



Technical Memorandum

TO: Physicians, Staff
From: Wesley Kim, MD, Medical Director
Date: February 24, 2014
Subject: Immature Granulocyte Reference Range Update

Beginning March 17, 2014, Diagnostic Laboratory Services will be adjusting its upper normal reference Range for adult Immature Granulocytes in percent and absolute counts. The table below shows the previous and new updated ranges for your comparison.

Parameter	Previous Reference Range	New Reference Range
Immature Granulocyte %	0.0-0.6%	0.0-1.0%
Immature Granulocyte Absolute	0.00-0.04 x10(3)/uL	0.00-0.10 x10(3)/uL

This change is based on review of the literature, discussions with the manufacturer, review of published reference ranges from various other reference laboratories across the mainland, statistical review of data from our own patient population, and discussions with local physicians.

Immature granulocytes include Promyelocytes, Myelocytes, and Metamyelocytes. The interpretation of an elevated immature granulocyte result is an indicator that a left-shift is present in the patient's sample. This result should be interpreted in conjunction with the clinical history and physical exam to determine the clinical significance of the result and possible causes for a left-shift.

Thank you for your continued patience and understanding. If you have any questions, please call Client Services at 589-5101 or Dr. Wesley J. Kim at 589-5131.