mnemonic	BFBILT
Specimen	Peritoneal fluid, Pericardial fluid, Pleural fluid
Collection Tube	4 mL lithium heparin (dark green)
For Lab Use Only	Centrifuge within 2 hours of collection. DO NOT perform testing on Synovial Fluid.

Body Fluids – Total Protein

Mnemonic	BFTP
Specimen	Peritoneal fluid, Pericardial fluid, Pleural fluid
Collection Tube	4 mL lithium heparin (dark green)
For Lab Use Only	Centrifuge within 2 hours of collection. DO NOT perform testing on Synovial Fluid.

Body Fluids – Triglyceride

Mnemonic	BFTRIG
Specimen	Peritoneal fluid, Pericardial fluid, Pleural fluid
Collection Tube	4 mL lithium heparin (dark green)
For Lab Use Only	Centrifuge within 2 hours of collection. DO NOT perform testing on Synovial Fluid.

Body Fluids – Urea

Mnemonic	BFUREA
Specimen	Peritoneal fluid, Pericardial fluid, Pleural fluid
Collection Tube	4 mL lithium heparin (dark green)
For Lab Use Only	Centrifuge within 2 hours of collection. DO NOT perform testing on Synovial Fluid.

Body Fluids – Uric Acid

Mnemonic	BFURIC
Specimen	Peritoneal fluid, Pericardial fluid, Pleural fluid

Collection Tube	4 mL lithium heparin (dark green)
For Lab Use Only	Centrifuge within 2 hours of collection. DO NOT perform testing on Synovial Fluid.

Brain Natriuretic Peptide

Mnemonic	PROBNP-NT
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)
For Lab Use Only	Centrifuge within 2 hours of collection. Referred to Colchester.

Ca125

Mnemonic	CA-125
Specimen	Serum
Collection Tube	3.5 mL SST (gold) or 4 mL no additive (red)
For Lab Use Only	Must be spun within 2 hours, allow to clot for one hour. Referred to Colchester.

Calcium, Total

Mnemonic	CA
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)
For Lab Use Only	Centrifuge within 2 hours of collection.

Calcium, Random (Urine)

Mnemonic	UCAR
Specimen	Urine
Collection Tube	Sterile urine container
For Lab Use Only	Referred to Colchester

Calcium Creatinine Ratio (Urine)

Mnemonic	UCA-CREAR
Specimen	Urine
Collection Tube	Sterile urine container
For Lab Use Only	Referred to Colchester. Creatinine must be site changed to Colchester.

Capillary Blood Gas

Mnemonic	CBG
Specimen	Capillary x 2
Collection Tube	Heparin coated capillary tube (70uL)
Special Instructions	Must be well mixed by flea and magnet. Transport at room Temperature.
For Lab Use Only	Sample must be run within 15 minutes of collection. Cancel specimen if > 15 minutes old.

Carbamazepine

Mnemonic	CARB
Specimen	Serum
Collection Tube	4 mL no additive (red), do not use gel separators
Special Instructions	Date and time of last dose required.
For Lab Use Only	Allow to clot for one hour. Referred to Colchester.

Carbon Dioxide

Mnemonic	CO2
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tubes (light green)
For Lab Use Only	Centrifuge within 2 hours of collection. Do not uncap specimens prior to testing.

Carcinoembryonic Antigen

Mnemonic	CEA
Specimen	Serum
Collection Tube	3.5 ml gold stoppered serum separator tube
For Lab Use Only	Allow to clot for one hour, Referred to Colchester.

Chloride, Random (Urine)

Mnemonic	UCLR
Specimen	Urine
Collection Tube	Sterile urine container

Complete Blood Count

Mnemonic	CBC
Specimen	Whole Blood
Collection Tube	4 ml EDTA (mauve) or 3 ml EDTA (mauve)
For Lab Use Only	Must be analyzed within 8 hours.

Cholesterol Level

Mnemonic	CHOL (Order LIPID if TRIG, LDL, HDL are ordered as well)
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)
For Lab Use Only	Centrifuge within 2 hours of collection.

Creatine Kinase

Mnemonic	CK
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)
For Lab Use Only	Centrifuge within 2 hours of collection.

Cortisol – 30 Minutes

Mnemonic	CORT30MIN
Specimen	Serum
Collection Tube	3.5 ml gold stoppered serum separator tube or 4 mL no additive (red)
Special Instructions	Sample drawn 30 minutes post dose.
For Lab Use Only	Referred to Colchester.

Cortisol – 60 minutes

Mnemonic	CORT60MIN
Specimen	Serum
Collection Tube	3.5 ml gold stoppered serum separator tube or 4 mL no additive (red)
Special Instructions	Sample drawn 60 minutes post dose.

For Lab Use
Only

Referred to Colchester.

Cortisol – AM

Mnemonic	CORTAM
Specimen	Serum
Collection Tube	3.5 ml gold stoppered serum separator tube or 4 mL no additive (red)
Special Instructions	Collect sample between 0700-0900
For Lab Use Only	Referred to Colchester.

Cortisol – PM

Mnemonic	CORTPM
Specimen	Serum
Collection Tube	3.5 ml gold stoppered serum separator tube or 4 mL no additive (red)
Special Instructions	Collect sample between 1500-1700
For Lab Use Only	Referred to Colchester.

Cortisol DST

Mnemonic	CORTDST
Specimen	Serum
Collection Tube	3.5 ml gold stoppered serum separator tube or 4 mL no additive (red)
For Lab Use Only	Referred to Colchester.

Cortisol – Random

Mnemonic	CORT
Specimen	Serum
Collection Tube	3.5 ml gold stoppered serum separator tube or 4 mL no additive (red)
For Lab Use Only	Referred to Colchester.

Creatinine

Mnemonic	EGFR ordered on outpatients, CREAT ordered on inpatients
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Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)
For Lab Use Only	Centrifuge within 2 hours of collection.

Creatinine (Urine)

Mnemonic	UCREATR
Specimen	Urine
Collection Tube	Sterile container

C-Reactive Protein

Mnemonic	HS-CRP
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)
For Lab Use Only	Centrifuge within 2 hours of collection.

Cerebrospinal Fluid – Total Protein

Mnemonic	CSFTP
Specimen	Cerebrospinal Fluid
Collection Tube	Sterile CSF Containers
Special Instructions	Tube #2 if it is a bleed, do not send in pneumatic tube system.
Stability	Test within 30 minutes of collection.
For Lab Use Only	Urinalysis centrifuge, Program 6.

