

| Test Name | Laboratory | Specimen Type | Test Schedule | Reference Range | Effective Date | Comments |
|---|---------------------|---|---|-----------------|----------------|----------|
| E1 (see <u>Estrone, Serum/Plasma</u>) | | | | | | |
| E2 (see <u>Estradiol, Plasma/Serum</u>) | | | | | | |
| Ear Culture | Microbiology (VH) | Ear, ear drainage fluid, Tympanocentesis fluid MICROBIOLOGY REQUISITION | Daily | | 2012-03-28 | |
| Eastern Encephalitis (see <u>Arbovirus Flavivirus Serology/PCR</u>) | | | | | | |
| EBV IgM/IgG (see <u>Epstein Barr Virus Serology</u>) | | | | | | |
| EBV PCR Quantitative Epstein Barr Virus Epstein Barr Virus PCR (Viral Load) | Virology Laboratory | See Special Processing for further information: 4 mL Lavender top (EDTA) Vacutainer tube VIROLOGY LABORATORY TEST REQUISITION | Samples are tested twice a week on Tuesday and Thursday. STAT requests must be approved by a Medical Microbiologist, on call. | See report | 2006-07-01 | |
| Echinococcus (see <u>Ova and Parasites-Blood and Tissue</u>) | | | | | | |
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| Echinococcus Serology | Microbiology (VH) | Blood-5 mL Gold or 6 mL Red top Vacutainer PUBLIC HEALTH LABORATORY TEST REQUISITION | Referred weekly to the National Reference Centre for Parasitology | | 2010-09-13 | |

Ecstasy (see Amphetamine Screen,Urine)

Effusion Washing (see Fluids for Cytology)

eFTS (see Maternal Serum Screen (for Open Neural Tube Defect and Down Syndrome Risks))

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| EGFR NGS | Molecular Diagnostics | FFPE Refer to Pathology | Monday to Friday 0800-1600h | See report | | <p>Patient must meet CCO criteria for funded testing</p> <p>N/A</p> <p>The National Comprehensive Cancer Network (NCCN) recommends testing for EGFR mutations and ALK rearrangements in all patients with recurrent or metastatic lung adenocarcinomas in order to guide therapy(PMID: 22138009). The College of American Pathologists (CAP), International Association for the Study of Lung Cancer (IASLC), and Association for Molecular Pathology (AMP) have prepared a joint guideline that provides a detailed description of the patient and specimen requirements (more...)</p> |

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| Elastase 1 (see <u>Fecal Elastase</u>) | | | | | | |
| Elavil (see <u>Amitriptyline, Serum/Plasma</u>) | | | | | | |
| Electrolytes, Fluid Sodium (fluid) Potassium (fluid) Chloride (fluid) | Core | Fluid GENERAL LABORATORY REQUISITION | As required | See report | 2010-05-17 | |
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| Electrolytes, Plasma Sodium Potassium Chloride CO2 GAP | Core | 4.5 mL Green (Lithium Heparin) top Vacutainer Serum from a 5 mL Gold top or 6 mL Red top is also acceptable. Pediatric: 0-2 years: 0.5 mL Green Microtainer 2-10 years: 2 mL Green top tube GENERAL LABORATORY REQUISITION | As required | Sodium: 135-145 mmol/L Potassium: 3.5-5.0 mmol/L (<3 months: 4.0-6.5 mmol/L) Chloride: 98-107 mmol/L CO ₂ : 22-29 mmol/L | 2008-11-15 | Potassium results may be affected by hemolysis. Sodium: <120 or >160 mmol/L Potassium: <3.0 or >6.0 mmol/L Of use in monitoring electrolyte status, interpretation of acid-base balance and evaluation of hydration status. Potassium: potassium is largely intracellular cation and plasma levels are, at best, only a general guide to the total body potassium content. In some cases (e.g. untreated diabetes), plasma potassium may be increased when total body potassium is depleted. CO ₂ : for complete evaluation of (more...) |

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| Electrolytes,Urine Sodium (urine) Potassium (urine) Chloride (urine) | Core | 24 Hour Urine or Random Urine GENERAL LABORATORY REQUISITION | As required | Normal Diet: Sodium: 40-200 mmol/L Potassium: 25-125 mmol/L | | |
| Electron Microscopy - Tissue, Bone Marrow, Blood | Pathology | Tissue/Blood & Bone Marrow SURGICAL PATHOLOGY REQUISITION Tissue: In general EM is added to the order for a tissue specimen. E- order choosing appropriate specimen. Blood, bone marrow: E order choosing EM, Blood Only. See Identification of Clinical Specimens | As required | N/A | | Please call Electron Microscopy at ext. 78977 for any questions regarding this test. See report See above |
| Elixophyllin (see <u>Theophylline, Serum</u>) | | | | | | |

