

August 16, 2018

## **INTRODUCTION of an EXPANDED IMMUNODEFICIENCY TEST MENU by FLOW CYTOMETRY**

**Date Effective: August 16, 2018**

The Immunology Laboratory at Health Sciences Centre is pleased to announce the expansion of its immune deficiency testing menu. Laboratory testing plays a central role in the evaluation of the immune system. The range of laboratory testing available to evaluate the immune system continues to expand. This has been driven by continuously expanding knowledge in the field and new opportunities for disease management. Our laboratory strives to provide efficient, reliable, and high-quality services that contribute to enhanced patient care.

Alongside the current Lymphocyte Enumeration and Neutrophil Oxidative Burst Assays, the following tests will also be available:

- **Leukocyte Adhesion Deficiency (Type I and II)**
- **Regulatory T Cells (TREG)**
- **CD4 Recent Thymic Emigrants** (Includes Naïve and Memory T Cells)
- **Advanced B Cell Subsets** (Includes Transitional, Naïve, Memory, Marginal Zone, IgM Only, Switched Memory, Plasmablasts, and CD21±)
- **Advanced T Cell Subsets** (Includes Naïve, Central Memory, Effector Memory, and Activated Helper T Cells)

It should be noted that these assays provide quantitative information on various cell subsets in blood; it does not provide any information on functional state of the cells.

All results will be provided with age-appropriate reference ranges which have been established in-house or adopted and verified to be appropriate for our population.

By providing these services in-house we can ensure testing is performed on fresher samples resulting in more accurate interpretation and reduce turn-around times to assist in earlier diagnosis and treatment.

These additions will be accompanied with a new requisition dedicated to flow cytometry testing.

Requests for testing beyond this expanded menu will continue to require prior approval.

### **References/Resources:**

Requisition: [Flow Cytometry Laboratory Requisition](#)  
LAD: [Leukocyte Adhesion Deficiency](#)  
TREG: [Regulatory T Cells](#)  
RTE4: [CD4+ Recent Thymic Emigrants](#)  
PBBS: [Advanced B Cell Phenotyping](#)  
PBTS: [Advanced T Cell Phenotyping](#)  
Referral Approval Form: [Immunology/Hematology Approval for Test Referral](#)

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