Cerebrospinal Fluid – Glucose

Mnemonic	CSFGLU
Specimen	Cerebrospinal Fluid
Collection Tube	Sterile CSF Containers
Special Instructions	Tube #1 if it is an infection, do not send in pneumatic tube system.
Stability	Test within 30 minutes of collection.
For Lab Use Only	Urinalysis centrifuge, Program 6.

Cerebrospinal Fluid – Cell Count

Mnemonic	CSFCC
Specimen	Cerebrospinal Fluid
Collection Tube	Sterile CSF Containers
Special Instructions	Tube #1 and #4 if it is a bleed. Tube #2 if it is an infection, do not send in pneumatic tube system.
Stability	Test within 30 minutes of collection.

D-Dimer Quantitative

Mnemonic	DDQUAN
Specimen	Plasma
Collection Tube	2.7 ml 3.2% sodium citrate (blue)
Special Instructions	Tube needs to be filled to the line and tested within 6 hours of collection.

Digoxin

Mnemonic	DIG
Specimen	Plasma or serum
Collection Tube	4 ml lithium heparin (dark green) or 4 mL no additive (red). Do not use gel separator tubes.
Special Instructions	Indicate date & time of last dose.
For Lab Use Only	Separate plasma/serum from cells within 2 hours of collection.

Dilantin (Phenytoin)

Mnemonic	PHNY
Specimen	Plasma or serum
Collection Tube	4 ml lithium heparin (dark green) or 4 mL no additive (red). Do not use gel separators tubes.
Special Instructions	Indicate date & time of last dose.
For Lab Use Only	Separate plasma/serum from cells within 2 hours of collection.

Electrolytes (Sodium, Potassium & Chloride)

Mnemonic	LYTES
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)
For Lab Use Only	Centrifuge within 2 hours of collection.

Erythrocyte Sedimentation Rate

Mnemonic	ESR
Specimen	Whole Blood
Collection Tube	4 mL EDTA (mauve)
Special Instructions	At least 2.5ml of specimen is required for testing
For Lab Use Only	Test within 10 hours at RT

Estradiol

Mnemonic	EST
Specimen	Serum
Collection Tube	3.5 mL serum separator tube (gold)
For Lab Use Only	Allow to clot for 1 hour, Referred to Colchester

Ferritin

Mnemonic	FER
Specimen	Serum or Plasma
Collection Tube	3.5 mL serum separator tube (gold), 3 mL lithium heparin (light green)
For Lab Use Only	Allow SST to clot for 1 hour.

Fetal Fibronectin

Mnemonic	FFIBR
Specimen	Cervicovaginal swab
Collection Tube	200 µL of sample required in 1 mL extraction buffer tube
Special Instructions	Do not send in pneumatic tube system.

Fibrinogen Screen

Mnemonic	FIB
Specimen	Plasma
Collection Tube	2.7 ml 3.2% sodium citrate (blue)
Special Instructions	Tube must be filled to the line
For Lab Use Only	Test within 6 hours unless double spun, plasma removed and frozen.

Folate

Mnemonic	FOL
Specimen	Serum
Collection Tube	3.5 mL serum separator tube (gold)
Special Instructions	Folate is light sensitive, limit specimen exposure to light prior to testing, allow to clot for 30 mins. Must have "Do Not Cancel" or "hem" on req.
For Lab Use Only	Allow to clot for 1 hour, referred to Colchester

Free T3

Mnemonic	FT3
Specimen	Serum
Collection Tube	3.5 mL serum separator tube (gold)
For Lab Use Only	Allow to clot for 1 hour, referred to Colchester

Free T4

Mnemonic	FT4
Specimen	Serum
Collection Tube	3.5 mL serum separator tube (gold)
For Lab Use Only	Allow to clot for 1 hour.

Follicle-Stimulating Hormone

Mnemonic	FSH
Specimen	Serum
Collection Tube	3.5 mL serum separator tube (gold)
For Lab Use Only	Allow to clot for 1 hour, referred to Colchester

Gamma-Glutamyl Transferase

Mnemonic	GGT
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)

Gentamicin Post

Mnemonic	GENTPOST
Specimen	Plasma or Serum
Collection Tube	4 mL lithium heparin (dark green) or 4 ml no additive (red). Do not use gel separator tubes.
Special Instructions	Collect sample 30 minutes after dosage. Indicate date & time of last dose.
For Lab Use Only	Separate plasma/serum from cells within 2 hours of collection.

Gentamicin Pre

Mnemonic	GENTPRE
Specimen	Plasma or Serum
Collection Tube	4 mL lithium heparin (dark green) or 4 ml no additive (red). Do not use gel separator tubes.
Special Instructions	Collect sample 30 minutes prior to dosage. Indicate date & time of last dose.
For Lab Use Only	Separate plasma/serum from cells within 2 hours of collection.

Gentamicin Random

Mnemonic	GENTR
Specimen	Plasma or Serum
Collection Tube	4 mL lithium heparin (dark green) or 4 ml no additive (red). Do not use gel separator tubes.
For Lab Use Only	Separate plasma/serum from cells within 2 hours of collection.

Glucose AC

Mnemonic	GLUAC
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)
Special Instructions	Fasting 8 hours
For Lab Use Only	Centrifuge within 2 hours of collection.

Glucose Loading Dose (50gm Oral Drink)- Gestational

Mnemonic	GTTLOAD
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)

Special Instructions	Collect a blood sample one hour after the 50-gram glucose drink is finished. No fasting required.
For Lab Use Only	Centrifuge within 2 hours of collection.

Glucose Monitor

Mnemonic	GLUM
Specimen	Finger prick
Special Instructions	Nurse to draw

Glucose PC

Mnemonic	GLUPC
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)
Special Instructions	2 hours after last meal. See specific dietary instructions.
For Lab Use Only	Centrifuge within 2 hours of collection.

Glucose Random

Mnemonic	GLUR
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)
For Lab Use Only	Centrifuge within 2 hours of collection.

Glucose Tolerance Test (75gm Oral Dose)

Mnemonic	GTT
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)
Special Instructions	Collect a blood sample two hours after the 75-gram glucose drink is finished. 8 hours fast required.
For Lab Use Only	Centrifuge within 2 hours of collection.

