

MEMORANDUM

TO: All Regional Medical Laboratory Clients
FROM: Caitlin Schein, MD, Chief of Chemistry
 Ryan Hatley, MHA, C(ASCP)^{CM}, Manager of Chemistry
DATE: March 22, 2017
SUBJECT: **Re-Standardized Insulin-Like Growth Factor-1 Assay**

Regional Medical Laboratory (RML) has received notification from Siemens (our reagent supplier) that the current IGF-1 immunoassay is being replaced by an assay re-standardized to the WHO 1st International Standard 02/254. In our internal comparison study, the re-standardized assay exhibited a linear relationship with results on average 32.8% lower than the current assay. Effective April 10, 2017, we will begin using the re-standardized assay. Patient results will on average be lower, and the new reference ranges below reflect this change.

Current Reference Ranges for IGF-1:

Age	Male	Female
2mo - 6yr	17 - 248	17 - 248
6 - 9 yr	88 - 474	88 - 474
9 - 12 yr	110 - 565	117 - 771
12 - 16 yr	202 - 957	261 - 1096
16 - 25 yr	182 - 780	182 - 780
25 - 40 yr	114 - 492	114 - 492
40 - 55 yr	90 - 360	90 - 360
55+ yr	71 - 290	71 - 290

New Reference Ranges for Re-standardized IGF-1:

Age	Male	Female
2mo - 6yr	26 - 174	26 - 174
6 - 9 yr	71 - 318	71 - 318
9 - 12 yr	85 - 377	90 - 508
12 - 16 yr	144 - 627	182 - 701
16 - 25 yr	131 - 514	131 - 514
25 - 40 yr	85 - 330	85 - 330
40 - 55 yr	73 - 245	73 - 245
55+ yr	60 - 201	60 - 201

Ordering information for IGF-1 will remain the same, TC# 2022625 and CPT 84305. Specimen requirements will also remain the same.

If you have questions or concerns, please feel free to contact either Dr. Caitlin Schein at 918-744-2553, caitlin.schein@sjmc.org, or Ryan Hatley at 918-744-2500, ext. 15788, ryan.hatley@sjmc.org.