

Lab to Order (and why) 2 of 3

- Flow Cytometry for B and T lymphocytes

- This is generally done only by an immunologic specialist. The pre-test probability should be high enough to send immediately, although in a case like this, even a normal lymphocyte number on the CBC w/ diff would warrant this study. It should be noted that flow cytometry to quantify naive and memory T cells can also be performed.

- **quantitative Immunoglobulins (qulGs)**

- This test will measure the level of total antibody (IgM, IgG, IgA, IgE) matched for age-adjusted normal values. The assay may not have sensitivity to detect 0 vs. a very low level. IgG subclass measurements are rarely helpful.

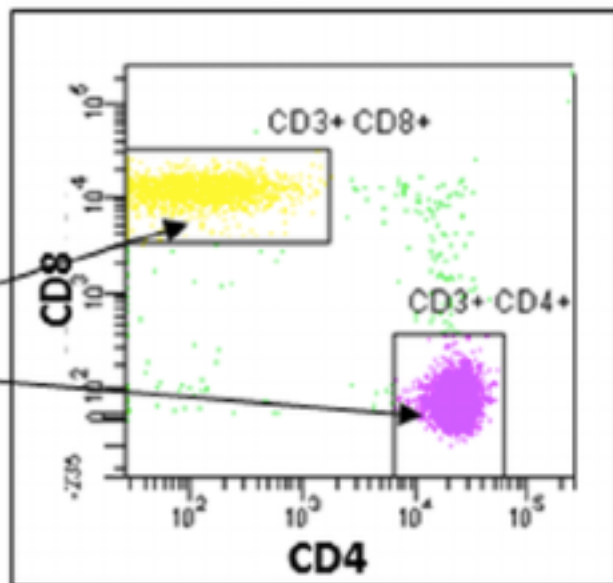
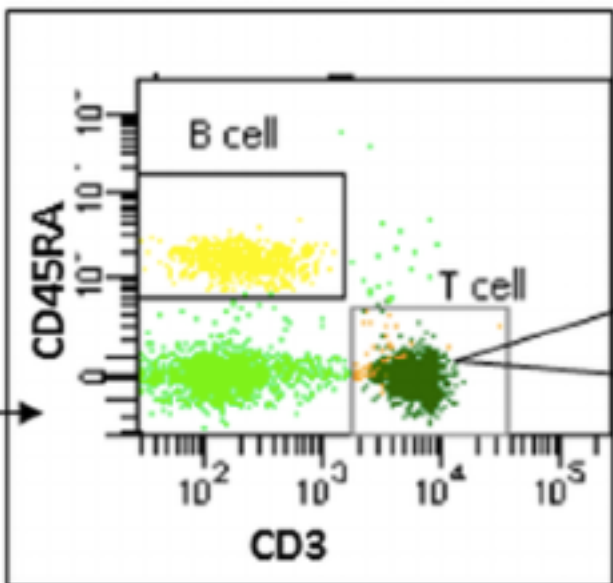
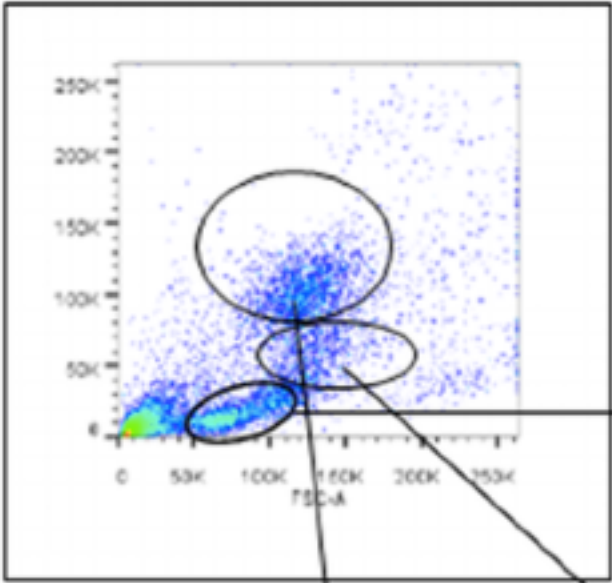


FSC vs. SSC

B and T cells

T cell subsets

An example of flow cytometry showing white blood cells sorted by size and density, then by cell surface markers to quantify populations.

