2021-22

Laboratory Quick Reference Guide to Test Orders

Health PEI

Provincial Laboratory Medicine





Provincial Laboratory Medicine

Guide Information

This guide has been developed by Provincial Laboratory Services as an aid for all clients when placing laboratory test orders. This document provides an alphabetical listing of laboratory tests; in addition, limited information is also provided which relates to:

The Cerner Orderable Name

Specimen Type

Collection Container requirements

Transport and Storage conditions

Special Notes and Additional Information

While every effort is made to keep this version up to date, the electronic copy that resides on the document control system is the valid document. The electronic version of this document can also be found on the Provincial Laboratory Services website at: www.healthpei.ca/laboratoryservices. Any paper document labeled "Uncontrolled" must be verified against the electronic version prior to use.

Test Requirements

Referring labs: Refer to the Laboratory Information Manual if additional detailed information is required. Please contact the QEH laboratory for any questions/concerns around sample collection and preparation.

All Clients: If your service is unable to provide the specimen handling requirements for the requested analysis, please refer your patient to a Health PEI Hospital Laboratory Collection Centre.





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Tests Not in Catalogue

Please contact QEH Laboratory at 894-2300 for information on tests not found in this catalogue.

Guide to Laboratory Services

The Guide to Laboratory Services is an additional document which can be viewed at on the Health PEI Provincial Laboratory Services website. This document will provide information related to:

Provincial Site Locations

Hours of Operation

Laboratory Directory

Scheduling of Appointments

Requisition Information

Specimen Collection Info:

Patient Preparation

Collection Procedures

Sample Labeling

Ordering of Laboratory Supplies

Reference Ranges

Reference values and interpretive data are reported with test results. The Laboratory Information Manual also provides these values with each test listing.





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Abbreviations

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Bronchial Alveolar Lavage BAL

C&S Culture and Sensitivity

CSF Cerebrospinal Fluid

Chief Public Health Office CPHO

ETOH Ethanol

HR Hour

Milliliter mL

NPA Nasopharyngeal Aspirate

NPS Nasopharyngeal Swab

PCH Prince County Hospital Lab

Queen Elizabeth Hospital Lab QEH

Room Temperature RT

SST Serum Separator Tube

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
17-Hydroxyprogesterone	17 OH Progesterone	Serum	6 mL Red/SST	Store and Ship Frozen	Department: Chemistry Referred-Out Testing Notes: Centrifuge and separate serum from cells.
5HIAA 24 HR Urine Quantitative	5HIAA 24 Hour Urine Quantitative	24 Hour Urine	24 Hour Urine Container for collection; Sterile Urine Container for specimen submission	Store and Ship Frozen	Department: Chemistry Referred-Out Testing Notes: Diet and drug restrictions: To be avoided for 48 hours ASA, chloralhydrate, coffee, cola drink, dopamine, erythromycin, methyldopa, niacin, phenothiazines, quinidine, quinine, riboflavin, smoking, tea, tetracycline, vitamin B. To be avoided for 72 hours avocados, bananas, chocolate, eggplant, fruit and juice, hypertensive drugs (especially Aldomet), pineapple, plums, Tylenol (acetaminophen), walnuts. Specimen Collection: Collect urine in a 24 hour urine container with 25 mL of 6N HCl as a preservative. Transfer 50 mL aliquot of the measured 24 hour urine to a sterile container. Indicate 24 hour volume on requisition.
5HIAA Random Urine Screen	5HIAA Screen Urine	Random urine	Sterile urine container	Store and ship refrigerated or frozen	Department: Chemistry Referred-Out Testing Notes: Diet and drug restrictions: To be avoided for 48 hours: ASA, chloralhydrate, coffee, cola drink, dopamine, erythromycin, methyldopa, niacin, phenothiazines, quinidine, quinine, riboflavin, smoking, tea, tetracycline, vitamin B. To be avoided for 72 hours: avocados, bananas, chocolate, eggplant, fruit and juice, hypertensive drugs (especially Aldomet), pineapple, plums, Tylenol (acetaminophen), walnuts.
Acanthamoeba Culture	Acanthamoeba Culture	Eye Scrapings	50 mL Sterile container	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Cover eye scrapings with Page's Saline (Found in eye kit in specimen receiving).
ACE	ACE	Blood	6 mL Red/SST	Store and ship frozen	Department: Chemistry Referred-Out Testing Notes: Serum must be removed from clot or SST ASAP.
Acetaminophen	Acetaminophen Level	Blood	6 mL Red/SST	RT	Department: Chemistry Notes: Do not use yellow-gel separator tube.
Acetylcholine Receptor Antibody	Immunology Other	Blood	6 mL Red		Department: Immunology - Referred Out
Activated Protein C Resistance	Activated Protein C Resistance	Blood	2 X Sodium Citrate - Blue → See notes	RT	Department: Hematology-Referred Out Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >4 hrs, tube should be double spun, placed in 1 mL aliquots and sent frozen.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Acylcarnitine	Acylcarnitines Quantitative	Capillary Blood on a Blotter Card (Alternate: serum to HICL)	Blotter Card - specimen of choice	RT	Department: Chemistry Referred Out Testing Notes: Capillary collection applied directly to blotter card. Three circles must be filled completely and soaked all the way through. Allow circles to dry at room temperature, lying horizontally for three hours before placing in envelope. Requisition: IWK "Request for Metabolic Investigation".
Acylcarnitine (serum)	Acylcarnitines Quantitative (add order comment for serum specimen)	Serum	6 mL Red/SST	Store and transport frozen.	Department: Chemistry Referred Out Testing Notes: Allow specimen to clot fully. Centrifuge and separate serum from cells.
Adenovirus Culture	Adenovirus Culture	Eye Swab/Scrapings	Swab in Viral Transport Media (VTM)	Specimen holding temperature 2-8°C for 24hrs	Department: Microbiology -Referred Out Notes: Referring Labs: For culture only; Specimen that will be sent to the lab outside of 24 hours should be frozen at -20°C and sent to Lab frozen on ice. If sent to lab on same day of collection then 2-8°C is fine.
		Urine/ Tissue	/ 50 mL Sterile container	Specimen holding temperature 2-8°C for 24hrs	Department: Microbiology -Referred Out Notes: Referring Labs: For culture only; Specimen that will be sent to the lab outside of 24 hours should be frozen at -20°C and sent to Lab frozen on ice. If sent to lab on same day of collection then 2-8°C is fine.
Adenovirus PCR	Adenovirus PCR	Washings/NPA/NPS	50 mL Sterile container	Specimen holding temperature 4°C	Department: Microbiology -Referred Out Note: Adenovirus PCR is part of the Viral Respiratory Panel.
Adrenal Antibodies	Immunology Other	Blood	6 mL Red		Department: Immunology - Referred Out
Adrenocorticotrophic Hormone (ACTH)	ACTH	Plasma	EDTA (Lavender)	Ship on dry ice →See Notes	Notes: Collect specimen after a 10 hour fast. Morning specimen is preferred. Specimen for this test must be collected, processed, aliquoted and frozen within 60 minutes of collection. If unable to meet these requirements, patients for this test must be referred to a Health PEI hospital specimen collection centre. Pre-chill collection tube in ice water; Mix thoroughly by gentle inversion and immediately place in refrigerator for minimum of 15 minutes, but no more than 30 minutes. Centrifuge; Separate plasma from red cells immediately following centrifugation. Aliquot plasma to a transport aliquot tube; Indicate date and time of specimen collection Dexamethasone Suppression Test and ACTH Stimulation Test may sometimes also request ACTH levels. For both these tests the only hormone that needs to be measured in the timed collections is Cortisol unless prior approval is obtained from the Chemistry Clinical Lead.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Albumin	Albumin Level	Blood	6 mL Red/SST	RT	Department: Chemistry
Albumin	Urine Albumin Random	Random Urine	Plastic C&S container	RT	Department: Chemistry
Albumin - Urine	Urine Albumin 24 Hour	24 Hour Urine	24 hour urine container - no additive	RT	Department: Chemistry
Alcohol			See Ethanol		
Aldosterone 24 HR Urine	Urine Other (Add test name in Order Comment)	24 Hour Urine	24 hour urine container for specimen collection. Sterile urine container for specimen submission	Store and ship frozen on dry ice	Department: Chemistry Referred Out Testing Notes: Patient must be on normal sodium intake and not receiving diuretics for one week before urine sample is collected for this test. Collect urine in a 24 hour urine container with no preservative. Transfer 50 mL aliquot of the measured 24 hour urine to a sterile container. Indicate 24 hour volume on requisition.
Aldosterone Serum	Aldosterone	Serum	6mL Red/SST	Store and ship frozen on dry ice	Department: Chemistry Referred Out Testing Notes: Centrifuge and aliquot serum to a transport tube. Collect as routine venipuncture.
Aldosterone-Renin Concentration Ratio	Chemistry Other (Add test name in Order Comment)	Serum AND Plasma	6 mL Red Top/SST and EDTA Lavender	Store and ship frozen on dry ice	Notes: Collect in a seated position prior to 10 AM Patient should stop taking spironolactone or eplerenone for four to six weeks prior to testing. Patient should be instructed to abort any reduced salt diets and consume salt ad libitum for two days prior to testing. If hypokalemic, the patient should receive oral potassium replacement to restore eukalemia. Oral contraceptives, corticosteroids, glucocorticoids, licorice, age, menstrual cycle and pregnancy can affect this test. Patient should be ambulatory for 30 minutes prior to blood collection.
Alkaline Phosphatase Alkaline Phosphatase - Bone Specific	Alkaline Phosphatase Alkaline Phosphatase: Bone Specific	Blood Serum	6 mL Red/SST 6 mL Red/SST	dry ice	Department: Chemistry Department: Chemistry Referred Out Testing Notes: Specimen for this test must be collected, processed, aliquoted and frozen within 45-60 minutes of collection. If unable to meet these requirements, patients for this test must be referred to a Health PEI Hospital Specimen Collection Center for collection. Centrifuge and aliquot serum to a transport tube; Freeze immediately. Collect as routine venipuncture.
Allergens	Allergens	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Alpha 1 Antitrypsin (AAT)	Alpha 1 Antitrypsin	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology
Alpha 1 Antitrypsin Phenotype	Immunology Other	Blood	6 mL Red	Store and Ship Refrigerated	Department : Immunology - Referred Out
Alpha 2 Plasminogen	Alpha 2 Antiplasmin	Blood	2 x Sodium Citrate - Blue	RT	Department: Hematology-Referred Out
Inhibitor			→ See notes		Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >4 hrs, tubes should be double spun, placed in 1 mL aliquots and sent frozen.
Alpha-fetoprotein	AFP	Blood	6 mL Red/SST	RT	Department: Chemistry
			→ See notes		Notes: If delay in testing, serum should be separated and frozen. Avoid hemolysis.
Alpha-Galactosidase A	Chemistry Other (Add test name in Order Comment)	Whole Blood	Sodium or Lithium Heparin (Green)	Shipped at RT on same day of collection →See Notes	Department: Chemistry Referred Out Testing Notes: Collect Monday or Tuesday only – around noon – to allow for maximum time to arrive and be processed at the referral lab. Collect a control sample at the same time (green tube from another person). Keep at room temperature. Specimen must be stored and shipped at room temperature the day of collection. Specimen must be received at SickKids within 24 hours of collection. Routine venipuncture - Correlate with QEH Chemistry Send-Out -Area. This test is available only at the QEH. Please call to book.
Alport Syndrome Linkage /	DNA Analysis – Alport	Blood	2 x 6 mL EDTA (Lavender)	RT	Department: Hematology-Referred Out
Hereditary Nephritis	Syndrome Linkage		→ See notes		Notes: Must arrive at QEH Lab before noon Monday – Thursday.
ALT	ALT	Blood	6 mL Red/SST	RT	Department: Chemistry
Aluminum	Aluminum Level	Plasma (K2EDTA)	Dark Blue Top (K2EDTA)		Department: Chemistry Referred Out Testing Notes: Centrifuge and separate within ½ hour of collection; Centrifuge with stopper on; Do not use separator gel; Aliquot plasma to polypropylene transport tube using a polypropylene transfer pipette. High concentrations of gadolinium and iodine are known to interfere with most trace element tests. If gadolinium- or iodine-containing contrast media have been administered, a specimen should not be collected for 48 hours. Patients should discontinue nutritional supplements, vitamins, and minerals. Patients should also avoid antacids containing aluminum which can greatly elevate the aluminum output.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Aluminum Urine	Aluminum Level Urine	Random Midstream Urine	Sterile ORANGE-CAPPED (Metal Free) urine container		Department: Chemistry Referred Out Testing Notes: Patient is to avoid fruits, chocolate, juices, beer, coffee and teas for 24 hours. High concentrations of gadolinium and iodine are known to interfere with most trace element tests. If gadolinium- or iodine-containing contrast media have been administered, a specimen should not be collected for 48 hours. Patients should discontinue nutritional supplements, vitamins, and minerals. Patients should also avoid antacids containing aluminum which can greatly elevate the aluminum output.
Amikacin (Peak)	Amikacin Level Post	Serum	6 mL Red Do NOT use SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Collect peak specimen 1-2 hours following I.M. or 30 minutes following I.V. drug administration. Centrifuge and aliquot to transfer tube. Indicate dosage of antibiotic and time of dosage in case of possible cross reaction or interference in the assay. Indicate "Peak" on both the sample and requisition.
Amikacin (Trough)	Amikacin Level Pre	Serum	6 mL Red Do NOT use SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Collect trough specimen prior to I.M. or I.V. drug administration. Centrifuge and aliquot to transfer tube. Indicate dosage of antibiotic and time of dosage in case of possible cross reaction or interference in the assay. Indicate "Trough" on both the sample and requisition.
Amino Acid Quantitation Blood	Amino Acid Quantitation Blood	Heparinized plasma	Green top Tube (Lithium heparin)	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Completion of the IWK Health Centre "Request for Metabolic Investigation" requisition is required. Fasting specimen preferred; post-prandial samples should be noted. Centrifuge specimen at room temperature immediately; remove plasma and aliquot to a transport tube.
Amino Acid Quantitation Urine	Amino Acid Quantitation Urine	Clean Catch Urine	Sterile urine container → See notes	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Random Specimens are generally sufficient but assessment of renal handling requires timed specimens. If a 24 Hour collection cannot be readily obtained, a shorter collection (8 or 12 hr) may be submitted, but precise times become more important. Completion of the IWK Health Centre "Request for Metabolic Investigation" requisition is required.
Amitriptyline	Amitriptyline Level	Serum or Plasma (EDTA)	6 mL Red or EDTA (Lavender); avoid gel-separator tubes	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Collect within 1 hour prior to next dose or at least 12 hours post-dose. Centrifuge and aliquot within 2 hours of collection.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Ammonia	Ammonia Level	Blood	6 mL Green stoppered specimen → See notes	Transport on ice	Department: Chemistry Notes: Tubes must be completely filled and immediately place on ice. Centrifuge & separate plasma from cells within 15 minutes of collection. If unable to meet these requirements, the patient must be referred to a Hospital lab for collection.
Amphetamines / Methamphetamines Screen Urine	Amphetamine Screen Urine	Random Urine	Plastic C&S container → See notes	RT	Department: Chemistry Notes: Must be refrigerated upon collection and analyzed within 5 days or stored frozen.
Amylase	Amylase Level	Blood	6 mL Red/SST	RT	Department: Chemistry
ANA Panel	ANA	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology
Anaplasma PCR	Anaplasma PCR	Whole EDTA Blood	6 ml EDTA (Lavender) -See notes	Specimen hold temperature 2-8°C	Department: Microbiology-Referred Out Notes; Do NOT spin blood. Please submit to lab ASAP as specimens greater than 5 days old are rejected by referral lab.
Anaplasma Serology	Orderable is: Misc Microbiology Order. Specimen type: Misc Micro Source Body Site: See Free text Free text Source: type in test requested (Anaplasma Serology)	Serum	6 mL Red/SST	Specimen hold temperature 2-8°C	Department: Microbiology-Referred Out
Androstenedione	Androstenedione	Serum	SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Routine Venipuncture - indicate patient's age and sex. Centrifuge and aliquot serum to a transport tube.
Angiotensin Converting Enzyme		See ACE			
Angleman Syndrome	DNA Analysis – Angleman	Blood	2x6mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday
Anion Gap	Electrolytes	Blood	6 mL Red/SST → See notes	Do not remove cap	Department: Chemistry Calculation Notes: Anion gap is provided with the Electrolytes panel.
Anti- Cardiolipin	Anti- Cardiolipin	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology - Referred Out
Anti- CCP	Anti- CCP	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology - Referred Out

