

EPIC Critical Value List



Effective May 5th, 2017 for Ephrata and Good Samaritan Hospitals

Effective October 20th, 2017 for Gettysburg, York and WellSpan Surgery and Rehab Hospitals

Section	Analyte	Standardized		
		Critical Low	Critical High	Units
Blood Gas	O2Hb	<85		%
Blood Gas	%COHb (Carboxyhemoglobin)		>15	%
Blood Gas	O2 Saturation	<85		%
Blood Gas	pCO2	<20	>60	mm Hg
Blood Gas	pH (arterial)	<7.25	>7.55	pH
Blood Gas	pO2	<55		mm Hg
Blood Gas	pH (venous)	<7.22	>7.52	Units
Chemistry	Calcium	<6.5	>12.5	mg/dL
Chemistry	Calcium, ionized	<0.78	>1.58	mmol/L
Chemistry	CO2	<10	>45	mmol/L
Chemistry	Glucose	<40	>500	mg/dL
Chemistry	Glucose, whole blood	<40	>500	mg/dL
Chemistry	Lactic Acid		>4.0	mmol/L
Chemistry	Magnesium	<1	>5	mg/dL
Chemistry	Phosphorus	<1.0		mg/dL
Chemistry	Potassium	<2.8	>6.2	mmol/L
Chemistry	Potassium, whole blood	<2.8	>6.2	mmol/L
Chemistry	Sodium	<120	>160	mmol/L
Coagulation	PT (INR)		≥5.0	
Coagulation	PTT (ECH, GH, YH, WSRH)		>150	seconds
Coagulation	PTT (GSH)		>136	seconds
Hematology	Blasts		Present	
Hematology	Platelet Count	<20	>1000	K/mcL
Hematology	ABS neut. Ct	<0.5		K/mcL
Hematology	Blood Parasite		Present	
Hematology	Hematocrit	<21	>69	%
Hematology	Hemoglobin	<7	>19.9	
Hematology	WBC	<1.0	>50	K/mcL
Microbiology	AFB Culture		Positive	n/a
Microbiology	AFB Smear		Positive	n/a
Microbiology	Blood Culture		Positive	n/a
Microbiology	CSF Crypto Ag		Positive	n/a
Microbiology	CSF Culture		Positive	n/a
Microbiology	CSF Gram Stain		Positive	n/a
Microbiology	Rapid HIV		Positive	n/a
Microbiology	Sterile BF Culture		Positive	n/a
Microbiology	Sterile BF Gram Stain		Positive	n/a
Microbiology	Transfusion Reaction Culture		Positive	n/a
Microbiology	Transfusion Reaction Stain		Positive	n/a

Final Critical Value List (Continued)

Section	Analyte	Standardized		
		Critical Low	Critical High	Units
Drugs	Acetaminophen		>150	mcg/mL
Drugs	Carbamazepine		>15	mcg/mL
Drugs	Digoxin		>2.5	ng/mL
Drugs	Gentamycin Peak		>12	mcg/mL
Drugs	Gentamycin Trough		>2.5	mcg/mL
Drugs	Lithium		>1.5	mmol/L
Drugs	Phenobarbital		>50	mcg/mL
Drugs	Phenytoin (Dilantin)		>30.0	mcg/mL
Drugs	Salicylate		>40	mg/dL
Drugs	Theophylline		>25	mcg/mL
Drugs	Tobramycin Peak		>12	mcg/mL
Drugs	Tobramycin Trough		>2.0	mcg/mL
Drugs	Valproic Acid		>200.0	mcg/mL
Drugs	Vancomycin Trough		>20	mcg/mL

Specific Criteria

Section	Analyte	Standardized			
		Crit Low	Crit High	Units	Criteria
Chemistry	Glucose	<40	>200	mg/dL	Nbn-1mo
Chemistry	Glucose, urine		Positive		Nbn-1mo
Hematology	Hematocrit	<24	>69	%	Nbn-1mo
Hematology	Hemoglobin		>21.6		Nbn-1mo
Hematology	Platelet	<100			Nbn-1mo
Coagulation	Fibrinogen (MTP)	<120		mg/dL	Notify BB
Microbiology	Group B Strep		Positive		Labor Hall

Neonatal Bilirubin Final Critical Values

Age (in hours)	Critical Value	Age (in hours)	Critical Value	Age (in hours)	Critical Value	Age (in hours)	Critical Value
12	7	50	13.6	88	17	126	17.5
13	7.1	51	13.7	89	17.1	127	17.5
14	7.2	52	13.9	90	17.1	128	17.5
15	7.2	53	14.1	91	17.2	129	17.5
16	7.3	54	14.2	92	17.3	130	17.5
17	7.3	55	14.4	93	17.3	131	17.5
18	7.3	56	14.6	94	17.4	132	17.4
19	7.4	57	14.8	95	17.4	133	17.4
20	7.5	58	14.9	96	17.4	134	17.4
21	7.6	59	15.1	97	17.4	135	17.4
22	7.7	60	15.2	98	17.4	136	17.4
23	7.7	61	15.3	99	17.4	137	17.4
24	7.8	62	15.3	100	17.4	138	17.4
25	8.2	63	15.4	101	17.5	139	17.3
26	8.5	64	15.5	102	17.5	140	17.3
27	8.7	65	15.5	103	17.5	141	17.3
28	9	66	15.6	104	17.5	142	17.3
29	9.3	67	15.7	105	17.5	143	17.3
30	9.5	68	15.7	106	17.5	144	17.3
31	9.8	69	15.8	107	17.5	145	17.4
32	10.1	70	15.9	108	17.5	146	17.4
33	10.4	71	15.9	109	17.6		
34	10.6	72	16	110	17.6		
35	10.9	73	16.1	111	17.6		
36	11.1	74	16.1	112	17.6		
37	11.4	75	16.2	113	17.6		
38	11.7	76	16.3	114	17.6		
39	12	77	16.3	115	17.6		
40	12.2	78	16.4	116	17.6		
41	12.3	79	16.4	117	17.6		
42	12.4	80	16.5	118	17.6		
43	12.5	81	16.6	119	17.6		
44	12.5	82	16.7	120	17.6		
45	12.7	83	16.7	121	17.6		
46	12.9	84	16.8	122	17.6		
47	13	85	16.8	123	17.6		
48	13.2	86	16.9	124	17.6		
49	13.4	87	17	125	17.6		