



Department of Laboratory Services

BayCare Laboratory Critical Values Chart --- revised 9/20/18

Hematology	Critical Low	Critical High	Units of Measure	CV Reporting Time (Time Test Performed to Called Time)
Hemoglobin	Less than 7.1	Greater than 19.9 (Adults Only)	g/dL	Less than 30 minutes
WBC	Less than 2.1	Greater than 29.9	th/uL	Less than 30 minutes
Platelets	Less than 31	None	th/uL	Less than 30 minutes
WBC, CSF		Greater than 5.9	uL	Less than 30 minutes
Coagulation	Critical Low	Critical High	Units of Measure	CV Reporting Time
INR	None	Greater than 3.99		Less than 30 minutes
PTT		Greater than 90	seconds	Less than 30 minutes
Fibrinogen	Less than 40.1	None	mg/dL	Less than 30 minutes
Chemistry - General	Critical Low	Critical High	Units of Measure	CV Reporting Time
Bilirubin, Neonatal	None	Greater than 14.9	mg/dL	Less than 30 minutes
Calcium	Less than 7.1	Greater than 12.9	mg/dL	Less than 30 minutes
CO2	Less than 10	Greater than 39	mmol/L	Less than 30 minutes
Creatinine, Serum -- Pediatric (0 - 12 years)	None	Greater than 1.5	mg/dL	Less than 30 minutes
Creatinine, Serum -- Pediatric (12 years, 1 day - 18 years)	None	Greater than 2.0	mg/dL	Less than 30 minutes
Glucose (Neonates)	Less than 39	Greater than 400	mg/dL	Less than 30 minutes
Glucose (Pediatric-Adults)	Less than 50	Greater than 400	mg/dL	Less than 30 minutes
Lactate (Lactic Acid)	None	Greater than 4	mmol/L	Less than 30 minutes
Magnesium	Less than 1.2	Greater than 3.3	mg/dL	Less than 30 minutes
Potassium (Neonates)	Less than 2.6	Greater than 6.5	mmol/L	Less than 30 minutes
Potassium (Pediatric-Adults)	Less than 3.0	Greater than 5.9	mmol/L	Less than 30 minutes
Sodium	Less than 121	Greater than 159	mmol/L	Less than 30 minutes
Chemistry - Cardiac Marker	Critical Low	Critical High	Units of Measure	CV Reporting Time
Troponin I	None	Greater than 1.00	ng/mL	Less than 30 minutes
Troponin T (WH / WHWH)	None	Greater than 0.09	ng/mL	Less than 30 minutes
Chemistry - Therapeutic Drugs	Critical Low	Critical High	Units of Measure	CV Reporting Time
Acetaminophen	None	Greater than 150	mcg/mL	Less than 30 minutes
Amikacin Trough	None	Greater than 10	mcg/mL	Less than 30 minutes

Amikacin Peak	None	Greater than 35	mcg/mL	Less than 30 minutes
Carbamazepine	None	Greater than 15	mcg/mL	Less than 30 minutes
Digoxin	None	Greater than 2.4	ng/mL	Less than 30 minutes
Gentamicin Trough	None	Greater than 1.9	mcg/mL	Less than 30 minutes
Gentamicin Peak	None	Greater than 12	mcg/mL	Less than 30 minutes
Lithium	None	Greater than 2.0	mmol/L	Less than 30 minutes
Phenobarbital	None	Greater than 60	mcg/mL	Less than 30 minutes
Phenytoin	None	Greater than 25	mcg/mL	Less than 30 minutes
Primidone	None	Greater than 15.0	mcg/mL	Less than 30 minutes
Salicylate	None	Greater than 31	mg/dL	Less than 30 minutes
Theophylline	None	Greater than 20.1	mcg/mL	Less than 30 minutes
Tobramycin Trough	None	Greater than 1.9	mcg/mL	Less than 30 minutes
Tobramycin Peak	None	Greater than 12	mcg/mL	Less than 30 minutes
Valproic Acid	None	Greater than 119	mcg/mL	Less than 30 minutes
Vancomycin Trough and Random	None	Greater than 25	mcg/mL	Less than 30 minutes
Vancomycin Peak	None	Greater than 50	mcg/mL	Less than 30 minutes
<b>Blood Bank</b>	<b>Critical Value</b>			<b>CV Reporting Time</b>
Direct Coombs, Newborns	Positive			Less than 30 minutes
Transfusion Reaction	All			Less than 30 minutes
<b>Microbiology</b>	<b>Critical Value</b>			<b>CV Reporting Time</b>
Blood Culture	Positive Culture or Gram Stain	see Blood Culture Chart		Less than 30 minutes
AFB Stain and/or Culture	Call first Positive result			Less than 30 minutes
CSF Stain and/or Culture	Call first Positive result			Less than 30 minutes
Mycobacterium Tuberculosis PCR CSF	Positive			Less than 30 minutes
AFB AMP PROBE	Positive for TB			Less than 30 minutes
HSV 1+2 PCR	Positive in CSF and Blood			Less than 30 minutes
HSV/VZV panel by PCR	Positive in CSF and Blood			Less than 30 minutes
VZV PCR	Positive in CSF and Blood			Less than 30 minutes
Cryptococcal Ag	Positive in CSF			Less than 30 minutes
Pneumococcal Ag Urine/CSF	Positive in CSF			Less than 30 minutes
CMV PCR Qualitative	Positive in CSF			Less than 30 minutes
EBV PCR Quantitative	Positive in CSF			Less than 30 minutes
Respiratory Panel PCR	Positive for Bordetella pertussis			Less than 30 minutes
Bordetella Pert/Para PCR	Positive			Less than 30 minutes
<b>Cytogenetics/FISH</b>	<b>Critical Value</b>			<b>CV Reporting Time</b>
Diagnostic t(15;17) (PML/RARA)	Positive by FISH or Cytogenetic Analysis			Less than 12 hours
<b>Respiratory Care</b>	<b>Critical Low</b>	<b>Critical High</b>	<b>Units of Measure</b>	<b>CV Reporting Time</b>
pH (Less than 12 Years)	Less than 7.19	Greater than 7.5		Less than 30 minutes
pH (Greater than 12 Years)	Less than 7.28	Greater than 7.55		Less than 30 minutes
pCO2 (Less than 12 Years)	Less than 30	Greater than 65	mmHg	Less than 30 minutes
pCO2 (Greater than 12 Years)	Less than 25	None	mmHg	Less than 30 minutes
pO2 (Less than 12 Years)	Less than 40	Greater than 90	mmHg	Less than 30 minutes
pO2 (Greater than 12 Years)	Less than 55	None	mmHg	Less than 30 minutes