

| Test Name  | Laboratory                       | Specimen Type  | Test Schedule  | Reference Range   | Effective Date | Comments  |
|--|----------------------------------|--|--|---|----------------|---|
| T-Cell Lymphoma<br>TCRG Gene clonality<br>assay  | Molecular<br>Diagnostics         | EDTA<br>blood/bone<br>marrow<br>MOLECULAR<br>DIAGNOSTIC<br>REQUISITION   | As required,<br>Monday to Friday<br>0800-1600h   | See report  |                |   |
| T. vulgaris (see <u>Farmers Lung IgG Antibodies, Serum</u> )   |                                  |  |  |   |                |   |
| Tacrolimus<br>FK506<br>Prograf   | Toxicology/Speci<br>al Chemistry | 4 mL K <sub>2</sub> or K <sub>3</sub><br>EDTA<br>Lavender top<br>Vacutainer tube<br><br><b>Pediatric:</b><br>0-2 yrs: 0.5 mL<br>Lavender<br>2-10 yrs: 3 mL<br>Lavender top<br>GENERAL<br>LABORATORY<br>REQUISITION | Samples are<br>tested Monday-<br>Saturday.<br>Specimens<br>received in the<br>Core lab after<br>10:00am will be<br>processed the<br>next working<br>day. | No established<br>reference range.<br>Concentrations<br>are measured in<br>ng/mL. | 2009-02-27     | Call the<br>Toxicology/Special<br>Chemistry Laboratory<br>for more information at:<br>(519) 685-8500 x<br>64664 option 3.<br><br>Thoroughly mix the<br>blood sample after<br>procurement. |
| Taenia solium Serology (see <u>Cysticercosis Serology</u> )  |                                  |  |  |   |                |   |
| Tau Protein (see <u>Beta-2 Transferrin</u> )   |                                  |  |  |   |                |   |
| Tay-Sachs Disease (see <u>Beta-N-Acetylhexosaminidase %A, A, A+B, Leukocyte/Plasma/Fibroblasts</u> ) |                                  |  |  |   |                |   |
| TB Culture (see <u>Mycobacterium Culture</u> )   |                                  |  |  |   |                |   |
| TBG (see <u>Thyroxine Binding Globulin, Serum</u> )  |                                  |  |  |   |                |   |
| TBII (see <u>Anti-Thyroid Stimulating Hormone Receptor Antibodies, Serum</u> )                       |                                  |  |  |   |                |   |

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| TCOM (see <u>Complement Total, Serum</u> )  |            |  |                                       |                 |                |          |
| TCRG Gene clonality assay (see <u>T-Cell Lymphoma</u> )   |            |  |                                       |                 |                |          |
| Tegretol (see <u>Carbamazepine, Serum/Plasma-Total</u> )  |            |  |                                       |                 |                |          |
| Telo peptide-N (see <u>N-Telo peptide, Urine</u> <b>no longer available- see C-Telo peptide</b> ) |            |  |                                       |                 |                |          |
| Tempra (see <u>Acetaminophen</u> )  |            |  |                                       |                 |                |          |
| Teriflunomide (see <u>Leflunomide</u> )   |            |  |                                       |                 |                |          |
| Testicular Biopsy   | Pathology  | Tissue biopsy<br>Powerchart:<br>eOrder<br>choosing<br>appropriate<br>specimen. See<br>Identification of<br>Clinical<br>Specimens | Refer to<br>Collection<br>Information | See report      | 2019-04-09     |          |
|   |            |  |                                       |                 |                |          |

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| Testosterone (Total), Plasma/Serum | Core       | <p><b>Adult:</b><br/>4.5 mL Light Green top (Li-Heparin)<br/>Vacutainer tube</p> <p><b>Pediatric:</b><br/>0-2 years: 0.5 mL Light Green top (Li-Heparin)<br/>Microtainer<br/>2-10 years: 3 mL Light Green top (Li-Heparin)<br/>Vacutainer tube</p> <p>Red, Gold, or Lavender (EDTA) top tubes are also acceptable</p> <p>GENERAL LABORATORY REQUISITION</p> | Monday - Friday<br>0800-1600 | <p><u>Male:</u><br/>Tanner stage 1: <math>\leq 0.4</math> nmol/L<br/>Tanner stage 2: <math>\leq 15.0</math> nmol/L<br/>Tanner stage 3: 2.3 - 27.0 nmol/L<br/>Tanner stage 4: 6.2 - 26.5 nmol/L<br/>Tanner stage 5: 6.5 - 30.6 nmol/L<br/>20 - 49 years: 8.6 - 29.0 nmol/L<br/><math>\geq 50</math> years: 6.7 - 25.7 nmol/L</p> <p><u>Female:</u><br/>Tanner stage 1: <math>\leq 0.4</math> nmol/L<br/>Tanner stage 2: <math>\leq 0.4</math> nmol/L<br/>Tanner stage 3: <math>\leq 0.8</math> nmol/L<br/>Tanner stage 4: <math>\leq 0.9</math> nmol/L<br/>Tanner stage 5: <math>\leq 1.3</math> nmol/L<br/>20 - 49 years: <math>\leq 1.7</math> nmol/L<br/><math>\geq 50</math> years: <math>\leq 1.4</math> (more...)</p> | 2018-03-06     | <p>Nandrolone (19-nortestosterone) interferes with this assay.</p> <p>Biotin may interfere with this test. Samples should not be taken from patients receiving high biotin doses (i.e. <math>&gt; 5</math> mg/day) until at least 8 hours after the last biotin administration.</p> |