Glucose Tolerance Test (75gm Oral Drink) – Gestational

Mnemonic	GTTG
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)

Special Instructions	Collect blood samples one hour and two hours after the 75 grams glucose drink is finished. 8 hours fast required.
For Lab Use Only	Centrifuge within 2 hours of collection.

HCG Quantitative

Mnemonic	HCGSQ
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)
For Lab Use Only	Centrifuge within 2 hours of collection.

HDL Cholesterol

Mnemonic	HDL (Order LIPID if LDL, CHOL, and TRIG ordered as well)
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tube (light green)
Special Instructions	Patient must fast 12 hours prior to collection.
For Lab Use Only	Centrifuge within 2 hours of collection.

H. Pylori Antigen

Mnemonic	STHPAG
Specimen	Stool
Collection Tube	Sterile container
Special Instructions	If sent from another site, keep frozen.
For Lab Use Only	Referred to Colchester

Hemoglobin A1C

Mnemonic	A1C
Specimen	Whole Blood
Collection Tube	3- or 4-ml mauve (EDTA)

Hepatitis B Surface Antibody

Mnemonic	HEPBSAB
Specimen	Serum

Collection Tube	7.5 mL serum separator tube (gold) or 10 ml red (no anticoagulant)
For Lab Use Only	Allow to clot for 1 hour. Test samples as soon as possible after collecting. Referred to Colchester.

Hepatitis B Surface Antigen

Mnemonic	HEPBSAG
Specimen	Serum
Collection Tube	7.5 mL serum separator tube (gold) or 10 ml red (no anticoagulant)
For Lab Use Only	Allow to clot for 1 hour. Test samples as soon as possible after collecting. Referred to Colchester.

Hepatitis C Antibody

Mnemonic	HEPC
Specimen	Serum
Collection Tube	7.5 mL serum separator tube (gold) or 10 ml red (no anticoagulant)
For Lab Use Only	Allow to clot for 1 hour. Test samples as soon as possible after collecting. Referred to Colchester.

HIV AG/AB Combo

Mnemonic	HIVAGAB
Specimen	Serum
Collection Tube	7.5 mL serum separator tube (gold) or 10 ml red (no anticoagulant)
For Lab Use Only	Allow to clot for 1 hour. Test samples as soon as possible after collecting. Referred to Colchester.

Ionized Calcium

Mnemonic	CAION
Specimen	Plasma
Collection Tube	3 mL Lithium Heparin plasma separator tube. (Light green tube)
Special Instructions	Place on ice slurry immediately after collection.
For Lab Use Only	Centrifuge within 2 hours of collection. After centrifugation samples should remain capped and kept cold prior to analysis.

Iron

Mnemonic	IRON
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Specimen	Serum
Collection Tube	3.5 mL serum separator tube (gold)
For Lab Use Only	Centrifuge within 2 hours of collection.

Lactate

Mnemonic	LACW
Specimen	Whole Blood
Collection Tube	4 mL dark green (Lithium heparin)
Special Instructions	Transport at room temperature.
Stability	Must be tested within 30 minutes of collection.
For Lab Use Only	Do not spin.

Lactate Dehydrogenase

Mnemonic	LDH
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tubes (light green)
Special Instructions	Must have clinical note to be tested
For Lab Use Only	Centrifuge within 2 hours of collection.

LDL Cholesterol, calculated

Mnemonic	LDL (Order LIPID if HDL, CHOL, and TRIG ordered as well)
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tubes (light green)
Special Instructions	Patient must fast 12 hours prior to collection
For Lab Use Only	Centrifuge within 2 hours of collection.

Lipase

Mnemonic	LIP
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tubes (light green)

For Lab Use
Only

Centrifuge within 2 hours of collection.

Lithium

Mnemonic	LI
Specimen	Serum
Collection Tube	4 ml red (no anticoagulant)
Special Instructions	Do not use tubes containing Lithium Heparin.
For Lab Use Only	Separate plasma/serum from cells within 2 hours of collection.

Luteinizing Hormone

Mnemonic	LH
Specimen	Serum
Collection Tube	3.5 ml gold stoppered serum separator tube
For Lab Use Only	Allow to clot for 1 hour. Referred to Colchester.

Magnesium

Mnemonic	MG
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tubes (light green)
For Lab Use Only	Centrifuge within 2 hours of collection.

Magnesium (Urine)

Mnemonic	UMGR
Specimen	Urine
Collection Tube	Sterile urine container
For Lab Use Only	Referred to Colchester

Malaria Smear

Mnemonic	MAL
Specimen	Whole Blood
Collection Tube	4 ml mauve (EDTA)

Stability	Room temperature-deliver to lab within 4 hours.
For Lab Use Only	Referred to QEII, must be received within 3 days.

Microalbumin (Urine)

Mnemonic	U ACR
Specimen	Urine
Collection Tube	Sterile container

Mononucleosis

Mnemonic	MONO
Specimen	Serum
Collection Tube	1 x 4 ml red or 1x 3.5 ml gold SST (no anticoagulant)
Special Instructions	Hemolyzed and/or contaminated samples cannot be tested.
For Lab Use Only	Red tube should be allowed to clot for 1 hour before separation, 30 minutes for SST. Aliquot and freeze if testing not performed on the same day as collected.

Occult Blood

Mnemonic	STOB1, STOB2, STOB3
Specimen	Stool
Collection Tube	Hemoccult stool collection card
Special Instructions	Hemoccult occult blood test is not to be used with gastric specimens. Collection instructions can be provided.

Osmolality – Plasma/Serum

Mnemonic	OSMO
Specimen	Plasma or Serum
Collection Tube	3 mL lithium heparin (light green), 3.5 ml stoppered serum separator (gold)
For Lab Use Only	Do not uncap specimen. Referred to Colchester.

Osmolality – Urine

Mnemonic	UOSMO
Specimen	Urine
Collection Tube	Sterile urine container, random urine or 24-hour collection (no preservative)

For Lab Use
Only

Do not uncap specimen. Referred to Colchester.

Phosphorous

Mnemonic	PHOS
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tubes (light green)
For Lab Use Only	Centrifuge within 2 hours of collection.

Potassium (Urine)

Mnemonic	UKR
Specimen	Urine
Collection Tube	Sterile container

Pre-Albumin

Mnemonic	PREALB
Specimen	Serum or Plasma
Collection Tube	3.5 ml gold stoppered serum separator tube, or 3 mL lithium heparin (light green)
For Lab Use Only	Centrifuge within 2 hours of collection.