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Anti-Diuretic Hormone	ADH Level	Plasma	EDTA (Lavender)	Store frozen and ship on dry ice	Department: Chemistry Referred Out Testing Notes: Collect specimen in a pre-chilled EDTA tube and place immediately on ice. Specimen for this test must be collected, processed, aliquoted and frozen within 45-60 minutes of collection. If unable to meet these requirements, patients for this test must be referred to a Health PEI Hospital Specimen Collection Center for collection. No isotopes administered within 24 hours prior to venipuncture.
Anti-EBNA Serology	Anti-EBNA Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology
Anti-Glutamic Acid Decarboxylase	Anti Glutamic Acid Decarboxylase	Serum	SST	Store and Ship Frozen → See notes	Department: Chemistry Referred Out Testing Notes: Specimen must be collected, processed, aliquoted and frozen within 24 hours of collection.
Anti- LKM	Anti- LKM	Blood	6 mL Red	Store and Ship Refrigerated	Department : Immunology - Referred Out
Anti- Mitochondrial	Anti- Mitochondrial	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology - Referred Out
Apolipoprotein B	Apolipoprotein B	Serum	SST	Store and Ship Frozen	Department: Chemistry Referred Out Testing Notes: Collect specimen after a 12 hour fast. Centrifuge and aliquot to a transport tube.
Anti- saccharomyces cerevisiae	Immunology Other	Blood	6 mL Red	Store and Ship Refrigerated	Department : Immunology - Referred Out
Anti- Smooth Muscle	Anti- Smooth Muscle	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology - Referred Out
Anti- Streptolysin Titre (ASO)	ASO	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology
Anti- Thyroglobulin	Thyroglobulin		See Thyroglobulin - an	alysed as part of Thyroglobuli	n
Anti-TPO Antibodies	Anti TPO Antibody	Blood	6 mL Red/SST → See notes	RT	Department: Chemistry Notes: If delay in testing > 8 hours, serum should be separated from clot or SST.
Anti Xa	Anti Xa Assay	Blood	2 x Sodium Citrate - Blue → See notes	RT	Department: Hematology-Referred Out Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >2hrs, tube should be double spun, placed in 1 mL aliquots and sent frozen.
APT Test	Alkaline Denaturation Test	Stool, vomitus or any other secretion	Specimen jar, diaper or an article of cloth → See notes	RT	Department: Hematology Notes: Must arrive at QEH Lab before noon Monday – Thursday. Please call Lab prior to ordering.
APTT	PTT (Partial Thromboplastin Time)	Blood	Sodium Citrate - Blue → See notes	RT	Department: Hematology Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >4hrs, spin, separate and freeze plasma. Send frozen.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
APTT 50/50 Mix	PTT (Partial Thromboplastin Time) 50/50 Mix	Blood	Sodium Citrate - Blue → See notes	RT	Department: Hematology Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >4hrs, spin, separate and freeze plasma. Send frozen.
Arsenic	Arsenic Level	Whole Blood	Dark Blue Top (K2EDTA)	Store and Ship Refrigerated	Department: Chemistry Referred Out Testing Notes: Do NOT centrifuge. High concentrations of gadolinium and iodine are known to interfere with most trace element tests. If gadolinium- or iodine-containing contrast media have been administered, a specimen should not be collected for 48 hours.
Arsenic 24 HR Urine	Arsenic Level 24 Hour Urine	24 Hour Urine	24 Hour Urine Container (No preservative)	Store and Ship refrigerated (Can be frozen)	Department: Chemistry Referred Out Testing Notes: High concentrations of gadolinium and iodine are known to interfere with most trace element tests. If gadolinium- or iodine-containing contrast media have been administered, a specimen should not be collected for 48 hours. Measure the total volume of the 24 hour collection. Aliquot 50.0 mL of the measured collection to a sterile ORANGE-CAPPED container.
Arsenic Random Urine	Arsenic Random Urine	Random Urine	Sterile ORANGE-CAPPED (Metal Free) Urine Container	Store and Ship refrigerated (Can be frozen)	Department: Chemistry Referred Out Testing Notes: High concentrations of gadolinium and iodine are known to interfere with most trace element tests. If gadolinium- or iodine-containing contrast media have been administered, a specimen should not be collected for 48 hours.
AST	AST	Blood	6 mL Red/SST	RT	Department: Chemistry
AT III	Anti – Thrombin III Assay	Blood	2 x Sodium Citrate - Blue → See notes	RT	Department: Hematology Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >8 hrs, tube should be double spun, placed in 1 mL aliquots and sent frozen.
ATP Binding	DNA Analysis - ATP Binding Cassette	Blood or Bone Marrow	Blood – 2 x 6 mL EDTA (Lavender) Bone Marrow - 1-2mL in an EDTA (Lavender) →See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Babesia PCR	Babesia PCR	Whole EDTA Blood	6 ml EDTA (Lavender) →See notes	Specimen hold temperature 2-8°C	Department: Microbiology-Referred Out Notes; Do NOT spin blood. Please submit to lab ASAP as specimens greater than 5 days old are rejected by referral lab.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Bacillus anthracis Serology	Orderable is: Misc Microbiology Order. Specimen type: Misc Micro Source Body Site: See Free text Free text Source: type in test requested (Bacillus	Serum	6 mL Red/SST	Specimen hold temperature 2-8°C	Department: Microbiology-Referred Out
Bacterial Vaginosis	anthracis Serology) Bacterial Vaginosis	Vaginal swab	C&S Swab in Transport Media	Specimen holding temperature 4°C	Department: Microbiology Notes: Female > 12 years.
Bank DNA	DNA Analysis – Bank DNA	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Barbiturates Screen - Urine	Barbiturate Screen Urine	Random Urine	Plastic C&S container → See notes	RT	Department: Chemistry Notes: Must be refrigerated upon collection and analyzed within 5 days or stored frozen.
Bardet-Biedl Syndrome	DNA Analysis - Bardet- Biedl Syndrome	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Bartonella Serology (Cat Scratch)	Bartonella Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
B-cell Lymphoid Clonality	B-Cell Clonality	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
BCL-1	DNA Analysis - BCL-1	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
BCL-2	DNA Analysis - BCL-2 / DNA Analysis - t(14;18)	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
BCR-abl	DNA Analysis – BCR/ABL / DNA Analysis – t(9;22)	Blood or Bone Marrow	Blood: 2 x 6 mL EDTA (Lavender) Bone Marrow: 1-2mL in an EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
BCR mut	DNA Analysis – BCR mut	Blood or Bone Marrow	Blood: 2 x 6 mL EDTA (Lavender) Bone Marrow: 1-2mL in an EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Becket and Duchenne Muscular Dystrophies	DNA Analysis – BMD/DMD	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Benzodiazepines Screen Urine	Benzodiazepine Screen Urine	Random Urine	Plastic C&S container → See notes	RT	Department: Chemistry Notes: Must be refrigerated upon collection and analyzed within 5 days or stored frozen.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Beta-2 Glycoprotein 1 Antibody	Immunology Other	Blood	6 mL Red	Store and Ship Refrigerated	Department : Immunology - Referred Out
Beta- 2 Microglobulin	Beta- 2 Microglobulin	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology
Beta-Carotene	Beta Carotene	Serum	SST	Store and Ship Frozen Protect from light	Department: Chemistry Referred Out Testing Notes: Fasting specimen preferred. Collect after 12 hour fast and abstain from alcohol for 24 hours. Centrifuge and separate serum within 30 minutes of collection. Aliquot serum to a transport tube. Avoid hemolysis. *Protect from light*
Beta-D-Glucan Fungal Assay	Beta-D-Glucan Fungal Assay	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C -See notes	Department: Microbiology-Referred Out Notes: During summer months store and ship at -20°C or colder.
		BAL/ Pleural Fluid/ CSF	50 mL Sterile Container	Specimen holding temperature 2-8°C -See notes	Department: Microbiology-Referred Out Notes: During summer months store and ship at -20°C or colder.
BETA-Hcg	Beta hCG Quantitative	Blood	6 mL Red/SST → See notes	RT	Department: Chemistry Notes: If delay in testing > 24 hours, serum should be separated from clot or SST.
Beta-Hydroxybutyrate	Beta-hydroxybutyrate	Serum	6 mL Red/SST	Store and Ship Frozen	Department: Chemistry Notes: Specimen for this test must be collected and aliquoted within 60 minutes of collection for testing. Referral labs can ship on ice same day, if delay in transport, freeze and ship frozen.
Beta-Transferrin	Chemistry Other (Add test name in Order Comment)	CSF	Sterile container	Store and Ship Frozen	Department: Chemistry Referred Out Testing Notes: Collect fluid in a sterile container and indicate fluid type.
Bethesda Inhibitor Assay	Bethesda Inhibitor Assay	Blood	3 x Sodium Citrate - Blue → See notes	RT	Department: Hematology-Referred Out Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >6 hrs, tube should be double spun, placed in 1 mL aliquots and sent frozen.
Bile Acids/Salts	Bile Acids Total	Serum	6 mL Red Do NOT use SST	Store and Ship Frozen	Department: Chemistry Referred Out Testing Notes: Freeze serum within 24 hours.
Bilirubin - Conjugated	Bilirubin Direct/ Bilirubin Direct Neonatal	Blood	6mL Red/SST Neonate:Capillary microtainer → See notes	RT	Department: Chemistry Notes: Specimens should be protected from bright light as bilirubin is sensitive to bright light.
Bioavailable Testosterone (Calculated)	Bioavailable Testosterone	Serum	SST	Store and Ship Frozen	Department: Chemistry Referred Out Testing Notes: Collect specimen between 6:00 and 10:00 am. Centrifuge and aliquot serum to a transport tube. Freeze within 24 hours of collection.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Bilirubin - Total	Bilirubin Total/BiliT /Bilirubin Total Neonatal	Blood	6 mL Red/SST Neonate:Capillary microtainer → See notes	RT	Department: Chemistry Note: Specimens should be protected from bright light as bilirubin is sensitive to bright light.
Blastomyces	Blastomycosis Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology (referred out)
	Orderable is: Misc Microbiology Order. Specimen type: Misc Micro Source Body Site: See Free text Free text Source: type in test requested (Blastomyces)	Urine/ BAL/ CSF	50 mL Sterile container	Specimen holding temperature 2-8°C	Department: Microbiology (referred out)
Blood Culture-Aerobic/ Anaerobic Culture	Blood Culture-Aerobic/ Anaerobic Culture	Blood	Aerobic/F (blue top, grey cap): 8- 10mL; Lytic 10 Anaerobic/F (purple top, purple cap): 8-10 mL For adult patients where only one culture bottle may be collected, see Blood Culture-Aerobic (Pediatric)	Specimen holding temperature RT	Department: Microbiology Notes: One draw includes both the Aerobic and Anaerobic bottles. Do not freeze or refrigerate blood culture bottles. Please do not cover bottle barcode label with another label. Transport specimens to the Microbiology laboratory as soon as possible after collection.
Blood Culture-Aerobic (Pediatric)	Blood Culture-Aerobic (Pediatric)	Blood	Peds Plus/F (grey/silver top, pink cap): 1-3 mL For adult patients where only one culture bottle may be collected: Aerobic/F (blue top, grey cap): 8-10mL	Specimen holding temperature RT	Department: Microbiology Notes: Do not freeze or refrigerate blood culture bottles. Please do not cover bottle barcode label with another label. Transport specimen to the Microbiology laboratory as soon as possible after collection.
Blood Gases - Arterial	Blood Gas Arterial / Arterial Blood Gas	Blood	Electrolyte-balanced/Ca2+ - titrated heparin air-tight plastic syringe → See notes	Transport to Lab STAT Transport on ice	Department: Chemistry Notes: If delay in processing of > 30min, store specimen in ice water. Patient temperature is required for specimen processing.
Blood Gases - Capillary	Blood Gas Capillary / Cap Blood Gas	Blood	Radiometer Clinitubes containing Electrolyte-balanced/Ca2+ - titrated → See notes	Transport to Lab STAT Transport on ice	Notes: If delay in processing of > 30min, store specimen in ice water. Patient temperature is required for specimen processing.
Blood Gases - Cord	Cord Arterial Gas/Cord Venous Gas	Umbilical Cord	Ziploc Specimen Bag containing a slurry of ice and water	Transport to Lab STAT Transport on ice	Department: Chemistry
Blood Gases - Venous	Blood Gas Venous / Venous Blood Gas	Blood	6 mL Green top tube (heparin as anticoagulant) → See notes	Transport to Lab STAT Transport on ice	Department: Chemistry Notes: If delay in processing of > 30min, store specimen in ice water. Patient temperature is required for specimen processing.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
BNP	BNP	Blood	3 mL EDTA (Lavender)	RT	Department: Chemistry Notes: Plasma must be removed from cells as soon as possible.
Body Fluid Cell Count	BF WBC	Pericardial/Peritoneal/Pleural/Synovial	Aspirate in EDTA (Lavender)	Transport to Lab ASAP	Department: Hematology Notes: Fluids received in the wrong container type and/or clotted specimens will NOT be processed and test will be cancelled.
Body Fluid Crystals	BF Crystals	Synovial	Aspirate in EDTA (Lavender) or 50 mL sterile container	Transport to Lab ASAP	Department: Hematology Notes: Fluids received in the wrong container type and/or clotted specimens will NOT be processed and test will be cancelled.
Body Fluid Culture	Body Fluid Culture	Pleural/Peritoneal/Synovial/etc.	50 mL sterile container	Specimen holding temperature 4°C	Department: Microbiology Notes: Transport specimen to the Microbiology laboratory as soon as possible after collection. Call/page the Microbiology laboratory if culture processing and/or Gram stain results are requested STAT.
Bone Culture	Bone Culture	Bone	50 mL sterile container	Specimen holding temperature 4°C	Department: Microbiology Notes: Transport specimen to the Microbiology laboratory as soon as possible after collection.
Botulism Toxin	Orderable is: Misc Microbiology Order. Specimen type: Misc Micro Source Body Site: See Free text Free text Source: type in test requested(Botulism Toxin)	Stool	Plain Stool Container	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
BRCA1/BRCA2 (Breast Cancer Testing)	DNA Analysis - BRCA1/BRCA2	Blood or Bone Marrow	Blood: 2 x 6 mL EDTA (Lavender) Bone Marrow: 1-2mL in an EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Brucella Serology	Brucella Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology - Referred Out
C1 Esterase Inhibitor: Immunological	C1 Esterase Inhibitor: Immunological	Blood	6 mL Red		Department: Immunology - Referred Out
C1 q Complement Component	Immunology Other	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology - Referred Out
C2 Complement	Immunology Other	Blood	6 mL Red	· -	Department: Immunology - Referred Out
C3, C4	C3, C3	Blood	6 mL Red	Store and Ship Refrigerated	
CA 15-3	CA 15-3	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
CA 19-9	CA 19-9	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology - Referred Out
CA 125	CA 125	Blood	6 mL Red/SST	RT	Department: Chemistry
CADASIL (Cerebral Autosomal Dominant Arteriopathy with Subcortical Infarcts and	DNA Analysis - CADASIL	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Leukiencephalopathy) Cadmium	Cadmium Level	Whole Blood	Dark Blue Top (K2EDTA) → See notes	Store and Ship Refrigerated	Department: Chemistry Referred Out Testing Notes: Do NOT centrifuge. High concentrations of gadolinium and iodine are known to interfere with most trace element tests. If gadolinium- or iodine-containing contrast media have been administered, a specimen should not be collected for 48 hours.
Caffeine	Caffeine Level	Serum	6 mL Red/SST	Store and Ship Frozen	Department: Chemistry Referred Out Testing Notes: Specimen must be collected, processed, aliquoted and frozen within 30 minutes of collection. Centrifuge and transfer serum to a transport tube.
Calcitonin	Calcitonin Level	Serum	SST	Store and Ship Frozen	Department: Chemistry Referred Out Testing Notes: Specimen must be collected, processed, aliquoted and frozen within 30 minutes of collection. Centrifuge and transfer serum to a transport tube.
Calcium	Calcium Level Total	Blood	6 mL Red/SST	RT	Department: Chemistry
Calcium - Urine	Calcium Level Urine	Random Urine	Plastic C&S container	RT	Department: Chemistry
Calcium - 24 Hour Urine	Calcium Level 24 Hour Urine	24 Urine	24 Hour Urine Collection Container with 10 mL of 50% Hydrochloric Acid per litre of urine. → See notes	Refrigerate during collection	Notes: Please follow 24 Hour Urine collection instructions closely. Incomplete collection may result in rejection of specimen.
Calcium - Ionized	Calcium Level Ionized	Blood	6 mL Red/SST Arterial or Capillary Blood Gas Specimen is acceptable → See notes	RT Transport to Lab STAT Transport on ice	Department: Chemistry Notes: Avoid excessive use of tourniquet and fist clenching. Tubes should be completely filled. Keep tightly sealed to prevent exposure to air. DO NOT OPEN TUBE.
Cannabinoids Screen Urine	Cannabinoids Screen Urine	Random Urine	Plastic C&S container → See notes	RT	Department: Chemistry Notes: Must be refrigerated upon collection and analyzed within 5 days or stored frozen.
Carbamazepine	Carbamazepine Level	Blood	6 mL Red/SST → See notes	RT	Department: Chemistry Trough: Take sample 0-60 minutes prior to next dose. Notes: Must include date and time of last dose.
Carbon Dioxide Total	Electrolytes	Blood	6 mL Red/SST	RT	Department: Chemistry

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Carbon Monoxide	Carboxyhemo-globin Level	Blood	6 mL Green stoppered specimen Arterial or Capillary Blood Gas Specimen is acceptable	RT Transport to Lab STAT Transport on ice	Department: Chemistry Notes: Blood may be stored at 4° C for 4 days for non-urgent requests.
Carnitine	Carnitine	Capillary Blood on a Blotter Card	Blotter Card	RT	Department: Chemistry Referred Out Testing Notes: Capillary collection applied directly to blotter card. Three circles must be filled completely and soaked all the way through. Allow circles to dry at room temperature, lying horizontally for three hours before placing in envelope.
Catecholamines 24 HR Urine Catecholamines Plasma	Catecholamines 24 HR Urine Plasma Catecholamine	24 Hour Urine Plasma	24 Hour Urine Container with 25 mL 6N HCl as a preservative → See notes EDTA (Lavender)	Store and Ship refrigerated Store and Ship Frozen	Department: Chemistry Referred Out Testing Notes: Diet and drug restrictions: to be avoided for 48 hours - ASA, chloralhydrate, coffee, cola drink, dopamine, erythromycin, methyldopa, niacin, phenothyazines, quinidine, quinine, riboflavin, smoking, tea, tetracycline, vitamin B. To be avoided for 72 hours are as follows: avocados, bananas, chocolate, eggplant, fruit and juice, hypertensive drugs (especially aldomet), pineapple, plums, Tylenol (acetaminophen), walnuts. Note: coffee, cola drinks, tea and smoking are considered drugs. Measure the total volume of urine and indicate it on the requisition and aliquot container. Transfer 50 mL to a sterile urine container for transport. Note time and dates of collection on the requisition. Department: Chemistry Referred Out Testing
Catecnolamines Plasma	Plasma Catecnolamine	Plasma	→ See notes	Store and Ship Frozen	Notes: Collect after an overnight fast (water and non-caffeinated drinks permissible). Catechol drugs may interfere, including alpha methyldopa, alpha-methyl-para-tyrosine, isoproteronal, dobutamine and carbidopa. Patient must be supine for at least 15 minutes prior and during specimen collection. Specimen must be collected, processed, aliquoted and frozen within 30 minutes of collection. Centrifuge and aliquot plasma to transport tube. If specimen thaws, it is unsuitable for analysis.
СВС	CBC	Blood	3mL EDTA (Lavender)	RT	Department: Hematology
C difficile	C difficile	Stool	Plain Stool Container	Specimen holding temperature 2-8°C	Department: Microbiology Notes: Stool must be clearly liquid and slide down the side of the container to be processed.
CEA	CEA	Blood	6 mL Red/SST	RT	Department: Chemistry
Ceruloplasmin	Ceruloplasmin	Serum	SST	Store and Ship Frozen	Department: Chemistry Referred Out Testing Notes: Centrifuge and aliquot to transport tube.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
CGH (Comparative Genomic Hybridization)	DNA Analysis - CGH / DNA Analysis - Comparative Genomic Hybridization	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
CH 50	CH 50	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology - Referred Out
Chikungunya PCR	Orderable is: Misc Microbiology Order. Specimen type: Misc Micro Source Body Site: See Free text Free text Source: type in test requested (Chikungunya PCR)	Plasma	6 mL EDTA (Lavender)	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Chikungunya Serology	Chikungunya Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Chlamydia Culture	Chlamydia Culture	Eye, Tissue, NP sunction/NP Swab	Swab in Viral Transport Media (VTM)	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Samples should be collected from symptomatic patients only. Swab can be moistened with sterile saline if necessary for collection
Chlamydia PCR	CT/GC PCR	Cervix/Endocervix, Vagal, Urine, Rectal, Throat/Pharyngeal, and Eye	BD MAX UVE Buffer Tube	Specimen holding temperature 4°C	Department: Microbiology Notes: Urine is 1st stream collection. 1mL of Urine must be placed in the BD MAX UVE buffer tube within 24hrs of collection. PCR method is validated only for genital and urine specimens. The same single sample is used to test for Chlamydia, GC, and Trichomonas PCR.
Chlamydophila PCR	Mycoplasma/ Chlamydophila Respiratory PCR	Throat	Swab in Viral Transport Media (VTM)	Specimen holding temperature 2-8°C	Department: Microbiology
CMT (Charcot Marie Tooth Syndrome)		Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Chimerism analysis for BMT	DNA Analysis - Chimerism / DNA Analysis - VNTR	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out <mark>Notes:</mark> Must arrive at QEH Lab before noon Monday – Thursday.
Chloride	Electrolytes	Blood	6 mL Red/SST	RT	Department: Chemistry
Chloride-Urine	Chloride Level Urine	Random urine	Plastic C&S container	RT	Department: Chemistry
Chloride- Urine 24	Chloride Level 24 urine	24 Urine	24 Hour Urine Collection Container - no preservative	Refrigerate during collection	Department: Chemistry

