

**Beaumont Laboratory**  
 Dearborn • Taylor • Trenton • Wayne

**Critical And Courtesy Alert Values**

**Critical Alerts** are called ≤15 mins for Inpatients and ≤50 mins for Outpatient and Outreach pts 24 hours/7 days a week

**Courtesy Office Hour Alerts** will be called between 8:00 a.m. to 6:00 p.m. M-F and 9:00 a.m. to 1:00 p.m. Saturday

**Nursing Home Office Hour Alerts** will be called 24/7

Chemistry /TDM Tests	Critical Values		Unit of measure	Inpatient (Critical)	Outpatient/Outreach (Critical)	Outpatient/Outreach (Office Hour)
	Greater Than	Less Than				
Acetaminophen	50	--	mcg/mL	X	X	--
Albumin	6	2	g/dl	--	--	X
Alcohol/Ethanol	200	--	mg/dl	--	X	--
Alk. Phosphatase	≥600	--	U/L	--	--	Adults only
ALT	≥400	--	U/L	--	--	X
Ammonia	35	--	umol/L	--	--	X
Amylase	300	--	U/L	X	--	X
AST	≥400	--	U/L	--	--	X
Beta Hydroxybuterate (BHOB)	5.9	--	mmol/L	X	--	--
Bilirubin-Cord	5	--	mg/dL	X	--	--
Bilirubin-Neonate	10 (All results for Outreach)		mg/dL	X	X	--
Bilirubin Direct (age 0 -2 months)	5	--	mg/dL	X	--	--
Bilirubin Total	15	--	mg/dL	--	--	X
BUN	100 50-100(Office hours)	--	mg/dL	X	>100	51-100
Calcium, total	13	6 (IP) 7 (Outreach)	mg/dL	X	X	--
Calcium, ionized	1.55	0.8	mmol/L	X	--	--
Carbamazepine (Tegretol)	12	--	mcg/mL	X	X	--
Chloride	130	75	mmol/L	X	X	--
CO2 (Carbon Dioxide)	40	10 (Inpatient) 15 (Outpatient)	mmol/L	X	X	--
CK, Total	≥5000	--	U/L	X	X	--
Cortisol	--	2	mcg/dL	--	--	X
Creatinine	7	--	mg/dL	X	X	--
Desipramine (Norpramin)	≥500	--	ng/mL	--	--	X
Digoxin	2.4	--	ng/mL	X	X	--
Gentamicin - Peak	12	--	mcg/mL	X	X	--
Gentamicin - Trough	2	--	mcg/mL	X	X	--
Glucose, CSF	--	40	mg/dL	X	--	--
Glucose, Blood	400	50	mg/dL	X	X	--

Chemistry /TDM Tests	Critical Values		Unit of measure	Inpatient (Critical)	Outpatient/ Outreach (Critical)	Outpatient/ Outreach (Office Hour)
	Greater Than	Less Than				
Glucose, Blood (age 0 – 15 years)	150	50	mg/dL	--	X	--
Hepatitis A IgM	Critical Value reported if test is positive			X	--	X
HIV (Confirmed 4th Gen Diagnostic)	Positive (Confirmed 4th Gen)			X	--	X
Iron	300	--	mcg/dL	X	X	--
Lactic Acid	≥ 2.0	--	mmol/L	X	X	--
LD	600	--	U/L	--	--	X
Lithium	2	--	mmol/L	X	X	--
Magnesium	4.5	1	mg/dL	X	X	--
Monoclonal Spike	3	--	g/dL	--	--	X
pH (Except Cord Bld)	7.6	7.25	--	X*	--	--
pCO2(Except Cord Bld)	70	20	mmHg	X*	--	--
pO2 Except NICU&Cord Bld	--	60	mmHg	X*	--	--
<i>*Not required to call PO2 values to NICU per protocol. Not required to call Cord Blood Gas Values</i>						
ABGHgb	--	7	g/dL	X	--	--
Carboxyhemoglobin	15%	--	%	X	X	--
Phenobarbitol	40	--	mcg/mL	X	X	--
Phenytoin (Dilantin)	20	--	mcg/mL	X	X	--
Phosphorus, Inorganic	10	1	mg/dL	X	X	--
Potassium	6	2.5 (IP) 3.0 (Outreach)	mmol/dL	X	X*	--
<i>*If serum hemolyzed or prolonged cellular contact, results should be called during office hours.</i>						
PSA	10	--	ng/mL	--	--	X
Protein, Total	10	5	g/dL	--	--	X
RPR	Reactive		--	X	--	X
Salicylate	30		mg/dL	X	X	--
Sodium	160	120	mmol/L	X	X	--
SCVO2	--	69.9	%	X	X	--
Theophylline	25 (IP) 20(Outreach)	--	mcg/mL	X	X (>25)	20-24
Tobramycin	peak 12 trough 2	--	mcg/mL	X	X	--
TSH	30	0.1	--	X	<3 years old	--
T3 Total	270	--	ng/dL	--	--	X
T4 Total	20	2	mcg/dL	X	--	X
T4 Free	6	0.2	--	X	<3 years old	--
Toxoplasmosis IGM	0.600 Pregnant Pt.	--	u/mL	--	--	X
Troponin I	≥ 0.30	--	ng/mL	X	X	--
Uric Acid	15	--	mg/dL	X	--	X
Valproic Acid-DepAkene	150	--	mcg/mL	X	X	--
Vancomycin Trough	25	--	mcg/mL	X	X	--
Vancomycin Peak	50	--	mcg/mL	X	X	--
Vancomycin Random	50	--	mcg/mL	X	X	--