Pregnancy Test (Urine)

Mnemonic	HCG
Specimen	Urine
Collection Tube	Sterile container

Prolactin

Mnemonic	PROL
Specimen	Serum
Collection Tube	3.5 ml gold stoppered serum separator tube or 4 mL no additive (red)
For Lab Use Only	Referred to Colchester.

Prostate-Specific Antigen

Mnemonic	PSA
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Specimen	Serum or Plasma
Collection Tube	3.5 ml gold stoppered serum separator tube, or 3 mL lithium heparin (light green)
For Lab Use Only	Centrifuge within 4 hours of collection.

Protein Creatinine Ratio

Mnemonic	U PCR
Specimen	Urine
Collection Tube	Sterile container

PT/INR (Prothrombin Time)

Mnemonic	PTINR
Specimen	Plasma
Collection Tube	2.7 ml blue (3.2% sodium citrate)
Special Instructions	Tube must be filled to the line. Do not refrigerate.
For Lab Use Only	Stable for 24 hours at RT.

Random Protein (Urine)

Mnemonic	UTPR
Specimen	Urine
Collection Tube	Sterile urine container
Stability	Transport and store refrigerated upon arrival to the laboratory.

Rapid Covid-19

Mnemonic	COVST
Specimen	Nasopharyngeal Specimen
Collection Tube	UTM Swab
Special Instructions	Floor must notify lab to perform swab as a Rapid Covid-19 (Can be ordered by lab staff only)

Reticulocyte Count

Mnemonic	RETIC
Specimen	Whole Blood
Collection Tube	3 or 4ml mauve (EDTA)

Rheumatoid Factor

Mnemonic	RA
Specimen	Serum
Collection Tube	1 x 4 ml red tube or 1x 3ml gold SST
For Lab Use Only	Allow to clot for 1 hour after collection for red tubes and 30 minutes to clot for gold SST. Aliquot and freeze if testing is not performed on the same day as collected.

Rubella IgG Antibody

Mnemonic	RUB
Specimen	Serum
Collection Tube	4 ml red (no anticoagulant)
For Lab Use Only	Allow to clot for 1 hour after collection. Test samples as soon as possible after collecting. Referred to Colchester.

Salicylate

Mnemonic	SAL
Specimen	Plasma or Serum
Collection Tube	4 mL lithium heparin (dark green) or 4 ml red (no anticoagulant)
For Lab Use Only	Separate plasma/serum from cells within 2 hours of collection.

Semen Analysis - Fertility

Mnemonic	SA
Specimen	Semen
Collection Tube	Sterile container
Special Instructions	Delivered to laboratory within 30 minutes of collection and maintain at 37°C.
Stability	30 minutes

Semen Analysis Post Vasectomy

Mnemonic	SAPV
Specimen	Semen
Collection Tube	Sterile container

Special Instructions Delivered to laboratory within 30 minutes of collection and maintain at 37°C.

Stability 30 minutes

Sodium (Urine)

Mnemonic UNAR
Specimen Urine
Collection Tube Sterile container

Syphilis IgG Antibody

Mnemonic SYPHI
Specimen Serum
Collection Tube 10 mL no additive (red) or 3.5 ml gold stoppered serum separator tube.
For Lab Use Only Referred to Colchester.

Total Iron Binding Capacity & % Saturation (TIBC)

Mnemonic TIBC
Specimen Serum
Collection Tube 3.5 ml gold stoppered serum separator tube.
For Lab Use Only Centrifuge within 2 hours of collection.

Total Protein

Mnemonic TP
Specimen Plasma
Collection Tube 3 mL lithium heparin gel separator tubes (light green)
For Lab Use Only Centrifuge within 2 hours of collection.

Triglycerides Level

Mnemonic TRIG
(Order LIPID if CHOL, LDL, and HDL are ordered as well)
Specimen Plasma
Collection Tube 3 mL lithium heparin gel separator tubes (light green)

Special Instructions	12-hour fast
For Lab Use Only	Centrifuge within 2 hours of collection.

Troponin I - High Sensitivity

Mnemonic	TROPIHS
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tubes (light green)
For Lab Use Only	Centrifuge within 2 hours of collection.

Thyroid Stimulating Hormone

Mnemonic	TSH
Specimen	Serum
Collection Tube	3.5 ml stoppered serum separator (gold)
For Lab Use Only	Allow to clot 1 hour.

Urine Drug Screen

Mnemonic	UDR
Specimen	Urine
Collection Tube	Sterile container – 10 mL of sample
For Lab Use Only	48 hours at 2-8 °C

Urea (BUN)

Mnemonic	UREA
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tubes (light green)

Urea (Urine)

Mnemonic	UUREAR
Specimen	Urine
Collection Tube	Sterile container
For Lab Use Only	Referred to Colchester.

Uric Acid

Mnemonic	URIC
Specimen	Plasma
Collection Tube	3 mL lithium heparin gel separator tubes (light green)

Uric Acid (Urine)

Mnemonic	UURICR
Specimen	Urine
Collection Tube	Sterile container
For Lab Use Only	Referred to Colchester

Urinalysis

Mnemonic	UA
Specimen	Urine
Collection Tube	Sterile container >3 mL
Special Instructions	Preferred sample is first morning urine, no preservatives

Vancomycin Random

Mnemonic	VANR
Specimen	Plasma or Serum
Collection Tube	4 mL lithium heparin (dark green), or 4 mL no additive (red)
Special Instructions	Fill in the date and time of last dose. Do not use gel separators.
For Lab Use Only	Separate plasma/serum from cells within 2 hours of collection.

Vancomycin Trough Level

Mnemonic	VANPRE
Specimen	Plasma or Serum
Collection Tube	4 mL lithium heparin (dark green), or 4 mL no additive (red)
Special Instructions	Should be taken prior to next dose. Fill in the date and time of last dose. Do not use gel separator tubes.
For Lab Use Only	Separate plasma/serum from cells within 2 hours of collection.

Valproic Acid (Depakene) Level

Mnemonic	VALP
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Specimen	Serum
Collection Tube	4 ml red (no anticoagulant)
Special Instructions	Last dose needs to be noted in Meditech with date and time. Do not use gel separator tubes.
For Lab Use Only	Referred to Colchester

Venous Blood Gas (Standard and Extended)

Mnemonic	VBG (Standard) or VBGEX (Extended)
Specimen	Whole Blood
Collection Tube	4 ml lithium heparin (dark green)
Special Instructions	Transport at room temperature.
Stability	Optimal analysis is within 30 minutes of collection, to a maximum of 60 minutes.
For Lab Use Only	Do not centrifuge.