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Cholinesterase RBC	Acetylcholinesterase Red Blood Cell	Whole Blood	6 mL EDTA (Lavender)	Store and ship refrigerated	Department: Chemistry Referred Out Testing Notes: Collect one full 6 mL lavender top tube. Mix gently by inversion. Centrifuge within one hour of collection. Remove plasma and submit red cells. Hemolyzed samples are not acceptable. Cannot be collected on Fridays/weekends/holidays.
Chromium	Chromium Level	Plasma	Dark Blue Top (K2EDTA)	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Centrifuge within 30 minutes of collection, do not use separator gel. Aliquot plasma to transport tube. Patient should discontinue nutritional supplements, vitamins, minerals for 5 days prior to collecting specimen. High concentrations of gadobutrol, gadodiamide and ivoserol are known to interfere with most trace elements. If gadobutrol, gadodiamide and ivoserol-containing contrast media have been administered, a specimen should not be collected for 48 hours.
Chromogranin A	Chromogranin A	Serum	6 mL Red / SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Specimen must be collected, processed, aliquoted to a transport tube and frozen within 24 hours of collection. Medications that stimulate secretion of neuroendocrine cells can lead to significant elevations of chromogranin A. Discontinue proton pump inhibitors (PPIs) for 2 weeks prior to testing. H2-receptor antagonists can be used at modest doses.
Chromosome Analysis - FISH	FISH - Multiple Myeloma Hematology Referred Test	Blood or Bone Marrow	Blood: 4 mL Sodium Heparin - Green Bone Marrow: 2 mL of none marrow in Sodium Heparin - Green → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday-Thursday.
Chromosome Analysis - Karyotype	Chromosome Analysis – Blood Chromosome Analysis – Bone Marrow	Blood or Bone Marrow	Blood: 4 mL Sodium Heparin - Green Bone Marrow: 2 mL of heparinized bone marrow in Sodium Heparin - Green	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
CHr-Retic Hemoglobin Content	CHr-Retic Hemoglobin Content	Blood	3 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Citric Acid 24 HR Urine	Citrate Level 24 Hour Urine	24 Hour Urine	24 Hour urine container with 25 mL 6N HCl	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Collect a complete 24 hour urine sample. Indicate the start and end times of collection on the requisition. Check the pH of the sample. Measure the total volume of the 24 hour collection and record on the requisition. Aliquot 10 mL of the measured 24 hr urine to a sterile container.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
СК	СК	Blood	6 mL Red/SST	RT	Department: Chemistry
Clobazam (Frisium)	Clobazam Level	Serum	6 mL Red	Store and Ship Frozen	Department: Chemistry Referred Out Testing Notes: Centrifuge. Do not use separator gel. Separate serum from cells ASAP. Aliquot serum to a transport tube.
Clomipramine	Chemistry Other (Add test name in Order Comment)	Serum	6 mL Red	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: To monitor therapy, draw trough specimen prior to morning dose or 10-12 hours after last drug administration. Centrifuge and separate ASAP. Aliquot to transfer tube. Assay includes Desmethylclomipramine.
Clozapine	Clozapine Level	Serum	6 mL Red Do NOT use SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Collect specimen prior to last dose or at least at the ¾ time mark of the dosing interval (i.e. Dose is every 24 hrs then collect at least 18 hrs after previous dose). Centrifuge and aliquot serum to a transport tube ASAP. Indicate date and time of last dose and date and time of specimen collection on the requisition.
СМН МҮВРСЗ	DNA Analysis - CMH MYBPC3	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Cocaine Screen Urine	Cocaine Screen Urine	Random Urine	Plastic C&S container → See notes	RT	Department: Chemistry Notes: Must be refrigerated upon collection and analyzed within 3 days or stored frozen.
Coccidioides	Coccidioides Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
	Orderable is: Misc Microbiology Order. Specimen type: Misc Micro Source Body Site: See Free text Free text Source: type in test requested (Coccidioides)	Urine/ BAL/ CSF	50 mL Sterile container	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Cold Agglutinin	Cold Agglutinin	Blood	6 mL Red	Room Temperature	Department: Immunology
Connexin 26/30	DNA Analysis – Connexin 26/30	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Copeptin & Osmolality	Chemistry Other (Add test name in Order Comment)	Plasma (Li Heparin)	6 mL Green (Lithium Heparin)	Store and ship frozen	Department: Chemistry Referred Out Testing Centrifuge and aliquot plasma to a transport tube.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Copper 24 HR Urine	Urine Copper	24 Hour Urine	24 Hour Collection Container with no preservative		Department: Chemistry Referred Out Testing Notes: Measure the total volume for the 24 hour collection. Indicate total volume on the requisition. Aliquot 50 mL of the measured 24 hour urine to a sterile ORANGE-CAPPED container. High concentrations of gadolinium and iodine are known to interfere with most trace element tests. If gadolinium- or iodine-containing contrast media have been administered, a specimen should not be collected for 48 hours.
Copper Plasma	Copper Level	Plasma (K2EDTA)	Dark Blue Top Tube (K2EDTA)		Department: Chemistry Referred Out Testing Notes: Collect blood in a contaminant-free (K2EDTA) tube. Centrifuge and separate plasma as soon as possible. Transfer plasma to a transport tube.
Copper Random Urine	Urine Copper	Random Urine	Sterile ORANGE-CAPPED (METAL FREE) Urine Container		Department: Chemistry Referred Out Testing Notes: High concentrations of gadolinium and iodine are known to interfere with most trace element tests. If gadolinium- or iodine-containing contrast media have been administered, a specimen should not be collected for 48 hours.
Cortisol	Cortisol	Blood	6 mL Red/SST	RT	Department: Chemistry Notes: Collect specimens in early morning and/or late afternoon.
Cortisol 24 HR Urine	Cortisol Free Urine	24 Hour Urine	24 hour urine container with no preservative	Store and ship refrigerated	Department: Chemistry Referred Out Testing Notes: Measure the total volume for the 24 hour collection. Indicate total volume and dates and times of collection on the requisition. Aliquot 10.0 mL of the measured 24 hour urine to a sterile urine container.
C-Peptide	C-Peptide	Serum	SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Patient should fast 8 hours prior to collection. Centrifuge ASAP and aliquot to a transport tube. Freeze immediately. Serum stable 48 hours at 20 - 80 C. Stable frozen for 3 months.
Creatine Kinase-MB	Chemistry Other (Add test name in Order Comment)	Serum	6 mL Red/SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Centrifuge. Aliquot to a transport tube. State Total CK if already reported.
Creatinine	Creatinine	Blood	6 mL Red/SST	RT	Department: Chemistry
Creatinine - 24 Hour Urine	Creatinine 24 Hour Urine	24 Hour Urine	24 Hour Urine Collection Container - no preservative → See notes		Department: Chemistry Notes: Please follow 24 Hour Urine collection instructions closely. Incomplete collection may result in rejection of specimen.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Creatinine Clearance Test	CrCl 24 Hour Urine	Blood	6 mL Red/SST → See notes	RT	Department: Chemistry Notes: A blood specimen for serum creatinine must be collected within the period of 24 hour urine collection.
		24 Hour Urine	24 Hour Urine Collection Container - no preservative → See notes	Refrigerate during collection	Notes: Please follow 24 Hour Urine collection instructions closely. Incomplete collection may result in rejection of specimen.
Creatinine - Random Urine	Creatinine Urine	Random Urine	Plastic C&S container	RT	Department: Chemistry
Creutzfeldt-Jakob Disease	Orderable is: Misc Microbiology Order. Specimen type: Misc Micro Source Body Site: See Free text Free text Source: type in test requested (Creutzfeldt- Jakob Disease)	CSF/ Whole EDTA Blood/ Tissue/ or Brain Tissue	Notes: Contact Microbiology for complete instructions.	Notes: Contact Microbiology for complete instructions.	Department: Microbiology-Referred Out Notes: Contact the Biosafety officer before handling specimen.
Crossmatch	BB Crossmatch Order Info PCH BB Crossmatch Order Info QEH	Blood	6 mL K2 EDTA tube	RT	Department: Blood Transfusion
CRE	C CRE	Rectal swab	C&S Swab in Transport Media	Specimen holding temperature 2-8°C	
CRP	CRP	Blood	6 mL Red/SST	RT	Department: Chemistry
Cryoglobulin	Cryoglobulin	Blood	6 mL Red	37 degrees	Department: Immunology
Cryptococcus Antigen	Cryptococcus Antigen	CSF	Sterile screw capped CSF container	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Cryptococcus Serology	Cryptococcus Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
CSF Cell Count	CSF Cell Count Panel	CSF	Sterile CSF collection tube →See notes	RT	Department: Hematology Notes: Minimum volume of 1mL required. Notify and send to lab immediately.
CSF - Chloride	CSF Chloride	CSF	Sterile Tubes - no additive	RT	Department: Chemistry
CSF Culture	Cerebrospinal Fluid Culture	CSF	Sterile screw capped CSF container	Specimen holding temperature RT	Department: Microbiology Notes: After 1600, page the Microbiology laboratory for STAT CSF culture processing and Gram stain results. Transport specimen to the laboratory as soon as possible after collection.
CSF - Glucose	CSF Glucose	CSF	Sterile Tubes - no additive	RT	Department: Chemistry
CSF - Protein	CSF Protein	CSF	Sterile Tubes - no additive	RT	Department: Chemistry

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
C-Telopeptide	C-Telopeptide	Serum	SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Centrifuge, separate and transfer serum to an aliquot tube.
Cyanide	Cyanide	Whole Blood	K2EDTA (Dark Blue)	Store and Ship Refrigerated	Department: Chemistry Referred Out Testing Notes: Do NOT centrifuge. Sample must be drawn soon after exposure as the half life of cyanide is short.
Cyclosporine	Cyclosporine Level	Whole Blood	EDTA (Lavender)	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: The time sample collected should be indicated on the requisition and tubes. Time of last medication should be indicated on the requisition. Cyclosporin can be ordered as random,1 point, 2 point, or 5 point. CYA 1PT is one sample collected 2 hours post medication. CYA 2PT is two samples collected 1 hour and 3 hour post medication. CYA 5PT is five samples collected before (pre) medication, and 1 hour, 2 hours, 3 hours and 4 hours after medication. Freeze whole blood.
Cystic Fibrosis	DNA Analysis- Cystic Fibrosis	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Cysticerocosis Serology	Orderable is: Misc Microbiology Order. Specimen type: Misc Micro Source Body Site: See Free text, Free text Source:type in test requested (Cysticerocosis Serology)	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Provide Detailed History in Order Note.
Cystine Quantitative Random Urine	Cystine Level	Random Urine	Sterile urine container	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Freeze within 24 hours of collection.
Cytology	Pathology Sputum	Sputum, Expectorated	100 ml pink top container- no fixative	RT Transport to Lab within 24 hrs	Department: Cytology Notes: Deep cough sputum - not saliva Specimens arriving after 1500h must be placed in fridge in Specimen Receiving.
Cytology	Pathology Aspirate	Fine Needle Aspiration (select appropriate site) Breast nipple Discharge Gastric, Esophagus, Bile Duct Brushing	100ml pink top container- equal vol. 50% ETOH fixative/ 6ml red top glass tube- equal vol. 50% ETOH fixative/ Frosted end glass slide - fixed with cytologic spray fix	RT	Department: Cytology Notes: Specimens arriving after 1500h must be placed in fridge in Specimen Receiving.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Cytology	Pathology Fluid	Serous Fluid Bladder/Ureter Washing Urine Cath./Voided/Pelvic / Cul.de- sac Washing, Synovial Fluid CSF	100ml pink top container- equal vol. 50% ETOH fixative/ 10ml clear tube with clear screw top-equal vol. 50% ETOH fixative	RT	Department: Cytology Notes: Voided urine- Early morning void, but not first void. Specimens arriving after 1500h must be placed in fridge in Specimen Receiving.
Cytology	Pathology Bronchoscopy	Bronch. Washing/Brushing Bronchoalveolar Lavage E.B.U.S. / Transbronchial F.N.A. Tracheal Secretion	100ml pink top container- equal vol. 50% ETOH fixative	RT	Department: Cytology Notes: Specimens arriving after 1500h must be placed in fridge in Specimen Receiving.
Cytology	Pathology Gynceological Cytology	PAP Smear	Frosted end glass slide- fixed with cytologic spray fix	RT	Department: Cytology
Cytomegalovirus IgG Antibody	Cytomegalovirus IgG Antibody	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology
Cytomegalovirus IgM Antibody	Cytomegalovirus IgM Antibody	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Cytomegalovirus (CMV) Viral Load PCR (Blood Specimens)	Cytomegalovirus (CMV) Viral Load PCR	Plasma	6 mL EDTA (Lavender)	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Referring Labs: Remove plasma within 24 hours* of collection (*preference 6 hours). Failure to do so may result in rejection of specimen. Spin at 3500rmp for 30 minutes.
Cytomegalovirus (CMV) Viral Load PCR (Non Blood Specimens)	C CMV	Urine/Tissue/ Bronchial Washings	50 mL sterile container	Specimen holding temperature 2-8°C for 24hrs	Department: Microbiology-Referred Out Notes: Specimens that will be sent to the lab outside of 24 hours must be frozen at -20°C and sent to Lab frozen. If sent to lab on same day of collection then 2-8°C is fine.
	C CMV	Throat/Respiratory/Urine	Swab in Viral Transport Media (VTM)	_	Department: Microbiology-Referred Out Notes: Specimens that will be sent to the lab outside of 24 hours must be frozen at -20°C and sent to Lab frozen. If sent to lab on same day of collection then 2-8°C is fine.
	C CMV	CSF	Sterile screw capped CSF container	·	Department: Microbiology-Referred Out Notes: Specimens that will be sent to the lab outside of 24 hours must be frozen at -20°C and sent to Lab frozen. If sent to lab on same day of collection then 2-8°C is fine.
Cytoxic Antibodies	Cytoxic Antibodies	Blood	6 mL Red	• -	Department: Immunology - Referred Out
D-Dimer	D-Dimer Quantitative	Blood	Sodium Citrate - Blue → See notes	RT	Department: Hematology Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport > 8 hrs, spin, separate and freeze plasma. Send frozen.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Dengue Fever PCR	Orderable is: Misc Microbiology Order. Specimen type: Misc Micro Source Body Site: See Free text, Free text Source:type in test requested (Dengue PCR)	Plasma	6 mL EDTA (Lavender)	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Include Travel History, Symptoms, and Date of onset of symptoms.
Dengue Fever Serology	Dengue Fever Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Include Travel History, Symptoms, and Date of onset of symptoms.
Desipramine	Chemistry Other (Add test name in Order Comment)	Serum or Plasma (EDTA)	6 mL Red or EDTA (Lavender); avoid gel-separator tubes	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Collect specimen within 1 hour prior to next dose or at least 12 hours after last dose. Indicate time and date of collection and last dose on requisition. Avoid gel-separator tube and separate as soon as possible.
DHEAS	DHEAS	Blood	6 mL Red/SST	RT	Department: Chemistry
Diazepam	Diazepam Level	Serum	6 mL Red; avoid gel-separator tubes	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Collect prior to morning dose or 10-12 hours after last dose. Avoid gel-separator tubes.
DiGeorge Syndrome / 22 q11 Deletion	DNA Analysis - DiGeorge Syndrome / DNA Analysis - 22 q11 Deletion	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Digoxin	Digoxin Level	Blood	6 mL Red/SST → See notes	RT	Department: Chemistry Notes: Trough: Take sample 0-60 minutes prior to next dose, or at least 6-8 hours after IV dose, 12 hours after oral dose. The administration of Digibind will cause falsely elevated results. This test is invalid if patient has received Digibind.
Dilated Cardiomyopathy	DNA Analysis-DCM Dilated Cardiomyopathy	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Diphtheria Serology	Diphtheria Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Requires Pediatrician or Microbiologist approval.
Direct Antiglobulin Test	Direct Coombs	Blood	6 mL K2 EDTA tube	RT	Dept - Blood Transfusion
Ear Culture	Ear Culture	Ear swab	C&S Swab in Transport Media	Specimen holding temperature 4°C	Department: Microbiology

