

BVH Reference Ranges

Last Updated: 3.26.25 by L.Morman  
**Chemistry Reference Ranges:**

**DXC 600 Reference Ranges:**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Acetaminophen	DXC 600		Therapeutic	10 - 30	ug/mL	> 150
			Hepatotoxic			
			4 hrs Post Ingestion	> 150	ug/ml	
			8 hrs Post Ingestion	> 75	ug/ml	
			12 hrs Post Ingestion	> 40	ug/ml	
A/G Ratio	Calculation			1.1 - 2.2		
Albumin (Bromocresol Purple)	DXC 600		0 Day - 14 Days	2.8 - 4.2	gm/dL	
			15 Days - <1 Year	2.5 - 4.7	gm/dL	
			1+ Years	3.5 - 5.0	gm/dL	
Alcohol (ETOH)	DXC 600			< 10 (none detected)	mg/dL	> 300
Alkaline Phosphatase	DXC 600	Both	0 - 4 Years	80 - 350	IU/L	
		Both	5 Years - 9 Years	60 - 385	IU/L	
		Both	10 Years - 13 Years	60 - 485	IU/L	
		Male	14 Years - 18 Years	50 - 350	IU/L	
		Female	14 Years - 18 Years	40 - 195	IU/L	
		Both	19+ Years	32 - 91	IU/L	
ALT (SGPT)	DXC 600	Male		17 - 63	IU/L	
		Female		14 - 54	IU/L	
Ammonia	DXC 600	Both	0 - 2 Weeks	< 90	umol/L	> 100
			2+ Weeks - <18 Years	< 50	umol/L	> 100
			18+ Years	9 - 35	umol/L	> 100
Amylase	DXC 600			28 - 100	U/L	
Anion Gap	DXC 600			4-12	mmol/L	
AST (SGOT)	DXC 600		0 Years - 4 Years	10 - 60	IU/L	
			5 Years - 9 Years	5 - 50	IU/L	
			10+ Years	15 - 41	IU/L	
Beta Hydroxybutyrate	DXC 600			0.0 - 0.3	mmol/L	
BUN	DXC 600			8 - 26	mg/dL	
				Calculation		
Calcium	DXC 600		0-2 days	6.2 - 11.0	mg/dL	< 5.8, > 13.3
	Calculation		> 2 days	0.9-1.1	mg/dl	< 6.3, > 13.3
Cardiac Risk Factor	DXC 600	Male		25.1-36.5		> 135
	DXC 600			Average 4.97		
	DXC 600			2X Average 9.55		
		3X Average 23.99				
		Female		1/2 Average 3.27		
				Average 4.44		
	2X Average 7.05					
		3X Average 11.04				
Chloride	DXC 600			98 - 110	mmol/L	
Cholesterol	DXC 600		0 - 17 Years	0 - 169 desirable	mg/dL	
				170-199 borderline high	mg/dL	
				>200 high	mg/dL	
			18+ Years	0 - 199 desirable	mg/dL	
				200-239 borderline high	mg/dL	
>239 high	mg/dL					
CO2 (Carbon Dioxide)	DXC 600			22 - 32	mmol/L	< 10, > 40
CPK	DXC 600	Male		49 - 397	IU/L	
		Female		38 - 234	IU/L	
Creatinine	DXC 600	Male		0.61 - 1.24	mg/dl	> 10.0
		Female		0.44 - 1.03	mg/dl	> 10.0
CRP (High Sensitivity)	DXC 600			0.0 - 0.75	mg/dL	
Digoxin	DXC 600			0.8 - 2.0	ng/mL	> 2.4
Dilantin	DXC 600			10 - 20	ug/mL	> 30
Direct Bilirubin	DXC 600			0.1 - 0.5	mg/dL	
Gentamicin	DXC 600		Peak	5 - 10	ug/mL	> 10
			Trough	< 2	ug/ml	
GGT	DXC 600			7 - 50	IU/L	

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**DXC 600 Reference Ranges: (cont.)**

Glomerular Filtration Rate	Calculation			> or = 60 GFR	ml/min./ 1.73 M <sup>2</sup>		
				30 - 59 Moderate decrease in GFR			
				15 - 29 Severe decrease in GFR			
				< 15 Kidney failure or Dialysis			
Chronic kidney disease is defined as either kidney damage or GFR < 60 mL/min/1.73 m <sup>2</sup> for > or = 3 months. Kidney damage is defined as pathologic abnormalities or markers of damage including abnormalities in blood or urine tests or imaging studies. This GFR is NOT used for medication dosing.							
Glucose	DXC 600			0 Hrs - 4 Hrs	41 - 60	mg/dL	< 25, > 250
				4 Hrs - 1 Day	46 - 60	mg/dl	< 35, > 250
				1 Day - 2 Months	51 - 90	mg/dl	< 45, > 250
				2 Months - 16 Yrs	60 - 99	mg/dL	< 54, > 400
				16 year +	70 - 99	mg/dl	< 54, > 400
Haptoglobin	DXC 600			36-195	mg/dl		
HDL (Direct)	DXC 600		0 Years - 17 Years	< 40 low	mg/dl		
				40 - 59 borderline low			
				> = 60 normal			
			18+ Years	40 - 60	mg/dl		
IgA	DXC 600			0-5 years	30 - 250	mg/dL	
				6+ years	66 - 436	mg/dl	
IgG	DXC 600			0-5 years	500 - 1550	mg/dL	
				6+ years	791 - 1643	mg/dl	
IgM	DXC 600			43 - 279	mg/dL		
Indirect Bilirubin	Calculation			0.0 - 1.0	mg/dL		
Ionized Calcium	NOVA			0-1 day	1.08 - 1.28	mmol/L	
				1-2 days	1.00 - 1.18	mmol/L	
				3+ days	1.12 - 1.32	mmol/L	
Iron	DXC 600	Both	0 - 1 Month	100 - 250	ug/dL		
		Male	2+ Months	45 - 182	ug/dL		
		Female	2+ Months	28 - 170	ug/dl		
TIBC	Calculation			261 - 478	ug/dL		
% Saturation Fe	Calculation			> 16	%		
Lactic Acid	DXC 600			0.5 - 2.0	mmol/L	> 4.0	
Lipase	DXC 600			22 - 51	IU/L		
LDH	DXC 600			98 - 192	IU/L		
LDL (Calculated and Direct)	Calculation		0 - 17 years	0 - 109 desirable	mg/dL		
				110 - 129 borderline high	mg/dL		
				> = 130 high	mg/dL		
				18 + years	0 - 99 optimal		mg/dL
			100 - 129 near optimal	mg/dL			
			130 - 159 borderline high	mg/dL			
			160 - 189 high	mg/dL			
			> = 190 very high	mg/dL			
Magnesium	DXC 600			1.7 - 2.4	mg/dL	< 1.0, > 4.4	
Osmolality, Serum	Osmometer			280 - 295	mosm/kg		
Phenobarbital	DXC 600			15 - 40	ug/mL	> 60	
Phosphorus	DXC 600			0 - 9 Days	4.5 - 9.0	mg/dL	< 1.0
				10 Days - 2 Years	4.0 - 6.5	mg/dL	
				3 Years - 9 Years	3.2 - 5.8	mg/dL	
				10 Years - 15 Years	3.3 - 5.4	mg/dL	
				16+ Years	2.5 - 4.6	mg/dL	
Potassium	DXC 600			0 - 7 Days	3.2 - 5.5	mmol/L	< 2.5, > 6.5
				8 Days - 1 Year	3.4 - 6.0	mmol/L	< 2.5, > 6.5
				2+ Years	3.4 - 4.8	mmol/L	< 2.5, > 6.0
Prealbumin	DXC 600			18 - 38	mg/dL		
				10-17.9 mg/dL Indicates moderate protein calorie malnutrition < 10 mg/dL Indicates serious malnourishment.			
Salicylate	DXC 600			0 - 30	mg/dL	> 40	
Sodium	DXC 600			0 - 1 Year	130 - 145	mmol/L	< 120, > 160
				2+ Years	133 - 142		
Tegretol	DXC 600			4 - 12	ug/mL	> 20	

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**DXC 600 Reference Ranges: (cont.)**

