

| Test Name | Laboratory | Specimen Type | Test Schedule | Reference Range | Effective Date | Comments |
|-----------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------|----------------|----------------------------------|
| L-Asparaginase Asparaginase Activity | Core | 4 mL Lavender top Vacutainer tube L- ASPARAGINAS E REQUISITION | Referred out Monday- Thursday | See report | 2019-02-13 | |
| Lactate Dehydrogenase Isoenzymes (serum) LD Isoenzymes | Test not available | | Test no longer available effective February 1, 2001. | | | |
| Lactate Dehydrogenase,Fluid | Core | Fluid GENERAL LABORATORY REQUISITION | As required | See report | 2010-05-17 | Hemolysis may affect results. |

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| Lactate Dehydrogenase, Plasma LDH LD | Core | 4.5 mL Green (Lithium Heparin) top Vacutainer Pediatric: 0-2 yrs: Green top Microtainer (BD 365985) 2-10 yrs: 2 mL Green top GENERAL LABORATORY REQUISITION | As required | Children: 0-20 days: <600 U/L 21 days-15 years: 300 U/L Adult: Male (>15 years): <225 U/L Female (>15 years): <214 U/L | 2008-11-15 | Hemolysis may cause falsely elevated results. Increases occur due to necrosis of liver, skeletal muscle, red blood cells, bone marrow and malignancies. Very non-specific. In healthy children, levels may be elevated up to 800 IU/L. |
| Lactate, CSF | Core | CSF GENERAL LABORATORY REQUISITION | As required | See report | | RBC hemolysis may cause interference (xanthochromia) with results. |

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| Lactate, Plasma | Core UH & VH | 6 mL Grey top Vacutainer tube Pediatric: 2-10 yrs: 2 mL Grey top Microtainer (BD 365992) GENERAL LABORATORY REQUISITION | As required | 0.50-2.20 mmol/L | 2008-11-15 | Hemolyzed, lipemic and icteric samples may cause interference with results. Increased in sustained hypoxia and several metabolic disorders. Lactic acidosis is a frequent cause of increased anion gap. Centrifuge and separate plasma within 15 minutes of blood collection. |
| Lactate: Pyruvate Ratio (see <u>Pyruvate, Whole Blood</u>) | | | | | | |
| Lactate:Pyruvate Ratio (see <u>Pyruvate, CSF</u>) | | | | | | |
| Lamictal (see <u>Lamotrigine, Serum</u>) | | | | | | |
| Lamotrigine, Serum Lamictal | Toxicology/Special Chemistry | 6 mL Red top Vacutainer tube or 4.5 mL Green (Lithium Heparin) top Vacutainer tube GENERAL LABORATORY REQUISITION | Once per week | 4.0-39.0 µmol/L | | |

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| Lanoxin (see <u>Digoxin</u>) | | | | | | |
| LATS (see <u>Anti-Thyroid Stimulating Hormone Receptor Antibodies, Serum</u>) | | | | | | |
| LBP (see <u>Gynaecological Liquid Based PAP test for Cytology, HPV testing, for Gynaecological Liquid Based PAP test (Cytology),</u>) | | | | | | |
| LCFA (see <u>Long Chain Fatty Acids,Plasma/Serum</u>) | | | | | | |
| LD (see <u>Lactate Dehydrogenase,Plasma</u>) | | | | | | |
| LD Isoenzymes (see <u>Lactate Dehydrogenase Isoenzymes (serum)</u>) | | | | | | |
| LDH (see <u>Lactate Dehydrogenase,Plasma</u>) | | | | | | |
| LDL (see <u>Cholesterol-LDL,Plasma</u>) | | | | | | |
| Lead, Erythrocytes | Trace Elements | Reference number 368381 - HMMS# 11073 - 6mL K2-EDTA Royal Blue Vacutainer tube TRACE ELEMENTS REQUISITION | Batched analysis | SI Units (Reported on Patient Chart): 0.00-0.18 µmol/L Conventional Units: 0.0-36.8 µg/L | | Reference Ranges are based on Non-Occupationally exposed population. Find Interpretive Comment and Clinical Information here: |
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| Lead,Urine | Trace Elements | 24 hour urine collected in an unused 24 hour urine container or random urine TRACE ELEMENTS REQUISITION | Batched analysis | <u>SI Units:</u> Random Urine: 0-14.5 nmol/L µmol/mol creatinineAgeFe maleMale0-110-1.720-1.6512-190-1.050-1.0220-290-1.190-0.9030-390-1.430-1.0640-490-1.700-1.1150-590-2.010-1.2860-690-1.980-1.3470-790-2.070-1.45≥800-2.540-1.65 24 Hour Urine: 0-19.3 nmol/d <u>Conventional Units:</u> Random Urine: 0-3.0 µg/L (more...) | | Reference Ranges are based on Non-Occupationally exposed population. Find Interpretive Comment and Clinical Information here: |