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Echinococcosis Serology	Orderable is: Misc Microbiology Order. Specimen type: Misc Micro Source Body Site: See Free text, Free text Source: type in test requested (Echinococcosis Serology)	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: History Required.
Ecstasy	Urine Toxicology Confirmatory	Random urine	Sterile urine container	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Place Random Urine in freezer. Complete Health PEI Urine Drug Screen Confirmatory Testing Form
eGFR	eGFR-MDRD	Blood	6 mL Red/SST	RT	Department: Chemistry Notes: This test is only available once every 7 days. Repeat requests within a 7-day time frame will not be processed.
Ehrlichia PCR	Ehrlichia PCR	EDTA Whole Blood	6 mL EDTA (Lavender)	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Do NOT spin. Please submit to lab ASAP as specimens greater than 5 days old are rejected.
Ehrlichia Serology	Ehrlichia Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Fecal - 1 Elastase	Elastase 1-Fecal	Stool	Sterile container	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Place 1 gram of formed stool into a sterile container. Freeze sterile container containing formed stool.
Entamoeba PCR	Entamoeba PCR	Stool	Sterile container	Specimen holding temperature -20°C or colder	Department: Microbiology-Referred Out
Entamoeba Serology	Entamoeba Serology	Serum	6 mL Red	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Enteric Viral Panel PCR (Norovirus, Rotavirus, Adenovirus, Sapovirus, and Astrovirus)	Norovirus PCR Adeno/Rota Screen	Stool	Plain Stool Container	Specimen holding temperature 4°C	Department: Microbiology Notes: Stool must be clearly liquid and slide down the side of the container to be processed.
Enterovirus PCR	Enterovirus PCR	Tissue	50 mL Sterile container	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
	Enterovirus PCR	Bronch Wash/Vesicle Fluid/NPA or Nasopharyngeal Swab	50 mL sterile container or Swab in Viral Transport Media (VTM)	Specimen holding temperature -20°C or colder	Department: Microbiology-Referred Out Notes: Referring Labs: Send frozen on ice.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Eosinophils	Eosinophil smear	Sputum Stool	Sterile container	RT	Department: Hematology Notes: Slides should be made as soon as possible after voiding, preferably within 3 hours of collection. Cells may rapidly disintegrate in urine upon storage, therefore specimens received that are >24 hours old will not be processed and testing will be cancelled.
Eosinophil Smear	Eosinophil Smear	Nasal swab/Sputum/Stool/Urine	Nasal Swab: Cotton Swab Sputum, Stool, Urine: Sterile Container	RT	Department: Hematology Notes: Nasal swab should be obtained by swabbing the area with a cotton swab. Sputum, stool, and urine may be obtained in a specimen container with no preservative.
Epstein-Barr (EBV) PCR	Epstein-Barr (EBV) PCR	EDTA Whole Blood	6 mL EDTA (Lavender)	Specimen holding temperature 2-8°C for up to 24 hours	Department: Microbiology-Referred Out Notes: Do NOT SPIN blood. For referral Labs: Sample must arrive in lab within 24 hours of collection.
Epstein-Barr (EBV) Serology	Epstein-Barr (EBV) Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Testing for EBV Serology is as follows: -EBNA IgG testing will be performed on all EBV serology requests -EBV VCA IgG and IgM testing will only be performed on EBNA IgG negative specimens.
Epstein Barr Virus Genome	DNA Analysis- EBV Genome	Blood	2 x 6 mL EDTA - Lavender → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Erythropoietin	Erythropoietin Level	Serum	SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Centrifuge and aliquot to a transport tube. Erythropoietin is affected by diurnal variation. Collection of samples between 7:30 am and 12:00 pm is recommended.
Estradiol	Estradiol Level	Blood	6 mL Red/SST	RT	Department: Chemistry
Ethanol - Serum	Ethanol Level	Blood	6 mL Red/SST → See notes	RT	Department: Chemistry Notes: Do not use alcohol for skin preparation prior to specimen collection.
Ethanol - Urine	Ethanol Level	Random Urine	Plastic C&S container	RT	Department: Chemistry
Ethosuximide	Ethosuximide Level	Serum	6 mL Red; avoid gel-separator tubes	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Submit trough specimen - collect within 1 hour prior to next dose or at least 12 hours after last dose. Centrifuge; aliquot serum to a transport tube.
Ethylene Glycol	Ethylene Glycol Level	Serum	6 mL Red	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Centrifuge and aliquot serum to a transport tube. Available STAT with approval from Clinical Lead or Pathologist on call @ QEH <u>plus</u> (during off-hours) QEII Clinical Lead.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
ESR (Erythrocyte Sedimentation Rate)	ESR	Blood	3 mL EDTA (Lavender) Non- QEH Sites : 1mL Black Tube → See notes	RT	Department: Hematology Notes: Tube must be completely filled or the specimen will be rejected.
Eye Culture	Eye Culture	Eye fluid/Eye Swab/Eye Scraping/Contact Lens	C&S Swab in Transport Media or 50 mL sterile container	Specimen holding temperature 4°C	Department: Microbiology
Factor II (Prothrombin Factor)	Factor II Assay	Blood	2 x Sodium Citrate - Blue → See notes	RT	Department: Hematology-Referred Out Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >4hrs, tube should be double spun, placed in 1 mL aliquots and sent frozen.
Factor V (Labile Factor, Proaccelerin)	Factor V Assay	Blood	2 x Sodium Citrate - Blue → See notes	RT	Department: Hematology-Referred Out Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >4hrs, tube should be double spun, placed in 1 mL aliquots and sent frozen.
Factor V Leiden	DNA Analysis- Factor V Leiden	Blood	1 x 6 mL EDTA blood →See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Factor VII (Stable Factor, Proconvertin)	Factor VII Assay	Blood	2 x Sodium Citrate - Blue → See notes	RT	Department: Hematology-Referred Out Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >4hrs, tube should be double spun, placed in 1 mL aliquots and sent frozen.
Factor VIII	Factor VIII Assay	Blood	Sodium Citrate - Blue → See notes	RT	Department: Hematology Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >4hrs, tube should be double spun, placed in 1 mL aliquots and sent frozen.
Factor IX	Factor IX Assay	Blood	Sodium Citrate - Blue → See notes	RT	Department: Hematology Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >4hrs, tube should be double spun, placed in 1 mL aliquots and sent frozen.
Factor X (Stuart-Prower Factor)	Factor X Assay	Blood	2 x Sodium Citrate - Blue → See notes	RT	Department: Hematology-Referred Out Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >4hrs, tube should be double spun, placed in 1 mL aliquots and sent frozen.
Factor XI (Plasma Thromboplastin Antecedent)	Factor XI Assay	Blood	2 x Sodium Citrate - Blue → See notes	RT	Department: Hematology-Referred Out Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >4hrs, tube should be double spun, placed in 1 mL aliquots and sent frozen.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Factor XIII (Fibrin Stabilizing Factor)	Factor XIII Panel	Blood	2 x Sodium Citrate - Blue → See notes	RT	Department: Hematology-Referred Out Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >4hrs, tube should be double spun, placed in 1 mL aliquots and sent frozen.
Factor XIII	Factor XIII Assay	Blood	Sodium Citrate - Blue → See notes	RT	Department: Hematology Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >4hrs, tube should be double spun, placed in 1 mL aliquots and sent frozen.
Familial Hemiplegic Migraine	DNA Analysis- Familial Hemiplegic Migraine	Blood	2x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Fasciola Serology	Fasciola Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Farmer's Lung	Farmer's Lung	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology
Fatty Acids Long Chain	Fatty Acids Long Chain	Whole Blood	3 mL EDTA (Lavender)	Store and ship refrigerated	Department: Chemistry Referred Out Notes: Collect Mon to Wed only; 14 hour fasting specimen is preferred. Must be received at referral lab within 72 hours of
Fatty Acids Very Long Chain	Fatty Acids Very Long Chain	Serum	6 mL Red/SST	Store and ship frozen	Department: Chemistry Referred Out Notes: Include relevant clinical and family history.
Fecal Fat Quantification (72 or 24 hour)	Fecal Fat Quantitative	Feces	Clean, dry plastic container; obtain from Lab → See notes	Refrigerate during collection. Freeze	Department: Chemistry Referred Out Notes: The patient should be on a diet containing 50 to 150 g of fat per day for 3 days prior to and during collection. The patient must not have had castor oil or other oily laxatives prior to or during collection. Consultation with dietician
Ferritin	Ferritin	Blood	6 mL Red/SST	RT	Department: Chemistry
Fibrinogen	Fibrinogen	Blood	Sodium Citrate - Blue → See notes	RT	Department: Hematology Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >6 hrs, spin, separate and freeze plasma. Send frozen.
Filariasis Serology	Filariasis Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8C	Department: Microbiology - Referred Out Minimum volume 1 mL.
Flow Cytometry- Bone Marrow	Flow Cytometry (Select Clinical Information from drop down)	Bone Marrow	1 mL minimum collected in a Lithium Heparin tube	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Flow Cytometry-For Suspected or Known Leukemia/ Lymphoma	Flow Cytometry (Select Clinical Information from drop down)	Blood	1 x 6 mL Lithium Heparin and a 3 mL EDTA	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Flow Cytometry- T-Cell subsets (CD3, 4, 8 count, T- Cell Count, CD4/CD8 ratio)	Flow Cytometry (Select Clinical Information from drop down)	Blood or Bone Marrow	3 mL EDTA (Lavender)	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Flunitrazepam (Rohypnol)	Urine Toxicology Confirmatory	Random urine	Sterile urine container	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Place Random Urine in freezer. Complete Health PEI Urine Drug Screen Confirmatory Testing Form
Fragile X	DNA Analysis- Fragile X	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Free T3	T3 Free	Blood	6 mL Red/SST → See notes	RT	Department: Chemistry Notes: This test is only performed if warranted following initial screen with TSH.
Free T4	T4 Free	Blood	6 mL Red/SST → See notes	RT	Department: Chemistry Notes: This test is only performed if patient is receiving therapy of if warranted following initial screen with TSH.
Freiderich Ataxia	DNA Analysis- Freiderich Ataxia	Blood	2 x 6 mL EDTA - Lavender → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Fructosamine	Fructosamine	Serum	SST	Store and ship refrigerated	Department: Chemistry Referred Out Testing Notes: Centrifuge and aliquot to a transport tube.
FSH	FSH	Blood	6 mL Red/SST	RT	Department: Chemistry
Fungal Blood Culture	Fungal Blood Culture	Blood	Fungal Blood Culture Bottle (White Cap/Red Rim) Mycolytic Bottle. Collect 1-5 mL of Blood per bottle.	Specimen holding temperature RT	Department: Microbiology Notes: Culture bottles may be obtained from the Microbiology laboratory. Transport to the Microbiology laboratory as soon as possible after collection.
Fungal Culture	Fungal Culture	Swab/Scraping/Clippings/Tissue/ Respiratory/etc.	C&S Swab in Transport Media/50 mL sterile container or Fungal collection kit	Specimen holding temperature RT	Department: Microbiology Notes: Please do not refrigerate skin scrapings/nails/hair for fungal culture. Swabs are not acceptable for skin/nail/hair
Gabapentin	Gabapentin Level	Serum	6 mL Red Do NOT use SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Collect specimen prior to next dose. Indicate date and time of last dose and collection on requisition. Centrifuge and aliquot serum to a transport tube ASAP.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Galactomannan	Galactomannan Invasive Aspergillus	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C for up to 48 hours	Department: Microbiology-Referred Out
		BAL	50 mL Sterile container	Specimen holding temperature 2-8°C for up to 24 hours. After 24 hours store at -20°C or colder	Department: Microbiology-Referred Out
Galactose-1-Phosphate Uridyltransferase: Quant	Chemistry Other (Add test name in Order Comment)	Whole Blood (Heparin)	Green Top Tube (Heparin) gel-separator should not be used	Store and Send at 4°C (2°-8°C)	Department: Chemistry Referred Out Testing Notes: Failure to maintain temperature will impact the results. Do NOT freeze. Refrigerate whole blood. Patient should not have undergone a blood transfusion in the last three months. Blood transfusion in this time invalidates the results. Date of birth must be provided. If the patient is more than 1 yr old, testing is only available on a consultation basis. Contact the Clinical Lead of Biochemistry at QEH.
Gamma Glutamyl Transferase			See GGT		
Gamma Hydroxybutyrate	Urine Other (Add test name in Order Comment)	Random Urine	Sterile urine container	Store and send cold	Department: Chemistry Referred Out Testing
Gastrin	Gastrin Level	Serum	SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: A fasting specimen is preferred. Specimen must be collected, processed, aliquoted and frozen within 30 minutes of collection.
GC PCR (Neisseria gonorrhea)	CT/GC PCR	Cervix/Endocervix, Vaginal, Urine, Rectal, Throat/Pharyngeal, and Eye	BD MAX UVE Buffer Tube	Specimen holding temperature 4°C	Department: Microbiology Notes: Urine is 1st stream collection. 1mL of Urine must be placed in the BD MAX UVE buffer tube within 24hrs of collection. PCR method is validated only for genital and urine specimens. The same single sample is used to test for Chlamydia, GC, and Trichomonas PCR.
Genital Culture	Genital Culture (Gonorrhea Culture)	Cervical/Endocervical/Throat swab/Penis/etc.	C&S Charcoal Swab	Specimen holding temperature 4°C	Department: Microbiology Notes: Available on cervix/endocervix swabs only with diagnosis of failed treatment, sexual assault, or with Medical Microbiologist consult. Penis swabs for Gonorrhea culture are only performed on patients 13-59.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Genital Culture	Genital Culture	Vaginal swab/Placenta Tissue & Swabs/ Uterine Cavity/etc.	C&S Swab in Transport Media or 50 mL sterile container	Specimen holding temperature 4°C	Department: Microbiology Notes: Only order on post-surgical, pre-pubital and/or documented relevant history.
Gentamicin	Gentamicin Level **BE SURE TO CHOOSE PROPER TEST ACCORDING TO DOSE**	Blood	6 mL Red/SST → See notes	RT	Department: Chemistry Notes: If delay in testing > 24 hours, serum should be separated from clot or SST. Trough: Collect sample 0-30 minutes prior to next dose. Peak: Collect sample 30-60 minutes after end of infusion. Extended interval dosing: Collect sample 6 hours prior to next dose.
GGT	GGT	Blood	6 mL Red/SST	RT	Department: Chemistry
Giardia/ Cryptosporidium Antigen Screen	Giardia/ Cryptosporidium Antigen Screen	Stool	Stool container with SAF Preservative (Red Label)	Specimen holding temperature 2-8°C	Department: Microbiology
Gliadin Antibodies	Immunology Other	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology - Referred Out
Glucagon	Chemistry Other (Add test name in Order Comment)	Plasma	6 mL EDTA (Lavender)	Store and Ship frozen	Department: Chemistry Referred Out Testing Notes: Patient must be fasting. Collect blood in pre-chilled lavender top tube. Place specimen in wet ice for 10 minutes. Centrifuge in pre-chilled centrifuge cup. Immediately after centrifugation, aliquot plasma to a plastic transport tube and freeze.
Glucose	Glucose	Blood	6 mL Grey	RT	Department: Chemistry
Glucose-6-phosphate dehydrogenase	G6PD	Blood	1 x 3 mL EDTA (Lavender) blood	RT	Department: Hematology Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Glycogen Storage Disease Type 1	DNA Analysis - Glycogen Storage Disease Type 1 or von Gierke's disease	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
GM 1 Ganglioside Antibody	Immunology Other	Blood	6 mL Red	Store and Ship Refrigerated	Department : Immunology - Referred Out
Group and Screen	BB Group & Screen Order Info PCH BB Group & Screen Order Info QEH	Blood	6 mL K2 EDTA tube	RT	Department: Blood Transfusion Notes: Signature and date/time are required on both the requisition, tube label or signature label.
Group B Strep Culture	Group B Strep Culture	Ear/Rectal/Throat/Umbilical/ Vaginal/Vaginal- Rectal/Vulva	C&S Swab in Transport Media	Specimen holding temperature 4°C	Department: Microbiology
Growth Hormone	Growth Hormone	Serum	SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Patient must fast 8 hours and be at rest 30 minutes prior to collection. Centrifuge, aliquot and freeze serum immediately.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Growth Hormone Releasing Hormone	Chemistry Other (Add test name in Order Comment)	Serum	SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Patients should not be on any medications that may influence pituitary secretion. Centrifuge and separate serum immediately. Aliquot 3 mL or serum to a transport tube. Thawed samples will be rejected.
Hantavirus Serology	Hantavirus Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Include history of contact to rodents or their droppings.
Haptoglobin	Haptoglobin	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology
Heinz Bodies Stain	Heinz Bodies Stain	Blood	EDTA (Lavender)	24 hrs stored at 4°C	Department: Hematology
Hemochromatosis	Hemochromatosis	Blood	6 mL EDTA (Lavender)	Keep refrigerated	Department: Immunology Notes: Must be received in lab Monday-Thursday, by 13:00.
Hemoglobin A1c	HgbA1C/A1C	Blood	3 mL EDTA(Lavender)	RT	Department: Hematology Notes: Testing also performed at PCH Chemistry Laboratory.
Hemoglobin Electrophoresis	Hemoglobin Electrophoresis Thalassemia Screen Hemoglobin Electrophoresis Panel	Blood	1 x 3 mL EDTA (Lavender) blood 1 x 6 mL Red for Ferritin testing if not already tested within 1 week Pediatric: 1 x 3 mL EDTA (Lavender)	Room Temperature Stable for 7 days	Department: Hematology-Referred out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Hemoglobin - Plasma	Plasma Hemoglobin	Blood	6 mL Green (Sodium Heparin)	Store and ship frozen	Department: Chemistry Referred-Out Notes: Avoid use of tourniquet if possible. Centrifuge and aliquot ASAP.
Heparin Induced Thrombocytopenia, Heparin Antibody	HIT	Blood	2 x 6 mL Red	RT	Department: Hematology-Referred Out Notes: Sample must be processed within 4hrs of collection. Tube must be filled. Hemolyzed specimens will be rejected. Referred to McMaster Platelet Immunology Laboratory.
Hepatitis A Serology IgG	Hepatitis A Serology IgG	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology Notes: Requests to check vaccination status will not be processed
Hepatitis A Serology IgM	Hepatitis A Serology IgM	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology
Hepatitis B Core IgM (HBc IgM)	Hepatitis B Core IgM (HepBc IgM)	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Referring Labs: Send photocopy of requisition to QEH.
Hepatitis B Core Total (Anti-HBc Total) (HBc IgG/IgM)	Hepatitis B Core Total (Anti-HepBc Total) (HepBc IgG/IgM)	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology Notes: Referring Labs: Send photocopy of requisition to QEH.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Hepatitis B Envelope Antibody (HBeAb)	Hepatitis B Envelope Antibody (HBeAb)	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Referring Labs: Send photocopy of requisition to QEH.
Hepatitis B Envelope Antigen (HBeAg)	Hepatitis B Envelope Antigen (HBeAg)	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Referring Labs: Send photocopy of requisition to QEH.
Hepatitis B NAT	HBV NAT	Plasma	one to two 6 mL EDTA (Lavender)	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Referring lab: send ASAP. Requires 3-4 mLs of plasma for test.
Hepatitis B PCR (not same test as Hepatitis B Viral Load)	Hepatitis B PCR	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Test not performed routinely. Serology results must show markers to the Hepatitis B virus (if the HBsAg is negative justification must be provided for the request). Referring Labs: Send photocopy of requisition to OFH.
Hepatitis B Surface Antibody (HBsAb)	Hepatitis B Surface Antibody (HBsAb)	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology
Hepatitis B Surface Antigen (HBsAg)	Hepatitis B Surface Antigen (HBsAg)	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology
Hepatitis B Viral Load	Hepatitis B Viral Load	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Hepatitis C Antibody Screen (anti-HCV)	Hepatitis C Antibody Screen (anti-HCV)	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology
Hepatitis C Genotyping	Hepatitis C Genotyping	Serum	Two 6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Genotype can be tested every 3 years or if reinfection is suspected. Please contact the microbiology laboratory if reinfection is suspected. Referring Labs: Hemolysed samples will not be processed and samples <1mL of serum will not be accepted. Spin at 3000 rpm for 10 minutes.
HCV NAT	HCV NAT	Plasma	one to two 6 mL EDTA (Lavender)	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Referring lab: send ASAP. Requires 3-4 mLs of plasma for test.
Hepatitis C Viral Load	Hepatitis C Viral Load	Serum	Two 6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Referring Labs: Hemolysed samples will not be processed and samples <2mL of serum will not be accepted. 2
Hepatitis D Serology	Hepatitis D Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Hepatitis E Serology	Hepatitis E Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Hereditary nonpolyposis colorectal cancer	DNA Analysis- HNPCC	Blood	2x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Herpes PCR	Herpes PCR	CSF/Tissue/Bronchial Washing/etc.	50 mL sterile container	Specimen holding temperature 4°C	Department: Microbiology
Herpes PCR	Herpes PCR	Throat/Eye/Oral/ Genital Swabs	Swab in Viral Transport Media (VTM)	Specimen holding temperature 4°C	Department: Microbiology
Herpes Serology	Herpes Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Herpes IgG I and Herpes IgG II testing is performed. Herpes IgM testing is no longer available.
Histoplasma	Histoplasma Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
	Orderable is: Misc Microbiology Order. Specimen type: Misc Micro Source Body Site: See Free text, Free text Source: type in test requested (Histoplasma)	Urine/ BAL/ CSF	50 mL Sterile container	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
HIV Antigen/Antibody Screen	HIV Antigen/Antibody Screen	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology
HIV Genotyping and Drug Resistance	HIV Genotyping and Drug Resistance	EDTA Whole Blood/Plasma -See notes	Two 6 mL EDTA (Lavender)	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Referring Labs: Please call Microbiology to determine if specimen must be spun or remain as whole blood (depends on HIV viral load result). Send to lab ASAP. Send photocopy of requisition to QEH.
HIV P24 Antigen	HIV P24 Antigen	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Referring Labs: Send photocopy of requisition to QEH.
HIV PCR	HIV PCR	EDTA Whole Blood	6 mL EDTA (Lavender)	Specimen holding temperature Room Temperature	Department: Microbiology-Referred Out Notes: Referring Labs: Do NOT spin or refrigerate samples. Minimum 2.0 mL required. Must be received in lab Monday-Thursday, by 14:00. Do not collect the day before a holiday. Include a room temperature ice pack and include results of previous serology (Eg: EIA, Western Blot). Must arrive in lab within 24-36 hours of collection. Send photocopy of requisition to QEH.
HIV NAT	HIV NAT	Plasma	one to two 6 mL EDTA (Lavender)	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Referring lab: send ASAP. Requires 3-4 mLs of plasma for test.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
HIV Viral Load	HIV Viral Load	Plasma	6 mL EDTA (Lavender)	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Referring Labs: Plasma Must be separated from EDTA blood within 24 hours after collection, otherwise sample may be rejected. Spin sample at 3500rpm for 30 minutes. Send photocopy of requisition to QEH.
HLA B27	HLA B27	Blood	6 mL EDTA (Lavender)	Room Temperature	Department: Immunology - Referred Out Notes: Must be received in lab Monday-Wednesday, by 13:00, do not refrigerate.
HLA Typing	HLA Typing	Blood	Refer to request form	Room Temperature	Department: Immunology - Referred Out
H pylori Stool Antigen Test	H pylori Stool Antigen Test	Stool	Plain Stool Container or 50 mL sterile container	Specimen holding temperature 2-8°C	Department: Microbiology
Homocysteine	Homocysteine	Plasma	EDTA (Lavender)	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Collect specimen after an 8 hour fast. Do not use separator gel. Centrifuge and aliquot plasma within 1 hour to a transport tube. Avoid contamination with buffy coat. Freeze immediately.
Homovanillic Acid	Urine Other (Add test name in Order Comment)	24 Hour Urine	24 Hour Urine Container with 25 mL 6N HCl as a preservative	Ship and store frozen	Department: Chemistry Referred Out Testing Notes: Patient must not eat or drink the following: vanilla, chocolate, tomatoes, coffee, tea, colas and bananas or take aspirin and /or drugs containing aspirin three days prior to and the day of collection. The pH of the urine should be 2 to 3. Measure the total volume and record on the requisition, as well as the date and time of collection. Transfer at least 10 mL to a sterile ORANGE-CAPPED container, indicate total volume on container.
HTLV I&II Serology	HTLV I&II	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
HTLV PCR	HTLV PCR	EDTA Whole Blood	6 mL EDTA (Lavender)	Specimen holding temperature Room Temperature	Department: Microbiology-Referred Out Notes: Referring Labs: Do NOT spin or refrigerate samples. Minimum 2.0 mL required. Must only collect sample Monday-Tuesday. Do not collect the day before a holiday. Include a room temperature ice pack and include results of previous serology (Eg: EIA, Western Blot). Must arrive in lab within 24-36 hours of collection. Send photocopy to requisition to QEH.
Huntington's Disease	DNA Analysis- Huntington's Chorea	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred out Notes: Must arrive at QEH Lab before noon Monday—Thursday.
IA-2 Antibodies	IA-2 Antibodies	Serum	Red or SST	Store and Ship Frozen	Department: Chemistry Referred Out testing Notes: Centrifuge and aliquot to transport tube.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
IGF Binding Protein 3	Chemistry Other (Add test name in Order Comment)	Serum	SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Centrifuge and aliquot serum to a transport tube.
Immunoglobulin D	Immunology Other	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology - Referred Out
Immunoglobulin G Subclasses	Immunoglobulin Subsets	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology - Referred Out
IgA	IgA	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology
IgE	lgE	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology
IgG	IgG	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology
IgM	IgM	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology
IGRA (Interferon Gamma Release Testing for TB)	IGRA (Interferon Gamma Release Testing for TB)	Blood	Requires special collection tubes and procedure. Contact Venipuncture to book appointment for collection.	Not Applicable	Department: Microbiology-Referred Out Notes: Should be coordinated with CPHO. Collection can only be done at Venipuncture at QEH and PCH.
Infliximab	Infliximab Level	Serum	6 mL Red/SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Centrifuge and aliquot serum to a transport tube within 24 hours of collection.
Influenza Culture	Influenza PCR	Tissue	50 mL sterile container	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Influenza/RSV PCR	Influenza PCR	Bronchial Washings/BAL/NPA/NPS	50 mL sterile container	Specimen holding temperature 4°C	Department: Microbiology Notes: The same single specimen is used to test for both Influenza and RSV
Influenza/RSV PCR	Influenza PCR	Throat/Nasopharyngeal Swab	Swab in Viral Transport Media (VTM)	Specimen holding temperature 4°C	Department: Microbiology Notes: The same single specimen is used to test for both Influenza and RSV
Insulin	Insulin Level Total	Serum	SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Patient should be fasting 8 hours prior to collection. Separate serum within 5 hours of collection.
Insulin Antibody	Insulin Antibody	Serum	SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Centrifuge and aliquot serum to a transport tube.
Insulin-Like Growth Factor 1	Insulin-Like Growth Factor 1	Serum	SST	Store and ship frozen.	Department: Chemistry Referred Out Testing Notes: Specimen must be collected, processed, aliquoted and frozen immediately.
Insulin-Like Growth Factor II	Chemistry Other (Add test name in Order Comment)	Serum	SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Must be processed, aliquoted and frozen within 45-60 minutes of collection.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
lodine	lodine Level	Plasma	Dark Blue Top (K2EDTA)	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Centrifuge and separate within 1/2 hour of collection. Centrifuge with stopper on. Do not use separator gel. Aliquot plasma to a transport tube and freeze immediately. High concentrations of gadolinium and iodine are known to interfere with most trace element tests. If gadolinium or iodine-containing contrast media have been administered, a specimen should not be collected for 48 hours.
Iron	Iron Level	Blood	6 mL Red/SST → See notes	RT	Department: Chemistry Notes: Serum iron concentrations show significant variation throughout the day, being lower in the afternoon than in the morning and quite low in the evening.
Isopropanol	Isopropanol Level	Serum	6 mL Red	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Use non-alcoholic solutions such as peroxide, saline or warm water to clean venipuncture site. Do not use alcohol preparations. Centrifuge and aliquot to a transport tube.
JAK2 mutation	DNA Analysis- JAK 2	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
JC Virus PCR	Orderable is: Misc Microbiology Order. Specimen type: Misc Micro Source Body Site: See Free text, Free text Source: type in test requested (JC Virus PCR)	CSF	Sterile screw capped CSF container	Specimen holding temperature 2-8°C for up to 24 hours. After 24 hours store at -20°C or colder	Department: Microbiology-Referred Out
Juvenile Macular Degeneration	DNA Analysis- Stargardt's Disease	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Keppra	Keppra	Serum	6 mL Red Do NOT use SST	Store and ship refrigerated	Department: Chemistry Referred Out Testing Notes: Obtain date and time of last dose; note on requisition. Collect prior to next dose. Centrifuge and aliquot plasma to a transport tube. Do NOT delay transport. Depending on the specimen volume and storage time, the decrease in drug level due to absorption may be clinically significant.
Ketamine	Urine Toxicology Confirmatory	Random Urine	Sterile Urine Container	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Freeze urine in sterile container. Complete Urine Drug Screen Confirmatory Testing Form.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Kleihauer	Kleihauer-Betke	Blood	3 mL EDTA (Lavender)	RT	Department: Hematology
Lactate	Lactate	Blood	6 mL Green stoppered specimen → See notes	Transport to Lab STAT Transport on ice - water slurry	Department: Chemistry Notes: Plasma must be separated from the cells within 15 minutes of collection. Analysis must be performed within 30 minutes of collection. If testing will be delayed, centrifuge and remove plasma from cells and freeze. If unable to meet these requirements, patients should be referred to a Health PEI facility for specimen collection. Please phone the Laboratory (894-2324) to make arrangements for analysis.
Lactate Dehydrogenase			See LD	•	,
Lamin A/C	DNA Analysis- LMNA	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Lamotrigine (Lamictal)	Lamictal, Lamotrigine	Serum	6 mL Red Do NOT use SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Collect trough level prior to next dose. Centrifuge and aliquot to transport tube ASAP. Note date and time of last dose on requisition.
LD	LD	Blood	6 mL Red/SST	RT	Department: Chemistry
LDL Ultracentrifugation	Chemistry Other (Add test name in Order Comment)	Serum	3 X 6 mL SST Tubes	Store and ship refrigerated	Department: Chemistry Referred Out Testing Notes: Patient must fast at least 12 hours prior to sample collection. Centrifuge samples at 1350g for 18 minutes. Separate serum from cells within 2 hours of sample collection. Aliquot serum to a single transport tubes. Refrigerate only. Samples will be rejected if severely hemolyzed, insufficient volume for testing or previously frozen.
Legionella Culture	Legionella Culture	BAL/Bronchial/Endotracheal/ Sputum's/etc.	50 mL sterile container	Specimen holding temperature 4°C	Department: Microbiology
Lead Whole Blood	Lead Level	Whole Blood	Dark Blue Top (K2EDTA)	Store and ship refrigerated	Department: Chemistry Referred Out Testing Notes: Do not centrifuge. Refrigerate whole blood sample. High concentrations of gadolinium and iodine are known to interfere with most trace element tests. If gadolinium or iodinecontaining contrast media have been administered, a specimen should not be collected for 48 hours.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION &	ADDITIONAL INFORMATION
		<u> </u>	C	STORAGE	
Legionella Serology	Orderable is: Misc Microbiology Order.	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
	Specimen type: Misc			temperature 2-8 C	
	Micro Source Body Site:				
	See Free text, Free text				
	Source: type in test				
	requested (Legionella				
	Serology)				
Legionella Urinary Antigen	Legionella Urinary Antigen	Urine	50 mL sterile container	Specimen holding	Department: Microbiology
				temperature 2-8°C	Notes: Minimum 5 mL Urine required.
Leishmaniasis Serology	Orderable is: Misc	Serum	6 mL Red/SST	Specimen holding	Department: Microbiology -Referred out
	Microbiology Order.			temperature 2-8°C	
	Specimen type: Misc				
	Micro Source Body Site:				
	See Free text, Free text Source: type in test				
	requested (Leishmaniasis				
	Serology)				
Leptospira Serology	Leptospira IgG Serology	Serum	6 mL Red/SST	Specimen holding	Department: Microbiology-Referred Out
	1 1 0 07		,	temperature 2-8°C	7
Lipase	Lipase Level	Blood	6 mL Red/SST	RT	Department: Chemistry
Lipid Emulsion	Lipid Emulsion - Triglyceride	Blood	6 mL Red/SST	RT	Department: Chemistry
Lipid Panel	Lipid Panel	Blood	6 mL Red/SST	RT	Department: Chemistry
			→ See notes		Notes: 12 - 14 hour fast is required.
LH	LH	Blood	6 mL Red/SST	RT	Department: Chemistry
Lithium	Lithium Level	Blood	6 mL Red/SST	RT	Department: Chemistry
			→ See notes		Notes: Trough: collect specimen 0-60 minutes prior to next
					dose or at least 12 hours after last dose.
					Peak concentration is reached 2-4 hours after oral dose.
Long Q T Syndrome	DNA Analysis- LQTS	Blood	2 x 6 mL EDTA (Lavender)	RT	Department: Hematology-Referred out
			→ See notes		Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Lorazepam	Chemistry Other	Serum	6 mL Red; do not use serum	Store and ship frozen	Department: Chemistry Referred Out Testing
	(Add test name in Order		separator tube		Notes: Centrifuge. Separate serum from cells ASAP. Aliquot
	Comment)				serum to transport tube.
Lupus Anticoagulant	Lupus Anticoagulant	Blood	2 x Sodium Citrate - Blue	RT	Department: Hematology Referred Out
			→ See notes		Notes: Tube must be filled. Hemolyzed specimens will be
					rejected. If delay in transport >4hrs, tube should be double
					spun, placed in 1 mL aliquots and sent frozen.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Luteinizing Hormone			See LH		
Lyme Disease Screen (ELISA)	Lyme Disease Screen (ELISA)	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Requires the following information for specimen to be processed: 1. Specific clinical features suggestive of lyme disease (dermatological, neurological 2. Travel and exposure history 3. Tick exposure date (or possible dates) and duration of attachment if known. When a specialist has recommended the test please indicate their full name. See http://www.healthpei.ca/micro for the PEI Lyme Disease Algorithm.
Lysozyme	Lysozyme	Serum	SST	Store and ship RT	Department: Chemistry Referred Out Testing Notes: Centrifuge and aliquot to transport tube.
Macroprolactin	Chemistry Other (Add test name in Order Comment)	Serum	6 mL Red/SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Centrifuge and aliquot to transport tube.
Magnesium	Magnesium Level	Blood	6 mL Red/SST	RT	Department: Chemistry
Magnesium 24 Hour Urine	Magnesium Level 24 Hour Urine	24 Hour Urine	24 Hour Urine Collection Container - no preservative → See notes	Refrigerate during collection	Department: Chemistry Notes: Please follow 24 Hour Urine collection instructions closely. Incomplete collection may result in rejection of specimen.
Magnesium Random Urine	Magnesium Level Urine	Random Urine	Plastic C&S container	RT	Department: Chemistry
Malaria	Malaria Test Panel	Blood	3 mL EDTA (Lavender) → See notes	RT	Department: Hematology Notes: Specimen must be received in lab within 1hr of collection.
Manganese	Manganese Level	Plasma	Dark Blue Top (K2EDTA)		Department: Chemistry Referred Out Testing Notes: Avoid hemolysis. Centrifuge within 30 minutes of collection. Aliquot to transport tube. High concentrations of gadolinium and iodine are known to interfere with most trace element tests. If gadolinium or iodinecontaining contrast media have been administered, a specimen should not be collected for 48 hours.
Manganese Whole Blood	Manganese Whole Blood	Whole Blood	Dark Blue Top (K2EDTA)	Store and ship refrigerated	Department: Chemistry Referred Out Testing Notes: Used to monitor TPN.
Marfan's Syndrome	DNA Analysis- Marfan's Syndrome	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Mastocytosis Next Generation Sequencing Panel	Hematology Referred Test	Blood or Bone Marrow	Blood: 1 x 6 mL EDTA (Lavender) Bone Marrow: 1-2 mL in an EDTA (Lavender) →See notes	Specimen holding temperature 4°C	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday—Thursday.
Maternal Cell Contamination	DNA Analysis- MCC	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Maternal Screen	Maternal Screen	Serum	SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Patient must be within the indicated gestation period (First Trimester: 9-13 ^{6/7} weeks; Second Trimester: 15-20 ^{6/7} weeks). Centrifuge and transfer to transport tube. Completed IWK "Maternal Serum Testing Requisition" must be forwarded with specimen.
Measles IgG	Measles IgG	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology
Measles IgM	Measles IgM	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Measles PCR testing is preferred.
Measles PCR	Measles PCR	Urine/ BAL/ Bronch Wash	50 mL sterile container	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
		CSF	Sterile screw capped CSF container	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
		NP suction/NP swab	Viral Transport Media (VTM)	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Mercury Whole Blood	Mercury Level	Whole Blood	Dark Blue Top (K2EDTA)	Store and ship refrigerated	Department: Chemistry Referred Out Testing Notes: Do NOT centrifuge. High concentrations of gadolinium and iodine are known to interfere with most trace element tests. If gadolinium or iodine-containing contrast media have been administered, a specimen should not be collected for 48 hours.
Metanephrines 24 Hour Urine	Metanephrines 24 Hour Urine	24 Hour Urine	24 Hour Urine container with 25 mL 6N HCl as a preservative.	Store and ship refrigerated	Department: Chemistry Referred Out Testing Notes: Diet and drug restrictions: To be avoided for 48 hours - ASA, chloralhydrate, coffee, cola drink, dopamine, erythromycin, methyldopa, niacin, phenothiazines, quinidine, quinine, riboflavin, smoking, tea, tetracycline, vitamin B. To be avoided for 72 hours are as follows: avocados, bananas, chocolate, eggplant, fruit and juice, hypertensive drugs (especially aldomet), pineapple, plums, Tylenol (acetaminophen), walnuts. Note: coffee, cola drinks, tea, smoking are considered drugs. pH the specimen. Measure the 24 hour total volume, indicate volume on the specimen, on the requisition and in Cerner. Aliquot 50 mL to a sterile urine container.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Metanephrines Plasma & 3-Methoxytyramine	Metanephrine Plasma	Plasma (EDTA)	EDTA (Lavender)	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Patient must abstain from smoking tobacco for at least 4 hours prior to collection. Patient should be at rest in a supine position during collection to minimize false positive results. Collect fasting sample. Centrifuge and aliquot (only one required) and freeze. Specimen is stable for 2 months when frozen. If the specimen thaws, it is unsuitable for analysis.
Methadone Screen Urine	Methadone EDDP Screen Urine	Random Urine	Plastic C&S container → See notes	RT	Department: Chemistry Notes: Must be refrigerated upon collection and analyzed
	Office		→ See notes		within 5 days or stored frozen.
Methanol	Methanol Quantitative	Serum	6 mL Red	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Use non-alcoholic solutions such as peroxide, saline, or warm water to clean venipuncture site. Do not use alcoholic preparations. Centrifuge and aliquot serum to transport tube.
Methemoglobin	Methemoglobin	Blood	6 mL Green stoppered specimen	RT	Department: Chemistry
			Arterial or Capillary Blood Gas Specimen is acceptable	Transport to Lab STAT Transport on ice	Notes: Blood may be stored at 4° C for 4 days for non-urgent requests.
Methotrexate	Methotrexate Level	Serum	red top tube → See notes	Refrigerated or Frozen	Notes: specimen must be protected from light.
Methylmalonic Acid Plasma	MMA-Methylmalonic Acid	Plasma	EDTA (Lavender)	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Separate plasma within 6 hours of collection. Aliquot to a transport tube and freeze. Only refer out if B12 is between 142 and 295 pmol/L.
Methylmalonic Acid Urine	Methylmalonic Acid Urine	Random Urine → See notes	Sterile Urine Container	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Early morning urine preferred. Indicate patient's medications.
Methylphenidate	Urine Toxicology Confirmatory	Random Urine	Sterile Urine Container	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Place urine sample in freezer. Complete Urine Toxicology Confirmatory Testing form
Microarray	DNA Analysis- Microarray	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Molybdenum	Molybdenum Level	Plasma	Dark Blue Top (K2EDTA)	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Centrifuge within 30 minutes of collection. Do not use separator gel. Aliquot to transport tube and ship frozen. High concentrations of gadolinium and iodine are known to interfere with most trace element tests. If gadolinium or iodinecontaining contrast media have been administered, a specimen should not be collected for 48 hours.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Monospot	Mononucleosis Screen	Blood	3 mL EDTA (Lavender) / 6 mL Red/SST	RT	Department: Hematology Notes: Testing also performed at PCH Chemistry Laboratory.
MRSA Screen	MRSA Screen	Nares/Rectal/Skin/Wound/ Urine/etc.	C&S Swab in Transport Media	Specimen holding temperature 4°C	Department: Microbiology
Mucopolysaccharides Screen	Mucopolysaccharide	Random Clean Catch Urine (avoid first morning collection)	Sterile Urine Container	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Avoid first morning collection. Completion of the IWK Health Centre "Request for Metabolic Investigation" requisition is required to facilitate interpretation of analytical findings and recommendation for further testing or consultation.
Multiple Endocrine Neoplasia Type 2A	DNA Analysis- Multiple Endocrine Neoplasia Type 2A	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Mumps PCR	Mumps PCR	Deep Oral swab; Urine (if Orchitis present)	Swab in Viral Transport Media (VTM); Urine-50 mL sterile container	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: STAT testing available upon request. Please contact the Microbiology Laboratory if requesting STAT testing. Include on requisition date of symptom onset, date of last mumps vaccination (if recent) and travel history.
Mumps IgG Antibody	Mumps IgG Antibody	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology
Musk Quantitative Titres Antibody Test	Immunology Other	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology-Referred Out
Mycobacterium Culture	Mycobacterium Culture	Sputum/Tissue/Washings/Urine	50 mL sterile container	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Mycobacterium Culture	Mycobacterium Culture	Skin/Wound swabs	C&S Swab in Transport Media	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Mycobacterium Culture, Blood	Mycobacterium Culture, Blood	Blood	Mycolytic Blood Culture Bottle (White Cap/Red Rim): collect 1-5 mL of Blood per bottle.	Specimen holding temperature RT	Department: Microbiology Notes: Do not freeze or refrigerate blood culture bottles. Please do not cover bottle barcode label with another label. Transport specimen to the Microbiology laboratory as soon as possible after collection.
Mycophenylate	MMF or Mycophenolate Level	Plasma	EDTA (Lavender)	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Collect specimen prior to next dose. Centrifuge. Aliquot plasma to a transport tube. Indicate date and time of last dose, as well as date and time of collection on the requisition. Can be done on micro samples when necessary.
Mycoplasma IgM	Mycoplasma IgM	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION &	ADDITIONAL INFORMATION
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Mycoplasma PCR (Genital)	Ureaplasma/ Mycoplasma Genital PCR	Urine	50 mL sterile container	Specimen holding temperature 2-8°C or -20°C	Department: Microbiology-Referred Out
(German)	Gemeal Fer	Vaginal swab/ Cervical swab/ Endocervical	Swab in Viral Transport Media (VTM)	Specimen holding	Department: Microbiology-Referred Out
		swab/ Urethra swab/ penis swab/ Rectal swab/	or	temperature 2-8°C (VTM	
		·	C&S collection swab	can be stored at -20°C or	
				colder)	
Mycoplasma PCR	Mycoplasma/	BAL/Washings	50 mL sterile container	Specimen holding	Department: Microbiology-Referred Out
(Respiratory)	Chlamydophila PCR			temperature 2-8°C	
Mycoplasma PCR	Mycoplasma/	Throat swab	Swab in Viral Transport Media (VTM)	-	Department: Microbiology
(Respiratory)	Chlamydophila PCR			temperature 2-8°C	
Myelodysplastic	Hematology Referred Test	Blood or Bone Marrow	Blood: 1 x 6 mL EDTA (Lavender)	Specimen holding	Department: Hematology-Referred Out
Syndrome Next			Bone Marrow: 1-2 mL in an EDTA	temperature 4°C	Notes: Must arrive at QEH Lab before noon Monday – Thursday
Generation Sequencing Panel			(Lavender) → See notes		
Myeloproliferative	Hematology Referred Test	Blood or Bone Marrow	Blood: 1 x 6 mL EDTA (Lavender)	Specimen holding	Department: Hematology-Referred Out
Neoplasm Next			Bone Marrow: 1-2 mL in an EDTA	temperature 4°C	Notes: Must arrive at QEH Lab before noon Monday – Thursday
Generation Sequencing			(Lavender)	·	
Panel			→ See notes		
Myotonic Dystrophy	DNA Analysis- Myotonic	Blood	2 x 6 mL EDTA (Lavender)	RT	Department: Hematology-Referred out
	Dystrophy		→ See notes		Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Nasal Culture	Nasal Culture	Nasal/Nares	C&S Swab in Transport Media	Specimen holding	Department: Microbiology
N 1 0 1	N. I. C.I.	ND 1: /ND 1	T.1: : 50 1 1 1 1 1 1	temperature 4°C	
Nasopharynx Culture	Nasopharynx Culture	NP suction/NP swab	Tubing in a 50 mL sterile container,	Specimen holding	Department: Microbiology
			syringe attached or C&S Swab in Transport Media	temperature 4°C	
Neisseria gonorrhea PCR			See GC PCR		
Neonatal Toxicology Hair	Neonatal Toxicology Hair	Hair	Collection foil, sterile container or	Store and Ship RT	Department: Chemistry Referred-Out Testing
Neonatal Toxicology Hall	Neonatai Toxicology Hali	Hall	envelope	Store and Ship Ki	Notes: USDTL Custody and Control Form must be completed.
			→ See notes		Date and Time of birth required.
Neonatal Toxicology	Neonatal Toxicology	Meconium - collect first few bowel movements	USDTL-provided container	Store and Ship Frozen	Department: Chemistry Referred-Out Testing
Meconium	Meconium	- within the first 48 hours post-partum	→ See notes		Notes: USDTL Custody and Control Form must be completed.
					Date and Time of birth required.
Neurofibromatosis 1	DNA Analysis-	Blood	2 x 6 mL EDTA (Lavender)	RT	Department: Hematology-Referred out
	Neurofibromatosis 1		→ See notes		Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Neuromyelitis Opica	Immunology Other	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology - Referred Out
Newborn Group and	BB Cord Group & Coombs	Blood	Cord blood	RT	Department: Blood Transfusion
Coombs	Order Info				