Venous Cord Blood Gas

Mnemonic	VCOBG
Specimen	Cord Blood
Collection Tube	Lithium Heparin Syringe
Special Instructions	Transport at room temperature
Stability	Optimal analysis is within 30 minutes of collection, to a maximum of 60 minutes. Please use clot catcher when running.

Vitamin B12

Mnemonic	B12
Specimen	Serum
Collection Tube	3.5 ml gold stoppered serum separator tube
Special Instructions	Allow to clot 1 hour.
For Lab Use Only	Referred to Colchester.

TRANSFUSION MEDICINE TEST CATALOGUE

Information for collection of Transfusion Medicine specimens:

Accurate patient identification is critical. Follow Nova Scotia Health policy on Patient Identification located on the NSH intranet OP3-CL-SR-025. Follow Transfusion Medicine collection criteria located in the Venipuncture for blood Specimen Collection NSH policy CL-BP-040.

All Inpatients and ER patients must be wearing an armband before they are collected.

If markers PT2PINK or PT4PINK are present on large Meditech label, ensure additional tubes are collected.

Information required on requisition and specimen labels:

i) Full patient name (First and Last Name)

ii) Patient date of birth and patient Health Card number (HCN)

iii) Transfusion Medicine Labelling Requirements:

➤ **TM Requisition (Large Label):**

- ✓ Collector's Meditech ID or Independent Phlebotomy code
- ✓ Collector's full signature
- ✓ Date and Time of Collection
- ✓ Full legible signature of witness. **Do not use initials for the first name.**

➤ **All specimen tube(s):**

- ✓ Collector's Meditech ID
- ✓ Collector's initials
- ✓ Date and Time of Collection
- ✓ Witness initials

iv) See poster below for an example



Northern Zone

COLLECTING AN ABO & SCREEN



FYI: EDTA Tubes are 6 mL with a Pink Top

1. PRIOR TO COLLECTION

Ensure there is an **order and consent to collect specimen**.

Obtain the correct specimen labels for your patient.

2. AT THE BEDSIDE: IN THE PRESENCE OF THE PATIENT

Collector and Witness verify that information on labels exactly matches the patient's ID armband.

- Spelling of all names
- Date of Birth
- Health Card Number (LIS Downtime)

Collect EDTA tube and any other necessary bloodwork from the patient. Fill the tube. If having difficulty, consult Transfusion Medicine.

3. SPECIMEN LABELS

Large Specimen Label:

The Meditech Mnemonic **AND** full signature is required for the Collector

Witness must sign full name on large label

****NOTE: the large label is the requisition.****

<p>Acct# BB0000203/20 Re# 00031791 SC# NT008421</p> <p>Pt Loc RR LAB Unit# AR00150518 Spec# NT1709-BB00001R RED</p> <p>LAB,BUTTONS ANG HCN# 0006397061 DOB 27/07/1943 Age/Sex 78/F Coll Batch: Date: Sept 17, 2021 Coll By: HAYMAKER Date: Sept 17, 2021 Time: 1531 GR/RH: AB SCREEN</p> <p>Witness: Emma Haymaker</p>	<p>Acct# BB0000203/20 Re# 00031791 SC# NT008421</p> <p>Spec# NT1709-BB00001R 78/F LAB,BUTTONS ANG EH HCN# 0006397061 DOB 27/07/1943 Coll By: HAYMAKER Date: Sept 17, 2021 Time: 1531 GR/RH: AB SCREEN</p> <p>BC# NT008421 LAB,BUTTONS ANG HCN# 0006397061 Spec# NT1709-BB00001R DOB: 27/07/1943</p>
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Small Specimen Label:

Collector initials and writes Meditech Mnemonic on small label

Witness must initial small label

IN THE PRESENCE OF THE PATIENT:
Place the small label lengthwise on tube



Collector must ensure date and time of collection is on both specimen labels

4. SEND TO TRANSFUSION MEDICINE

FOLLOW THE STEPS

Samples that do not conform to this process will be cancelled and a proper recollection required. It is imperative to patient safety that these steps be performed and documented exactly as described.
No exceptions are made.

Send labels with specimen(s) to the lab in the same specimen collection bag



DO NOT USE GEL PENS, PENCILS OR MARKERS



Refer to Policies CL-SR-025 Client Identification
or CL-BP-040 Venipuncture for Blood Specimen Collection - Policy and Procedure

Contact Transfusion Medicine Services for assistance

PPR-G-TM-0006 Effective date 2021/04/01
Developed by the NSPBCT
For an online version visit <http://www.cdha.nshealth.ca/nova-scotia-provincial-blood-coordinating-program-7>



Antibody Screen

Mnemonic	ABS
Specimen	Plasma
Collection Tube	6 mL EDTA (pink)
Special Instructions	See information for collection of Transfusion Medicine specimens on pages 34-35.

Crossmatch of Red Cell(s)

Mnemonic	GRRH & ABS & RC(s)
Specimen	Plasma
Collection Tube	6 mL EDTA (pink)
Special Instructions	See information for collection of Transfusion Medicine specimens on pages 34-35.

Blood Bank QE2

Mnemonic	BBQE2
Specimen	Plasma
Collection Tube	6 mL EDTA (pink)
Special Instructions	Patient presents with a Pre-op req from QEII with BBQE2 stamped on it. Collector to follow collection protocol for Transfusion Medicine specimens (pages 34-35) and complete the QEII requisition with collector and witness required information. Tube is to be directly referred out to the QEII.

Blood Bank Hold

Mnemonic	BBHOLD
Specimen	Plasma
Collection Tube	6 mL EDTA (pink)
Special Instructions	See information for collection of Transfusion Medicine specimens on pages 34-35.

Blood Group/Type

Mnemonic	GRRH
Specimen	Plasma
Collection Tube	6 mL EDTA (pink)

Special Instructions See information for collection of Transfusion Medicine specimens on pages 34-35.

Direct Antiglobulin Test (Coombs)

Mnemonic	DAT
Specimen	Whole Blood
Collection Tube	6 mL EDTA (pink) or EDTA (lavender)
Special Instructions	See information for collection of Transfusion Medicine specimens on pages 34-35.