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| Lead,Whole blood | Trace Elements | Reference number 368381 - HMMS# 11073 - 6mL K2-EDTA Royal Blue Vacutainer tube TRACE ELEMENTS REQUISITION | Batched analysis | <u>SI Units</u> (Reported on Patient Chart): Reference Range All ages: 0.00-0.10 µmol/L Alert Value: 0-16 years:>0.12 µmol/L Action Value: 0-16 years:>0.48 µmol/L >=17 years:>1.00 µmol/L <u>Conventional Units:</u> Reference Range All ages:0.0-20.0 µg/L Alert Value: 0-16 years:>25.0 µg/L Action Value: 0-16 years:>100.0 µg/L >=17 (more...) | | Reference Ranges are based on Non-Occupationally exposed population. Find Interpretive Comment and Clinical Information here: |

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| Leber's Hereditary Optic Neuropathy LHON | Molecular Diagnostics | Whole blood-2 x 4 mL Lavender EDTA top Vacutainer tube MOLECULAR DIAGNOSTIC REQUISITION | As Required Monday - Friday 0800 - 1600 h | See report | | <p>For more information click on: Molecular Diagnostic Laboratory N/A</p> <p>Please note that these samples will be subjected to direct mutational analysis which may not account for all cases of the disease diagnosed.</p> <p>Further information will be supplied with the test result.</p> <p><u>Analysis:</u> Lebers hereditary optic neuropathy (LHON), is a maternally inherited disease resulting in optic nerve degeneration and cardiac dysrhythmia¹. Three mitochondrial DNA point mutations (nt.#3460G>A, nt.#11778G>A and nt.#14484T>C (more...))</p> |

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| Leflunomide Arava Teriflunomide | Core (VH) | 6 mL Red top or 4 mL Lavender (EDTA) top Vacutainer tube GENERAL LABORATORY REQUISITION | Weekly, test is performed on Thursdays | 50-100 ug/mL Note: For couples planning a pregnancy, confirmation of teriflunomide concentrations (either father or mother receiving therapy) of <0.02 ug/mL in two separate tests at least 14 days apart is highly recommended. | 2013-05-27 | If the results are to be faxed back from the referral laboratory, please indicate so clearly on the request. |
| Legionella Antigen Detection | Microbiology (VH) | Urine PUBLIC HEALTH LABORATORY TEST REQUISITION | Referred out weekdays to Public Health Laboratory | | 2006-07-01 | |

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| Legionella Culture | Microbiology (VH) | Respiratory (suctioned sputum, tracheal aspiration or bronchial wash) Fluids (CSF, pericardial, peritoneal, pleural) Tissue (liver, lung, renal) Wounds or Abscess Material MICROBIOLOGY REQUISITION | Daily | | | |
| Legionella Serology | Microbiology (VH) | Blood-5mL Gold or 6 mL Red top Vacutainer tube PUBLIC HEALTH LABORATORY TEST REQUISITION | Referred out weekdays to Public Health Laboratory | | 2006-07-01 | Provide clinical history. |
| Leishmania (see <u>Ova and Parasites-Blood and Tissue</u>) | | | | | | |
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| Leishmaniasis Serology | Microbiology (VH) | Blood-5 mL Gold or 6 mL Red top Vacutainer tube PUBLIC HEALTH LABORATORY TEST REQUISITION | Referred weekly to the National Reference Centre for Parasitology | | 2010-09-13 | Adequate clinical and epidemiological information must accompany specimen. |
| Leptospirosis Serology Weil's Disease | Microbiology (VH) | Blood-5 mL Gold or 6 mL Red top Vacutainer tube PUBLIC HEALTH LABORATORY TEST REQUISITION | Referred out weekly to National Microbiology Laboratory | | 2009-02-22 | |
| Lesch-Nyhan Syndrome (see <u>Hypoxanthine-Guanine Phosphoribosyl Transferase, Whole blood</u>) | | | | | | |
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| Leukemia/Lymphoma Investigation | Flow Cytometry (VH) | <p>Bone marrow collected in K₂ EDTA (preferred for Acute Leukemia and Lymphoma) or Peripheral blood collected in a 4 mL Lavender K₂ EDTA top Vacutainer tube (preferred for Chronic Leukemia) Referred-In Samples: FLOW CYTOMETRY REQUISITION</p> | <p>Monday-Friday 0800-1600 Fridays or prior to STAT holidays, routine specimens must be received in the Flow Cytometry Laboratory at Victoria Hospital by 1300. For after hours and weekend requests, page the Hematologist on-call at (519) 685-8500 x 14999.</p> | <p>See report * For new acute leukemia patients, preliminary results are communicated to the attending physician immediately upon completion of analysis with approval from the Hematopathologist or designate on the same day as the sample is received.</p> | 2006-06-01 | |
| Leukocyte Count (LKC) (see <u>Complete Blood Count</u>) | | | | | | |
| Leukocyte Cystine (see <u>Cystine, Leukocyte</u>) | | | | | | |
| Leukocytes,Urine | Core | Random urine GENERAL LABORATORY REQUISITION | As required | 0 cells/uL | | |