Total Bilirubin	DXC 600		0-1 Day	1.4 - 8.7	mg/dL	> 12.0
			1-2 Days	3.4 - 11.5	mg/dL	> 15.0
			3-5 Days	1.5 - 12.0	mg/dL	
			> 5 Days	0.3 - 1.2	mg/dL	
Total Protein	DXC 600		0 Day - 1 Month	4.1 - 6.3	gm/dl	
			2 Month - 6 Months	4.4 - 6.7	gm/dl	
			7 Months - 1 Year	5.5 - 7.9	gm/dl	
		Both	2+ Years	6.5 - 8.1	gm/dL	
Transferrin	DXC 600	Male		180 - 329	mg/dL	
		Female		192 - 382	mg/dl	
Triglycerides	DXC 600		0 - 17 Years	0 - 89 normal	mg/dL	
				90 - 129 borderline high	mg/dL	
				> = 130 high	mg/dL	
			18+ Years	0 - 149 normal	mg/dL	
				150-199 borderline high	mg/dL	
				200-499 high	mg/dL	
Uric Acid	DXC 600	Both	0 - 11 Years	1.0 - 6.6	mg/dl	
		Male	12 Years - 19 Years	3.0 - 7.7	mg/dl	
		Female	12 Years - 19 Years	2.7 - 5.7	mg/dl	
		Male	20+ Years	4.8 - 8.7	mg/dl	
		Female	20+ Years	2.6 - 8.0	mg/dl	
Valproic Acid	DXC 600			50 - 100	ug/mL	> 150
Vancomycin	DXC 600		Peak	20 - 40	ug/mL	> 40
			Random	10 - 15	ug/mL	
			Trough	10 - 15	ug/ml	
VLDL	Calculation			8 - 39	mg/dL	

**Chemistry Cerebrospinal Fluid Tests**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Glucose, Spinal Fluid	DXC 600			40 - 70	mg/dL	< 25
Protein, Spinal Fluid	DXC 600			15 - 45	mg/dL	
CSF Color	Visual			Clear		Xanthochromic

**Chemistry Urine Tests:**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Amylase:Creatinine Clearance Ratio	DXC 600			0 - 5	%	
Urea Nitrogen, 24 Hour, Urine	DXC 600			12 - 20	gm/24hr	
Calcium, 24 Hour, Urine	DXC 600			100 - 300	mg/24hr	
Calcium, Random, Urine	DXC 600			None		
Calcium: Creatinine Ratio, Random, Urine	DXC 600		0 to 6 months	<0.8	mg/mg	
			6 to 12 months	<0.6	mg/mg	
			2 years +	<0.2	mg/mg	
Chloride, 24 Hour, Urine	DXC 600			110 - 250	meq/24hr	
Chloride, Random, Urine	DXC 600			None		
Creatinine 24 Hour, Urine	DXC 600	Male		800 - 2000	mg/24hr	
		Female		600 - 1800	mg/24hr	
Creatinine Clearance, 24 Hour, Urine	DXC 600	Male		74 - 140	mL/min	
		Female		74 - 130	mL/min	
Glucose, 24 Hour, Urine	DXC 600			0 - 0.5	g/24hr	
Magnesium, 24 Hour, Urine	DXC 600			72.9 - 121.5	mg/24hr	
Magnesium, Random, Urine	DXC 600			None		
Albumin, 24 Hour, Urine	DXC 600	Calc		<30	mg/24hr	
			30-300 mg/24hr is indicative of Albuminuria			
			> 300 mg/24hr is indicative of Clinical Albuminuria			
Ur Albumin Excretion Rate	DXC 600			<20	ug/min	
			20-200 ug/min is indicative of Albuminuria			
			> 200 ug/min is indicative of Clinical Albuminuria			
Albumin:Creatinine Ratio, Random Ur	Calc	Male		<17	mg/g	
		Female		<25		
		17 - 299 mg/g in males is indicative of Albuminuria				
		25 - 299 mg/g in females is indicative of Albuminuria > 300 mg/G in both males and females is indicative of Clinical Albuminuria				
Osmolality, Random, Urine	Osmometer			50 - 1200	mosm/kg	
Phosphorous, 24 Hour, Urine	DXC 600			0.4 - 1.3	gm/24hr	
Potassium, 24 Hour, Urine	DXC 600			25 - 125	meq/24hr	
Potassium, Random, Urine	DXC 600			None		
Sodium, 24 Hour, Urine	DXC 600			40 - 220	meq/24hr	

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Sodium, Random, Urine	DXC 600			None		
Protein, 24 Hour, Urine	DXC 600	Male		31 - 137	mg/24hr	
		Female		27 - 93	mg/24hr	
Protein, Random, Urine				< 10	mg/dL	
Uric Acid, 24 Hour, Urine	DXC 600			0.25 - 0.75	gm/24hr	
Uric Acid, Random, Urine	DXC 600			None		

**Chemistry Urine Drug Screening Tests:**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Amphetamines (AMPH)	DXC 600			Negative = < 1000	ng/mL	
Barbiturates (BARB)	DXC 600			Negative = < 200	ng/mL	
Benzodiazepine (BENZ)	DXC 600			Negative = < 200	ng/mL	
Buprenorphine (BUP)	Med-Tox			Negative = < 10	ng/mL	
Cannabinoid (TCH50)	DXC 600			Negative = < 50	ng/mL	
Cocaine Metabolites (COCM)	DXC 600			Negative = < 300	ng/mL	
Fentanyl (FENT)	DXC 600			Negative = < 1.0	ng/mL	
Methadone (METD)	DXC 600			Negative = < 300	ng/mL	
Oxycodone (OXY)	DXC 600			Negative = < 100	ng/mL	
Opiate (OP)	DXC 600			Negative = < 300	ng/mL	
Phencyclidine (PCP)	DXC 600			Negative = < 25	ng/mL	
Urine Alcohol	DXC 600			Negative - < 20	mg/dL	

**Glucose Tolerance Test (75 grams of Glucola)**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Fasting Glucose	DXC 600			70 - 99	mg/dL	< 54, > 400
1 Hour Glucose	DXC 600			70 - 199	mg/dL	< 54, > 400
2 Hour Glucose	DXC 600			70 - 139	mg/dL	< 54, > 400
3 Hour Glucose	DXC 600			70 - 99	mg/dL	< 54, > 400
4 Hour Glucose	DXC 600			70 - 99	mg/dL	< 54, > 400
5 Hour Glucose	DXC 600			70 - 99	mg/dL	< 54, > 400
6 Hour Glucose	DXC 600			70 - 99	mg/dL	< 54, > 400

**Gestational Glucose Tolerance, 2 Hour (ADA Recommendations) 75 g Glucola**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Fasting Glucose	DXC 600			70 - 91	mg/dL	< 54, > 400
1 Hour Glucose	DXC 600			70 - 179	mg/dL	< 54, > 400
2 Hour Glucose	DXC 600			70 - 152	mg/dL	< 54, > 400

**Gestational Glucose Tolerance, 3 Hour (ACOG Recommendations) 100 g Glucola**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Fasting Glucose	DXC 600			70 - 94	mg/dL	< 50, > 400
1 Hour Glucose	DXC 600			70 - 179	mg/dL	< 50, > 400
2 Hour Glucose	DXC 600			70 - 154	mg/dL	< 50, > 400
3 Hour Glucose	DXC 600			70 - 139	mg/dL	< 50, > 400

**Gestational Diabetes Screen (ACOG Recommendations) 50 g Glucola**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
1 Hour Glucose	DXC 600			70 - 134	mg/dL	< 54, > 400

**2 Hour Post-Prandial Glucose Test:**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
2 Hour Glucose	DXC 600			70 - 139	mg/dL	< 54, > 400

**Insulin Resistance with Glucose - 2 Hour**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Fasting Glucose	DXC 600			70 - 99	mg/dL	< 54, > 400
1 Hour Glucose	DXC 600			70 - 199	mg/dL	< 54, > 400
2 Hour Glucose	DXC 600			70 - 139	mg/dL	< 54, > 400
Fasting Insulin	DXI 600			1.9 - 23.0	uIU/mL	
1 Hour Insulin	DXI 600			No Ref Range	uIU/mL	
2 Hour Insulin	DXI 600			No Ref Range	uIU/mL	

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Beckman DXI :