<u>Hematology</u>	Critical Values		Unit of measure	Inpatient (Critical)	Outpatient/Outreach (Critical)	Outpatient/Outreach (Office Hour)
	Greater Than	Less Than				
Fibrinogen	--	100	mg/dL	X	--	--
Hemoglobin	--	7 (IP)	g/dL	X	--	--
Hemoglobin	--	8(Outreach)	g/dL	--	X	--
Partial Thromboplastin Time (PTT)	120 (IP) 45 (Outreach)	--	seconds	X	X	--
Platelet	1,000	20	Thous/uL	X	X	--
Protime (INR)	4	--	--	X	X	--
WBC	30 (IP) 100* (Outreach)	0.5 (IP) 2.0 (Outreach)	Thous/uL	X	X	--
White Blood Cell Differential	*If no previous similar results		--	X	--	X
	*Blast Present (If no previous similar results)		--	X	--	X
<u>Urinalysis</u>	Critical Values		Unit of measure	Inpatient (Critical)	Outpatient/Outreach (Critical)	Outpatient/Outreach (Office Hour)
	Greater Than	Less Than				
Casts, cellular	WBC or RBC casts		--	X	X	--
Crystals	Pathogenic		--	--	--	X
Glucose	Positives pts < 10 years of age		--	X	X	--
Ketones	3+ Outreach	--	--	--	--	X
Sperm present - Emergency & Inpatient	Females - Any age Males <10 years of age		--	X	--	--
Sperm present - Outreach	Female <16 years of age Female - Nursing Home Males <10 years of age		--	--	--	X
<u>Microbiology</u>	Critical Values		Unit of measure	Inpatient (Critical)	Outpatient/Outreach (Critical)	Outpatient/Outreach (Office Hour)
	Greater Than	Less Than				
AFB Culture	AFB detected in smear or culture		--	X	--	X
Blood Culture	Bacteria Present		--	X	X	--
Chlamydia culture/EIA/Probe	Positive		--	--	--	X
Clostridium difficile toxin A, B	Positive		--	X	X	--
Cryptococcal Antigen	Positive (CSF or Serum)		--	X	--	X
CSF Culture/Gram Stain	Organisms Present		--	X	X	--
Eye Culture	Pseudomonas species Present		--	X	X	--
Fungus Culture	Pathogenic Fungi Present		--	--	--	X
GC Culture/Probe	Positive		--	--	--	X
Genital Culture	Neisseria gonorrhea Present		--	--	--	X
Herpes Culture	Positive		--	--	--	X
Influenza A/B-EIA	Positive (NP/Nasal)		--	X	X	--
Ova and Parasites	Significant Parasites		--	--	--	X
Parasitology Study	Parasites Present		--	--	--	X
RSV	Positive (NP/Nasal)		--	X	X	--
Sterile Body Fluid Culture (except Dialysate)	Organisms Present on gram stain or culture		--	X	X	--

Stool Culture	Stool Pathogens Present		--	X	--	X
<b>Microbiology</b>	<b>Critical Values</b>		<b>Unit of measure</b>	<b>Inpatient</b>	<b>Outpatient/ Outreach</b>	<b>Outpatient/ Outreach</b>
	<b>Greater Than</b>	<b>Less Than</b>		<b>(Critical)</b>	<b>(Critical)</b>	<b>(Office Hour)</b>
Strep Group B, DNA Ampl Probe	Positive		--	X	--	--
Tissue Biopsy	Organisms Present		--	X	--	X
<b>Blood Bank</b>	<b>Critical Values</b>		<b>Unit of measure</b>	<b>Inpatient</b>	<b>Outpatient/ Outreach</b>	<b>Outpatient/ Outreach</b>
	<b>Greater Than</b>	<b>Less Than</b>		<b>(Critical)</b>	<b>(Critical)</b>	<b>(Office Hour)</b>
Antibody Screen	Positive		--	--	--	X
Blood Type	Discrepant Types		--	--	--	X
<b>Cytogenetics</b>	<b>Critical Values</b>		<b>Unit of measure</b>	<b>Inpatient</b>	<b>Outpatient/ Outreach</b>	<b>Outpatient/ Outreach</b>
	<b>Greater Than</b>	<b>Less Than</b>		<b>(Critical)</b>	<b>(Critical)</b>	<b>(Office Hour)</b>
Alpha fetoprotein/Triple Screen	Any Abnormal Value		ng/ml	--	--	X
<b>Cytology</b>	<b>Critical Values</b>		<b>Unit of measure</b>	<b>Inpatient</b>	<b>Outpatient/ Outreach</b>	<b>Outpatient/ Outreach</b>
	<b>Greater Than</b>	<b>Less Than</b>		<b>(Critical)</b>	<b>(Critical)</b>	<b>(Office Hour)</b>
Pap smears	HSIL or Higher		--	--	--	X
Non-GYN	Positives		--	--	--	X
<b>Reference Laboratory</b>	<b>Critical Values</b>		<b>Unit of measure</b>	<b>Inpatient</b>	<b>Outpatient/ Outreach</b>	<b>Outpatient/ Outreach</b>
	<b>Greater Than</b>	<b>Less Than</b>		<b>(Critical)</b>	<b>(Critical)</b>	<b>(Office Hour)</b>
Lead <15 years old	≥ 45	--	mcg/dL	--	--	X
Lead >15 years old	70	--	mcg/dL	--	--	X