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| Levetiracetam Keppra | Core | 6 mL Red top Vacutainer tube (preferred) Plasma is also acceptable from EDTA Lavender or Royal Blue top; Sodium Heparin green top, Sodium Citrate light blue top. GENERAL LABORATORY REQUISITION | Referred out Monday- Thursday | 12.0 46.0 g/mL Toxic level not well established. Interpretation should include a clinical evaluation. | | |
| LH (see <u>Luteinizing Hormone, Plasma/Serum</u>) | | | | | | |
| LHON (see <u>Leber's Hereditary Optic Neuropathy, Mitochondrial Genome Sequencing and Depletions/Integrity Pane</u>) | | | | | | |
| Li (see <u>Lithium, Serum</u>) | | | | | | |
| Li-Fraumeni Syndrome (see <u>P53 Carrier Testing</u>) | | | | | | |
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| Lidocaine, Serum/Plasma Xylocaine | Core | <p>Adult: 6 mL Red top Vacutainer tube</p> <p>Pediatric: 0-2 years: 0.5 mL Red top Microtainer 2-10 years: 3 mL Red top Vacutainer tube</p> <p>Plasma (heparin or EDTA) is also acceptable.</p> <p><u>Blood collection tubes with separator gels are not acceptable for this test.</u> GENERAL LABORATORY REQUISITION</p> | Referred out Monday- Thursday | 1.5-5.0 mg/L | 2009-09-29 | |
| Light Chain Screen (see <u>Protein Electrophoresis, Urine</u>) | | | | | | |
| Light Chains (see <u>Immunofixation Electrophoresis, Serum, Immunofixation Electrophoresis, Urine: Random or 24-Hour Urine</u>) | | | | | | |
| <u>LINCL (see <u>Tripeptidyl Peptidase 1, Dried Blood Spot/Fibroblast</u>)</u> | | | | | | |

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| Lipase | Core (all sites) | 4.5 mL Green (Lithium Heparin) top Vacutainer Pediatric: 0-2 yrs: Green 0.5 pk. 2-10 yrs: 2 mL Green top GENERAL LABORATORY REQUISITION | As required | 13-60 U/L | 2014-06-02 | |

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| LIPID LADEN MACROPHAGE INDEX for OIL RED O- Respiratory and Exfoliative Samples for Cytology Bronchoalveolar lavage (BAL) for LLM -Oil Red O | Cytopathology- UH | Non- gynecological: Respiratory BAL CYTOLOGY REQUISITION- Non Gynecological Area | Weekdays | See report | 2019-06-07 | <p>Specimens procured at VH- CALL ext. 55410 to alert the cytotechnologist. DELIVER fresh sample directly to VH, Rm. D2-700, Pathology Attention: CYTOLOGY</p> <p>Clinical history is an important component for diagnostic interpretation. Fixed specimens will not be processed for Oil Red O. The total fresh specimen volume should not exceed one orange top specimen container.</p> |

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| Lipid Profile Cholesterol, Triglyceride, HDL, LDL | Core UH & VH | 4.5 mL Green top Vacutainer Pediatric: 0-2 years: 0.5 mL Green pk. 2-10 years: 1 mL Green top GENERAL LABORATORY REQUISITION | Weekdays | See reference ranges and interpretive comments for individual tests. Increased risk of cardiovascular disease at triglycerides level greater than 2.0 mmol/L; increased risk of acute pancreatitis at triglycerides level greater than 10.0 mmol/L (Lancet 2014;384:626-635). | 2010-12-03 | |
| Lipoprotein (a) Lpa Lp(a) Lipoprotein a Lipoprotein A | Core | 4 mL Lavender (EDTA) top Vacutainer tube or 6 mL Red top Vacutainer tube GENERAL LABORATORY REQUISITION | Referred out Tuesday - Thursday | Greater than 30 mg/dL associated with 1.7-fold increased risk of cardiovascular disease Less than 8.94 mg/dL lower limit for reporting | 2014-07-28 | Referred out Tuesday-Thursday Greater than 30 mg/dL associated with 1.7-fold increased risk of cardiovascular disease Less than 8.94 mg/dL lower limit for reporting |