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range	
Alpha-fetoprotein (AFP) Tumor Marker	Dxl			< 8.4	ng/mL		
Beta HCG	Dxl	Female	Negative for pregnancy	0.0 - 4.9	miU/mL		
			Indeterminate-Suggest repeat testing in 72 hours	5.0 - 25.0	miU/mL		
			Positive for pregnancy	> 25.0	miU/mL		
BNP	Dxl			0 - 100	pg/mL		
CA 15-3	Dxl			0.0 - 31.3	U/mL		
CA 19-9	DXI			< 35	U/mL		
CA 125	Dxl			0 - 35	U/mL		
CEA	Dxl		Smokers	< 5.0	ng/mL		
			Non-Smokers	< 3.0	ng/ml		
Cortisol	Dxl		AM	6.7 - 22.6	ug/dL		
			PM	< 10	ug/dl		
Estradiol, Sensitive	Dxl	Male	0 to < 1 Year	< 15.0 - 38.2	pg/mL		
			1 to < 12 (pre-puberty) Years	< 15.0	pg/mL		
			12 to < 19 (puberty) Years	< 15.0 - 34.8	pg/mL		
			19+ Years	< 15.0 - 31.5	pg/mL		
		Female	0 to < 1 Year	< 15.0 - 38.2	pg/mL		
			1 to < 12 (pre-puberty) Years	< 15.0 - 16.0	pg/mL		
			12 to < 19 (puberty) Years	< 15.0 - 196.0	pg/mL		
			19+ Years	See Non-pregnant Females below			
		Non-Pregnant Females	Days from hLH Peak (Day 0)				
			-14 to -10 (Early Follicular)	22.4 - 115.0	pg/mL		
			-9 to -4 (Mid Follicular)	25.0 - 115.0	pg/mL		
			0 (Ovulatory Peak)	32.1 - 517.0	pg/mL		
			+4 to +11 (Mid Luteal)	36.5 - 246.0	pg/mL		
Post-Menopausal Females	Not on hormone therapy	< 15.0 - 25.1	pg/mL				
Ferritin	Dxl	Male		23.9 - 336.2	ng/ml		
Folate	Dxl			≥ 5.9	ng/mL		
hFSH	Dxl	Male		1.27 - 19.26	miU/mL		
		Female	mid-follicular phase	3.85 - 8.78	miU/mL		
			mid-cycle peak	4.54 - 22.51	miU/mL		
			mid-luteal phase	1.79 - 5.12	miU/mL		
			Post-menopausal	16.74 - 113.59	miU/mL		
HybriTech % Free PSA (DRE NEGATIVE) (if Total PSA is 4.0 - 10.0)	Dxl		Probability of Cancer				
			56%	0 - 10	%		
			28%	10 - 15	%		
			20%	15 - 20	%		
			16%	20 - 25	%		
8%	> 25	%					
HybriTech PSA (total)	Dxl			0.0 - 4.0	ng/mL		
Insulin	Dxl			1.9 - 23.0	uIU/mL		
hLH	Dxl	Male		1.24 - 8.62	miU/mL		
		Female	mid-follicular phase	2.12 - 10.89	miU/mL		
			mid-cycle peak	19.18 - 103.03	miU/mL		
			mid-luteal phase	1.20 - 12.86	miU/mL		
			Post-menopausal	10.87 - 58.64	miU/mL		
Myoglobin	Dxl	Male		17.4 - 105.7	ng/mL		
		Female		14.3 - 65.8	ng/mL		
Progesterone	Dxl	Male		0.14 - 2.06	ng/mL		
		Female	<b>Non-Pregnant:</b>				
			mid-follicular phase	0.31 - 1.52	ng/mL		
			mid-luteal phase	5.16 - 18.56	ng/mL		
			<b>Pregnant:</b>				
		first trimester	4.73 - 50.74	ng/mL			
		second trimester	19.41 - 45.30	ng/mL			
		<b>Post-menopausal</b>	< 0.08 - 0.78	ng/mL			
(not on hormone therapy)							

BVH Reference Ranges

Beckman DXI : (cont.)

Prolactin	Dxl	Male		2.64 - 13.13	ng/mL		
		Female	Premenopausal		3.34 - 26.72	ng/mL	
			Postmenopausal		2.74 - 19.64	ng/mL	
PTH, Intact	Dxl			12 - 88	pg/mL		
Rubella	Dxl		Negative (non-reactive)		< 10	IU/mL	
			Equivocal		10.0 - 14.9	IU/mL	
			Positive (reactive)		15.0 - > 500.0	IU/mL	
Testosterone, Total, Serum	Dxl	Male		175 - 781	ng/dL		
		Female		10 - 75	ng/dL		
T3, Free	Dxl			2.5 - 3.9	pg/mL		
T3, Total	Dxl		0 Day - 30 Days		0.48 - 1.84	ng/ml	
			1 Month - 1 Year		0.73 - 2.29	ng/ml	
			2 Years - 5 Years		0.93 - 2.16	ng/ml	
			6 Years - 10 Years		1.04 - 1.98	ng/ml	
			11+ Years		0.87 - 1.78	ng/mL	
T4, Free	Dxl		0 Day - 10 Years		0.60 - 1.34	ng/dL	
			11-18 Years		0.50 - 1.25	ng/dL	
			19+ Years		0.61 - 1.12	ng/dL	
			Pregnancy Ref Ranges:				
			1st Trimester		0.52 - 1.10	ng/dL	
			2nd Trimester		0.45 - 0.99	ng/dL	
			3rd Trimester		0.48 - 0.95	ng/dL	
T4, Total	Dxl		0 Day - 7 Days		8.2 - 21.5	ug/dL	
			8 Days - 3 Months		7.2 - 15.6	ug/dL	
			4 Months - 2 Years		5.5 - 14.5	ug/dL	
			3+ Years		5.0 - 11.5	ug/dL	
Troponin-I	Dxl	Male		0-20	ng/L	≥ 50	
		Female		0-15	ng/L	≥ 50	
TSH (3rd Generation)	Dxl		0 days - 1 day		2.43 - 24.03	uIU/mL	
			1 day - 2 days		1.9 - 17.58	uIU/mL	
			2 days - 3 days		1.4 - 13.1	uIU/mL	
			3 days - 4 days		0.94 - 9.65	uIU/mL	
			4 days - 1 week		0.6 - 6.82	uIU/mL	
			1 week - 5 years		0.57 - 5.58	uIU/mL	
			5 years - 8 years		0.56 - 5.41	uIU/mL	
			8 years - 12 years		0.55 - 5.31	uIU/mL	
			12 years - 15 years		0.53 - 5.16	uIU/mL	
			15 years - 18 years		0.52 - 5.05	uIU/mL	
			18+ years		0.45 - 5.33	uIU/mL	
Vitamin B12	Dxl			180 - 914	pg/ml		
Vitamin D-25 Hydroxy	DXI		Deficient		< 20	ng/mL	
			Insufficient		20 - 29	ng/mL	
			Sufficient		30 - 100	ng/mL	
			Upper Safety Limit		> 100	ng/mL	

Arkray Adams HA-8180V A1c

HbA1c (in % units)	Arkray ADAMS HA-8180V		Normal Prediabetes Diabetes	4.0 - 5.6 5.7 - 6.4 >6.5	% A1c	
eAG (Estimated Average Glucose)	Calc			68 - 114	mg/dL	

BVH Reference Ranges

**DiaSorin Liaison**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Hepatitis B Surface Antigen	Liaison			Negative		
Hepatitis B Surface Antibody	Liaison			Negative		
HBsAb Quantitative	Liaison			< 5.00 = Negative 5.00 - 11.99 = Indeterminate > 11.99 = Positive		
Hep B Core IgM Antibody	Liaison			Negative		
Hep B Core Total Antibodies (IgG & IgM)	Liaison			Negative		
Hepatitis A IgM	Liaison			Negative		
Hepatitis A Total Antibody	Liaison			Negative		
Hepatitis C Virus	Liaison			Negative		
HIV-1 and HIV-2 Ab, p24 Ag	Liaison & Alere Determine			Negative (Non-Reactive)		
Procalcitonin	Liaison			<0.49	ng/mL	
Calprotectin, Stool	Liaison			<49	mcg/g	
Elastase-1, Stool	Liaison			>200	mcg/g	
H.pylori Stool	Liaison			Negative		
Measles IgG Antibody	Liaison			Negative		
Mumps IgG Antibody	Liaison			Negative		
QuantiFERON-TB Gold Plus	Liaison			Negative		
Treponema Total Antibody	Liaison			Negative		
Varicella Zoster Virus IgG Antibody	Liaison			Negative		

**Electrophoresis:**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Electrophoresis, Protein, Serum	Sebia		Total Protein	6.5 - 8.1	gm/dL	
			Albumin	3.0 - 5.0	gm/dL	
			Alpha-1	0.13 - 0.33	gm/dL	
			Alpha-2	0.56 - 1.13	gm/dL	
			Beta	0.60 - 1.25	gm/dL	
			Gamma	0.53 - 1.48	gm/dL	
			A/G Ratio	1.13 - 2.69		
Electrophoresis, Protein, Urine	Sebia			No Monoclonal Protein		
Immunofixation, Serum	Sebia			No Monoclonal Protein		
Immunofixation, Urine	Sebia			No Monoclonal Protein		

