



To: All Regional Medical Laboratory, Inc. (RML) Clients

From: Regional Medical Laboratory, Inc.
Caitlin Schein, MD, Clinical Director, RML Central Laboratory Chemistry & LC/MS
Liz Carreiro, BS, MLS, Manager of Chemistry, LC/MS, Specimen Operations

Date: July 8, 2020

Subject: Reference range update for Bicarbonate

Following the extensive rollout and implementation of the Abbott c System for chemistry testing, Regional Medical Laboratory performed a follow-up review of reference range limits compared with our patient population and nationally recognized clinical guidelines to ensure reference limits are established to meet the healthcare needs of the patients we serve. RML utilized our data warehouse to analyze over 88,000 patient results that met the criteria established during this review.

Our analysis determined that the Bicarbonate reference range for male and female patients 18 years and older will be updated to 20-31 mmol/L.

This change will be effective July 8, 2020. Updated reference ranges will post alongside patient results on both paper and electronic charts.

Current Reference Range (mmol/L)				New Reference Range (mmol/L)	
Female		Male		Female / Male	
0-14 days (d)	5-20	0-14 days (d)	5-20	0-14 days (d)	5-20
15 d - <1 yr	10-24	15 d - <1 yr	10-24	15 d - <1 yr	10-24
1-4 yrs	14-24	1-4 yrs	14-24	1-4 yrs	14-24
5-14 yrs	17-26	5-14 yrs	17-26	5-14 yrs	17-26
15- 18 yrs	17-26	15- 18 yrs	18-28	15- 17 yrs	17-26
19--60 yrs	22-29	19--60 yrs	22-29	18-150 yrs	20-31
60-150 yrs	23-31	60-150 yrs	23-31		

If you have any questions or concerns, contact Dr. Caitlin Schein 918-744-2553 or Liz Carreiro 918-744-2500 x15788.