



To: All Regional Medical Laboratory, Inc. (RML) Clients
 From: Regional Medical Laboratory, Inc.
 Ryan Hatley, MHA, C(ASCP)^{CM}, Manager of Chemistry
 Caitlin Schein, MD, Clinical Director, RML Central Laboratory Chemistry and LC/MS
 Date: February 20th, 2020
 Subject: **Change in Chemistry Instrumentation and Revised Reference Ranges**

Regional Medical Laboratory is pleased to announce the rolling implementation of the Abbott c System for chemistry testing at all our laboratories. The Abbott c System will bring added workflow efficiencies while maintaining the existing test menu. The introduction of the new systems will take place in stages beginning February 25th, 2020. In-house studies have determined that the tests involved exhibit excellent correlation with the existing testing platform. As a result of this implementation, there will be a revision of reference ranges and alert values for several orderables. See the list of impacted tests below. Revised reference ranges of the affected orders will appear in the RML Interface LiveWire. Please pay careful attention to the charted reference ranges and test units during this conversion as different RML labs may be reporting with different methodology and potentially different reference ranges and units of measure. Results should be compared with caution on patients with repeat testing.

Table 1 – Assays with revised reference ranges

Acetaminophen	Bilirubin, Direct	GGT	Phenobarbital	Urea Nitrogen
Albumin	Bilirubin, Total	Haptoglobin	Phenytoin	Valproic Acid
ALP	Carbamazepine	HDL	Phosphorus	Vancomycin
ALT	Ceruloplasmin	Iron/TIBC	Prealbumin	
Ammonia	Chloride	Lamotrigine	Protein, Total	
Amylase	Cholesterol	LDH	Salicylate*	
Apolipoprotein A1	CK	Levetiracetam	Theophylline	
Apolipoprotein B	Creatinine	Lipase	Transferrin	
AST	CRP, Cardio	Lithium	Triglycerides	
Bicarbonate	Gentamicin	Magnesium*	Uric Acid	

***Please note that magnesium will be reported in mg/dL (previously reported in mEq/dL) and salicylate will be reported in mg/dL (previously reported in mg/L).**

Table 2 – Assays included in implementation, but revision to reference range not required

Amylase, Ur	Creatinine, Ur	Microalbumin, Ur	Sodium, Ur
Beta-2 Microglobulin	Ethanol	Phosphorus, Ur	Urea Nitrogen, Ur
Blood Drug Screen	Glucose	Potassium	Uric Acid, Ur
Calcium, Ur	Glucose, Ur	Potassium, Ur	UDS Clinical
Chloride, Ur	Lactate	Protein, Ur	
C-Reactive Protein	LDL	Sodium	

Please contact Ryan Hatley or Dr. Caitlin Schein at 918-744-2553 with questions regarding this update.