BVH and AFCCC Shared Reference Ranges

Last Updated: 3.26.25 by L.Morman

By: Dr. Heidi Budke

(BVH and ACC shared reference ranges)

**Hematology Reference Ranges:**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
WBC	DXH800 DXH600  DXH520		0-1 Day	9.0 - 30.0	x10 <sup>3</sup> / uL	< 2.0 and >50.0
			1-4 Days	9.4 - 34.0		
			4 Days - 1 Month	5.0 - 20.0		
			1 Month - 6 Months	4.0 - 19.5		
			6 Months-2 Years	6.0 - 17.0		
			2-6 Years	5.0 - 15.5		
			6-18 Years	4.5 - 13.5		
	Male	> or = 18 Years	4.5 - 11.0			
	Female	> or = 18 Years	4.5 - 11.0			

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
RBC	DXH800 DXH600 DXH690T DXH520		0-1 Day	3.90 - 5.90	x10 <sup>6</sup> / uL	
			1-3 Days	3.90 - 5.90		
			4 Days - 1 Month	3.90 - 5.90		
			1 Month - 6 Months	3.30 - 5.30		
			6 Months-2 Years	3.90 - 4.80		
			2-6 Years	3.70 - 4.90		
			6-18 Years	3.80 - 5.60		
	Male	> or = 18 Years	4.30 - 5.80			
	Female	> or = 18 Years	3.80 - 5.20			

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range		
Hemoglobin (Hgb)	DXH800 DXH600 DXH690T DXH520		0-1 Day	19.0 - 30.0	g/dL	< 9.5 and >22.5		
			1-3 Days	14.5 - 22.5				
			4 Days - 1 Month	13.4 - 19.8				
			DXH520		1-2 Months	10.7 - 17.1	g/dL	< 6.9 and > 20.8
					2-6 Months	9.4 - 13.0		
					6 Months-2 Years	10.5 - 13.5		
					2-6 Years	11.5 - 13.5		
	Calculation		6-12 Years	11.5 - 15.5	g/dL	< 6.6 and > 19.9		
			Male	12-18 Years			13.0 -16.0	
	DXH520		Female	12-18 Years	0.9-1.1	g/dL	< 6.6 and > 19.9	
			Male		25.1-36.5			
DXH520		Female		12.0 - 16.0	g/dL	< 6.6 and > 19.9		
		Male						

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range	
Hematocrit (Hct)	DXH800 DXH600 DXH690T DXH520		0-4 Days	45 - 67	%		
			4 Days - 1 Month	41 - 65			
			1-2 Months	33 - 55			
			2-6 Months	28 - 42			
			6 Months-2 Years	33 - 39			
			2-6 Years	34 - 40			
			6-12 Years	35 - 45			
			Male	12-18 Years			36 - 50
			Female	12-18 Years			37 - 45
			Male	18 Years and Older			41 - 53
	Female	18 Years and Older	36 - 46				



**Hematology Reference Ranges: (cont.)**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
MCH	DXH800 DXH600 DXH690T DXH520		0-1 Day	30 - 37	pg	
			1-3 Days	30 - 37		
			4 Days - 1 Month	30 - 37		
			1-6 Months	29 - 36		
			6 Months-2 Years	24 - 30		
			2-6 Years	25 - 31		
			6-18 Years	25 - 34		
		Male > or = 18 Years	27 - 35			
		Female > or = 18 Years	27 - 35			

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
MCHC	DXH800 DXH600 DXH690T DXH520		0-4 Days	29.0 - 37.0	g/dL	
			4 Days - 1 Month	28.1 - 34.7		
			1-2 Months	28.1 - 35.5		
			2-6 Months	28.3 - 35.3		
			6 Months-2 Years	30.0 - 36.0		
			2-6 Years	31.0 - 37.0		
			6-12 Years	31.0 - 37.0		
		Male 12-18 Years	31.0 - 37.0			
		Female 12-18 Years	31.0 - 37.0			
		Male 18 Years and Older	31.0 - 37.0			
Female 18 Years and Older	31.0 - 37.0					

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
MCV	DXH800 DXH600 DXH690T DXH520		0-4 Days	95 - 121	fL	
			4 Days - 1 Month	88 - 122		
			1-2 Months	91 - 111		
			2-6 Month	84 - 106		
			6 Months-2 Years	70 - 86		
			2-6 Years	75 - 87		
			6-12 Years	77 - 95		
		Male 12-18 Years	78 - 98			
		Female 12-18 Years	78 - 98			
		Male 18 Years and Older	80 - 100			
Female 18 Years and Older	80 - 100					

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Platelet Count	DXH800 DXH600 DXH690T DXH520		0-3 Days	150 - 450	x10 <sup>3</sup> / uL	< 50 > 999
			4 Days- 1 Month	150 - 450		
			1-2 Months	150 - 450		
			2-6 Months	150 - 450		
			6 Months-2 Years	150 - 450		
			2-6 Years	150 - 450		
			6-12 Years	150 - 450		
		Male 12-18 Years	150 - 450			
		Female 12-18 Years	150 - 450			
		Male > or = 18 Years	150 - 450			
Female > or = 18 Years	150 - 450					

BVH and AFCCC Shared Reference Ranges

**Hematology Reference Ranges: (cont.)**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
RDW-CV	DXH800 DXH600		0-7 months	14.9 - 18.7		
			> 7 months	11.6 - 14.8		

Test	Method	Sex	Criteria	Reference Range	Units %	Critical Range
Automated Differential	DXH800 DXH600 DXH690T DXH520	Male	NEUT%	see below	%	
			LYMPH%	see below		
			MONO%	4.7 - 13.9		
			EOS%	0.0 - 6.1		
			BASO%	0.0 - 1.2		
		Female	NEUT%	see below		
			LYMPH%	see below		
			MONO%	3.7 - 11.9		
			EOS%	0.0 - 5.4		
			BASO%	0.0 - 1.5		

Test	Method	Sex	Criteria	Reference Range	Units %	Critical Range
Neutrophil			Criteria	x 10 <sup>3</sup> /uL	%	
			0 Day	6.0 - 28.0	68 (54.4 - 81.6)	
			24 Hour	5.0 - 21.0	61 (48.8 - 73.2)	
			1 Week	1.5 - 10	45 (36 - 54)	
			2 Week	1 - 9.5	40 (32 - 48)	
			1 Month	1 - 8.5	35 (28 - 42)	
			6 Month	1 - 8.5	32 (25.6 - 38.4)	
			1 Year	1.5 - 8.5	31 (24.8 - 37.2)	
			2 Year	1.5 - 8.5	33 (26.4 - 39.6)	
			4 Year	1.5 - 8.5	42 (33.6 - 50.4)	
			6 Year	1.5 - 8	51 (40.8 - 61.2)	
			8 Year	1.5 - 8	53 (42.4 - 63.6)	
			10 Year	1.5 - 8.5	54 (43.2 - 64.8)	
			16 Year	1.8 - 8	57 (45.6 - 68.4)	
			21-older	1.8 - 7.7	59 (47.2 - 70.8)	

Test	Method	Sex	Criteria	Reference Range	Units %	Critical Range
Lymphocyte			Criteria	x 10 <sup>3</sup> /uL	%	
			0 Day	2 - 11	24 (19.2 - 28.8)	
			24 Hour	2 - 11.5	31 (24.8 - 37.2)	
			1 Week	2 - 17	41 (32.8 - 49.2)	
			2 Week	2 - 17	48 (38.4 - 57.6)	
			1 Month	2.5 - 16.5	56 (44.8 - 67.2)	
			6 Month	4 - 13.5	61 (48.8 - 73.2)	
			2 Year	3 - 9.5	59 (47.2 - 70.8)	
			4 Year	2 - 8	50 (40 - 60)	
			6 Year	1.5 - 7	42 (33.6 - 50.4)	
			8 Year	1.5 - 6.8	39 (31.2 - 46.8)	
			10 Year	1.5 - 6.5	38 (30.4 - 45.6)	
			16 Year	1.2 - 5.2	35 (28 - 42)	
			21-older	1 - 4.8	34 (27.2 - 40.8)	

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Automated Retic	DXH800 DXH600		0-1 Day	0.3 - 2.5	%	
			1-4 Days	1.8 - 4.6		
			4 Days - 6 Months	0.1 - 1.7		
			6 Months - 2 Years	0.7 - 2.3		
			2-18 Years	0.5 - 1.0		
		Male	> or = 18 Years	0.8 - 2.5		
		Female	> or = 18 Years	0.8 - 4.1		

BVH and AFCCC Shared Reference Ranges

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
ESR	Sedimat	Male	< 50 years	0 - 20	mm	N/A
			> 50 years	0 - 23		
		Female	< 50 years	0 - 23		
			> 50 years	0 - 30		

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Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Monospot	Manual			Negative		

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Bloodborn Parasite Screen	Manual			No parasites seen.		Any parasites seen.

