
MEMORANDUM

To: All Laboratory Users

From: Department of Laboratory Medicine

Date: 01 October 2024

Re: **Re-instatement of In-House Testing for CD4:CD8 Ratio Panel and Lymphocyte Subsets**

Dear Users of Laboratory Medicine,

With effect from 01 October 2024, two new tests will be offered in-house at the Haematology Flow Cytometry Lab, the CD4:CD8 Ratio Panel and Lymphocyte Subsets. These tests will no longer be referred to Tan Tock Seng Hospital Laboratory. As the methodology is similar, tests performed in NUH can still be trended with tests performed previously at TTSH.

1. CD4:CD8 Ratio Panel

Test name:	CD4:CD8 Ratio Panel
Service Code:	12674
Sample type:	Fresh Whole Blood (EDTA)
Minimum Volume:	1mL Whole Blood
Sample Stability:	48 hours in ambient temperature (18 – 25°C), strictly. Send samples as soon as possible after collection.
Clinical indication:	For routine HIV monitoring This assay is designed to enumerate percent and absolute cell count of CD4 and CD8 T-cells and CD4:CD8 ratio.
Test days:	Tuesday and Thursday ONLY
Sample Collection Instructions:	<ul style="list-style-type: none"> To collect specimens from Monday through Thursday only, before 11:00 AM. Specimens collected on Tuesday and Thursday must arrive in the Laboratory before 11:00AM Do not collect specimens on Friday, Saturday, Sunday, Public Holiday and after 11.00 AM on Tuesdays and Thursdays, as the 48-hour sample stability window will be exceeded. Fresh specimen required.
Test results:	Lymphocytes, Abs (cells/uL) CD4 T Helper Cells (%) CD4 T Helper Cells, Abs (cells/uL) CD8 T Suppressor Cells (%) CD8 T Suppressor Cells, Abs (cells/uL) CD4/CD8 Ratio

Reference Interval:	The age- and gender-specific reference interval will be provided on the report.
Turnaround Time:	5 working days

2. Lymphocyte Subsets

Test name:	Lymphocyte Subsets
Service Code:	12675
Sample type:	Fresh Whole Blood (EDTA)
Minimum Volume:	1mL Whole Blood
Sample Stability:	48 hours in ambient temperature (18 – 25°C), strictly. Send samples as soon as possible after collection.
Clinical indication:	For monitoring after immunosuppression, immune reconstitution following transplantation and screening for primary immunodeficiency. This assay is designed to enumerate percent and absolute cell counts of lymphocyte subsets CD19 B-cells, CD3 T-cells (total, CD4, CD8) and CD56/CD16 NK-cells in whole blood.
Test days:	Tuesday and Thursday ONLY
Sample Collection Instructions:	<ul style="list-style-type: none"> ▪ To collect specimens from Monday through Thursday only, before 11:00 AM. ▪ Specimens collected on Tuesday and Thursday must arrive in the Laboratory before 11:00AM ▪ Do not collect specimens on Friday, Saturday, Sunday, Public Holiday and after 11.00 AM on Tuesdays and Thursdays, as the 48-hour sample stability window will be exceeded. ▪ Fresh specimen required.
Test results:	Lymphocytes, Abs (cells/uL) CD3, T Lymphocytes (%) CD3, T Lymphocytes Abs (cells/uL) CD4 T Helper Cells (%) CD4 T Helper Cells Abs (cells/uL) CD8 T Suppressor Cells (%) CD8 T Suppressor Cells Abs (cells/uL) CD19, B Cells (%) CD19, B Cells Abs (cells/uL) NK Cells (%) NK Cells Abs (cells/uL) CD4/CD8 Ratio
Reference Interval:	The age- and gender-specific reference interval will be provided on the report.
Turnaround Time:	5 working days

Please contact the flow cytometry staff at 67724016 for further enquiries.

Yours sincerely
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