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| EMA (see <u>Antiendomysial Antibodies</u>) | | | | | | |
| Endocervical Smear (see <u>Gynaecological Conventional Smear for Cytology</u>) | | | | | | |
| Endomyocardial biopsy (see <u>Heart Biopsy</u>) | | | | | | |
| Enhanced First Trimester Screen (see <u>Maternal Serum Screen (for Open Neural Tube Defect and Down Syndrome Risks)</u>) | | | | | | |
| Entamoeba histolytica IgG (see <u>Amoebic Serology</u>) | | | | | | |
| Enterovirus PCR - ENVPCR | Virology Laboratory | CSF Fluids - pericardial, pleural, peritoneal Swabs - throat, rectal, mouth Tissue - lymph nodes, brain VIROLOGY LABORATORY REQUISITION | Samples are tested three times weekly on Monday, Wednesday and Friday. | See report | 2011-10-31 | |
| Eosinophils (see <u>Differential Leukocyte Count (Peripheral Blood)</u>) | | | | | | |
| Epinephrine (see <u>Catecholamines, Plasma (Norepinephrine, Epinephrine, Dopamine), Catecholamines, Urine</u>) | | | | | | |
| Epival (see <u>Valproic Acid, Serum/Plasma-Total</u>) | | | | | | |
| EPO (see <u>Erythropoietin, Serum/Plasma</u>) | | | | | | |
| Epstein Barr Virus PCR (Viral Load) (see <u>EBV PCR</u>) | | | | | | |
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| Epstein Barr Virus Serology Infectious Mononucleosis EBV IgM/IgG | Endocrinology | <p>Adult: 5 mL Gold top Vacutainer tube</p> <p>Pediatric: 0-2 years: 2 x 0.5 mL Red or Gold top Microtainers 2-10 years: 3 mL Red top Vacutainer tube</p> <p>Light Green (Li-Heparin) or Lavender (EDTA) top tubes are NOT acceptable GENERAL LABORATORY REQUISITION</p> | <p>Monday Friday 0800-1600</p> <p>EBV serology results for TGLN donor samples will be reported by the business day following sample collection.</p> | | 2006-07-01 | <p>All EBVIGM orders will include both IgM and IgG. EBVIGG orders will include only IgG.</p> <p>A single serum sample will yield significant results for establishing previous exposure.</p> |
| ERAS (see <u>KRAS</u>) | | | | | | |
| Erythrocyte protoporphyrin (see <u>Protoporphyrin, Whole Blood</u>) | | | | | | |
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| Erythrocyte Sedimentation Rate ESR Sed Rate Sedimentation Rate | Core | 4 mL K ₂ or K ₃ EDTA Lavender top Vacutainer tube Pediatric: 0-10 years: 3.0 mL Lavender top GENERAL LABORATORY REQUISITION | As required | Male: 0-10 mm/h Female: 0-20 mm/h | 2008-04-07 | |

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| Erythropoietin, Serum/ Plasma EPO | Core | 5 mL Gold top Vacutainer tube Pediatric: 0-10 years: 2 mL Gold top Light Green (Li- heparin) top tubes are also acceptable. GENERAL LABORATORY REQUISITION | Referred out Monday- Thursday | <u>Male:</u> <1 year: Not established 1-3 years: 1.7- 17.9 mIU/mL 4-6 years: 3.5- 21.9 mIU/mL 7-9 years: 1.0- 13.5 mIU/mL 10-12 years: 1.0- 14.0 mIU/mL 13-15 years: 2.2- 14.4 mIU/mL 16-18 years: 1.5- 15.2 mIU/mL >18 years: 2.6- 18.5 mIU/mL <u>Female:</u> <1 year: Not established 1-3 years: 2.1- 15.9 mIU/mL 4-6 years: 2.9- 8.5 mIU/mL 7-9 years: 2.1- 8.2 mIU/mL 10-12 y (more...) | 2009-02-12 | |

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| Esophageal Brush/Wash (see <u>Gastrointestinal/Hepatobiliary Specimens for Cytology</u>) | | | | | | |
| ESR (see <u>Erythrocyte Sedimentation Rate</u>) | | | | | | |
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| Estimated Glomerular Filtration Rate (eGFR) | Core | | | <p>For patients under 18 years of age eGFRs are reported as: eGFR calculation is not available for patients under 18 years of age.</p> <p>eGFR: < 15 mL/min/1.73 m2 Consistent with kidney failure</p> <p>eGFR: 15-29 mL/min/1.73 m2 Consistent with severe chronic kidney disease</p> <p>eGFR: 30-44 mL/min/1.73 m2 Moderate to severe decreased kidney function is consistent with chronic (more...)</p> | 2016-01-04 | <p>eGFR is calculated using the CKD-EPI 2009 equation. Multiply eGFR by 1.159 for patients of African descent.</p> <p>Results for eGFR should be interpreted in concert with urine albumin creatinine ratio (ACR). eGFR is not valid for extreme muscle mass, pregnancy, drug dosing and acute kidney injury and not normalized for body surface area</p> |