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Semen Analysis	SQA Vision	Male	Volume	≥ 1.5 ml		
			pH	>7.2		
			WBC concentration	<1 M/ml		
			Sperm concentration	≥ 15 million/ml		
			Total Motility	≥ 40%		
			Sperm morphology	≥ 4%		
			Motile Sperm Conc.	≥ 6 million/ml		
			Sperm Motility Index	≥ 80		
			Total Sperm	≥ 39 million		
			Total Motile Sperm	≥ 16 million		
			Tot. Morph Norm Sperm	≥ 2 million		
			Appearance	clear/white/grey		
			Viscosity	normal		
Semen Analysis, Post Vas	SQA Vision	Male	Debris/Round Cells	< 10 %		
				≤ 0.10 million/ml		

**Coagulation Reference Ranges:**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
INR	ACL TOP			0.9-1.1		>5.0
Protime (PT)	ACL TOP		Mean = 11.5	10.2-12.9	sec	
PTT	ACL TOP			25.1-36.5	sec	> 135
Fibrinogen	ACL TOP			200-393	mg/dL	< 75

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Anti-Factor Xa	ACL TOP		at 4 hr Post LMWH Dose	1.0-2.0	IU/mL	for twice daily dose

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
D-Dimer	ACL TOP			<500	ng/mL FEU	Considered Negative for VTE Requires further clinical evaluation.
	ACL TOP			≥ 500		

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Platelet Function Analysis	PFA		COL/EPI	71 - 192	sec	N/A
			COL/ADP	55 - 115	sec	

BFT Reference Ranges

Last Updated: 3.26.25 by L.Morman

Last Revised 3/20/2025 by L.Morman

DXC 700 AU Reference Ranges:

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
A/G Ratio	Calculation			1.1 - 2.2		
Albumin	DXC 700 AU	Both	0 Day - 2 Days	2.8 - 4.2	g/dL	
		Male	3 Days - 18+ Years	4.2 - 5.5	g/dL	
		Female	3 Days - 18+ Years	3.7 - 5.3	g/dL	
<b>Alcohol (ETOH)</b>				< 10	mg/dL	> 300
Alkaline Phosphatase	DXC 700 AU	Both	0 Days - 2 Years	150 - 420	IU/L	
		Both	3 Years - 10 Years	100 - 320	IU/L	
		Male	10 Years - 18 Years	100 - 390	IU/L	
		Female	10 Years - 18 Years	100 - 320	IU/L	
		Both	18+ Years	34 - 104	IU/L	
ALT (SGPT)	DXC 700 AU	Both		7 - 52	IU/L	
Amylase	DXC 700 AU	Both		29 - 103	IU/L	
Anion Gap	DXC 700 AU	Both		4-12	mmol/L	
AST (SGOT)	DXC 700 AU	Both		13 -39	IU/L	
BUN	DXC 700 AU	Both		7 - 25	mg/dL	
BUN/Creatinine Ratio	Calculation	Both		15 - 25	Ratio	
Calcium	DXC 700 AU	Both		8.6 - 10.3	mg/dL	< 5.8, > 13.3
Cardiac Risk Factor	Calculation	Male		1/2 Average 3.43		
				Average 4.97		
				2X Average 9.55		
		Female		3X Average 23.99		
				1/2 Average 3.27		
				Average 4.44		
				2X Average 7.05		
	3X Average 11.04					
Chloride	DXC 700 AU			98 - 107	mmol/L	
Cholesterol	DXC 700 AU	Both	0 - 17 Years	0 - 169 desirable	mg/dL	
				170-199 borderline high	mg/dL	
				>200 high	mg/dL	
		Both	18+ Years	0 - 199 desirable	mg/dL	
				200-239 borderline high	mg/dL	
			>239 high	mg/dL		
CO2 (Carbon Dioxide)	Calculation	Both		0.9-1.1	mmol/L	< 10, > 40
CPK		Both		25.1-36.5	IU/L	> 135
Creatinine	DXC 700 AU	Male		0.7 - 1.3	mg/dl	> 10.0
		Female		0.6 - 1.2	mg/dl	> 10.0
Direct Bilirubin	DXC 700 AU	Both	0 Days - 5 Days	0.03 - 0.6	mg/dL	
			6 - Days - 17 Years	0.03 - 0.20	mg/dL	
			18+ years	0.03 - 0.18	mg/dL	
Glomerular Filtration Rate	Calculation	Both		> or = 60 GFR	ml/min/ 1.73 M <sup>2</sup>	
				30 - 59 Moderate decrease in GFR		
				15 - 29 Severe decrease in GFR		
				< 15 Kidney failure or Dialysis		
				Chronic kidney disease is defined as either kidney damage or GFR < 60 mL/min/1.73 m2 for > 3 months. Kidney damage is defined as pathologic abnormalities or markers of damage including abnormalities in blood or urine tests or imaging studies. This GFR is NOT used for medication dosing.		

BFT Reference Ranges

Glucose	DXC 700 AU		0 Hrs - 4 Hrs	41 - 60	mg/dL	< 25, > 250				
			4 Hrs - 1 Day	46 - 60	mg/dl	< 35, > 250				
			1 Day - 2 Months	51 - 90	mg/dl	< 45, > 250				
			2 Months - 16 Yrs	60 - 99	mg/dL	< 54, > 400				
			16 year +	70 - 99	mg/dl	< 54, > 400				
HDL (Direct)	DXC 700 AU	Both	0 Years - 17 Years	> 45	mg/dl					
		Male	18+ Years	> 40	mg/dl					
		Female	18+ Years	> 50	mg/dl					
Indirect Bilirubin	Calculation			0.0 - 1.0	mg/dL					
Iron	DXC 700 AU	Both	0 Days - 5 Days	100 - 250	ug/dL					
		Both	6 Days - 2 Years	40 - 100	ug/dL					
		Both	2 Years - 17 Years	50 - 120	ug/dL					
		Both	18+ Years	50 - 212	ug/dl					
Lactic Acid	DXC 700 AU	Both		0.5 - 2.2	mmol/L	> 4.0				
Lipase	DXC 700 AU	Both		11 - 82	IU/L					
LDH	DXC 700 AU	Both		140 - 271	IU/L					
LDL	Calculation	Both	0 - 17 years	0 - 109 desirable	mg/dL					
				110 - 129 borderline high	mg/dL					
				> = 130 high	mg/dL					
		18 + years	0 - 99 optimal	mg/dL						
			100 - 129 near optimal	mg/dL						
			130 - 159 borderline high	mg/dL						
			160 - 189 high	mg/dL						
			> = 190 very high	mg/dL						
			Lithium	DXC 700 AU				0.5 - 1.2	mmol/L	> 1.6
			Magnesium	DXC 700 AU				1.7 - 2.4	mg/dL	< 1.0, > 4.4
Phosphorus	DXC 700 AU	Both	0 - 9 Days	4.5 - 9.0	mg/dL	< 1.0				
			10 Days - 2 Years	4.0 - 6.5	mg/dL					
			3 Years - 10 Years	3.2 - 5.8	mg/dL					
			11 Years - 15 Years	3.3 - 5.4	mg/dL					
			16+ Years	2.5 - 4.6	mg/dL					
Potassium	DXC 700 AU	Both		3.4 - 4.8	mmol/L	< 2.5, > 6.5				
Rheumatoid Factor	DXC 700 AU	Both		0 - 14	IU/mL					
Sodium	DXC 700 AU	Both		136 - 145	mmol/L	< 120, > 160				
Total Bilirubin	DXC 700 AU		0 Day - 1 Day	0.3 - 8.0	mg/dL	> 12.0				
			1 Day - 2 Days	0.3 - 11.5	mg/dL	> 15.0				
			3 Days - 5 Days	0.3 - 12.0	mg/dL					
			5+ Days	0.3 - 1.0	mg/dL					
Total Protein	DXC 700 AU	Both	0 Day - 15 days	4.4 - 7.6	g/dL					
			16 Days - 1 Year	5.1 - 7.3	g/dL					
			1 Year - 2 Years	5.6 - 7.5	g/dL					
			3 Years - 16 Years	6.0 - 8.0	g/dL					
			17+ Years	6.0 - 8.3	g/dL					
Triglycerides	DXC 700 AU	Both	0 - 17 Years	0 - 89 normal	mg/dL					
				90 - 129 borderline high	mg/dL					
				> = 130 high	mg/dL					
		18+ Years	0 - 149 normal	mg/dL						
			150-199 borderline high	mg/dL						
			200-499 high	mg/dL						
			> 499 very high	mg/dL						
Uric Acid	DXC 700 AU	Male		4.4 - 7.6	mg/dl					
		Female		2.3 - 6.6	mg/dl					
VLDL	Calculation			8 - 39	mg/dL					

