



To: Penn Medicine Physicians and Staff

Date: 10/26/2020

From: Malek Kamoun, MD, PhD  
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**Re: Temporary Change for Cytokine Assay Testing**

The Immunology Laboratory's current assay for Cytokine testing has been noted to have quality control issues. Until the issue is resolved, cytokine testing will be sent to ARUP laboratories. Please note that the panel and reference ranges are different.

HUP Ref. Ranges		
IFN-GAMMA	0-7	pg/mL
IL-15	0-120	pg/mL
IL-2	0-20	pg/mL
IL2R	95-851	pg/mL
IL-6	0-12	pg/mL
IL-7	0-100	pg/mL
TNF-ALPHA	0-22	pg/mL

ARUP Ref ranges		
IFN-GAMMA	<=4.2	pg/mL
IL-12	<=1.9	pg/mL
IL-2	<=2.1	pg/mL
IL2R	175.3-858.2	pg/mL
IL-6	<=2	pg/mL
IL-4	<=2.2	pg/mL
TNF-ALPHA	<=7.2	pg/mL
IL-5	<=2.1	pg/mL
IL-10	<=2.8	pg/mL
IL-13	<=2.3	pg/mL
IL-1beta	<=6.7	pg/mL
IL-8	<=3.0	pg/mL
IL-17	<=1.4	pg/mL

Note that ARUP does not perform IL-7 or IL-15.

The order codes and tube type (SST) will not change.

For clinical questions related to this change, please contact the Immunology Resident at 215-980-9871. For operational questions related to this change, please contact Joyce Gonzalez at [Joyce.Gonzalez@pennterms.upenn.edu](mailto:Joyce.Gonzalez@pennterms.upenn.edu) or 215-662-6023.