

LABORATORY



New Vision Medical Laboratories provides full service laboratory services including clinical and anatomic pathology to St. Rita's Medical Center and Van Wert County Hospital and limited services to the St. Rita's Putnam County Ambulatory Care Center, St. Rita's Delphos Ambulatory Care Center, and the Institute for Orthopedic Surgery.

CHARTS & VALUES

CHEMISTRY

TESTS	Comprehensive Metabolic Panel	Basic Metabolic Panel	Electrolyte Panel	Hepatic Function Panel	Chem 7	Lipid Panel
Albumin	X			X		
Bilirubin, Tot.	X			X		
Bilirubin, Dir.				X		
Calcium	X	X				
Chloride	X	X	X		X	
Creatinine	X	X			X	
Glucose	X	X			X	
Alkaline Phosphatase	X			X		
Potassium	X	X	X		X	
Total Protein	X			X		
Sodium	X	X	X		X	
AST (SGOT)	X			X		
BUN	X	X			X	
CO ₂	X	X	X		X	
ALT(SGPT)	X			X		
Cholesterol						X
Triglycerides						X
HDL						X
LDL (calculation no a direct LDL)						X

THESE VALUES ARE FOR THE ST. RITA'S LABORATORIES THESE ARE NOT FOR VAN WERT COUNTY HOSPITAL.

HEMATOLOGY REFERENCE VALUES

Age	Hgb	Hct	MCV	WBC
Newborn Day 1	15.5-19.5	50-60	92-118	9000-30,000
One Week-2 month	15.0-19.0	49-59	73-105	5000-21,000
Two Months-Two Years	10.5-14.5	30-40	73-86	6000-17,500
Two Years-6 Years	11.0-15.0	34-45	75-95	6200-17,000
Six Years-12 Years	12.0-16.0	37-47	78-95	4800-10,800
Adult Male	14.0-18.0	42-52	80-94	4800-10,800
Adult Female	12.0-16.0	37-47	81-99	4800-10,800

DRUG LEVEL CRITICAL VALUES

Test Name	Value
Acetaminophen	> 150 mcg/ml
Carbamazepine	> 15 mcg/ml
Digoxin	> 3.0 ng/ml
Gentamicin	Peak Trough > 10 mcg/ml > 2 mcg/ml
Lithium	> 1.5 meq/L
Phenobarbital	> 60 mcg/ml
Phenytoin	> 30 mcg/ml
Salicylate	≥ 30 mcg/ml
Theophylline	> 30 mcg/ml
Tobramycin	Peak Trough > 12 mcg/ml > 2 mcg/ml
Valproic Acid	> 200 mcg/ml
Vancomycin	Peak Trough > 40 mcg/ml > 20 mcg/ml

QUALITATIVE CRITICAL VALUES

REVISED JUNE 2018

Test Name	Low	High	Note:
*APTT		> 120 seconds	
Arterial	pH	<7.2	>7.6
	pCO2	<20 mm Hg	>70 mm Hg
	pO2	<40 mm Hg	760 mm Hg
Bilirubin		≥14.0 mg/dl	Neonate (0-28 days)
Calcium	≤6.0 mg/dl	≥13.0 mg/dl	
		≥11.5mg/dl	OP Dialysis
*CO2	≤10 meq/L	≥40 meq/L	
*Creatinine		≥3.0 mg/dl	N/A for dialysis pts.
Fibrinogen	< 80 mg/dl		
*Glucose	≤40 mg/dl	≥500 mg/dl	
*Hematocrit	≤21.0%	> 60.0%	
	≤ 33.0%	> 55.0% venous	Neonate (0-28 days)
		> 70.0% capillary	Neonate (0-28 days)
*Hemoglobin	≤ 7.0 g/dl		
	≤11.0 g/dl		Neonate (0-28 days)
Ionized Calcium	≤0.77 mmol/L	≥1.59 mmol/L	
Magnesium	≤0.5 mg/dl	≥5.0 mg/dl	
Phosphorous		≥12 mg/dl – OP dialysis	
*Platelets	≤30,000/mm ³	≥1,000,000	
Prothrombin Time (INR)		INR of 5.0	
	INR <1.0	INR > 5.0	POC testing only at: HMG, IOS, DACC, Cancer Care of West Central Ohio
Potassium	≤2.7 meq/L	≥6.0 meq/L	
		≥7.0 meq/L	OP Dialysis
Sodium	≤120 meq/L	≥160 meq/L	
*WBC	≤1,000/mm ³	>30,000/mm ³	Non-OB patient
	<6,000	>35,000/mm ³	0-1 Day

*Consistent long term patient critical values may not be called.

Qualitative Critical Values

Revised: June 2018

Urine Glucose	Glucose 1000 along with positive Ketone	SRMC, PCACC, & DACC
AFB Culture	Positive	
AFB Smear	Positive	
Blood Culture	Positive	
Bone Marrow Culture	Positive	
C.DIFF Toxin RT- PCR	Positive	
GC Culture	Positive	OB patient
GC Smear	Positive	OB patient
Gram Stain	Positive	Sterile Body Fluid
India Ink Prep	Positive	
Isolates of: Salmonella, Shigella, Campylobacter, E. coli 0157:H7 VRSA/VRS VISA/WISE	All isolates	
Biofire Film Array CSF panel: Escherichia coli K1 Haemophilus influenzae Listeria monocytogene Neisseria meningitides Streptococcus agalactiae Streptococcus pneumoniae Cytomegalovirus Enterovirus Herpes simplex virus 1 Herpes simplex virus 2 Human herpes virus 6 Human parechovirus Varicella zoster virus Cryptococcus neoformans/gatti GI panel: Campylobacter Clostridium difficile*(on patients >=2y/o) Salmonella Vibrio Yersinia	Detected	All CSF samples that give "Detected" values are to be called to the unit or office. GI panel on the Biofire results giving a "DETECTED" for tests indicated are to be called as critical values on all INPATIENT testing for SRMC.

E.Coli 0157: H7 Shigella		
Spinal Fluid Culture	Positive	
Spinal Fluid Gram Stain	Positive	
Transfusion Reaction	Hemolytic Transfusion Reaction	