BFT Reference Ranges

**Chemistry Cerebrospinal Fluid Tests**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Glucose, Spinal Fluid	DXC 700 AU	Both		40 - 70	mg/dL	< 25
Protein, Spinal Fluid	DXC 700 AU	Both	0 Days - 29 Days	15 - 130	mg/dL	
			30+ Days	15 - 45	mg/dL	
CSF Xanthochromia	Visual	Both		Clear		Xanthochromic

**Chemistry Urine Tests:**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Creatinine, 24 Hour, Urine	DXC 700 AU	Male		800 - 2000	mg/24hr	
		Female		600 - 1800	mg/24hr	
Creatinine Clearance, 24 Hour, Urine	DXC 700 AU	Male		74 - 140	mL/min	
		Female		74 - 130	mL/min	
Protein, 24 Hour, Urine	DXC 700 AU	Both		50 - 80	mg/24hr	
Protein, Random, Urine		Both	Random	< 10	mg/dL	

**Glucose Tolerance Test (75 grams of Glucola)**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Fasting Glucose	DXC 700 AU			70 - 99	mg/dL	< 54, > 400
1 Hour Glucose	DXC 700 AU			70 - 199	mg/dL	< 54, > 400
2 Hour Glucose	DXC 700 AU			70 - 139	mg/dL	< 54, > 400
3 Hour Glucose	DXC 700 AU			70 - 99	mg/dL	< 54, > 400
4 Hour Glucose	DXC 700 AU			70 - 99	mg/dL	< 54, > 400
5 Hour Glucose	DXC 700 AU			70 - 99	mg/dL	< 54, > 400
6 Hour Glucose	DXC 700 AU			70 - 99	mg/dL	< 54, > 400

**Gestational Glucose Tolerance, 2 Hour (ADA Recommendations) 75 g Glucola**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Fasting Glucose	DXC 700 AU			70 - 91	mg/dL	< 54, > 400
1 Hour Glucose	DXC 700 AU			70 - 179	mg/dL	< 54, > 400
2 Hour Glucose	DXC 700 AU			70 - 152	mg/dL	< 54, > 400

**Gestational Glucose Tolerance, 3 Hour (ACOG Recommendations) 100 g Glucola**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Fasting Glucose	DXC 700 AU			70 - 94	mg/dL	< 50, > 400
1 Hour Glucose	DXC 700 AU			70 - 179	mg/dL	< 50, > 400
2 Hour Glucose	DXC 700 AU			70 - 154	mg/dL	< 50, > 400
3 Hour Glucose	DXC 700 AU			70 - 139	mg/dL	< 50, > 400

**Gestational Diabetes Screen (ACOG Recommendations) 50 g Glucola**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
1 Hour Glucose	DXC 700 AU			70 - 134	mg/dL	< 54, > 400

**2 Hour Post-Prandial Glucose Test:**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
2 Hour Glucose	DXC 700 AU			70 - 139	mg/dL	< 54, > 400

**Insulin Resistance with Glucose - 2 Hour**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Fasting Glucose	DXC 700 AU			70 - 99	mg/dL	< 54, > 400
1 Hour Glucose	DXC 700 AU			70 - 199	mg/dL	< 54, > 400
2 Hour Glucose	DXC 700 AU			70 - 139	mg/dL	< 54, > 400
Fasting Insulin	DXI 600			1.9 - 23.0	uIU/mL	
1 Hour Insulin	DXI 600			No Ref Range	uIU/mL	
2 Hour Insulin	DXI 600			No Ref Range	uIU/mL	

BFT Reference Ranges

**Chemistry Urine Drug Screening Tests:**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Amphetamines (AMPH)	DXC 700 AU			Negative = < 1000	ng/mL	
Barbiturates (BARB)	DXC 700 AU			Negative = < 200	ng/mL	
Benzodiazepine (BENZ)	DXC 700 AU			Negative = < 200	ng/mL	
Cocaine Metabolites (COCM)	DXC 700 AU			Negative = < 300	ng/mL	
Methadone (METD)	DXC 700 AU			Negative = < 300	ng/mL	
Oxycodone (OXY)	DXC 700 AU			Negative = < 100	ng/mL	
Opiate (OP)	DXC 700 AU			Negative = < 300	ng/mL	
Phencyclidine (PCP)	DXC 700 AU			Negative = < 25	ng/mL	
Buprenorphine (BUP)	Med-Tox			Negative = < 10	ng/mL	
Cannabinoid (TCH50)	DXC 700 AU			Negative = <50	ng/mL	

Beckman Access II Reference Ranges:

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Beta HCG	Access II			0-4.9	mIU/mL	
BNP	Access II			0-100	pg/mL	
Myoglobin	Access II	Male		17.4-105.7	ng/dL	
		Female		14.3-65.8	ng/dL	
Troponin	Access II	Male		0-20	ng/L	> 50
		Female		0-15	ng/L	> 50
TSH	Access II		0 days - 1 day	2.43 - 24.03	uIU/mL	
			1 day - 2 days	1.9 - 17.58	uIU/mL	
			2 days - 3 days	1.4 - 13.1	uIU/mL	
			3 days - 4 days	0.94 - 9.65	uIU/mL	
			4 days - 1 week	0.6 - 6.82	uIU/mL	
			1 week - 5 years	0.57 - 5.58	uIU/mL	
			5 years - 8 years	0.56 - 5.41	uIU/mL	
			8 years - 12 years	0.55 - 5.31	uIU/mL	
		12 years - 15 years	0.53 - 5.16	uIU/mL		
		15 years - 18 years	0.52 - 5.05	uIU/mL		
		18+ years	0.45 - 5.33	uIU/mL		

**Coagulation Tests:**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
PT	ACL TOP			10.2-12.9	seconds	
INR	Calculation			0.9 - 1.1	Ratio	> 5.00
PTT	ACL TOP			25.1-36.5	seconds	> 135
D-Dimer	ACL TOP			<500	ng/mL FEU	Considered Negative for VTE Requires further clinical evaluation.
				≥ 500		

**Serology Tests:**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
HIV	Manual			Negative		
Influenza A/B	Manual			Negative		
Monospot Test	Manual			Negative		
Occult Blood, Fecal	Manual			Negative		
Occult Blood, Gastric	Manual			Negative		
RSV	Manual			Negative for RSV		
RPR	Manual			Non-Reactive		Reactive
Serum Pregnancy	Manual			Negative		
Urine Pregnancy	Manual			Negative		

BFT Reference Ranges

**Urinalysis Tests:**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Color				Yellow		
Clarity				Clear		
Bacteria	Clinitek Status +			Absent		
Bilirubin	Clinitek Status +			Negative		Large
Glucose	Clinitek Status +			Negative	mg/dL	
Ketones	Clinitek Status +			Negative		
Leukocyte esterase	Clinitek Status +			Negative		
Nitrates	Clinitek Status +			Negative		
pH	Clinitek Status +			4.6 - 8.0		
Proteins	Clinitek Status +			Negative	mg/dL	
RBC/Hgb	Clinitek Status +			Negative		
Specific Gravity	Clinitek Status +			1.001 - 1.035		