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| Tetanus Serology                             | Microbiology   | 5 mL Gold top Vacutainer tube<br>PUBLIC HEALTH LABORATORY TEST REQUISITION                                   | Referred out weekdays to Public Health Laboratory. |  | 2017-10-02     | Testing is available through the Public Health Laboratory only for the rare event of an adverse reaction to the Tetanus vaccine or the possibility of humoral immunodeficiency. |
| Tg (see <u>Thyroglobulin, Serum/Plasma</u> ) |                |  |  |  |                |   |
| Thallium, Erythrocytes                       | Trace Elements | Reference number 368381 - HMMS# 11073 - 6mL K2-EDTA Royal Blue Vacutainer tube<br>TRACE ELEMENTS REQUISITION | Batched analysis                                   | SI Units (Reported on Patient Chart): 0.00-0.13 nmol/L<br><br>Conventional Units: 0.000-0.026 µg/L |                | Reference Ranges are based on Non-Occupationally exposed population.<br><br>Find Interpretive Comment and Clinical Information here:  |
|  |                |  |  |  |                |   |

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|----------------|----------------|---|------------------|---|----------------|--|
| Thallium,Urine | Trace Elements | 24 hour urine collected in an <b>unused</b> 24 hour urine container or random urine<br>TRACE ELEMENTS REQUISITION | Batched analysis | <u>SI Units:</u><br><br>Random Urine:<br>0-1.96 nmol/L<br>nmol/mol<br>creatinineAgeFe<br>maleMale0-110-2330-22212-190-1420-13820-290-1600-12230-390-1940-14340-490-2300-15150-590-2720-17360-690-2680-18170-790-2800-196≥800-3430-222<br><br>24 Hour Urine:<br>0-2.94 nmol/d<br><br><u>Conventional Units:</u><br><br>Random Urine:<br>0-0.400 µg/L<br>ng/g<br>creatinineAgeFe<br>maleMale0-110-4210-40 (more...) |                | Reference Ranges are based on Non-Occupationally exposed population.<br><br>Find Interpretive Comment and Clinical Information here: |

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|--|----------------|--|------------------|--|----------------|--|
| Thallium, Whole blood                      | Trace Elements | Reference number 368381 - HMMS# 11073 - 6mL K2-EDTA Royal Blue Vacutainer tube<br>TRACE ELEMENTS REQUISITION | Batched analysis | SI Units (Reported on Patient Chart): 0.00-0.19 nmol/L<br><br>Conventional Units: 0.000-0.039 µg/L |                | Reference Ranges are based on Non-Occupationally exposed population.<br><br>Find Interpretive Comment and Clinical Information here: |
| Theo-Dur (see <u>Theophylline, Serum</u> ) |                |  |                  |  |                |  |
|  |                |  |                  |  |                |  |

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| Theophylline, Serum<br>Aminophylline<br>Theo-Dur<br>Somophyllin<br>Elixophyllin<br>Xanthine | Core       | <p><b>Adult:</b><br/>6 mL Red top<br/>Vacutainer tube</p> <p><b>Pediatric:</b><br/>0-2 years: 2 x<br/>0.5 mL Red top<br/>Microtainers<br/>2-10 years: 3<br/>mL Red top<br/>Vacutainer tube</p> <p><b>Blood<br/>collection<br/>tubes with<br/>separator gels<br/>are not<br/>recommended<br/>for this test.</b><br/>GENERAL<br/>LABORATORY<br/>REQUISITION</p> | Referred out<br>Monday<br>Thursday | 55 - 110 mol/L  | 2010-08-31     | <p>Bronchodilator drug used in treatment of reversible bronchoconstriction. Aminophylline is a salt of theophylline (80-85% by weight of this salt is theophylline).</p> <p><b>Toxic: &gt;110 mol/L</b><br/>Critical Value to be phoned to nurse or physician immediately</p> |
| Thermoactinomyces vulgaris (see <u>Farmers Lung IgG Antibodies, Serum</u> )                 |            |   |                                    |                 |                |   |
| Thiamine Diphosphate (see <u>Vitamin B1, Whole Blood</u> )                                  |            |   |                                    |                 |                |   |
| Thiamine Pyrophosphate (Whole Blood) (see <u>Vitamin B1, Whole Blood</u> )                  |            |   |                                    |                 |                |   |
|   |            |   |                                    |                 |                |   |