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| Lipoprotein A (see <u>Lipoprotein (a)</u>) | | | | | | |
| Lipoprotein a (see <u>Lipoprotein (a)</u>) | | | | | | |
| Lipoprotein Fractionation: Electrophoresis TEST NO LONGER AVAILABLE Lipoprotein Phenotyping | Core | 6 mL Red top Vacutainer tube GENERAL LABORATORY REQUISITION | Referred out as required | See report | 2005-07-01 | Referred out weekdays Report will include description of Electrophoretic Profile (alpha, pre-beta and chylomicron fractions), Total Cholesterol, Triglycerides and Lipoproteinemia Phenotyping. |
| Lipoprotein Phenotyping (see <u>Lipoprotein Fractionation: Electrophoresis</u> TEST NO LONGER AVAILABLE) | | | | | | |
| Liquid based PAP test (Cytology) (see <u>HPV testing, for Gynaecological Liquid Based PAP test (Cytology),</u>) | | | | | | |
| Liquid based PAP test for Cytology (see <u>Gynaecological Liquid Based PAP test for Cytology</u>) | | | | | | |
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| Lithium, Serum Li | Core (VH) | 5 mL Gold top Vacutainer tube Pediatric: 0-2 years: Red 0.5 pk 2-10 years: 2 mL Red top Vacutainer GENERAL LABORATORY REQUISITION | As required | 0.5-1.1 mmol/L | 2008-11-15 | <p>The light metal, lithium, was discovered in mineral compounds, by August Arfvedson in 1817 and electrolytically purified by Sir Humphrey Davy (also, independently by Brand) in 1818. Lithium alters the intraneuronal metabolism of catecholamines by an unknown mechanism. It is used to suppress the manic phase of manic depressive psychosis. Toxicity from Lithium salts leads to ataxia, slurred speech and confusion.</p> <p>Toxic:>1.5 mmol/L - CRITICAL VALUE to be phoned to Nurse or Physician immediately: Indicated in management of acute manic episodes in patients with b (more...)</p> |

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| Liver (see <u>Image-Guided Fine Needle Aspirate Cytology, Non-Image Guided Fine Needle Aspiration Biopsy for Cytology</u>) | | | | | | |
| Long Acting Thyroid Stimulator (see <u>Anti-Thyroid Stimulating Hormone Receptor Antibodies, Serum</u>) | | | | | | |
| Long Chain Fatty Acids,Plasma/Serum C24/C22 Long Chain Fatty Acid Ratio C26/C22 Long Chain Fatty Acid Ratio C26:0 Long Chain Fatty Acid Concentration Very Long Chain Fatty Acids LCFA VLCFA | Toxicology/Special Chemistry | 4 mL K ₂ or K ₃ EDTA Lavender top Vacutainer tube or 5 mL Gold top Vacutainer GENERAL LABORATORY REQUISITION | Once a week | C24/C22 Ratio: 0-1.094 C26/C22 Ratio: 0-0.0350 C26:0 Concentration: 0-1.466 umol/L | 2010-01-26 | |
| Lorazepam,Urine- Qualitative test is available only upon request Ativan | Toxicology/Special Chemistry | Random urine GENERAL LABORATORY REQUISITION | Monday - Friday 0800-1600 | See report | | |
| Low Density Lipoprotein Cholesterol (see <u>Cholesterol-LDL,Plasma</u>) | | | | | | |
| Lp(a) (see <u>Lipoprotein (a)</u>) | | | | | | |
| Lpa (see <u>Lipoprotein (a)</u>) | | | | | | |
| Ludomil (see <u>Maprotiline,Serum</u>) | | | | | | |
| Luminal (see <u>Phenobarbital,Serum/Plasma</u>) | | | | | | |
| Lung (see <u>Image-Guided Fine Needle Aspirate Cytology, Non-Image Guided Fine Needle Aspiration Biopsy for Cytology</u>) | | | | | | |

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Lupus Anticoagulant (see Anticardiolipin)