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Newborn Screen	Newborn Screen	Capillary Blood on Blotter	Blotter Card	RT	Department: Chemistry Referred Out Testing Notes: Collected within 24-48 hours of birth. Capillary collection applied directly to blotter card. Five circles must be filled completely and soaked all the way through. Allow circles to dry at room temperature, lying horizontally for three hours before placing in envelope.
Nickel Plasma	Nickel	Plasma	Dark Blue Top (K2EDTA)	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Centrifuge and separate within 1/2 hour of collection. Centrifuge with stopper on. Do not use separator gel. Aliquot plasma to transport tube. High concentrations of gadolinium and iodine are known to interfere with most trace element tests. If gadolinium or iodinecontaining contrast media have been administered, a specimen should not be collected for 48 hours.
Nortriptyline	Nortriptyline	Serum or Plasma	6 mL Red or EDTA (Lavender)	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: To monitor therapy, draw trough specimen within 1 hour prior to dose or at least 12 hours after last drug administration. Remove serum/plasma within 2 hours of collection. Aliquot to transfer tube. Do not use separator gel. Indicate date and time of last dose, as well as date and time of collection, on requisition.
NT-Pro BNP (HFX)	Chemistry Other (Add test name in Order Comment)	Plasma	Lithium Heparin (Green)	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Centrifuge and transfer plasma to aliquot tube ASAP. Patient must present with NT-Pro BNP approval form.
Occult Blood	Occult Blood FIT	Stool	OB FIT Container	Specimen holding temperature 4°C	Department: Chemistry
Olanzapine	Olanzapine Level	Serum or Plasma (Heparin)	6 mL Red or Green Top Tube	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Submit trough specimen collected just prior to next dose or post-dose at a time >75% of dosing interval. Do not use gel-separator tubes. Centrifuge and aliquot to transport tube.
Oligosaccharide Screen	Oligosaccharide	Random Clean Catch Urine	Sterile Urine Container	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Completion of the IWK Health Centre "Request for Metabolic Investigation" requisition is required.
Opiates Screen Urine	Opiates Screen Urine	Random Urine	Plastic C&S container → See notes	RT	Department: Chemistry Notes: Must be refrigerated upon collection and analyzed within 5 days or stored frozen.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION	
Organic Acid	Organic Acids Urine	Random early morning urine	Sterile Urine Container	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Use clean catch urine techniques; results may be uninterpretable in the presence of significant proteinuria or urinary tract infection. Include relevant clinical and family history on IWK "Request for Metabolic Investigation" requisition.	
Orotic Acid	Urine Other (Add test name in Order Comment)	Random Urine	Sterile Urine Container	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Specimen must be collected, processed, aliquoted and frozen within 30 minutes of collection.	
Osmolality	Osmolality	Blood	6 mL Red/SST	RT	Department: Chemistry	
Osmolality Urine	Osmolality Urine	Random Urine	Plastic C&S container → See notes	RT	Department: Chemistry Notes: Collect urine without preservative and send to Lab with a minimum of delay.	
Osmotic Fragility	Osmotic Fragility	Blood	2x6mL Lithium Heparin -Green → See notes	RT	Department: Hematology Notes: Please call Lab prior to ordering.	
Oxalate 24 HR Urine	Oxalate 24 Hour Urine	24 Hour urine	24 Hour urine container with 25 mL 6N HCl as a preservative.	Store frozen and ship on dry ice.	Department: Chemistry Referred Out Testing Notes: Measure the volume and transfer a 50 mL aliquot to a Sterile Urine Container for specimen submission. Indicate 24 hour total volume.	
Oxycodone Screen Urine	Oxycodone Screen Urine	Random Urine	Plastic C&S container → See notes	RT	Department: Chemistry Notes: Must be refrigerated upon collection and analyzed within 5 days or stored frozen.	
Pancreatic Islet Cell Antibody	Islet Cell Antibody	Serum	6 mL Red/SST	Store and ship refrigerated	Department: Chemistry Referred Out Testing Notes: Do NOT Freeze. Centrifuge and separate serum from cells immediately. Deliver within 14 days.	
Paragonimiasis Serology	Orderable is: Misc Microbiology Order. Specimen type: Misc Micro Source Body Site: See Free text, Free text Source: type in test requested (Paragonimiasis Serology)	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out	
Parathyroid Hormone	See PTH					
Parathyroid Hormone - Intact	See PTH					