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| Thiocyanate, Serum/Plasma                                 | Core       | 6 mL Red top Vacutainer tube or 4 mL Lavender EDTA Vacutainer tube<br><br><b>Avoid gel-separator tubes</b><br>GENERAL LABORATORY REQUISITION | Referred out Monday-Thursday | Therapeutic: Less than 0.5 mmol/L<br><br>Toxic: Greater than 1.7 mmol/L                         | 1998-09-01     |          |
| Thiopurine Methyltransferase: Genotype<br>TPMT Genotype   | Core       | 4 mL Lavender EDTA Vacutainer tube<br>GENERAL LABORATORY REQUISITION   | Referred out Monday-Thursday | Results interpreted on report   | 2015-08-25     |          |
| Thiopurine Methyltransferase: Phenotype<br>TPMT Phenotype | Core       | 4 mL Lavender EDTA Vacutainer tube<br>GENERAL LABORATORY REQUISITION   | Referred out Monday-Thursday | Low Activity: < 10 nmol/Hbh<br>Intermediate: 10 - 40 nmol/Hbh<br>Normal Activity: > 40 nmol/Hbh | 2015-08-25     |          |
|   |            |  |                              |   |                |          |



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|---|----------------------|---|-------------------------------------|-----------------|----------------|----------|
| Thioridazine, Serum -<br>Quantitation<br>Mellaril | Core                 | 5 mL Gold top<br>Vacutainer tube<br><br><b>Avoid gel-<br/>separator<br/>tubes</b><br>GENERAL<br>LABORATORY<br>REQUISITION | Referred out<br>Monday-<br>Thursday | 2.7-4.0 µmol/L  |                |          |
| Throat Culture                                    | Microbiology<br>(VH) | Throat, tonsil<br>MICROBIOLOG<br>Y<br>REQUISITION   | Daily                               |                 |                |          |

| Test Name   | Laboratory               | Specimen Type   | Test Schedule                                   | Reference Range | Effective Date | Comments  |
|---|--------------------------|---|---|-----------------|----------------|---|
| Thrombophilia<br>(associated with<br>Factor V deficiency)<br>Factor V<br>Familial<br>Thrombophilia<br>Prothrombin/Factor V<br>Prothrombin | Molecular<br>Diagnostics | 1 x 4 mL K <sub>2</sub> or<br>K <sub>3</sub> EDTA<br>Lavender top<br>Vacutainer<br>tube-may be a<br>frozen aliquot.<br>MOLECULAR<br>DIAGNOSTIC<br>REQUISITION | As Required<br>Monday - Friday<br>0800 - 1600 h | See report      |                | For more information<br>click on:<br>Molecular Diagnostic<br>Laboratory<br>N/A<br>Resistance to activated<br>protein C (APC) is a<br>major cause of familial<br>thrombophilia, and can<br>be corrected by an<br>anticoagulant activity<br>expressed by purified<br>factor V. It has been<br>suggested that a point<br>mutation in the gene<br>coding for factor V is<br>responsible for APC<br>resistance<br>(PMID:7909098,<br>8208267). This point<br>mutation,<br>(F5:c.1601G>A),<br>occurring towards the<br>3' end of exon 10 of the<br>factor V gene, is<br>predicted to cause a<br>missense mutation in<br>the APC cleavage site,<br>(F5:p.Arg534Gln) and<br>confers an inc (more...) |

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| Thrombophilia<br>(Prothrombin)<br>Prothrombin Gene | Molecular<br>Diagnostics | Whole blood-1<br>x 4 mL<br>Lavender EDTA<br>top Vacutainer<br>tube<br>MOLECULAR<br>DIAGNOSTIC<br>REQUISITION | As required<br>Monday - Friday<br>0800 - 1600 h | See report      |                | For more information<br>click on:<br><br>Molecular Diagnostic<br>Laboratory<br>N/A<br>At least five genetic<br>defects,(PMID:9299960<br>) accounting for<br>approximately 15% of<br>families with inherited<br>thrombophilia, have<br>been established as<br>risk factors for venous<br>thrombosis. There are<br>protein C, protein S,<br>and antithrombin<br>deficiencies, and<br>represent defects in the<br>anticoagulant pathways<br>of blood coagulation.<br>Two other genetic risk<br>factors, resistance to<br>activated protein C<br>associated with the<br>factor V Leiden<br>mutation and increased<br>prothrombin associated<br>with the prothrombin<br>20210 A allele (more...) |

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| Thrombophilia Screen (see <u>Hypercoagulable Screen</u> )                         |            |   |               |                 |                |   |
| Thyrocalcitonin (see <u>Calcitonin, Fine Needle Aspirate, Calcitonin, Serum</u> ) |            |   |               |                 |                |   |
| Thyroglobulin, Fine Needle Aspirate   | Core       | Two samples:<br>The first is uncontaminated Plasma-Lyte and serves as a blank.<br>The second is 1 mL of Plasma-Lyte that has been used to rinse the biopsy needle as described below.<br>GENERAL LABORATORY REQUISITION | As required   | ≤ 1.0 g/L       | 2017-07-04     | The limit of quantitation of the assay is 0.1 g/L. If a blank result of > 0.1 g/L were to be obtained, a technical investigation would be performed prior to reporting of result.<br><br>An elevated thyroglobulin level in the fine needle aspirate may indicate the presence of metastatic differentiated thyroid cancer. |

