

TABLE 2 CLINICAL CHEMISTRY AND IMMUNOLOGY (CONTINUED)

Analyte	Specimen	SI Units	Conventional Units
B-type natriuretic peptide (BNP)	P	Age and gender specific: <100 ng/L	Age and gender specific: <100 pg/mL
Bence Jones protein, serum qualitative	S	Not applicable	None detected
Bence Jones protein, serum quantitative	S		
Free kappa		3.3–19.4 mg/L	0.33–1.94 mg/dL
Free lambda		5.7–26.3 mg/L	0.57–2.63 mg/dL
K/L ratio		0.26–1.65	0.26–1.65
Beta-2-microglobulin	S	1.1–2.4 mg/L	1.1–2.4 mg/L
Bile acids	S		
Cholic acid		0–1.9 μmol/L	0–1.9 μmol/L
Chenodeoxycholic acid		0–3.4 μmol/L	0–3.4 μmol/L
Deoxycholic acid		0–2.5 μmol/L	0–2.5 μmol/L
Ursodeoxycholic acid		0–1.0 μmol/L	0–1.0 μmol/L
Total		0–7.0 μmol/L	0–7.0 μmol/L
Bilirubin	S		
Total		5.1–22 μmol/L	0.3–1.3 mg/dL
Direct		1.7–6.8 μmol/L	0.1–0.4 mg/dL
Indirect		3.4–15.2 μmol/L	0.2–0.9 mg/dL
C peptide	S	0.27–1.19 nmol/L	0.8–3.5 ng/mL
C1-esterase-inhibitor protein	S	210–390 mg/L	21–39 mg/dL
CA 125	S	<35 kU/L	<35 U/mL
CA 19-9	S	<37 kU/L	<37 U/mL
CA 15-3	S	<33 kU/L	<33 U/mL
CA 27-29	S	0–40 kU/L	0–40 U/mL
Calcitonin	S		
Male		0–7.5 ng/L	0–7.5 pg/mL
Female		0–5.1 ng/L	0–5.1 pg/mL
Calcium	S	2.2–2.6 mmol/L	8.7–10.2 mg/dL
Calcium, ionized	WB	1.12–1.32 mmol/L	4.5–5.3 mg/dL
Carbon dioxide content (TCO ₂)	P (sea level)	22–30 mmol/L	22–30 meq/L
Carboxyhemoglobin (carbon monoxide content)	WB		
Nonsmokers (in a nonsmoking environment)		0.0–0.025	0–2.5% of total hemoglobin (Hgb) value
Smokers		0.04–0.09	4–9% of total Hgb value
Loss of consciousness and death		>0.50	>50% of total Hgb value
Carcinoembryonic antigen (CEA)	S		
Nonsmokers		0.0–3.0 μg/L	0.0–3.0 ng/mL
Smokers		0.0–5.0 μg/L	0.0–5.0 ng/mL
Ceruloplasmin	S	250–630 mg/L	25–63 mg/dL
Chloride	S	102–109 mmol/L	102–109 meq/L
Cholesterol (LCL, Total, HDL): Ranges depend on individual patient factors; see 2013 ACC/AHA Guideline on the Treatment of Blood Cholesterol			
Cholinesterase	S	5–12 kU/L	5–12 U/mL
Chromogranin A	S	0–95 μg/L	0–95 ng/mL
Complement	S		
C3		0.83–1.77 g/L	83–177 mg/dL
C4		0.16–0.47 g/L	16–47 mg/dL
Complement total		60–144 CAE units	60–144 CAE units
Cortisol			
Fasting, 8 A.M.–12 noon	S	138–690 nmol/L	5–25 μg/dL
12 noon–8 P.M.		138–414 nmol/L	5–15 μg/dL
8 P.M.–8 A.M.		0–276 nmol/L	0–10 μg/dL
C-reactive protein	S	<10 mg/L	<10 mg/L
C-reactive protein, high sensitivity	S	Cardiac risk	Cardiac risk
		Low: <1.0 mg/L	Low: <1.0 mg/L
		Average: 1.0–3.0 mg/L	Average: 1.0–3.0 mg/L
		High: >3.0 mg/L	High: >3.0 mg/L

(Continued)