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Parathyroid Hormone Related Peptide	PTH-Related Peptide	Plasma	6 mL EDTA (Lavender)	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Collect into a chilled EDTA tube. Specimen must be collected, processed, aliquoted and frozen within 15 minutes of collection.
Parietal Antibodies	Immunology Other	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology - Referred Out
Paroxysmal Nocturnal Hemoglobinuria	Flow Cytometry (Select Clinical Information from drop down)	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Parvovirus B19 IgG Antibody	Parvovirus B19 IgG Antibody	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: Testing should only be performed on women of child bearing age.
Parvovirus B19 IgM Antibody	Parvovirus B19 IgM Antibody	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Parvovirus PCR	Parvovirus PCR	Serum or Plasma	6 mL EDTA (Lavender) or 6 mL Red	Specimen holding temperature 2-8°C	Department: Microbiology
Peritoneal Dialysate Fluid Culture	Peritoneal Dialysate Fluid Culture	PD Fluid	Peritoneal Dialysate Fluid Collection Kit	Specimen holding temperature 4°C	Department: Microbiology
Pertussis Serology	Pertussis Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Bordetella Pertussis / Parapertussis PCR	Bordetella Pertussis / Parapertussis PCR	Nasopharyngeal Swab/Aspirate **Aspirates should never be collected on patients ≥ 12 years of age**	Swab in Viral Transport Media (VTM)	Specimen holding temperature 4°C	Department: Microbiology-Referred Out Notes: The nasopharyngeal swab is the specimen of choice for all ages.
Phenobarbital	Phenobarbital Level	Blood	6 mL Red/SST → See notes	RT	Department: Chemistry Notes: Trough: Collect sample 0-60 minutes prior to next dose.
Phenylalanine/Tyrosine	Phenylalanine & Tyrosine	Capillary Blood on Blotter Card	Blotter Card	RT	Department: Chemistry Referred Out Testing Notes: Capillary collection applied directly to blotter card. Three circles must be filled completely and soaked all the way through. Allow circles to dry at room temperature, lying horizontally for three hours before placing in envelope.
Phenytoin	Phenytoin Level Total	Blood	6 mL Red/SST → See notes	RT	Department: Chemistry Notes: Trough: Collect sample 0-60 minutes prior to next dose.
Phosphate	Phosphate Level	Blood	6 mL Red/SST	RT	Department: Chemistry
Phosphate	Phosphate Level 24 Hour Urine	24 Hour Urine	24 Hour Urine Collection Container with 20-30 mL of 6 mol/L Hydrochloric Acid preservative added → See notes	Refrigerate during collection	Department: Chemistry Notes: Please follow 24 Hour Urine collection instructions closely. Incomplete collection may result in rejection of specimen.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Phosphate Urine	Phosphate Level Urine	Random Urine	Plastic C&S container	RT	Department: Chemistry
Pinworm Prep	Pinworm Prep	Pinworm Kit	Pinworm Kit or Pinworm Paddle	Specimen holding temperature RT	Department: Microbiology
Plasminogen	Plasminogen	Blood	2 x Sodium Citrate (Blue top)	RT	Department: Hematology-Referred out
Plasminogen Activator Inhibitor	PAI-1 Plasminogen Activator Inhibitor	Blood	2 x Sodium Citrate (Blue top)	RT	Department: Hematology-Referred Out Notes: Fasting sample required. Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >4hrs, tube should be double spun, placed in 1 mL aliquots and sent frozen.
Pneumocystis PCR	Pneumocystis PCR	BAL/ Bronch Wash/ Sput induced/ Endotracheal tube aspirates	50 mL sterile container	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: send ASAP to lab.
Polyoma PCR (BK Virus)	Polyom Virus (BK Virus)	Plasma	6 mL EDTA (Lavender)	Specimen holding temperature -20°C or colder	Department: Microbiology-Referred Out Notes: Referring Labs: Remove plasma within 24 hours of collection. Spin sample at 3500 rpm for 30 minutes. Ship plasma frozen on wet ice.
Porphobilinogen 24 HR Urine	Porphobilinogen Quantitative Urine	24 Hour Urine - protected from light	24 hour urine container with no preservative	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Please follow 24 Hour Urine collection instructions closely. Incomplete collection may result in rejection of specimen. Measure the total volume. Transfer a 50 mL aliquot to a sterile urine container. Indicate 24 hour total volume. Protect from light.
Porphyrin 24 HR Urine	Porphyrin Quantitative Urine	24 Hour Urine	24 hour urine container with 5 gram Sodium Carbonate	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Protect from light. Measure total 24 hour volume. Transfer 50.0 mL to a sterile urine container. Quantitation may only be done if a preliminary screen is positive. Indicate 24 hour total volume and date of collection.
Porphyrin Quantitative (RBC)	Porphyrin (Blood)	Whole Blood	EDTA (Lavender)	Store and ship refrigerated	Department: Chemistry Referred Out Testing Notes: Protect from light. Do NOT centrifuge. Must be received at reference lab within 7 days.
Porphyrin Random Urine	Porphyrin Screen Urine	Random Urine	Sterile Urine Container Note: 0.5 gram Sodium Carbonate is to be added immediately upon collection. Do not add to the container before urine	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Specimen must be collected, processed and frozen within 30 minutes of collection. Final pH should be 8 to 10. Protect from light. Quantitation may only be done if the preliminary screen is positive.
Porphyrin Screen Fecal	Fecal Porphyrin Screen	Random Stool	Sterile Container	Store and ship frozen protected from light	Department: Chemistry Referred Out Testing Notes: Protect from light. Freeze within 30 minutes of collection. If screen positive, quantitative will be done.
Potassium	Electrolytes	Blood	6 mL Red/SST	RT	Department: Chemistry