BFT Reference Ranges

**Hematology Tests: DXH 690T**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range	
WBC	DXH690T		0-1 Day	9.0 - 30.0	x10 <sup>3</sup> / uL	< 2.0, > 50.0	
			1-4 Days	9.4 - 34.0			
			4 Days - 1 Month	5.0 - 20.0			
			1 Month - 6 Months	4.0 - 19.5			
			6 Months - 2 Years	6.0 - 17.0			
			2-6 Years	5.0 - 15.5			
			6-18 Years	4.5 - 13.5			
> or = 18 Years	4.5 - 11.0						
RBC	DXH690T		0 Day-1 month	3.90 - 5.90	x10 <sup>6</sup> / uL		
			1 Month - 6 Months	3.30 - 5.30			
			6 Months - 2 Years	3.90 - 4.80			
			2-6 Years	3.70 - 4.90			
			6-18 Years	3.80 - 5.60			
			Male	> or = 18 Years			4.30 - 5.80
Female	> or = 18 Years	3.80 - 5.20					
Hemoglobin (Hgb)	DXH690T		0 - 4 Days	14.5 - 22.5	g/dL	< 9.5, > 23	
			4 Days - 1 Month	13.4 - 19.8			
			1 Month - 2 Months	10.7 - 17.1		< 6.9, > 20.8	
			2-6 Months	9.4 - 13.0			
			6 Months - 2 Years	10.5 - 13.5			
			2-6 Years	11.5 - 13.5			
			6-12 Years	11.5 - 15.5		< 6.6, > 19.9	
			Male	12-18 Years			13.0 - 16.0
			Female	12-18 Years			12.0 - 16.0
			Male	18 Years and older			13.5 - 17.5
Female	18 Years and older	12.0 - 16.0					
Hematocrit (Hct)	DXH690T		0-4 Days	45 - 67	%		
			4 Days - 1 Month	41 - 65			
			1-2 Months	33 - 55			
			2-6 Months	28 - 42			
			6 Months - 2 Years	33 - 39			
			2-6 Years	34 - 40			
			6-12 Years	35 - 45			
			Male	12-18 Years			36 - 50
			Female	12-18 Years			37 - 45
			Male	18 Years and older			41 - 53
Female	18 Years and older	36 - 46					
MCV	DXH690T		0-4 Days	95 - 121	fL		
			4 Days - 1 Month	88 - 122			
			1-2 Months	91 - 111			
			2-6 Months	84 - 106			
			6 Months - 2 Years	70 - 86			
			2-6 Years	75 - 87			
			6-12 Years	77 - 95			
			Male	12-18 Years			78 - 98
			Female	12-18 Years			78 - 90
			Male	18 Years and older			80 - 100
Female	18 Years and older	80 - 100					
MCH	DXH690T		0 Minutes - 1 Month	30 - 37			
			1-6 Months	29 - 36			
			6 Months - 2 Years	24 - 30			
			2-6 Years	25 - 31			
			6-18 Years	25 - 34			
			> or = 18 Years	27 - 35			

BFT Reference Ranges

MCHC	DXH690T		0-4 Days	29.0 - 37.0	g/dL	
			4 Days - 1 Month	28.1 - 34.7		
			1-2 Months	28.1 - 35.5		
			2-6 Months	28.3 - 35.3		
			6 Months - 2 Years	30.0 - 36.0		
			2-6 Years	31.0 - 37.0		
			6-12 Years	31.0 - 37.0		
		Male	12-18 Years	31.0 - 37.0		
		Female	12-18 Years	31.0 - 37.0		
	Male	18 Years and older	31.0 - 37.0			
	Female	18 Years and older	31.0 - 37.0			
Platelet Count	DXH690T			150 - 450	$\times 10^3 / \mu\text{L}$	< 50, > 999
RDW-cv	DXH690T		0-6 months	14.9 - 18.7		
			> 6 months	11.6 - 14.8		
Absolute Neutrophil Critical			<15 years < 0.5	Absolute		Automated
Neutrophil	DXH690T			$\times 10^3 / \mu\text{L}$		%
			0-1 Day	6.0 - 28.0		54.4-81.6
			1-7 days	5.0 - 21.0		48.8-73.2
			7-14 days	1.5 - 10		36-54
			14 days-1 Month	1 - 8.5		32-48
			1-6 Month	1 - 8.5		28-42
			6 month - 1 Year	1.5 - 8.5		25.6-38.4
			1-2 Years	1.5 - 8.5		24.8-37.2
			2-4 Years	1.5 - 8.5		26.4-39.6
			4-6 Years	1.5 - 8		33.6-50.4
			6-8 Years	1.5 - 8		40.8-61.2
			8-10 Years	1.5-8		42.4-63.6
			10-16 Years	1.5 - 8.5		43.2-64.8
			16-21 Years	1.8 - 8		45.6-68.4
	>21 Years	1.8 - 7.7		47.2-70.8		
Lymphocyte	DXH690T			$\times 10^3 / \mu\text{L}$		%
			0-1 Day	2 - 11		24 (19.2 - 28.8)
			1-7 days	2 - 11.5		31 (24.8 - 37.2)
			7-14 days	2 - 17		41 (32.8 - 49.2)
			14 days-1 Month	2 - 17		48 (38.4 - 57.6)
			1-6 Month	2.5 - 16.5		56 (44.8 - 67.2)
			6 month - 1 Year	4 - 13.5		61 (48.8 - 73.2)
			1-2 Years	4 - 10.5		61 (48.8 - 73.2)
			2-4 Years	3 - 9.5		59 (47.2 - 70.8)
			4-6 Years	2 - 8		50 (40 - 60)
			6-8 Years	1.5 - 7		42 (33.6 - 50.4)
			8-10 Years	1.5 - 6.8		39 (31.2 - 46.8)
			10-16 Years	1.5 - 6.5		38 (30.4 - 45.6)
			16-21 Years	1.2 - 5.2		35 (28 - 42)
	>21 years	1 - 4.8		34 (27.2 - 40.8)		
Monocyte	DXH690T			$\times 103 / \mu\text{L}$		%
			Male	0.3-1.1		4.7-13.9
			Female	0.1-1.1		<b>3.7-13.9</b>
ESR	ESR Auto Plus	Male	< 50 years	0 - 20	mm	
			> 50 years	0 - 23		
		Female	< 50 years	0 - 23		
			> 50 years	0 - 30		
Semen, Post Vasectomy	Manual	Male		No sperm seen.		

BFT Reference Ranges

**Critical Tests:**

Testing Area:	Test
<b>Blood Bank Critical Tests:</b>	Transfusion Reaction Evaluation
	Transfusion associated infection or disease
	Positive DAT on a newborn

**Critical Tests:**

\*Infection Control Concern-only call Inpatient/NH\*

Testing Area:	Test type	Test	Reference Range	Source	Critical Range
<b>Microbiology</b>	<b>Culture</b>	CSF Gram Stain	Negative	CSF	Positive*
	<b>Molecular</b>	Group A Strep	Negative	Throat	Positive
	<b>Rapid Kit</b>	Exposure HIV 1/2	Negative	Blood	Positive

**Bluffton Blood Gas, Arterial**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
pH Arterial	iSTAT		0 minutes-1 month	7.33-7.49		
	iSTAT		1-2 months	7.33-7.49		7.21-7.59
	iSTAT		2 months-2 years	7.34-7.46		7.21-7.59
	iSTAT		> 2 years	7.35-7.45		7.21-7.59
pCO2 Arterial	iSTAT		0-2 months	27-40	mmHg	
	iSTAT		2 months-2 years	26-41		
	iSTAT		>2 Years	36-46		
pO2 Arterial	iSTAT		0-2 months	60-76	mmHg	
	iSTAT		>2 months	80-105		
HCO3 Arterial	iSTAT			22-36	mEq/L	
Base Excess Arterial	iSTAT			-2.0 - 3.0	mEq/L	
tCO2 Arterial	iSTAT		0-2 months	17-24		
	iSTAT		2 months-2 years	16-24		
	iSTAT		>2 years	19-29		
sO2 Arterial	iSTAT			94-100		

**Bluffton Blood Gas, Venous**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
pH Venous	iSTAT		0-1 month	7.33 - 7.42		
	iSTAT		>1 month	7.33-7.42		7.21-7.59
pCO2 Venous	iSTAT			40-50	mmHg	
pO2 Venous	iSTAT			25-47	mmHg	
HCO3 Venous	iSTAT			23-28	mEq/L	
Base Excess Venous	iSTAT			-2.0 - 3.0	mEq/L	
tCO2 Venous	iSTAT		0-18 Years	18-27		
	iSTAT		>18 Years	24-35		
sO2 Venous	iSTAT			60-85		