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| Thyroglobulin, Serum/Plasma Tg | Core       | <p><b>Adult:</b><br/>5 mL Gold top Vacutainer tube</p> <p><b>Pediatric:</b><br/>0-2 years: 0.5 mL Red or Gold top Microtainer<br/>2-10 years: 3 mL Red top Vacutainer tube</p> <p>Lavender top (EDTA) tubes are also acceptable</p> <p>Light Green top (Li-Heparin) tubes are <b>NOT</b> acceptable</p> <p>GENERAL LABORATORY REQUISITION</p> | Thursday<br>0800-1600 | <p>Thyroidectomized patients: &lt; 0.2 g/L</p> <p>Normal population: 3.5 - 77.0 g/L</p> | 2017-07-04     | <p>Biotin may interfere with this test. Samples should not be taken from patients receiving high biotin doses (i.e. &gt; 5 mg/day) until at least 8 hours after the last biotin administration.</p> <p>In the follow-up of thyroidectomized patients, a concentration &gt; 0.2 g/L is suspicious for local or metastatic disease.</p> <p>In non-thyroidectomized patients, a concentration greater than the reference interval is not diagnostic of cancer.</p> <p>This assay is to be used to monitor patients who have had thyroidectomy for cancer. It is not recommended (more...)</p> |

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| Thyroid (see <u>Image-Guided Fine Needle Aspirate Cytology, Non-Image Guided Fine Needle Aspiration Biopsy for Cytology</u> ) |            |               |               |                 |                |          |
| Thyroid Antibodies (see <u>Anti-Thyroglobulin Antibodies, Serum/Plasma</u> )  |            |               |               |                 |                |          |
|   |            |               |               |                 |                |          |

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| Thyroid Stimulating Hormone, Plasma/Serum<br>TSH<br>TSH-3<br>Thyrotropin | Core       | <p><b>Adult:</b>4.5 mL<br/>Green top<br/>Vacutainer tube</p> <p><b>Pediatric:</b><br/>0-2 years: 0.5 mL Light Green top (Li-Heparin) Microtainer<br/>2-10 years: 3 mL Light Green top (Li-Heparin) Vacutainer tube</p> <p>Red, Gold, or Lavender (EDTA) top tubes are also acceptable<br/>GENERAL LABORATORY REQUISITION</p> | As required   | <p>0 6 days: 0.70<br/>15.2 mIU/L</p> <p>6 days 3 months: 0.72<br/>11.0 mIU/L</p> <p>3 12 months: 0.73 8.35 mIU/L</p> <p>1 6 years: 0.70<br/>5.97 mIU/L</p> <p>6 11 years: 0.60<br/>4.84 mIU/L</p> <p>11 20 years: 0.51 4.30 mIU/L</p> <p>&gt; 20 years: 0.27<br/>4.20 mIU/L</p> | 2008-11-15     | <p>TSH should be the initial test to screen for clinically-suspected hypothyroidism or hyperthyroidism. If TSH is below the lower cut-off, FT4 and FT3 testing will be performed reflexively by the laboratory. If TSH is between the lower and upper cut-offs, no FT4 or FT3 testing will be performed reflexively. If TSH is above the upper cut-off, FT4 testing will be performed reflexively by the laboratory. These cut-offs are the TSH reference intervals in children and the optimal cut-offs to predict abnormal FT4 levels in adults.</p> <p>The TSH cut-offs are:<br/>2 &lt;6 years: &lt;0.70 or &gt;5.97 mIU/L (more...)</p> |

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| Thyroid Stimulating Immunoglobulin (see <u>Anti-Thyroid Stimulating Hormone Receptor Antibodies, Serum</u> )           |            |  |                                |  |                |                                |
| Thyrotropin (see <u>Thyroid Stimulating Hormone, Plasma/Serum</u> )  |            |  |                                |  |                |                                |
| Thyrotropin Binding Inhibitor Immunoglobulin (see <u>Anti-Thyroid Stimulating Hormone Receptor Antibodies, Serum</u> ) |            |  |                                |  |                |                                |
| Thyrotropin Receptor Antibodies (see <u>Anti-Thyroid Stimulating Hormone Receptor Antibodies, Serum</u> )              |            |  |                                |  |                |                                |
| Thyroxine Binding Globulin, Serum<br>TBG   | Core       | 5 mL Gold top Vacutainer<br>GENERAL LABORATORY REQUISITION | Referred out Monday - Thursday | <b>0-11 months</b> : 315-685 nmol/L<br><b>1 year - 9 years</b> : 278-500 nmol/L<br><b>10 years and over</b> : 260-575 nmol/L |                | Referred out Monday - Thursday |
| TIBC (see <u>Unsaturated Iron Binding Capacity</u> )   |            |  |                                |  |                |                                |
| Ticks (see <u>Ova and Parasites-Ticks/Arthropods</u> )   |            |  |                                |  |                |                                |
|  |            |  |                                |  |                |                                |