Cord DAT

Mnemonic	CORD DAT
Specimen	Whole Blood
Collection Tube	6 mL EDTA (pink) or 4 mL EDTA (lavender) or 10 mL serum (red)

Cord GRRH

Mnemonic	CORD GRRH
Specimen	Whole Blood
Collection Tube	6 mL EDTA (pink) or 4 mL EDTA (lavender) or 10 mL serum (red)

Cord HOLD

Mnemonic	CORD HOLD
Specimen	Whole Blood
Collection Tube	6 mL EDTA (pink) or 4 mL EDTA (lavender) or 10 mL serum (red)

Kleihauer

Mnemonic	KLQ
Specimen	Whole Blood
Collection Tube	6 mL EDTA (pink) or 4 mL EDTA (lavender)
Special Instructions	Must be drawn as soon as possible after delivery or for a suspected hemorrhage, CBC sample is acceptable, provided it was collected following delivery or suspected hemorrhage. This is not a STAT test, WhnRho is

required to be given within 72 hours of the event.

Transfusion Reaction Investigation

Mnemonic	TRX
Specimen	Plasma or Serum
Collection Tube	6 mL EDTA pink top (EDTA) and 6 mL serum (red)
Special Instructions	See information for collection of Transfusion Medicine specimens on pages 34-35.

Neonatal GRRH

Mnemonic	NEO-GRRH
Specimen	Whole Blood
Collection Tube	EDTA (lavender) microtainer or a Red (non-additive) microtainer-refer to Appendix G: Maximum Total Pediatric Blood Collection Volume in the Venipuncture for Blood Specimen Collection policy and Procedure (CL-PB-040) prior to collecting blood on a Neonate.

MICROBIOLOGY TEST CATALOGUE

Refer to Provincial Microbiology User's Manual PPHLN – M0008-03 for instructions and tests not found in this manual.

[provincial-microbiology-users-manual.pdf](#)

SPECIMEN COLLECTION AND TRANSPORT INTRODUCTION

This guide to specimen collection and transport provides information on the appropriate collection and handling of optimal specimens to ensure the best chance of detection of organisms causing infection. It is hoped this manual will be able to provide advice to give guidance in most circumstances. If a laboratory user has a question that remains unanswered after consulting the manual, a laboratory staff member or Microbiologist should be contacted.

Specimens often contain potentially infectious micro-organisms: consequently, it is essential that routine precautions be followed. All specimens should be considered hazardous, not only for the micro-organisms that are suspected of being present, but also for other infectious agents that are present at low prevalence in the population. As carriage of these infectious agents is often not known either to the patient or to the physician or health care worker, the best defense against infection is to assume that the specimens are infectious and to take precautions accordingly.

GENERAL GUIDELINES

- Specimens are collected to provide information about organisms that are causing infection. While these organisms can be part of the normal flora, it is important to ensure that normal flora is excluded from the specimen as much as possible.
- Pathogens may be a small component of the organisms contained within a specimen collected from a site that possesses a normal flora. Use of transport medium, and refrigeration when transportation to the laboratory is required can be important to preserve the viability of organisms to allow their detection.
- When infection is caused by a complex flora, cultures may only detect a subset of the organisms present.
- Extensive workup of isolates in these circumstances is often not helpful as results are delayed and do not reflect the range of organisms present. These specimens are reported reflecting the type of flora present.
- Treatment is best chosen empirically.
- Specimens should be collected before starting antimicrobial agents wherever possible, without compromising care.
- When specimens are collected, it is important that the external surface of the specimen container and the requisition are not contaminated. Leaking specimens or specimens with evidence of external contamination will usually result in rejection of the specimen by the laboratory.
- As soon as the specimen is collected and the container appropriately labelled, the specimen container should be placed in a plastic specimen bag. The requisition should be completed and placed in the side pouch separate from the specimen container. **The requisition should not be placed in the same part of the bag as the specimen.**

NOTE:

- Use appropriate specimen collection material. Sterile collection material and aseptic technique must be used for collection of specimens using invasive procedures.

- For specimens from non-sterile sites, attempt to collect the specimen with as little contamination from the surrounding normal flora as possible. PPHLN: Provincial Microbiology User's Manual - 2017

PPHLN-M0008-029

- If a specimen is to be collected through intact skin, the skin should be disinfected thoroughly, allowing several minutes for the disinfectant to have effect. Examples of skin disinfectants include 70% alcohol, iodine solution, povidone-iodine, chlorhexidine, etc. If tincture of iodine is used, remove with 70% ethanol after procedure to prevent burning.
- An adequate amount of specimen should be collected. As a general rule, more is better than less. For example, a tube or urine container with 10 ml of pus is a better specimen than a swab. Small amounts of specimen are subject to drying, becoming aerobic, and other forms of deterioration, whereas larger volumes minimize the risk of false negative results.

SPECIMEN IDENTIFICATION AND INFORMATION

- The specimen should be collected in the standard containers available through hospital stores. These containers are selected to have low failure rates and may be selected to be compatible with instruments.
- Both the specimen container and the requisition must be labelled with two means of identification. Legal name and a government issued number are accepted. Date of birth is not acceptable as an identifier. This is an accreditation requirement. The date and time of collection must be indicated also.
- The specimen source should be clearly and completely indicated to ensure that the appropriate processing takes place. For example, a "swab of the hip" taken in the OR from the joint would be processed/interpreted quite differently from a superficial swab of a hip ulcer.
- When specific diagnoses are being considered, they may have a bearing on the processing of the specimen; these diagnoses should be indicated in the clinical detail section on the requisition to ensure that the specific questions can be answered. This is particularly important if the suspect organism is unusual or requires extraordinary processing.
- Pertinent historical data (e.g. travel, association with a known outbreak, immunosuppression, or underlying disease) should be indicated in the clinical detail section of the requisition. For example, travel history is important in detection of species of organism that are not locally endemic.