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Potassium 24 Hour Urine	Potassium Level 24 Hour Urine	24 Hour Urine	24 Hour Urine Collection Container - no preservative → See notes	Refrigerate during collection	Department: Chemistry Notes: Please follow 24 Hour Urine collection instructions closely. Incomplete collection may result in rejection of specimen.
Potassium Random Urine	Potassium Level Urine	Random Urine	Plastic C&S container	RT	Department: Chemistry
Prader Willi Syndrome	DNA Analysis - PWS Prader Willi Syndrome	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred out Notes: Must arrive at QEH Lab before noon Monday–Thursday.
Prealbumin	Prealbumin	Blood	6 mL Red/SST	RT	Department: Chemistry
Pregnancy Test	Pregnancy Test Urine	Random Urine	Plastic C&S container → See notes	RT	Department: Chemistry Notes: First morning urine is best.
Pregnancy Test	Pregnancy Test Serum	Blood	6 mL Red/SST	RT	Department: Chemistry
Premature Ovarian Failure	DNA Analysis - POF Premature Ovarian Failure	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred out <mark>Notes:</mark> Must arrive at QEH Lab before noon Monday – Thursday.
Prenatal	Prenatal Work up	Blood	6 mL K2 EDTA tube	RT	Department: Blood Transfusion
Primidone	Primidone Level	Serum	6 mL Red; do not use separator gel	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Collect trough specimen just prior to next dose. Centrifuge and aliquot serum. Indicate date and time of last dose and date and time of specimen collection.
Proinsulin	Proinsulin Level	Serum	SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Collect after a 12 hour fast. Specimen must be collected, processed, aliquoted and frozen within 24 hours of collection.
Progesterone	Progesterone Level	Blood	6 mL Red/SST	RT	Department: Chemistry
Prolactin	Prolactin Level	Blood	6 mL Red/SST	RT	Department: Chemistry
Propoxyphene	Chemistry Other (Add test name in Order Comment)	Serum	6 mL Red Do NOT use SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Centrifuge and aliquot to transport tube immediately.
Propoxyphene Urine	Propoxyphene Urine	Random Urine	Sterile Urine Container	Store and ship refrigerated	Department: Chemistry Referred Out Testing Notes: Refrigerate only. Must be received at reference lab within 14 days.
Protein C Activity	Protein C Activity	Blood	2 x Sodium Citrate - Blue → See notes	RT	Department: Hematology Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >4hrs, tube should be double spun, placed in 1 mL aliquots and sent frozen.
Protein S Activity	Protein S Activity	Blood	2 x Sodium Citrate - Blue → See notes	RT	Department: Hematology Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >4hrs, tube should be double spun, placed in 1 mL aliquots and sent frozen.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
PSA (Prostate Specific Antigen)	PSA	Blood	6 mL Red/SST → See notes	RT	Department: Chemistry Notes: PSA testing is performed on men between the ages of 40 and 75 years of age. No PSA testing on females No PSA testing on males < 40 years of age PSA testing on males > 75 years only if a clinical indication including previous diagnosis of prostate cancer or evaluation of metastatic carcinoma of unknown origin.
PSA Free/Total Ratio	PSA Free/Total Ratio	Serum	6 mL Red/SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Centrifuge. Aliquot to a transport tube.
Protein - Total	Protein Total	Blood	6 mL Red/SST	RT	Department: Chemistry
Protein - Total Random Urine	Protein Urine	Random Urine	Plastic C&S container	RT	Department: Chemistry
Protein - Urine 24 Hour Urine	Protein Level 24 Hour Urine	24 Hour Urine	24 Hour Urine Collection Container - no preservative → See notes	Refrigerate during collection	Department: Chemistry Notes: Please follow 24 Hour Urine collection instructions closely. Incomplete collection may result in rejection of specimen.
Prothrombin Gene Mutation	DNA Analysis- Prothrombin Gene Mutation	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Prothrombin Time Defect	DNA Analysis- Prothrombin Time Defect	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Prothrombin time 50/50 mix	Prothrombin time 50/50 Mix PT 50/50 Mix	Blood	Sodium Citrate - Blue → See notes	RT	Department: Hematology Notes: Testing must be completed within 24hrs of collection. Tube must be filled. Hemolyzed specimens will be rejected.
PT/INR	PT (Prothrombin Time) Panel	Blood	Sodium Citrate - Blue → See notes	RT	Department: Hematology Notes: Testing must be completed within 24 hrs of collection. Tube must be filled. Hemolyzed specimens will be rejected.
PTH (Parathyroid Hormone)	PTH	Blood	6 mL Red/SST	RT	Department: Chemistry
Q Fever IgG Antibody (Coxiella)	Q Fever IgG Antibody (Coxiella)	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Q Fever IgM Antibody (Coxiella)	Q Fever IgM Antibody (Coxiella)	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Quetiapine	Chemistry Other (Add test name in Order Comment)	Serum	6 mL Red - do NOT use separator gel	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Submit trough specimen collected just prior to next dose or post-dose at a time >75% of dosing interval. Do not use gel-separator tubes. Centrifuge and aliquot serum to a transport tube.
Rabies IgG Serology	Rabies IgG Antibody	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred out
RAR	DNA Analysis- RAR alpha, Retinoic acid receptor, Translocation (15;17), t(15;17), PML- RAR gene fusion	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
RBC Folate	Folate RBC	Whole blood	3 mL EDTA (Lavender) → See notes	Store and Ship Frozen	Department: Chemistry Referred-Out Testing Notes: Hematocrit must be obtained before specimen is frozen. Requires CBC and Retic within last 30 days.
Renin (MASS)	Renin Mass	Plasma	EDTA (Lavender)	Store and ship frozen	Notes: • Patient should stop taking spironolactone or eplerenone for four to six weeks prior to testing. • Patient should be instructed to abort any reduced salt diets and consume salt ad libitum for two days prior to testing. • If hypokalemic, the patient should receive oral potassium replacement to restore eukalemia. • Oral contraceptives, corticosteroids, glucocorticoids, licorice, age, menstrual cycle and pregnancy can affect this test. Patient should be ambulatory for 30 minutes prior to blood collection. Record on requisition the posture at the time of collection (upright or supine). Separate and freeze ASAP.
Respiratory Culture	Respiratory Culture	BAL/Bronchial/ Endotracheal/ Sputum's/CF Throat/etc.	50 mL sterile container	Specimen holding temperature 4°C	Department: Microbiology
Reticulocyte Count	Reticulocyte Count	Blood	3 mL EDTA (Lavender)	RT	Department: Hematology
Retinoblastoma	DNA Analysis- Retinoblastoma	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Rheumatoid Factor	Rhematoid Factor	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology
Rickettsia Serology (Rocky Mountain Spotted Fever)		Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION				
RSV Antigen	See Influenza/RSV PCR								
Rubella IgG Antibody	Rubella IgG Antibody	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology				
Rubella IgM Antibody	Rubella IgM Antibody	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out				
Salicylate	Salicylate Level	Blood	6 mL Red/SST	RT	Department: Chemistry				
Scabies Exam	Scabies Exam	Skin Scrapings	Glass Slide in Slide holder placed in a sealed Biohazard Bag	Specimen holding temperature RT	Notes: Lesion scrapings: Submit two specimens per patient. Use a separate slide for each scraping. Patient's first and last name & MRN MUST be written on frosted end of slide in lead pencil. Drop a small button (2-3 drops) of mineral oil onto the center of a glass slide. Place a drop of mineral oil directly to several un-excoriated lesions. Firmly scrape lesions with the edge a second glass slide. Place the scraped material in the oil on the slide. Cover the material with another (clean) glass slide. Tape the slides together at their ends. Do not cover the sample area with tape. Place the slides in a slide holder, place slider holder in a biohazard bag, seal bag and transport to the laboratory along with a completed requisition. Please note that failure to follow all steps in the collection procedure may result in rejection of samples. Lab: Collection Instructions are available in the Laboratory Information Manual (LIM).				
Schistosomiasis Serology	Schistosomiasis Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out				
Selenium	Selenium Level	Plasma	Dark Blue Top (K2EDTA)	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: High concentrations of gadolinium and iodine are known to interfere with most trace element tests. If gadolinium or iodine-containing contrast media have been administered, a specimen should not be collected for 48 hours. Centrifuge within 30 minutes of collection. Do not use separator gel. Aliquot plasma to polypropylene transport tube.				
Seminal Analysis	Seminal Complete Seminal Post Vasectomy	Seminal Fluid	Sterile Container	RT Monday-Friday 8-4	Department: Immunology Notes: Must be received in lab Monday-Thursday, by 13:00. Seminal samples submitted to PCH area accepted Monday - Friday from 8-2.				

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Serotonin	Serotonin Level	Serum	6 mL Red	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Monoamine oxidase inhibitor drugs must be discontinued for at least one week prior to sampling since they tend to increase the level of serotonin. Specimen must be collected, processed, aliquoted and frozen within 30 minutes of collection.
Serum Free Light Chains	Serum Free Light Chains	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology
Serum Protein Electrophoresis	Protein Electrophoresis	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology
Sex Hormone Binding Globulin	SHBG	Serum	6 mL Red/SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Centrifuge and aliquot to transport tube.
Sickle Cell Test	Sickle Cell Screen (Hemoglobin S)	Blood	EDTA (Lavender)	RT	Department: Hematology
Sirolimus	Sirolimus Level	Whole Blood	EDTA (Lavender)	Freeze in original container, unless capillary collection - mix well and transfer into plastic transport tube.	Department: Chemistry Referred Out Testing Notes: Can be ordered as a random or 5 point (Pre, 1hr, 2hr, 3hr, 4hr, post medication). Can be done on capillary collection if necessary.
Skeletal Muscle Antibodies	Immunology Other	Blood	6 mL Red	Store and Ship Refrigerated	Department: Immunology - Referred Out
Skin Antibodies (Pemphigus)	Immunology Other	Blood	6 mL Red	Store and Ship Refrigerated	Department : Immunology - Referred Out
Skin Culture	Skin Culture	Swab of affected site	C&S Swab in Transport Media	Specimen holding temperature 4°C	Department: Microbiology Notes: Please specify site of collection.
Smear For WBCs	Smear For WBCs	Stool	Plain Stool Container	Specimen holding temperature 4°C	Department: Microbiology Notes: Must be received in Microbiology within 2 hours of collection Sunday through Saturday 8-3. Specimens received after the 2 hours will be rejected.
Smear For Yeast	Smear For Yeast	Oral/Vaginal/Vulva/Other	C&S Swab in Transport Media	Specimen holding temperature 4°C	Department: Microbiology Notes: If "other" site is collected, please specify site of
Smooth Muscle Alpha Actin / ACTA2	DNA Analysis – Smooth Muscle Alpha Actin / DNA Analysis – ACTA2	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Sodium	Electrolytes	Blood	6 mL Red/SST	RT	Department: Chemistry

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Sodium 24 Hour Urine	Sodium Level 24 Hour Urine	24 Hour Urine	24 Hour Urine Collection Container - no preservative → See notes	Refrigerate during collection	Department: Chemistry Notes: Please follow 24 Hour Urine collection instructions closely. Incomplete collection may result in rejection of specimen.
Sodium Random Urine	Sodium Level Urine	Random Urine	Plastic C&S container	RT	Department: Chemistry
Solute Carrier Family 6	DNA Analysis- SLC6A8	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Spinal Muscular Atrophy	DNA Analysis- SMA	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Stone Analysis (Calculi)	Stone Analysis Infrared Spectroscopy	Calculus	Sterile Urine Container	Store and ship refrigerated	Department: Chemistry Referred Out Testing Notes: Collection: passed, lithiasis, etc. Specimen should not routinely be submitted in liquid (formalin, urine, blood, etc.), in gauze, filters, taped or on Q-tips. Renal calculi will be accepted in a urine sample <u>if</u> absolutely necessary.
Stool Culture	Stool Culture	Stool/Rectal Swab	Stool container with Cary Blair Preservative or C&S Swab in Transport Media	Specimen holding temperature 4°C	Department: Microbiology Notes: May be collected in a Plain Stool Container if it will be Received in Microbiology within 2 hours of collection, Sunday through Saturday 8-3.
Streptococcus Pneumoniae Serology	Pneumococcal Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Streptococcus Urinary Antigen	Pneumococcal Urinary Antigen	Urine	50 mL sterile container	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Surgical Culture	Surgical Culture	Swab of affected site/Tissue/etc.	C&S Swab in Transport Media or 50 mL sterile container	Specimen holding temperature 4°C	Department: Microbiology Notes: Please specify site of collection. Call/page the Microbiology laboratory if culture processing and/or Gram stain results are requested STAT.
Surgical Pathology	Pathology Tissue	AMPUTATION (select appropriate Cerner order from drop down menu)	Container with leak-resistant lid	10% Formalin	Department: Histology Notes: After 16:30, the Porter must place specimen in refrigerator in Specimen Receiving Room. PCH: Deliver to lab. Keep at room temperature.
Surgical Pathology	Pathology Tissue	AMPUTATION-LIMB (select appropriate Cerner order from drop down menu)	Place in tote designated for transport of amputated limbs	Fresh- Transport to Histology- IMMEDIATELY	Department: Histology Notes: After hours, the Porter must place the box in the walk-in refrigerator. The requisition is either left on the counter in Specimen Receiving or brought into the Histology Lab. PCH: Deliver to lab. Store in walk-in fridge.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Surgical Pathology	Pathology Tissue	LYMPH NODE LYMPHOMA (select appropriate Cerner order from drop down menu)	QEH: Container with leak-resistant lid, on Telfa pad moistened with saline. PCH: A plastic bag is acceptable.	Fresh- Transport to Histology- IMMEDIATELY	Department: Histology Notes: Specimen(s) must be received in laboratory between 8:30 and 13:30 Monday to Thursday. Deliver directly to Histology Lab. PCH: Notify histology in advance 4288/4289. Specimen(s) must be received in laboratory between 8:30 and 10:30 Monday to Thursday.
Surgical Pathology	Pathology Tissue	LYMPH NODE (select appropriate Cerner order from drop down menu)	Container with leak-resistant lid	10% Formalin	Department: Histology Notes: After 16:30, the Porter must place specimen in refrigerator in Specimen Receiving Room. PCH: Specimens are received in histology during regular working hours from Monday to Wednesday and before 10:30 on Thursdays. Deliver to lab. Keep at room temperature.
Surgical Pathology	Pathology Tissue	MUSCLE BIOPSY (select appropriate Cerner order from drop down menu)	Container with leak-resistant lid, on Telfa pad moistened with saline	Fresh- Transport to Histology- IMMEDIATELY	Department: Histology Notes: Specimen(s) must be received in laboratory between 8:30 and 13:30 Monday to Thursday. Deliver directly to Histology Lab.
Surgical Pathology	Pathology Head and Neck	ALL HEAD AND NECK SITES (select appropriate Cerner order from drop down menu)	Container with leak-resistant lid	10% Formalin	Department: Histology Notes: After 16:30, the Porter must place specimen in refrigerator in Specimen Receiving Room. PCH: Deliver to lab. Keep at room temperature.
Surgical Pathology	Pathology Skin	ALL SKIN AND SUBCUTANEOUS SITES (select appropriate Cerner order from drop down menu)	Container with leak-resistant lid	10% Formalin	Department: Histology Notes: After 16:30, the Porter must place specimen in refrigerator in Specimen Receiving Room. PCH: Deliver to lab. Keep at room temperature.
Surgical Pathology	Pathology Bone Marrow	ALL BONE MARROW SPECIMENS (select appropriate Cerner order from drop down menu)	Container with leak-resistant lid	10% Formalin	Department: Histology Notes: After 16:30, the Porter must place specimen in refrigerator in Specimen Receiving Room. PCH: Deliver to lab. Keep at room temperature.
Surgical Pathology	Pathology Breast	LUMPECTOMY (select appropriate Cerner order from drop down menu)	Container with leak-resistant lid	Fresh or 10% Formalin at Room Temperature- Transport to Histology- IMMEDIATELY	Department: Histology Notes: Please notify the laboratory (2339) when specimen is en route. Deliver directly to Histology Lab. Pathologist on call must be called after 16:30. PCH: Call 4288. After hours notify the technologist on duty.
Surgical Pathology	Pathology Breast	LUMPECTOMY WITH WIRE LOCALIZATION (select appropriate Cerner order from drop down menu)	Contained within a plastic bag	Fresh- Transport to Histology- IMMEDIATELY	Department: Histology Notes: Specimen(s) should be received in laboratory between 8:30 and 16:30 Monday to Friday. Please notify the laboratory (2339) when specimen is en route. Deliver directly to Histology Lab. Pathologist on call must be called after 16:30. PCH: Call 4288. After hours notify the technologist on duty.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Surgical Pathology	Pathology Breast	MASTECTOMY (select appropriate Cerner order from drop down menu)	Container with leak-resistant lid	Fresh or 10% Formalin at Room Temperature- Transport to Histology- IMMEDIATELY	Department: Histology Notes: Please notify the laboratory (2339) when specimen is en route. Deliver directly to Histology Lab. Pathologist on call must be called after 16:30. PCH: Call 4288. After hours notify the technologist on duty.
Surgical Pathology	Pathology Breast	NEEDLECORE BIOPSY (select appropriate Cerner order from drop down menu)	Container with leak-resistant lid	10% Formalin	Department: Histology Notes: After 16:30, the Porter must place specimen in refrigerator in Specimen Receiving Room. PCH: Deliver to lab. Keep at room temperature.
Surgical Pathology	Pathology Breast	REDUCTION (select appropriate Cerner order from drop down menu)	Container with leak-resistant lid	10% Formalin	Department: Histology Notes: After 16:30, the Porter must place specimen in refrigerator in Specimen Receiving Room. PCH: Deliver to lab. Keep at room temperature.
Surgical Pathology	Pathology Gynecological	FETAL TISSUE for Cytogentics Testing (piece of amnion, skin, or cartilage from costral/chondral junction)	Container with leak-resistant lid, with RPMI transport medium (available from lab)	Fresh- Transport to Histology- IMMEDIATELY	Department: Histology Notes: Deliver directly to Histology Lab. If collected after hours between Sunday and Thursday morning, store at room temperature. From Thursday evening through to Saturday, place specimen in refrigerator.
Surgical Pathology	Pathology Urology	KIDNEY-NEEDLECORE (select appropriate Cerner order from drop down menu)	Container with leak-resistant lid, or a sealed bag between two Telfa pads moistened with saline	Fresh- Transport to Histology- IMMEDIATELY	Department: Histology Notes: Specimen(s) must be received in laboratory between 8:30 and 13:30 Monday to Thursday. Deliver directly to Histology Lab.
Surgical Pathology	Pathology Urology	KIDNEY (select appropriate Cerner order from drop down menu)	Container with leak-resistant lid	10% Formalin	Department: Histology Notes: After 16:30, the Porter must place specimen in refrigerator in Specimen Receiving Room.
Surgical Pathology	Pathology Urology	PROSTATE TISSUE (select appropriate Cerner order from drop down menu)	Container with leak-resistant lid	10% Formalin	Department: Histology Notes: After 16:30, the Porter must place specimen in refrigerator in Specimen Receiving Room.
Surgical Pathology	Pathology Urology	PROSTATE-NEEDLECORE (select appropriate Cerner order from drop down menu)	Container with leak-resistant lid	10% Formalin	Department: Histology Notes: After 16:30, the Porter must place specimen in refrigerator in Specimen Receiving Room. PCH: Deliver to lab. Keep at room temperature.
Surgical Pathology	Pathology Gastrointestinal	ABDOMINAL SURGURY (select appropriate Cerner order from drop down menu)	Container with leak-resistant lid	10% Formalin	Department: Histology Notes: Large Specimens with known or suspected cancer, need to be sliced upon arrival in the laboratory. Please notify the lab (2339/2338) or after 16:30, the Pathologist on call, when specimen is en route. PCH: Call 4288. After hours notify the technologist on duty.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Surgical Pathology	Pathology Endoscopy	ALL ENDOSCOPIC PROCEDURES incl. Lung & G.I. (select appropriate Cerner order from drop down menu)	Container with leak-resistant lid	10% Formalin	Department: Histology Notes: After 16:30, the Porter must place specimen in refrigerator in Specimen Receiving Room. PCH: Deliver to lab. Keep at room temperature.
Strongyloidiasis	Strongyloidiasis Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Sweat Chloride	Sweat Chloride Analysis	Sweat	→ See notes	N/A	Department: Chemistry Note: This is a specialized procedure performed at the QEH Laboratory. Please contact the lab at 894-2324 for information and to book an appointment.
Syphilis Antibody Screen	Syphilis Antibody Screen	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology
Syphilis-CSF	Orderable is: Misc Microbiology Order. Specimen type: Misc Micro Source Body Site: See Free text, Free text Source: type in test requested (Syphilis-CSF)	CSF	Sterile screw capped CSF container	Specimen holding temperature 2-8°C for up to 48 hours	Department: Microbiology-Referred Out Notes: Syphilis CSF testing is only performed if there is a positive syphilis serology result.
T-Cell Clonality	T-Cell Receptors, T-Cell Lymphoid Clonality, T-cell gene rearrangement, TCR beta chain, Lymphoma protocol	Blood or Bone Marrow	Blood: Adult/Children: 2 x 6 mL EDTA (Lavender) Bone Marrow: 1 - 2 mL in an EDTA (Lavender) tube	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Tacrolimus	Tacrolimus Level	Whole Blood	2 x EDTA (Lavender)	Specimen holding temperature 4°C	Department: Chemistry - PCH Notes: Trough whole blood should be collected before medication. Can be ordered as a random, 1 point (2 hr post med) or 5 point (Pre, 1hr, 2hr, 3hr, 4hr post med). Note date and time of last dose on requisition. Can be done on capillary collection if necessary.
Testosterone	Testosterone Level Total	Blood	6 mL Red/SST	RT	Department: Chemistry
Tetanus Toxoid IgG Serology	Tetanus Toxoid IgG Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Theophylline	Theophylline Level	Blood	6 mL Red/SST → See notes	RT	Department: Chemistry Notes: Trough: Collect sample 0-30 minutes prior to next dose. Peak IV: Collect sample 30 minutes after completion of IV infusion. Peak Oral: Collect sample 2 hours after ingestion of oral liquids and immediate-release tablets. Collect 3-7 hours after ingestion of sustained-release medication.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Throat Culture	Throat Culture	Throat/Throat CF/Tonsil	C&S Swab in Transport Media	Specimen holding temperature 4°C	Department: Microbiology
Thrombin Time	Thrombin Time	Blood	Sodium Citrate - Blue → See notes	RT	Department: Hematology Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >4hrs, spin, separate and freeze plasma. Send frozen.
Thyroglobulin	Thyroglobulin	Serum	6 mL Red/SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Separate serum within 5 hours of collection.
Thyroid Peroxidase Antibodies	Immunology Other	Blood	6 mL Red	Store and ship refrigerated	Department: Immunology - Referred Out
TSH (Thyroid-Stimulating Hormone)	TSH	Blood	6 mL Red/SST	RT	Department: Chemistry
TSH - Newborn	TSH - Newborn	Blood	Neonate:Capillary microtainer	RT	Department: Chemistry
TIBC	FE/TIBC	Blood	6 mL Red/SST	RT	Department: Chemistry
			→ See notes		Notes: Serum iron concentrations show significant variation throughout the day, being lower in the afternoon than in the morning and quite low in the evening.
Tip Culture	Tip Culture	Cath Tip/Central Line Tip (ie. intravenous catheter tips)	50 mL sterile container	Specimen holding temperature 4°C	Department: Microbiology Notes: Urinary-type catheter tips are not acceptable specimens for culture.
Tissue Culture	Tissue Culture	Tissue	50 mL sterile container	Specimen holding temperature 4°C	Department: Microbiology Notes: Please specify tissue type/site of collection. Transport specimen to the Microbiology laboratory as soon as possible after collection. Call/page the Microbiology laboratory if culture processing and/or Gram stain results are requested STAT.
Tissue Transglutaminase (TTG, Celiac Screen)	Tissue Transglutaminase	Blood	6 mL Red	Store and ship refrigerated	Department: Immunology
Tobramycin	Tobramycin Level	Blood	6 mL Red/SST → See notes	RT	Department: Chemistry Notes: Trough: Collect sample 0-30 minutes prior to next dose. Peak IV: Collect sample 30-60 minutes after completion of IV infusion. Extended interval dosing: Collect sample 6 hours prior to next dose.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION	
Topiramate	Topiramate Level	Serum	6 mL Red Do NOT use SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Note date and time of last dose on requisition. Centrifuge and aliquot serum to a transport tube ASAP.	
Toxocara IgG Antibody	Toxocara IgG Antibody	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out	
Toxocara IgM Antibody	Toxocara IgM Antibody	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out	
Toxoplasma IgG Antibody	Toxoplasma IgG Antibody	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out	
Toxoplasma IgM Antibody	Toxoplasma IgM Antibody	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out	
Transfusion Reaction Investigation	Transfusion Reaction Investigation	Blood	6 mL Red- no additives 6 mL K2 EDTA tube	RT	Department: Blood Transfusion	
Trichinosis Serology	Orderable is: Misc Microbiology Order. Specimen type: Misc Micro Source Body Site: See Free text, Free text Source: type in test requested (Trichinosis Serology)	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out	
Trichomonas Prep	Trichomonas Prep	Vaginal/Vulva	C&S Swab in Transport Media	Specimen holding temperature 4°C	Department: Microbiology Notes: Must be received in Microbiology within 2 hours of collection, Sunday through Saturday 8-3.	
Trichomonas PCR	Trichomonas PCR	Cervix/Endocervix, Vaginal and Urine	BD MAX UVE Buffer Tube	Specimen holding temperature 4°C	Department: Microbiology Notes: 1mL of Urine must be placed in the BD MAX UVE buffer tube within 24hrs of collection.	
Tricyclic Antidepressant Screen	TCA Screen	Blood	6 mL Red/SST	RT	Department: Chemistry	
Triglyceride-TPN	See Lipid Emulsion					
Trileptal	Trileptal	Serum	6 mL Red → See notes	Store and Ship Frozen	Department: Chemistry Referred-Out Testing Notes: Specimens will be rejected if collected in a gel-barrier tube.	
Troponin I	Troponin-l	Blood	6 mL green	RT	Department: Chemistry	