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|-----------|----------------|---|------------------|--|----------------|--|
| Tin,Urine | Trace Elements | 24 hour urine collected in an <b>unused</b> 24 hour urine container or random urine<br>TRACE ELEMENTS REQUISITION | Batched analysis | <u>SI Units:</u><br><br>Random Urine:<br>4.2-42.2 nmol/L<br>µmol/mol creatinineAgeFe<br>maleMale0-110.5-5.00.5-4.812-190.3-3.10.3-3.020-290.3-3.50.3-2.630-390.4-4.20.3-3.140-490.5-5.00.3-3.250-590.6-5.90.4-3.760-690.6-5.80.4-3.970-790.6-6.00.4-4.2≥800.7-7.40.5-4.8<br><br>24 Hour Urine:<br>8.4-59.0 nmol/d<br><br><u>Conventional Units:</u><br><br>Random Urine:<br>0.5-5.0 µg/L (more...) |                | Reference Ranges are based on Non-Occupationally exposed population.<br><br>Find Interpretive Comment and Clinical Information here: |

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| Tinea (see <u>Fungus Culture-Dermatophytes</u> ) |                     |  |   |                 |                |          |
| Tip Culture (see <u>Vascular Tip Culture</u> )   |                     |  |   |                 |                |          |
| Tissue / Fluid Investigation                     | Flow Cytometry (VH) | Lymph Node Biopsy<br>Fine Needle Aspirate<br>CSF<br>Body Fluids<br>Referred-In<br>Samples:<br>FLOW<br>CYTOMETRY<br>REQUISITION | Monday-Friday<br>0800-1600<br><br>Fridays or prior to STAT<br>holidays, routine specimens must be received in the Flow Cytometry Laboratory at Victoria Hospital by 1300.<br><br>For after hours and weekend requests, page the Hematologist on-call at (519) 685-8500 x 14999. |                 | 2014-04-21     |          |
| Tissue Culture                                   | Microbiology (VH)   | Tissue, biopsy<br>MICROBIOLOGY<br>REQUISITION  | Daily   |                 |                |          |

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| Tissue for Immunofluorescence (IF) - Skin, Conjunctival biopsy, Buccal mucosa                                       | Immunopathology | Tissue biopsy<br>PowerChart: E-order choosing appropriate specimen. See Identification of Clinical Specimens. | Tuesday and Thursday | Negative  |                |  |
| Tissue Transglutaminase Antibody (see <a href="#">Anti-Tissue Transglutaminase Antibodies (IgA), Serum/Plasma</a> ) |                 |   |                      |   |                |  |
| Titanium, Erythrocytes  | Trace Elements  | Reference number 368381 - HMMS# 11073 - 6mL K2-EDTA Royal Blue Vacutainer tube<br>TRACE ELEMENTS REQUISITION  | Batched analysis     | SI Units (Reported on Patient Chart): 0.0-23.0 nmol/L<br><br>Conventional Units: 0.0-1.1 µg/L   |                | Reference Ranges are based on Non-Occupationally exposed population.<br><br>Find Interpretive Comment and Clinical Information here: |
| Titanium, Plasma  | Trace Elements  | Reference number 368381 - HMMS# 11073 - 6mL K2-EDTA Royal Blue Vacutainer tube<br>TRACE ELEMENTS REQUISITION  | Batched analysis     | SI Units (Reported on Patient Chart): 0.00-7.9 nmol/L<br><br>Conventional Units: 0.00-0.38 µg/L |                | Reference Ranges are based on Non-Occupationally exposed population.<br><br>Find Interpretive Comment and Clinical Information here: |

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| Titanium, Serum  | Trace Elements | Reference number 368380 - HMMS# 260 - 6 mL Non Additive Royal Blue Vacutainer tube<br>TRACE ELEMENTS REQUISITION | Batched analysis | SI Units<br>(Reported on Patient Chart):<br>0.0-5.8 nmol/L<br><br>Conventional Units:<br>0.00-0.28 µg/L |                | Reference Ranges are based on Non-Occupationally exposed population.<br><br>Find Interpretive Comment and Clinical Information here: |
| Titanium, Whole Blood  | Trace Elements | Reference number 368381 - HMMS# 11073 - 6mL K2-EDTA Royal Blue Vacutainer tube<br>TRACE ELEMENTS REQUISITION     | Batched analysis | SI Units<br>(Reported on Patient Chart):<br>0.0-20.9 nmol/L.<br><br>Conventional Units:<br>0.0-1.0 µg/L | 2008-09-19     | Reference Ranges are based on Non-Occupationally exposed population.<br><br>Find Interpretive Comment and Clinical Information here: |
| TNT - High sensitivity (see <u>High Sensitivity Troponin T</u> ) |                |  |                  |   |                |  |
|  |                |  |                  |   |                |  |

