



Laboratory Medicine Bulletin

Reporting Total Hemoglobin, Carboxyhemoglobin, and Methemoglobin from Blood Gas and Rapid Metabolic Panel (RMP)

June 28, 2018

As of July 3, 2018, the arterial blood gas panel and rapid metabolic panel at both St. Paul's Hospital and Mount Saint Joseph Hospital will now report total hemoglobin automatically. The total hemoglobin reference ranges are aligned with Hematology Complete Blood Count (CBC) hemoglobin reporting from the Sysmex analyzers. Both panels will also report carboxyhemoglobin and methemoglobin fractions when greater than 0.100 where there may be clinically significant symptoms.

Reference ranges:

	Age	Male	Female
Total Hemoglobin (g/L)	0 d to < 14 d	135-225	135-225
	14 d to < 32 d	125-205	125-205
	32 d to < 2 m	100-180	100-180
	2 m to < 6 m	90-140	90-140
	6 m to < 2 y	103-135	103-135
	2 y to < 6 y	105-147	105-147
	6 y to < 12 y	118-146	118-146
	12 y to < 19 y	125-169	117-149
	>19	135-170	115-155
Carboxyhemoglobin fraction (COHb / Total Hb)	All	<0.030	< 0.030
Methemoglobin fraction (MetHb / Total Hb)	All	<0.015	<0.015

Legend: d=days, m=months, y=years

Question?

Please do not hesitate to contact us if you have any questions or concerns.

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