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| Luteinizing Hormone, Plasma/Serum LH | Core | <p>Adult: 4.5 mL Light Green top (Li-Heparin) Vacutainer tube</p> <p>Pediatric: 0-2 years: 0.5 mL Light Green top (Li-Heparin) Microtainer 2-10 years: 3 mL Light Green top (Li-Heparin) Vacutainer tube</p> <p>Red, Gold, or Lavender (EDTA) top tubes are also acceptable GENERAL LABORATORY REQUISITION</p> | As required | <p><u>Male:</u> Tanner stage 1: ≤ 1.30 IU/L Tanner stage 2: ≤ 2.91 IU/L Tanner stage 3: 0.65 - 4.19 IU/L Tanner stage 4: 1.16 - 6.23 IU/L Tanner stage 5: 1.15 - 7.17 IU/L Adult: 1.70 - 8.60 IU/L</p> <p><u>Female:</u> Tanner stage 1: < 0.31 IU/L Tanner stage 2: ≤ 4.01 IU/L Tanner stage 3: ≤ 7.93 IU/L Tanner stage 4: 0.68 - 19.80 IU/L Tanner stage 5: 0.48 - 21.60 IU/L Follicular phase: 2.40 - 12.60 IU/L Ovulatory phase: 14.00 - (more...)</p> | 2009-12-01 | Biotin may interfere with this test. Samples should not be taken from patients receiving high biotin doses (i.e. > 5 mg/day) until at least 8 hours after the last biotin administration. |

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| Lyme Disease Serology Borrelia burgdorferi | Microbiology (VH) | 5 mL Gold or 6 mL Red top Vacutainer tube Serology: PUBLIC HEALTH LABORATORY TEST REQUISITION | Serology is referred out weekdays to the Public Health Laboratory. | | 2010-09-13 | CSF is no longer supported as an appropriate specimen type for Lyme serology or PCR investigations. Serology from blood is the reference standard. |
| Lymph Node (see <u>Image-Guided Fine Needle Aspirate Cytology, Non-Image Guided Fine Needle Aspiration Biopsy for Cytology</u>) | | | | | | |
| Lymphocyte Mitogen (see <u>Lymphocyte Proliferation</u>) | | | | | | |
| Lymphocyte Proliferation Lymphocyte Mitogen | Core (all campuses) | 2 X 6 mL Dark Green top Vacutainer tubes (Sodium Heparin) Hospital for Sick Children - Immunology requisition | Sample must arrive at the testing lab on either Thursday or Friday by 10:00 a.m. | See report. | 2012-09-10 | |
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| Lymphocyte Subset Enumeration | Flow Cytometry (VH) | Peripheral blood collected in 4 mL K ₂ or K ₃ EDTA Lavender top Vacutainer tube. Referred-In Samples: FLOW CYTOMETRY REQUISITION | Monday-Friday 0800-1600 Fridays or prior to STAT holidays, routine specimens must be received in the Flow Cytometry Laboratory at Victoria Hospital by 1300. | CD19%CD19 Absolute x 109/LStart AgeEnd AgeRef LowRef HighStart AgeEnd AgeRef LowRef High0 Mins3 Months6320 Mins3 Months0.302.003 Months6 Months11413 Months6 Months0.433.006 Months1.00 YEARS14376 Months1.00 YEARS0.612.60 1.00 YEARS2.00 YEARS16351.00 YEARS2.00 YEARS0.722.60 2.00 YEARS6.00 YEARS14332.00 YEARS6.00 YEARS0.391.40 6.00 (more...) | 2011-01-11 | |

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| Lymphocytes (see <u>Differential Leukocyte Count (Peripheral Blood)</u>) | | | | | | |
| Lymphocytosis Investigation (Peripheral Blood) | Flow Cytometry (VH) | Peripheral blood collected in a 4 mL K ₂ or K ₃ EDTA Lavender top Vacutainer tube Pediatric: 0-2 yrs: 0.5 mL Lavender Microtainer 2-10 yrs: 3 mL Lavender top Referred-In Samples: FLOW CYTOMETRY REQUISITION | Monday-Friday 0800-1600 Fridays or prior to STAT holidays, routine specimens must be received in the Flow Cytometry Laboratory at Victoria Hospital by 1300. | See report | 2006-06-01 | |
| Lymphoma (see <u>Chromosome Analysis, Lymph Node/Tumor</u>) | | | | | | |
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| Lymphoma Prep | Pathology | Tissue biopsy, fresh or in saline Powerchart: eOrder choosing appropriate specimen and "Special handling lymphomaprep, Introp-frozen" See Identification of Clinical Specimens | Refer to Collection Information | See report | 2009-10-08 | Deliver as directed to Pathology Laboratory. Specimen should reach Pathology within 15-30 minutes. May be done as part of a Frozen section to make a diagnosis of lymphoproliferative disorder or to narrow the differential diagnosis and confirm adequate sampling of the tissue. |
| Lysosomal Acid Lipase (see <u>Acid Lipase</u>) | | | | | | |