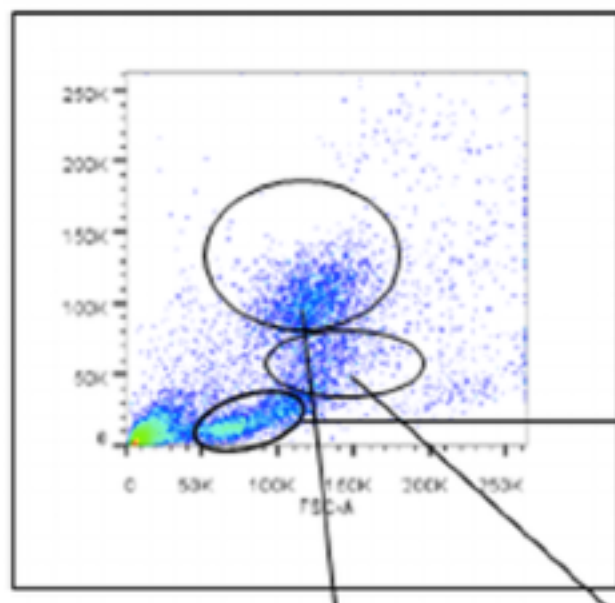


Abbondanzo and Chang *PLoS One*. 2014;9(8).

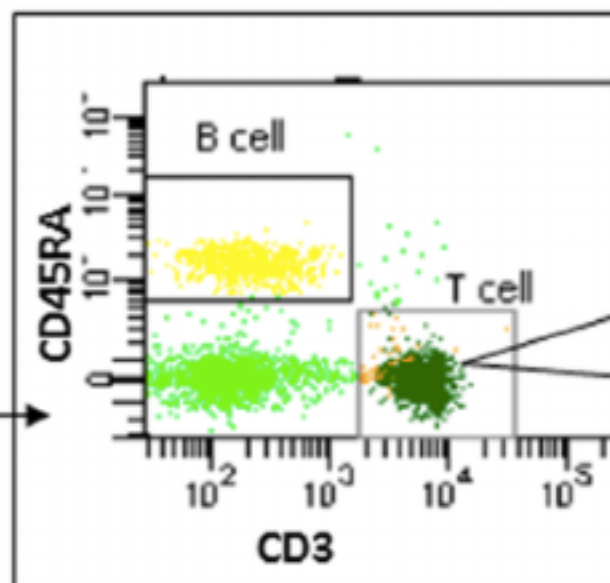
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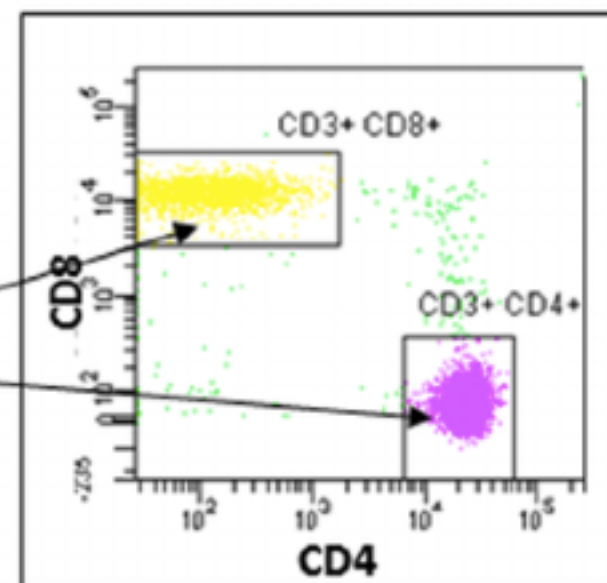
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