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| Tobramycin, Serum/Plasma<br>Aminoglycosides     | Core (VH)  | 4.5 mL Green (Lithium Heparin) top Vacutainer tube<br><br><b>Pediatric:</b><br>0-2 yrs: Green top Microtainer (BD 365985)<br>2-10 yrs: 2 mL Green top GENERAL LABORATORY REQUISITION | Daily         | <u>Therapeutic Range</u><br><br><b>Trough (Pre Dose):</b><br>< = 1.4 mg/L<br><b>Peak (Post Dose):</b><br>6-10 mg/L | 2010-07-12     |          |
| Tofranil (see <u>Imipramine, Serum/Plasma</u> ) |            |  |               |  |                |          |
| Topamax (see <u>Topiramate, Serum/Plasma</u> )  |            |  |               |  |                |          |
|   |            |  |               |  |                |          |

| Test Name  | Laboratory                   | Specimen Type  | Test Schedule                | Reference Range | Effective Date | Comments |
|--|------------------------------|--|------------------------------|-----------------|----------------|----------|
| Topiramate, Serum/Plasma<br>Topamax  | Toxicology/Special Chemistry | 6 mL Red or 6 mL Green or 4 mL Lavender top Vacutainer tube<br><br><b>Pediatric:</b><br>2-10 yrs: 2 mL Red or Dark Green top<br>0-2 yrs: Red 0.5pk. or 0.6 Green pk.<br>GENERAL LABORATORY REQUISITION | Monday - Friday<br>0800-1600 | 15-60 µmol/L    | 2006-06-01     |          |
| Total (conjugated and unconjugated) metanephrines (see <u>Metanephrines, Urine</u> ) |                              |  |                              |                 |                |          |
| Total Complement Function Assay (see <u>Complement Total, Serum</u> )                |                              |  |                              |                 |                |          |
| Total Homocysteine (see <u>Homocysteine</u> )  |                              |  |                              |                 |                |          |
| Total PSA (see <u>Prostate Specific Antigen, Plasma/Serum</u> )                      |                              |  |                              |                 |                |          |
|  |                              |  |                              |                 |                |          |

| Test Name  | Laboratory        | Specimen Type  | Test Schedule   | Reference Range | Effective Date | Comments   |
|--|-------------------|--|---|-----------------|----------------|--|
| Toxocara Serology  | Microbiology (VH) | Blood-5 mL Gold or 6 mL Red top Vacutainer tube<br>PUBLIC HEALTH LABORATORY TEST REQUISITION | Referred out weekdays to the Public Health Laboratory in Toronto. |                 | 2010-09-28     | Adequate clinical and epidemiological information must accompany the specimen. |
| Toxoplasma (see <u>Ova and Parasites-Blood and Tissue</u> )                    |                   |  |   |                 |                |  |
| Toxoplasma Serology - Toxoplasma IgG/IgM                                       | Core (UH)         | 5 mL Gold or 6 mL Red top Vacutainer tube<br>GENERAL LABORATORY REQUISITION                  | Daily Monday-Friday   | See report      | 2006-07-01     |  |
| TPMT Genotype (see <u>Thiopurine Methyltransferase: Genotype</u> )             |                   |  |   |                 |                |  |
| TPMT Phenotype (see <u>Thiopurine Methyltransferase: Phenotype</u> )           |                   |  |   |                 |                |  |
| TRAb (see <u>Anti-Thyroid Stimulating Hormone Receptor Antibodies, Serum</u> ) |                   |  |   |                 |                |  |
|  |                   |  |   |                 |                |  |

| Test Name   | Laboratory     | Specimen Type  | Test Schedule    | Reference Range   | Effective Date | Comments |
|---|----------------|--|------------------|---|----------------|----------|
| Trace Elements<br>Creatinine, Urine<br>Creatinine, Urine-<br>Random for Trace<br>Elements<br>Creute<br>Creatinine Trace<br>Elements | Trace Elements | 24 hour urine<br>collected in an<br><b>unused</b> 24<br>hour urine<br>container or<br>random urine<br>TRACE<br>ELEMENTS<br>REQUISITION | Batched analysis | <u>Creatinine</u><br><u>Reference</u><br><u>Ranges used for</u><br><u>random urine</u><br><u>calculations</u><br>for Trace<br>Elements<br><br><b>SI Units mmol/L</b><br><br>AgeFemaleRangeMean0-112.0-<br>14.78.412-193.6-<br>25.613.820-<br>291.9-<br>23.112.230-<br>391.2-<br>21.410.140-<br>490.8-18.28.550-<br>591.1-15.37.260-<br>691.2-15.57.370-<br>791.3-15.47.0≥<br>800.9-10.65.7<br><br>AgeMaleRangeMean0-113.5-<br>15.08.8 (more...) | 2012-06-25     |          |



| Test Name   | Laboratory | Specimen Type  | Test Schedule           | Reference Range                   | Effective Date | Comments |
|---|------------|--|-------------------------|-----------------------------------|----------------|----------|
| Trace Elements Magnesium, Urine (see Magnesium for Trace Elements, Urine) |            |  |                         |                                   |                |          |
| Transferrin Isoelectric Focussing, Serum/Plasma                           | Core       | 5 mL Gold top Vacutainer is preferable or 6 mL Green (Sodium Heparinized) top Vacutainer is acceptable<br>GENERAL LABORATORY REQUISITION | Referred out Wednesdays | A descriptive report will be sent | 2006-09-06     |          |
|   |            |  |                         |                                   |                |          |