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION &	ADDITIONAL INFORMATION
				STORAGE	
Trypanosomiasis Serology	Orderable is: Misc	Serum	6 mL Red/SST	Specimen holding	Department: Microbiology-Referred Out
	Microbiology Order			temperature 2-8°C	
	Specimen type: Misc				
	Micro Source Body Site: See Free text, Free text				
	Source: type in test				
	requested				
	(Trypanosomiasis				
	Serology)				
Trypsin	Chemistry Other	Serum	6 mL Red/SST		Department: Chemistry Referred-Out Testing
	(Add test name in Order			Store and Ship Frozen	Notes: Separate from cells within 2 hours. Centrifuge, transfer
	Comment)			Constant Sing Trees.	serum to a transport tube.
Tryptase	Tryptase	Serum	6 mL Red - do NOT use separator gel	Store and ship frozen	Department: Chemistry Referred Out Testing
					Notes: Specimen collection timing is critical. Sample
					preferably should be taken between 15 minutes to 3 hours
					after the suspected anaphylactic event. Centrifuge and aliquot
I II a a Cultura	I II a a Code on	Describ / Dishertis III see	COC County in Transport Mandia	Consider on halding	to a transport tube.
Ulcer Culture	Ulcer Culture	Decub/Diabetic Ulcer	C&S Swab in Transport Media	Specimen holding	Department: Microbiology
				temperature 4°C	Notes: Please specify type of ulcer and site of collection.
Urea	Urea Level	Blood	6 mL Red/SST	RT	Department: Chemistry
Urea 24 Hour Urine	Urea Level 24 Hour Urine	24 Hour Urine	24 Hour Urine Collection Container -	Refrigerate during collection	Department: Chemistry
			no preservative		
			→ See notes		Notes: Please follow 24 Hour Urine collection instructions
					closely. Incomplete collection may result in rejection of
Harania ana BCD (Carital)		Variable was 1 Comission was 1 Fords as wisel	COCCOURT IN THE PROPERTY AND AREA	Consider on healthing	specimen.
Ureaplasma PCR (Genital)	Genital PCR	Vaginal swab/ Cervical swab/ Endocervical swab/ Urethra swab/ penis swab/ Rectal swab/	C&S Swab in Transport Media or	Specimen holding temperature 2-8°C (VTM	Department: Microbiology-Referred Out ☑
	Geriilai PCK	•	Swab in Viral Transport Media (VTM) [can be stored at -20°C or	
			Swab iii viiai iiaiisport Media (v iivi) L	colder)	
		Uring	FO mil starila containar	Specimen holding	Department, Microbiology, Deferred Out 5
		Urine	50 mL sterile container	temperature 2-8°C	Department: Microbiology-Referred Out <a>□
Urea Random Urine	Urea Level Urine	Random Urine	Plastic C&S container	RT	Department: Chemistry
Uric Acid	Urate	Blood	6 mL Red/SST	RT	Department: Chemistry
Uric Acid 24 Hour Urine	Urate Level 24 Hour Urine	24 Hour Urine		Refrigerate during collection	·
			no preservative	5	
			→ See notes		Notes: Please follow 24 Hour Urine collection instructions
					closely. Incomplete collection may result in rejection of
					specimen.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Uric Acid Random Urine	Urate Level Urine	Random Urine	Plastic C&S container	RT	Department: Chemistry
Urinalysis	Urinalysis	Random Urine	Plastic C&S container → See notes	RT	Department: Chemistry Notes: Send specimen immediately for analysis. Microscopic analysis will not be performed on specimens greater than 4 hours old.
Urine Culture	Urine Culture	Urine	50 mL sterile container	Specimen holding temperature 4°C	Department: Microbiology
Urine Protein Electrophoresis	Urine Protein Electrophoresis	Urine	Random or 24 hour		Department: Immunology
Urine Toxicology Confirmatory Testing	Urine Toxicology Confirmatory Testing	Urine	Sterile Urine Container	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Freeze urine in sterile container. Complete Urine Drug Screen Confirmatory Testing Form
Valproate			See Valproic Acid		
Valproic Acid	Valproic Acid Level	Blood	6 mL Red/SST	RT	Department: Chemistry
Vancomycin	Vancomycin Level Pre or Vancomycin Level Post	Blood	6 mL Red/SST → See notes	RT	Department: Chemistry Notes: Trough: Collect sample 0-60 minutes prior to next dose. Peak: Collect sample 60-90 minutes after end of infusion.
Vanillylmandelic Acid (VMA)	VMA 24 Hour Urine	24 hour Urine	24 hour urine container with 25 mL HCl as a preservative.	Store and ship refrigerated	Notes: Diet and drug restrictions: To be avoided for 48 hours: ASA, chloralhydrate, coffee, cola drink, dopamine, erythromycin, methyldopa, niacin, phenothiazines, quinidine, quinine, riboflavin, smoking, tea, tetracycline, vitamin B. To be avoided for 72 hours: avocados, bananas, chocolate, eggplant, fruit and juice, hypertensive drugs (especially aldomet), pineapples, plums, Tylenol (acetaminophen), walnuts. Note: coffee, cola drinks, tea, smoking are considered drugs. Measure the total volume of the 24 hour collection. Note total volume and Date and Time of Collection on requisition. Transfer 50 mL to a sterile container. Must deliver to reference lab within 21 days. Always cancel VMA unless it is for a pediatrician
Varicella IgG Antibody	Varicella Zoster IgG Antibody	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology Notes: STAT testing is available for pregnant women or patients with known exposure. Please call the microbiology laboratory if requesting stat testing.
Varicella IgM Antibody	Varicella Zoster IgM Antibody	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Varicella PCR (CSF)	Varicella PCR (CSF)	CSF	Sterile screw capped CSF container	Specimen holding temperature 4°C	Department: Microbiology-Referred Out
Vasculitis (ANCA)	Vasculitis	Blood	6 mL Red	Store and ship refrigerated	Department: Immunology
Vasoactive Intestinal Polypeptide (VIP)	Chemistry Other (Add test name in Order Comment)	Plasma	6 mL EDTA (Lavender)	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Patient must not have received radioactive substances 24 hours prior to test. Patient must fast 8 hours prior to collection. Specimen must be collected, processed, aliquoted and frozen within 30 minutes of collection. Sample must not thaw.
Venlafaxine	Urine Toxicology Confirmatory Testing	Random Urine	Sterile Urine Container	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Freeze urine in sterile container. Complete Urine Drug Screen Confirmatory Testing Form.
Viral Respiratory Panel	Viral Respiratory Panel	Nasopharyngeal/Throat swab Aspirates/Lower Respiratory Nasopharyngeal Aspirate	Viral Swab (Nasopharyngeal/Throat swab) 50 ml sterile container (aspirates/lower respiratory) 5 – 10 mL Nasopharyngeal Aspirate – visible	Specimen holding temperature 4°C	Department: Microbiology-Referred Out Notes: Test includes: Adenovirus, Influenzae virus types A and B, Parainfluenzae virus types I, II and III, Coronavirus, Respiratory Syncytial virus (RSV), Bocavirus and Human Metapneumovirus.
Viral Respiratory Screen	Viral Respiratory Screen	Nasopharyngeal/Throat swab Aspirates/Lower Respiratory Nasopharyngeal Aspirate 🛭	Viral Swab (Nasopharyngeal/Throat swab) 50 ml sterile container (aspirates/lower respiratory) 5 – 10 mL Nasopharyngeal Aspirate – visible sample in tubing	Specimen holding temperature 4°C	Department: Microbiology-Referred Out Notes: Test includes: Influenzae virus types A and B, Respiratory Syncytial virus (RSV).
Viscosity	Viscosity	Blood	6 mL red	Store and ship refrigerated	Department: Immunology
Vitamin A	Vitamin A Level	Serum	6 mL Red/SST	Store and ship frozen - protected from light	Department: Chemistry Referred Out Testing Notes: Fasting specimen preferred. Collect after a 12 hr fast. Patient should be without vitamin supplements and abstain from alcohol for 24 hours prior to testing. Centrifuge and separate serum within 30 minutes. Aliquot serum to a transport tube. Avoid hemolysis. Protect from light.
Vitamin B1	Thiamine-Vitamin B1 Level	Whole Blood	EDTA (Lavender)	Store and ship frozen - protected from light	Department: Chemistry Referred Out Testing Notes: Specimen should be collected before breakfast in the am and prior to any medication. Do NOT centrifuge. Specimen for this test must be collected, processed and frozen within 30 minutes of collection. Protect from light.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Vitamin B6	Vitamin B6	Plasma	EDTA (Lavender)	Store and ship frozen - protected from light	Department: Chemistry Referred Out Testing Notes: Patient must avoid dietary vitamin B6 on the day of collection. Specimen must be collected, processed, aliquoted and frozen within 30 minutes of collection. Protect from light. Centrifuge and aliquot plasma to transport tube.
Vitamin B12	Vitamin B12 Level	Blood	6 mL Red/SST	RT	Department: Chemistry
Vitamin C	Vitamin C	Serum	SST	Store and ship frozen - protected from light	Department: Chemistry Referred Out Testing Notes: Specimen must be collected, processed, aliquoted and frozen within 45-60 minutes of collection. PROTECT FROM LIGHT.
Vitamin D 1,25 Dihydroxy	Vitamin D 1,25 Dihydroxy Level	Serum	6 mL Red/SST	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Specimen for this test must be collected, processed, aliquoted and frozen within 30 minutes of collection. Centrifuge and aliquot plasma to a transport tube.
Vitamin D-25 OH	Vitamin D 25 Hydroxy Level	Blood	6 mL Red/SST	RT	Department: Chemistry Notes: One or more clinical indications must be met and provided with sample prior to testing.
Vitamin E	Vitamin E Level	Serum	6 mL Red → See notes	Store and Ship Frozen	Department: Chemistry Referred-Out Testing Notes: Fasting specimen preferred. Patient should fast for 12 hours and abstain from alcohol for 24 hours prior to collection. Patient should be without vitamin supplementation for 24 hours prior to testing. Centrifuge & separate from cells within 45-60 minutes of collection. PROTECT FROM LIGHT.
Vitamin K	Vitamin K Level	Plasma	EDTA (Lavender)	Store and ship frozen - protected from light	Department: Chemistry Referred Out Testing Notes: Fasting specimen required. Collect after an 8hr fast. Patient should refrain from eating liver or taking multivitamins or Vitamin K at least 24 hrs before sample collection. For infants, draw prior to next feeding. Centrifuge and separate serum within 1 hr of collection. Aliquot serum to a transport tube. If unable to centrifuge immediately, sample should be covered with aluminum foil and immediately placed on ice until plasma can be separated from the cells. Avoid hemolysis Protect from light.
Von Hippel-Lindau Disease	DNA Analysis - VHL	Blood	Adult/Children: 2 X 6 mL EDTA (Lavender) Nursery: 1 X 3 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Von Willebrand's Multimer Analysis	VWD Multimer Analysis	Blood	3 x Sodium Citrate - Blue → See notes	RT	Department: Hematology-Referred Out Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >4hrs, tube should be double spun, placed in 1 mL aliquots and sent frozen.
Von Willebrand's Panel	Factor VIII Assay Referred, VWD Antigen Assay, VWD Activity Ristocetin cofactor Assay	Blood	3 x Sodium Citrate - Blue → See notes	RT	Department: Hematology-Referred Out Notes: Tube must be filled. Hemolyzed specimens will be rejected. If delay in transport >4hrs, tube should be double spun, placed in 1 mL aliquots and sent frozen.
Voriconazole	Voriconazole Level	Plasma	Green Top (Heparin)	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Collect 0-30 minutes prior to dose. Centrifuge and aliquot plasma to a transport tube.
VRE Screen	VRE Screen	Stool/Rectal Swab	C&S Swab in Transport Media or Plain Stool container.	Specimen holding temperature 4°C	Department: Microbiology Notes: VRE Screens are only processed on in limited situations: ICU/CCU patients, provincial renal dialysis program, and/or requested by an infection control professional.
West Nile Serology	West Nile Elisa Serology	Serum	6 mL Red /SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
West Nile PCR	West Nile PCR	Plasma* *See notes or Serum or CSF	**6 mL EDTA (Lavender) or 6 mL Red/SST or Sterile screw capped CSF container	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out Notes: **Plasma is the preferred specimen however testing can be performed on blood (serum) or CSF.
Wilson's Disease	DNA Analysis – Wilson's Disease	Blood	2 x 6 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.
Worm Exam	Worm Exam	Worms	50 mL sterile container or SAF Container	Specimen holding temperature RT	Department: Microbiology Notes: Referral Lab: please add SAF to sterile container if received.
Wound Culture	Wound Culture	Swab of affected site	C&S Swab in Transport Media	Specimen holding temperature 4°C	Department: Microbiology Notes: Please specify type of wound and/or site of collection.
X-Inactivations	DNA Analysis - X- Inactivations	Blood	Adult/Children: 2 X 6 mL EDTA (Lavender) Nursery: 1 X 3 mL EDTA (Lavender) → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday – Thursday.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
X-Microdeletions	DNA Analysis - X- Microdeletions	Blood	Adult/Children: 2 X 3 mL EDTA Nursery: 6 mL EDTA → See notes	RT	Department: Hematology-Referred Out Notes: Must arrive at QEH Lab before noon Monday–Thursday.
Yersinia Serology	Yersinia Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Zika Virus PCR	Zika PCR	Serum (collected 10-14 days following symptom onset) or Urine (collected 10-14 days following symptom onset)	6 mL Red/SST Urine: 50 mL Sterile container	Specimen holding temperature serum at -20°C urine at 2-8°C for up to 48 hours	Department: Microbiology-Referred Out
Zika Virus Serology	Zika Serology	Serum	6 mL Red/SST	Specimen holding temperature 2-8°C	Department: Microbiology-Referred Out
Zinc 24 HR Urine	Urine Other (Add test name in Order Comment)	24 hour urine	24 hour urine container with no preservative	Store and ship refrigerated	Department: Chemistry Referred Out Testing Notes: Patients should discontinue nutritional supplements, vitamins and minerals. High concentrations of gadobutrol, gadodiamide, ioversol and iodixanol are known to interfere with most trace elements. If gadobutrol, gadodiamide, ioversol or iodixanol-containing contrast media have been administered, a specimen should not be collected for 48 hours. Measure the total volume of the 24 hour collection. Note total volume and date and time of collection on requisition. Transfer 50 mL to a sterile ORANGE-CAPPED container.
Zinc Plasma	Zinc Level	Plasma	Dark Blue Top (K2EDTA)	Store and ship frozen	Department: Chemistry Referred Out Testing Notes: Patients should discontinue nutritional supplements, vitamins and minerals. High concentrations of gadobutrol, gadodiamide, ioversol and iodixanol are known to interfere with most trace elements. If gadobutrol, gadodiamide, ioversol or iodixanol-containing contrast media have been administered, a specimen should not be collected for 48 hours. Centrifuge. Separate serum from cells immediately. Aliquot plasma to a transport tube.
Zinc Protoporphyrin	Zinc Protoporphyrin	Whole Blood	EDTA (Lavender)	Store and ship refrigerated	Department: Chemistry Referred Out Testing Notes: Protect from light. Do NOT centrifuge. Must be received at reference lab within 7 days.

TEST	CERNER ORDERABLE	SPECIMEN TYPE	Container	TRANSPORTATION & STORAGE	ADDITIONAL INFORMATION
Zinc Random Urine	Zinc Random Urine	Random Urine	Sterile ORANGE -CAPPED Urine Container		Department: Chemistry Referred Out Testing Notes: Patients should discontinue nutritional supplements, vitamins and minerals. High concentrations of gadobutrol, gadodiamide, ioversol and iodixanol are known to interfere with most trace elements. If gadobutrol, gadodiamide, ioversol or iodixanol-containing contrast media have been administered, a specimen should not be collected for 48 hours.
Zopiclone	Urine Toxicology Confirmatory Testing	Random Urine	Sterile Urine Container		Department: Chemistry Referred Out Testing Notes: Freeze urine in sterile container. Complete Urine Drug Screen Confirmatory Testing Form