

August 15, 2023

Chemistry and Immunoassay Reporting Standardization LEHIGH VALLEY ORTHOPEDIC INSTITUTES

Go-Live Date: **August 23, 2023**

Description of change: Effective August 23rd 2023, as part of an ongoing standardization for chemistry and immunoassay testing, some updates will be made for result reporting at the Lehigh Valley Orthopedic Institutes.

There may be modifications to reports and reference ranges as a result of the chemistry and immunoassay standardization. All reference ranges that are affected will have a comment attached to designate the update. Please note some test calculations have been updated to reflect current recommendations.

To view new reference ranges for tests going live, click [HERE](#).
Please note: some reference ranges will be attached as a comment.

Additional Information

If you have additional questions regarding these tests, please contact Technical Support between the hours of 8 a.m. and 4:30 p.m. For general questions, Customer Care is available to assist at any time.

Technical Support/Customer Care

Call 877-402-4221

Effective: Aug. 23, 2023

ADULT REFERENCE RANGES

BECKMAN COULTER CHEMISTRY AND IMMUNOASSAY TESTS	TEST NAME	ADULT REFERENCE RANGES (≥19 YEARS OF AGE)	
	Albumin	3.5–5.7 g/dL	
	ALPH	35–120 U/L	
	ALT	<56 U/L	
	AST	<41 U/L	
	Bilirubin, Total	0.2–1.0 mg/dL	
	Calcium	8.5–10.1 mg/dL	
	Chloride	100–109 mmol/L	
	CO ₂	21–31 mmol/L	
	Creatinine	Female: 0.40–1.10 mg/dL	Male: 0.53–1.30 mg/dL
	Glucose	65–99 mg/dL	
	hsTropi I	Female: ≤12ng/L	Male: ≤20 ng/L
	(K) Potassium	3.5–5.2 mmol/L	
	Magnesium	1.4–2.2 mg/dL	
	Protein, Total	6.3–8.3 g/dL	
	Sodium	135–145 mmol/L	
Urea	Female: 7–25 mg/dL	Male: 7–28 mg/dL	

PEDIATRIC REFERENCE RANGES

ALB	0– <15 days (M/F)	3.1–4.3 g/dL
	15 days– < 1 year (M/F)	2.8–4.8 g/dL
	1– < 8 years (M/F)	3.8–4.7 g/dL
	8– < 15 years (M/F)	3.9–4.9 g/dL
	15– < 19 years (M/F)	3.8–5.2 g/dL
ALPH	0– <15 days (M/F)	76–233 U/L
	15 days– < 1 year (M/F)	113–443 U/L
	1– < 10 years (M/F)	132–315 U/L
	10– < 13 years (M/F)	119–393 U/L
	13– < 15 years (F)	52–239 U/L
	13– < 15 years (M)	107–442 U/L
	15– < 17 years (F)	45–108 U/L
	15– < 17 years (M)	75–312 U/L
	17– < 19 years (F)	40–80 U/L
17– < 19 years (M)	49–139 U/L	
AST	0– <15 days (M/F)	30–146 U/L
	15 days– < 1 year (M/F)	19–61 U/L
	1 year– < 7 years (M/F)	20–40 U/L
	7– < 12 years (M/F)	17–33 U/L
	12– < 19 years (F)	12–24 U/L
	12– < 19 years (M)	13–32 U/L

BUN	0-<15 days (M/F)	3-22 mg/dL
	15 days-< 1 year (M/F)	4-17 mg/dL
	1 year-< 10 years (M/F)	9-22 mg/dL
	10-< 19 years (M/F)	7-20 mg/dL
CA	0-< 12 years (M/F)	8.6-10.3 mg/dL
	≥ 12 years (M/F)	8.5-10.1 mg/dL
CREA	0-<15 days (M/F)	0.30-0.90 mg/dL
	15 days-< 2 year (M/F)	0.10-0.40 mg/dL
	2 year-< 5 years (M/F)	0.20-0.40 mg/dL
	5 years-< 12 years (M/F)	0.30-0.60 mg/dL
	12 years-< 15 years (M/F)	0.50-0.80 mg/dL
	15 years-< 19 years (F)	0.50-0.80 mg/dL
	15 years-< 19 years (M)	0.60-1.10 mg/dL
GLUCOSE	< 7 days (M/F)	47-110 mg/dL
	≥ 7 days (M/F)	65-99 mg/dL
K	< 11 Days (M/F)	3.7-5.9 mmol/L
	≥ 11 Days (M/F)	3.5-5.2 mmol/L
MG	0-<15 days (M/F)	1.9-3.8 mg/dL
	15 days-< 1 year (M/F)	1.9-3.0 mg/dL
	1 year-< 19 years (M/F)	2.0-2.7 mg/dL
TOTAL BILIRUBIN	0-<1 day (M/F)	0.2-8.0 mg/dL
	1 day-<2 days (M/F)	0.2-11.0 mg/dL
	2-14 days (M/F)	0.2-13.0 mg/dL
	15 days-<1 year (M/F)	0.1-0.7 mg/dL
	1 year-< 9 years (M/F)	0.1-0.4 mg/dL
	9 years-< 12 years (M/F)	0.1-0.6 mg/dL
	12 years-<15 years (M/F)	0.2-0.7 mg/dL
	15 years-<19 years (M/F)	0.2-0.8 mg/dL
TOTAL PROTEIN	0-<15 days (M/F)	5.2-7.9 g/dL
	15 days-< 1 year (M/F)	4.3-6.8 g/dL
	1 year-< 6 years (M/F)	5.9-7.2 g/dL
	6 years-< 19 years (M/F)	6.2-7.7 g/dL

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