| Test Name  | Laboratory          | Specimen Type  | Test Schedule | Reference Range | Effective Date | Comments  |
|--|---------------------|--|---------------|-----------------|----------------|---|
| Transferrin Saturation<br>UIBC<br>Iron Overload Screen | Core (all campuses) | 4.5 mL Light Green (Li Heparin)<br>Vacutainer tube<br><br>GENERAL LABORATORY REQUISITION |               | 11.0-56.0%      |                | <p>The test is not valid and may be misleading in patients receiving iron therapy.</p> <p>Useful in the investigation of suspected iron deficiency or iron overload. Serum ferritin is the preferred method for assessing iron stores.</p> <p>Assessment of patients with acute iron poisoning.</p> <p>In cases of iron deficiency, the transferrin saturation is lowered; with iron overload, it is increased.</p> |

| Test Name   | Laboratory | Specimen Type   | Test Schedule | Reference Range | Effective Date | Comments  |
|---|------------|---|---------------|-----------------|----------------|---|
| Transferrin, Plasma TRF                                       | Core       | <p><b>Adult:</b><br/>4.5 mL Green (Lithium Heparin) top Vacutainer</p> <p><b>Pediatric:</b><br/>0-2 years: 0.5 mL Light Green top (Li-Heparin) Microtainer<br/>2-10 years: 3 mL Light Green top (Li-Heparin) Vacutainer tube<br/>GENERAL LABORATORY REQUISITION</p> | Daily         | 2.00-3.60 g/L   | 2010-01-11     | <p>Turbidimetric assays not suitable for measurement of highly lipemic or hemolytic samples or samples containing high levels of circulating immune complexes.</p> <p>Transferrin quantitation not to be confused with transferrin saturation. <b>To screen for chronic iron overload diseases, hemochromatosis, please order Transferrin saturation.</b></p> |
| Transfusion ABC (see <a href="#">HLA Transfusion Typing</a> ) |            |   |               |                 |                |   |
|   |            |   |               |                 |                |   |

| Test Name   | Laboratory        | Specimen Type   | Test Schedule                | Reference Range  | Effective Date | Comments   |
|---|-------------------|---|------------------------------|------------------|----------------|--|
| Transfusion Reaction Investigation  | Blood Transfusion | 6 mL Pink (EDTA) top Vacutainer or Donor Tag (SJHC)<br>BLOOD TRANSFUSION REQUISITION or Electronic order                        | Daily Urgent, if indicated   | See report       |                | System Code:<br>Determined by Transfusion Reaction Course.<br>Further blood transfusion should not occur until investigation is complete<br>N/A<br>Results will be interpreted by Hematologist or designate. |
| Transglutaminase Antibody (see <u>Anti-Tissue Transglutaminase Antibodies (IgA), Serum/Plasma</u> ) |                   |   |                              |                  |                |  |
| Transthyretin (see <u>Prealbumin, Serum</u> )   |                   |   |                              |                  |                |  |
| Trazodone<br>Desyrel  | Core              | 4 mL Dark Green (Lithium Heparin) top Vacutainer tube<br><br><b>Avoid gel-separator tubes</b><br>GENERAL LABORATORY REQUISITION | Referred out Monday-Thursday | 2.2 - 4.3 µmol/L | 2005-07-01     |  |
| TRF (see <u>Transferrin, Plasma</u> )   |                   |   |                              |                  |                |  |
| Trichinella (see <u>Ova and Parasites-Blood and Tissue</u> )  |                   |   |                              |                  |                |  |

| Test Name   | Laboratory        | Specimen Type   | Test Schedule   | Reference Range | Effective Date | Comments  |
|---|-------------------|---|---|-----------------|----------------|---|
| Trichinella Serology                              | Microbiology (VH) | Blood-5 mL Gold or 6 mL Red top Vacutainer tube<br>PUBLIC HEALTH LABORATORY TEST REQUISITION  | Referred out weekdays to the Public Health Laboratory in Toronto. |                 | 2010-09-28     | Adequate clinical and epidemiological information must accompany the specimen.<br><br>Clearly indicate on label and requisition "TRICHINOSIS SEROLOGY". |
| Tricyclic Screen<br>Tricyclics, Plasma            | Core UH & VH      | 4.5 mL Green (Lithium Heparin) top Vacutainer tube (preferred) or 5 mL Gold top Vacutainer tube<br><br><b>Pediatric:</b><br>0-2 yrs: 0.5pk. Green top<br>2-10 yrs: 2 mL Green top<br>GENERAL LABORATORY REQUISITION | As required   | Negative        | 2009-06-04     |   |
| Tricyclics, Plasma (see <u>Tricyclic Screen</u> ) |                   |   |   |                 |                |   |
|   |                   |   |   |                 |                |   |