SPECIMEN TRANSPORT – GENERAL GUIDELINES

- Specimens should be transported to the laboratory as quickly as possible.
- Specimens that cannot be transported rapidly should be refrigerated, with the following exceptions:
 - Blood cultures should be held at room temperature.
 - CSF cultures should be held at room temperature (meningococci are susceptible to cold). PPHLN: Provincial Microbiology User's Manual
 - Skin scrapings should be kept at room temperature as dermatophytes are cold sensitive.
 - Stool cultures for bacteriology should be mixed with enteric transport medium (Carey-Blair Enteric Transport medium) and kept refrigerated.
 - Stool for parasitology should be placed in a sterile container without any preservative and kept refrigerated. If patient has travelled out of country stool should be mixed with parasite transport medium (SAF) and kept at room temperature.
 - Stool for virology or cytotoxicity (C.Diff) should be placed in a sterile container without any preservative. Store specimen refrigerated prior to transport on ice pack.
 - Swabs should be transported to the laboratory in Amies Transport Medium.

- For anaerobic culture, as much fluid or pus as possible (up to 50ml) should be collected and sent without delay in a dry sterile container. (Swabs with Amies Transport Medium is also acceptable)

NOTE:

- Do not send specimens in syringes for culture. There are difficulties with maintenance of anaerobic conditions in plastic syringes. Recapping of needles is not recommended because of the risk of needle stick injury.
- If the volume of the specimen is very low, non-bacteriostatic saline (preservative free) may be drawn up and used to flush the syringe into a sterile container.

Abscess Culture

Mnemonic	ABSC
Specimen	Swab
Collection Tube	Amies Swab,
Special Instructions	Specify Site, this includes dental abscess and Bartholin cyst specimens.
Stability	72 hours 2-8°C

AFB (TB) Culture

Mnemonic	AFBC
Specimen	Sputum or Bronch Wash
Collection Tube	sterile C/S container
Special Instructions	For blood culture for AFB see Blood Culture Mycobacteria/T
Stability	2-8°C

Aspirate Culture

Mnemonic	ASPC
Specimen	
Collection Tube	Sterile C/S Container
Special Instructions	Specify Site
Stability	48 hours at 2 to 8°C

Body Fluid Culture

Mnemonic	BFC (Gallbladder Fluid-order as MISC)
Specimen	
Collection Tube	Sterile C/S Container add heparin and indicate addition

Special Instructions	Includes gram stain
Stability	Send to lab ASAP at 2 to 8°C
For Lab use only	Gallbladder fluid is not STAT

Blood Culture Aerobic

Mnemonic	BLDAER (Change Count to 1 in LIS if only one blood culture ordered, LIS defaults to 2)
Specimen	Add 5-10 ml of venous blood per adult bottle and 1-4 ml per pediatric bottle for pediatric patients. <u>Do Not</u> over fill culture bottles.
Collection Tube	Appropriate Blood Culture bottle.
Special Instructions	Discard first 1 mL of blood in a discard tube to avoid skin contamination of the blood culture. Change Count to 1 in LIS if only one blood culture ordered, LIS defaults to 2.
Stability	Deliver to lab ASAP at Room Temp

Blood Culture (use if aerobic and anaerobic blood cultures requested by Physician)

Mnemonic	BLDAER and BLDANA (Change Count to 1 in LIS if only one blood culture ordered, LIS defaults to 2)
Specimen	Add 5-10 ml of venous blood per adult bottle and 1-4 ml per pediatric bottle for pediatric patients. <u>Do Not</u> over fill culture bottles.
Collection Tube	Appropriate Blood Culture bottle.
Special Instructions	Discard first 1 mL of blood in a discard tube to avoid skin contamination of the blood culture.
Stability	Deliver to lab ASAP at Room Temp

Blood Culture Mycobacteria/TB

Mnemonic	BLTB
Specimen	Add 3-5 ml of venous blood per adult bottle and 1-4 ml per pediatric bottle for pediatric patients. <u>Do Not</u> over fill culture bottles.
Collection Tube	Appropriate <u>Blood Culture bottle must be obtained from QEII</u> prior to collection.
Special Instructions	Discard first 1 mL of blood in a discard tube to avoid skin contamination of the blood culture.
Stability	Deliver to lab ASAP at Room Temp

Bone Culture (aerobic and anaerobic)

Mnemonic	BONC
Specimen	
Collection Tube	Sterile C/S Container
Special Instructions	Deliver to lab without delay at Room Temp
For Lab Use Only	Add Thio to cover specimen. Send by STAT run to Colchester at Room Temp

Clostridium difficile (Stool) (C.diff)

Mnemonic	CDIF
Specimen	Stool, liquid (not formed)
Collection Tube	Sterile C/S Container
Stability	72 hours at 2-8°C

Chlamydia/GC

Mnemonic	CHLGPCR or UCHLGPCR
Specimen	Aptima Swab (female) Vaginal or Urine (male)
Collection Tube	Aptima swab (female) or Sterile C/S container (male)
Special Instructions	The preferred specimen for women remains a vaginal swab. Urine is the preferred specimen for male (first 20mL voided, patient must not have urinated in the past 2 hrs).
Stability	Aptima swab 3 days at 2-8°C

COVID

Special Instructions	See COVID in Lab section of this manual as test is ordered in the LAB Module in LIS.
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CSF Culture

Mnemonic	CSFC
Specimen	CSF
Collection Tube	CSF Collection Tube # 3
Special Instructions	Deliver to lab ASAP
For Lab Use Only	Send by STAT run to Colchester at Room Temp

Ear Culture

Mnemonic	EARC
Specimen	Swab
Collection Tube	Amies Swab

Stability 72 hours at 2-8°C

Eye Culture

Mnemonic EYEC
Specimen Swab
Collection Tube Amies Swab
Stability 72 hours at 2-8°C

Fungal Culture Dermatophytes

Mnemonic FUCD
Specimen Scrapings
Collection Tube Kit available from lab, dark paper.
Special Instructions See Provincial Microbiology user's manual.

Fungal Culture Systemic

Mnemonic FUCS
Specimen Bronchial Wash
Collection Tube Sterile C/S container
Special Instructions Test performed at QEII

Miscellaneous Aerobic Culture

Mnemonic MISC
Specimen Swab
Collection Tube Amies Swab
Special Instructions Specify Site. Includes gram stain.
Stability 72 hours at 2-8°C

Mouth Culture

Mnemonic MOUC
Specimen Swab
Collection Tube Amies Swab
Stability 72 hours at 2-8°C

MRSA SCREEN

Mnemonic MRSA Specimen
Collection Tube Amies Swab

Special Instructions
Stability

Order specimens "CONG" combo nares and groin
72 hours at 2-8°C

Ova and Parasite Screen

Mnemonic

OPSR

Specimen

Stool

Collection Tube

Sterile C/S container or SAF Fixative

Special Instructions

Test not indicated for in patents in hospital >72hrs. Indicate if travel outside of country and test request will be changed to OPCT and sent to QEII for O&P microscopy.