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| Estradiol, Plasma/Serum 17 Beta Estradiol E2 Major Estrogen | 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>Male >18 years: ≤159 pmol/L</p> <p>Female:</p> <p>Follicular phase: 114 - 33 2 pmol/L</p> <p>Early follicular phase: 76-231 pmol/L</p> <p>Intermediate follicular phase: 96 294 pmol/L</p> <p>Late follicular phase: 182 858 pmol/L</p> <p>Ovulatory phase: 222 1959 pmol/L</p> <p>Luteal phase: 222 8 54 pmol/L</p> <p>Early luteal phase: 188 658 pmol/L</p> <p>Interme (more...)</p> | 2015-06-01 | <p>Biotin, fulvestrant (Faslodex), and steroid drugs 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.</p> <p>Estradiol can be used as an indicator of follicular function and provides information in the diagnosis of amenorrhea and infertility. During pregnancy estradiol levels increase.</p> <p>In males, estradiol can be used to evaluate feminizing syndromes.</p> |

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| Estrone, Serum/Plasma E1 | Core | 5 mL Gold top Vacutainer tube GENERAL LABORATORY REQUISITION | Referred out Monday- Thursday | Male: 105-275 pmol/L Female: Follicular Phase: 144 - 487 pmol/L Luteal Phase: 200 - 663 pmol/L Peri-ovulatory: 214 - 947 pmol/L Post- menopausal: With Estrogen HRT: 189-1803 pmol/L Without Estrogen HRT: 114-370 pmol/L | 1999-02-05 | |
| ETG (see <u>Ethyl Glucuronide</u>) | | | | | | |
| Ethanol (see <u>Alcohol Fractionation (by Gas Liquid Chromatography)</u>) | | | | | | |
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| Ethanol, Serum/Plasma Ethyl Alcohol | Core UH & VH | 4.5 mL Green (Lithium Heparin) top Vacutainer tube Pediatric: 0-2 years: 0.5 mL Green Microtainer 2-10 years: 3 mL Green top tube GENERAL LABORATORY REQUISITION | As required | Negative Values > 2.2 mmol/L will flag as High. | 2010-06-01 | Also available as part of Alcohol Fractionation by Gas Liquid Chromatography with Biochemist's approval. 33.0 mmol/L or greater Spin all urine samples to remove debris |
| Ethosuximide, Serum Anticonvulsant Zarontin | Core | 5 mL Gold or 6 mL Red top Vacutainer tube GENERAL LABORATORY REQUISITION | As required Referred out Monday-Friday | Therapeutic: 283- 708 µmol/L | 2008-02-05 | |
| Ethyl Alcohol (see <u>Ethanol, Serum/Plasma</u>) | | | | | | |
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| Ethyl Glucuronide ETG | Core | Urine (Random) GENERAL LABORATORY REQUISITION | Referred out Monday- Thursday Testing is performed Fridays at CAMH | Creatinine: 2.0 - 20.0 mmol/L pH - Urine: 4.6 - 8.0 Ethanol - Urine: ≤2.4 mmol/L <u>Ethyl Glucuronide:</u> Negative <100 g/8.8 mmol Cre Indeterminate 100 - 200 g/8.8 mmol Cre Positive ≥200 g/8.8 mmol Cre | 2019-05-15 | <p>Comments: Testing is available to Liver Transplant patients only. Routine testing for liver transplant is approved for sendout to CAMH.</p> <p>Priority testing is available for initial ETG testing to allow a patient to be listed on the Transplant List. Testing via ICL to CAMH is preferred (notify ICL/CAMH that sample is a priority sample for Transplant Listing).</p> <p><u>*Requires Biochemist Approval</u> Parallel testing to CAMH and Dynacare is available on a case by case basis; The following criteria would need to be considered for parallel testing -required to list (more...)</p> |

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| Ethylene Glycol (see <u>Glycol Screen</u>) | | | | | | |
| Eye Culture | Microbiology (VH) | Conjunctival swab or scraping Corneal scrapings Vitreous fluid or washings MICROBIOLOGY REQUISITION | Daily | | 2008-11-03 | Organisms are more readily detected in scrapings than from a swab. Conjunctival samples from babies less than 2 weeks old will be investigated for N. gonorrhoeae. Swabs - EYEC Scrapings - TISC Fluids - FLDS |