| Test Name                                   | Laboratory   | Specimen Type  | Test Schedule                   | Reference Range  | Effective Date | Comments  |
|---|--------------|--|---------------------------------|--|----------------|---|
| Triglycerides, Plasma                       | Core UH & VH | 4.5 mL Green top Vacutainer<br><br><b>Pediatric:</b><br>0-2 yrs: Green top Microtainer (BD 365985)<br>2-10 yrs: 3 mL Green top<br>GENERAL LABORATORY REQUISITION | Weekdays                        | * See interpretation of lipid profile<br>Increased risk of cardiovascular disease at triglycerides level greater than 2.0 mmol/L;<br>increased risk of acute pancreatitis at triglycerides level greater than 10.0 mmol/L (Lancet 2014;384:626-635). | 2008-11-15     | Cholesterol target levels are dependent upon patient 10-year risk of coronary artery disease (Can J Cardiol 2013;29:151-67).<br><br>Triglyceride: Suggested optimal plasma triglyceride concentration is <1.50 mmol/L. Triglyceride level >10.00 mmol/L is a risk factor for pancreatitis |
| Trimipramine, Serum/<br>Plasma<br>Surmontil | Core         | 2 x 6 mL Red top Vacutainer tube or 2 x Lavender top Vacutainer tubes<br><br><b>Avoid gel-separator tubes</b><br>GENERAL LABORATORY REQUISITION                  | Referred out<br>Monday-Thursday | 170-1000 nmol/L  | 2005-07-01     |   |

| Test Name   | Laboratory           | Specimen Type  | Test Schedule | Reference Range   | Effective Date | Comments |
|---|----------------------|--|---------------|---|----------------|----------|
| Tripeptidyl Peptidase 1, Dried Blood Spot/Fibroblast<br>CLN2 Peptidase LINCL<br>Batten Disease          | Biochemical Genetics | 1. Blood dot on PKU-type card<br><br>2. Fibroblast<br>1. GENERAL LABORATORY REQUISITION<br><br>2. BIOCHEMICAL GENETICS LAB REQUISITION | As required   | Dried Blood Spot:<br>2.6-7.8 nmol/24 hr/3 mm disc<br><br>Fibroblast:<br>47-114 nmol/hr/mg protein | 2008-06-10     |          |
| Triple Marker (see <u>Maternal Serum Screen (for Open Neural Tube Defect and Down Syndrome Risks)</u> ) |                      |  |               |   |                |          |
| Triple Screen (see <u>Maternal Serum Screen (for Open Neural Tube Defect and Down Syndrome Risks)</u> ) |                      |  |               |   |                |          |
| Triptil (see <u>Protriptyline, Serum</u> <b>TESTING ON HOLD as of 11/09/15</b> )                        |                      |  |               |   |                |          |
| Tropheryma whipplei (see <u>Whipple's Disease</u> )   |                      |  |               |   |                |          |
| Troponin T - High sensitivity (see <u>High Sensitivity Troponin T</u> )                                 |                      |  |               |   |                |          |
| Trypanosoma (see <u>Ova and Parasites-Blood and Tissue</u> )  |                      |  |               |   |                |          |
| Trypanosomiasis Screen (see <u>Blood Parasite Screen</u> )  |                      |  |               |   |                |          |
| Trypsin-like immunoreactivity (see <u>Trypsin/Trypsinogen, Serum</u> )                                  |                      |  |               |   |                |          |
|   |                      |  |               |   |                |          |

| Test Name   | Laboratory | Specimen Type  | Test Schedule                | Reference Range   | Effective Date | Comments |
|---|------------|--|------------------------------|-------------------|----------------|----------|
| Trypsin/Trypsinogen, Serum<br>Immunoreactive trypsin<br>Immunoreactive trypsinogen<br>Trypsin-like immunoreactivity | Core       | <b>Adult:</b><br>5 mL Gold Vacutainer tube<br><br><b>Pediatric:</b><br>0-2 years: 2 x 0.5 mL Red or Gold top Microtainers<br>2-10 years: 3 mL Red top Vacutainer tube<br><br>Light Green (Li-Heparin) or Lavender (EDTA) top tubes are <b>NOT</b> acceptable<br>GENERAL LABORATORY REQUISITION | Referred out Monday - Friday | 180.5 885.3 ng/mL | 2018-08-07     |          |



| Test Name   | Laboratory | Specimen Type   | Test Schedule                | Reference Range | Effective Date | Comments |
|---|------------|---|------------------------------|-----------------|----------------|----------|
| Tryptase, Serum/Plasma  | Core       | 5 mL Gold top Vacutainer tube or 6 mL Red top Vacutainer tube<br><br>Plasma is also acceptable. 4.5 mL Green Vacutainer (Li Heparin)<br><br><b>Pediatric:</b><br>0-2 years: Red 0.5 mL Microtainer<br>2-10 years: 2 mL Red top tube<br>GENERAL LABORATORY REQUISITION | Referred out Monday-Thursday | 3.8 11.4 g/L    | 2009-02-27     |          |
| TSH (see <u>Thyroid Stimulating Hormone, Plasma/Serum</u> )                     |            |   |                              |                 |                |          |
| TSH-3 (see <u>Thyroid Stimulating Hormone, Plasma/Serum</u> )                   |            |   |                              |                 |                |          |
| TSI (see <u>Anti-Thyroid Stimulating Hormone Receptor Antibodies, Serum</u> )   |            |   |                              |                 |                |          |
| tTGAB (see <u>Anti-Tissue Transglutaminase Antibodies (IgA), Serum/Plasma</u> ) |            |   |                              |                 |                |          |
| TTR (see <u>Familial Amyloidotic Polyneuropathy-TTR</u> )                       |            |   |                              |                 |                |          |
| Tularensis antibody (see <u>Francisella tularensis Serology</u> )               |            |   |                              |                 |                |          |