Stability

72 hours at 2-8°C

Pinworm Examination

Mnemonic

PINW

Specimen

Scotch tape (shiny) collection of perianal area, attached to a glass slide

Stability

24 hours at room temperature

Placenta Culture and TRUE swabs for stillborn

Mnemonic

MISC

Specimen

Placenta (Maternal and Fetal) TRUE (fetus throat, Fetus rectal, Fetus umbilical, Fetus ear)

Collection Tube

Amies swab

Stability

72 hours at 2-8°C

Sputum Culture

Mnemonic

SPUC

Specimen

C/S Container

Collection Tube

Sterile C/S container

Special Instructions

Indicate if expectorated, suction, induced or Bronchial wash specimen.

Stability

24 hours at 2-8°C

Stool Culture

Mnemonic

STOC

Specimen

Stool

Collection Tube

Enteric Transport Media

Special Instructions	Test not indicated for in patents in hospital >72hrs.
Stability	24 hours at 2-8°C

Stool Viral Culture

Mnemonic	VIRC
Specimen	Stool
Collection Tube	Sterile C/S container
Special Instructions	Specify virus requested. Test will be performed at QEII.
Stability	24 hours at 2-8°C

Throat Culture

Mnemonic	THRC
Specimen	swab
Collection Tube	Amies swab
Stability	72 hours at 2-8°C

Tissue Culture

Mnemonic	TISC
Specimen	Tissue
Collection Tube	Sterile C/S container
Special Instructions	Specify Site. Includes gram stain. Deliver to lab ASAP.
Stability	Keep at room temperature and deliver to lab ASAP.
For Lab Use Only	Add THIO to cover specimen. Send by STAT run to Colchester at Room Temp

Trichomonas (Wet Prep Trichomonas)

Mnemonic	VAGS
Specimen	swab
Collection Tube	Amies swab
Stability	24 hours at 2-8°C

Umbilical Culture

Mnemonic	UMBC
Specimen	swab
Collection Tube	Amies swab
Stability	72 hours 2-8°C

Urine Culture

Mnemonic	URNC
Specimen	urine
Collection Tube	sterile C/S container
Stability	Refrigerate 2-8°C. Must be cultured within 24hs of collection.
For Lab Use Only	Urine C&S Preservative tube for transport to Colchester within 48 hours at 2-8°C Low volume urines send in dry sterile container send ASAP at 2-8°C.

Vaginal Strep Group B Screen Culture

Mnemonic	VAGB
Specimen	vag/rectal
Collection Tube	Amies swab
Stability	72 hours 2-8°C

Vaginal Culture

Mnemonic	VAGC- do not order unless than 12 years old or requested by specialist or clinical indication for culture Order VAGC (Vaginitis culture) for patient 12 years and older-source is VAGP
Specimen	Vaginal
Collection Tube	Amies swab
Stability	72 hours at 2-8°C

Vaginal >50 years-older

Mnemonic	GRSA
Specimen	Vaginal
Collection Tube	Amies swab
Stability	72 hours at 2-8°C

Vaginitis Screen

Mnemonic	VAGS
Specimen	swab
Collection Tube	Amies swab
Stability	72 hours at 2-8°C

Viral Culture

Mnemonic	VIRC
Specimen	swab or stool
Collection Tube	COPAN UTM or Viral Transport Media for swab or sterile C/S container for stool
Special Instructions	Specify virus requested. Refrigeration is recommended once collected. Deliver to lab ASAP.
Stability	Refrigerate after collection and freeze if delay in sending to reference lab.

VRE SCREEN

Mnemonic	VRE
Specimen	Swab
Collection Tube	Amies Agar Swab for screen
Special Instructions	Rectal Swab
Stability	72 hours at 2-8°C

Wound Culture

Mnemonic	WOUC
Specimen	Swab
Collection Tube	Amies Agar Swab
Special Instructions	Specify Site. Includes gram stain.
Stability	72 hours at 2-8°C

Revision History

Version	Date	Reason	Revised By
1.1	2022-09-19	Updated the tube collection requirements for ionized calcium-provincial change	Leanne Carter, QTS
1.2	2023-01-31	CARB was listed twice in catalog but had 2 different tube types. Changed TSH to be Serum SST and removed the plasma as staff were trying to use plasma for add on testing.	Joel Scopie, Sr MLT
1.3	2023-03-22- 2023-08-14	CARB testing now done in CRH, revised collection requirements. Removed Tobramycin as no longer tested in NZ. Updated number of tubes to be collected for Blood Bank tests. Added cord Hold. Added Anaplasma and Babesia testing. Added Urine Drug testing. Removed urine phosphorus and 24-hour urine phosphorus as referred out to the QEII now. Removed U24 pH, changed U24 Cortisol to QE2 and added SST tube as an option for Prealbumin.	Joel Scopie, Sr MLT Leanne Carter, QTS
1.4	2023-12-04	Minor revisions to urine methods – Urine CA, MG, UREA and URIC no longer tested at CCH, will best referred to CRH as of 2023-12-12. 24 hour Calcium Creatinine Plus ratio to go to the QEII.	Joel Scopie, Sr MLT
2.0	2024-03-22	Added Cortisol DST to catalogue as it is now referred to CEHHC instead of QE2. Removed Platelet function assay testing going to the Aberdeen as that analyzer has been removed from service. Updated the collection information for the collection of Transfusion Medicine specimens and put all in one section.	Holly Mosher, Pre-Analytical TS Leanne Carter QTS
2.1	2024-07-18	Updated Stability times for micro culture specimens to match job aid MB-J-09. Updated provincial micro User's manual version from M0008-02 to 03. Added THIO to be added to Bone and Tissue culture. Left the yellow highlights from V2.0 as changes just made in May.	Nancy Spurrell, Leanne Carter, QTS
2.2	2024-12-31	Updated the HIV mnemonic. Removed cold agglutinins as testing is now referred to the QEII. Added Activated Partial Thromboplastin Time DADE.	Leanne Carter, QTS

Approver	
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Position: Quality Technical Specialist	Date: 2025-01-15
Approver	
Name: Loribeth Scopie	Signature: see paper master
Position: Lab Manager	Date: 2025-01-10