## AFCCC Reference Ranges

Last Updated: 3.26.25 by L.Morman

### Chemistry Reference Ranges:

#### Au 480 Reference Ranges:

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
A/G Ratio	Calculation	Both		1.1 - 2.2	Ratio	
Albumin	AU 480	Both		3.5 - 5.7	gm/dL	
Alkaline Phosphatase	AU 480	Both		34 - 104	IU/L	
ALT (SGPT)		Both		7 - 52	IU/L	
Anion Gap	Calculation	Both		7 - 17	mmol/L	
AST (SGOT)	AU480	Both		13 - 39	IU/L	
BUN	AU480	Both		7 - 25	mg/dL	
BUN/Creatinine Ratio	Calculation	Both		15 - 25	Ratio	
Calcium	AU480	Both	> 2 days	8.6 - 10.2	mg/dl	< 6.3, > 13.3
Chloride	AU480	Both		98 - 107	mmol/L	
CO2 (Carbon Dioxide)	AU480	Both		21 - 31	mmol/L	< 10, > 40
Creatinine	AU480	Both		0.6 - 1.3	mg/dl	> 10.0
Direct Bilirubin	AU480	Both		0.1 - 0.5	mg/dL	
Glomerular Filtration Rate	Calculation	Both		> or = 60 GFR	ml/min/ 1.73 M <sup>2</sup>	
				30 - 59 Moderate decrease in GFR		
				15 - 29 Severe decrease in GFR		
				< 15 Kidney failure or Dialysis		
			Chronic kidney disease is defined as either kidney damage or GFR < 60 mL/min/1.73 m <sup>2</sup> for > or = 3 months. Kidney damage is defined as pathologic abnormalities or markers of damage including abnormalities in blood or urine tests or imaging studies. This GFR is NOT used for medication dosing.			
Glucose	AU480		0 Hrs - 4 Hrs	41 - 60	mg/dL	< 25, > 250
			4 Hrs - 1 Day	46 - 60	mg/dl	< 35, > 250
			1 Day - 2 Months	60 - 99	mg/dl	< 45, > 250
			2 Months - 16 Yrs	60 - 99	mg/dL	< 54, > 400
			16 year +	70 - 99	mg/dl	< 54, > 400
Indirect Bilirubin	Calculation	Both		0.9-1.1	mg/dL	
LDH		Both		25.1-36.5	IU/L	> 135
Magnesium		Both		1.7 - 2.4	mg/dL	< 1.0, > 4.4
Phosphorus	AU 480	Both		2.5 - 5.0	mg/dL	< 1.0
Potassium	AU480	Both		3.5 - 5.1	mmol/L	< 2.5, > 6.0
Sodium	AU480	Both	2+ Years	136 - 145	mmol/L	< 120, > 160
Total Bilirubin	AU480	Both		0.3 - 1.0	mg/dL	> 15.0
Total Protein	AU480	Both		6.4 - 8.9	gm/dl	

BVH Critical Test List

Last Updated: 3.26.25 by L.Morman  
 Reviewed. No changes required. H Budke, M.D.

**Hematology Tests with Critical Ranges:**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
WBC	DXH690T		0-1 Day	9.0 - 30.0	x10 <sup>3</sup> / uL	< 2.0 and >50.0
			1-3 Days	9.4 - 34.0		
			4 Days - 1 month	5.0 - 20.0		
			1 month - 6 months	4.0 - 19.5		
			6 months - 2 years	6.0 - 17.0		
			2 - 6 years	5.0 - 15.5		
			6 - 18 years	4.5 - 13.5		
		Male > or = 18 years	4.5 - 11.0			
		Female > or = 18 years	4.5 - 11.0			

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Hemoglobin (Hgb)	DXH690T		0-4 Days	14.5-22.5	g/dL	< 9.5 and > 22.5
			4 Days - 1 month	13.4 - 19.8	g/dL	< 6.9 and > 20.8
			1-2 months	10.7 - 17.1		
		2-6 months	9.4 - 13.0			
		6 months - 2 years	10.5 - 13.5			
		2-6 years	11.5 - 13.5	g/dL	< 6.6 and > 19.9	
		6-12 years	11.5 - 15.5			
		Male 12-18 years	13.0 - 16.0			
		18 years and older	13.5 - 17.5			
		Female 12-18 years	12.0 - 16.0			
18 years and older	12.0 - 16.0					

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Platelet Count	DXH690T			150 - 400	x10 <sup>3</sup> / uL	< 50 and > 999

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Absolute Neutrophil			NEUT#			<15 years < 0.5

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Bloodborn Parasite Screen	Manual			No parasites seen.		Any parasites seen.

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
INR	Calculation			0.9-1.1		> 5.0
PTT	ACL TOP			25.1-36.5	sec	> 135
Fibrinogen	ACL TOP			200-393	mg/dL	< 75

BVH Critical Test List

**Chemistry Tests with Critical Ranges:**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Acetaminophen	DXC 600		Therapeutic	10 - 30	ug/mL	> 150
			Hepatotoxic			
			4 hrs Post Ingestion	> 150	ug/ml	
			8 hrs Post Ingestion	> 75	ug/ml	
			12 hrs Post Ingestion	> 40	ug/ml	
Alcohol (ETOH)	DXC 600			< 10 (none detected)	mg/dL	> 300
Ammonia	DXC 600	Both	0 - 2 Weeks	< 90	umol/L	> 100
			2+ Weeks - <18 Years	< 50	umol/L	> 100
			18+ Years	9 - 35	umol/L	> 100
Calcium	DXC 600		0-2 days	6.2 - 11.0	mg/dL	< 5.8, > 13.3
			> 2 days	8.5 - 10.3	mg/dl	< 6.3, > 13.3
CO2 (Carbon Dioxide)	DXC 600			22 - 32	mmol/L	< 10, > 40
Creatinine	DXC 600	Male		0.61 - 1.24	mg/dl	> 10.0
		Female		0.44 - 1.03	mg/dl	> 10.0
Digoxin	DXC 600			0.8 - 2.0	ng/mL	> 2.4
Dilantin	DXC 600			10 - 20	ug/mL	> 30
Gentamicin	DXC 600		Peak	5 - 10	ug/mL	> 10
			Trough	< 2	ug/ml	
Glucose	DXC 600		0 Hrs - 4 Hrs	41 - 60	mg/dL	< 25, > 250
			4 Hrs - 1 Day	46 - 60	mg/dl	< 35, > 250
			1 Day - 2 Months	51 - 90	mg/dl	< 45, > 250
			2 Months - 16 Yrs	60 - 99	mg/dL	< 54, > 400
			16 year +	70 - 99	mg/dl	< 54, > 400
Lactic Acid	DXC 600			0.5 - 2.0	mmol/L	> 4.0
Magnesium	DXC 600			1.7 - 2.4	mg/dL	< 1.0, > 4.4
Phenobarbital	DXC 600			15 - 40	ug/mL	> 60
Phosphorus	DXC 600		0 - 9 Days	4.5 - 9.0	mg/dL	< 1.0
			10 Days - 2 Years	4.0 - 6.5	mg/dL	
			3 Years - 9 Years	3.2 - 5.8	mg/dL	
			10 Years - 15 Years	3.3 - 5.4	mg/dL	
			16+ Years	2.5 - 4.6	mg/dL	
Potassium	DXC 600		0 - 7 Days	3.2 - 5.5	mmol/L	< 2.5, > 6.5
			8 Days - 1 Year	3.4 - 6.0	mmol/L	< 2.5, > 6.5
			2+ Years	3.4 - 4.8	mmol/L	< 2.5, > 6.0
Salicylate	DXC 600			0 - 30	mg/dL	> 40
Sodium	DXC 600		0 - 1 Year	130- 145	mmol/L	< 120, > 160
			2+ Years	133 - 142		
Tegretol	DXC 600			4 - 12	ug/mL	> 20
Total Bilirubin	DXC 600		0-1 Day	1.4 - 8.7	mg/dL	> 12.0
			1-2 Days	3.4 - 11.5	mg/dL	> 15.0
			3-5 Days	1.5 - 12.0	mg/dL	
			> 5 Days	0.3 - 1.2	mg/dL	
T4, Free	Dxl		0 Day - 10 Years	0.60 - 1.34	ng/dL	> 6.00
			11-18 Years	0.50 - 1.25	ng/dL	> 6.00
			19+ Years	0.61 - 1.12	ng/dL	> 6.00
Troponin-I	Dxl	Male		0-20	ng/L	≥ 50.0
		Female		0-15	ng/L	≥ 50.0
Valproic Acid	DXC 600			50 - 100	ug/mL	> 150
Vancomycin	DXC 600		Peak	20 - 40	ug/mL	> 40
			Trough	10 - 15	ug/ml	
CSF Glucose	DXC 600			40 - 70	mg/dL	< 25
CSF Xanthochromia	Visual			Clear		Xanthochromic
HIV 1/2 Ag/Ab Combo - Alere	Kit			Negative		Reactive

BVH Critical Test List

**Glucose Tolerance Test (75 grams of Glucola)**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Fasting Glucose	DXC 600			70 - 99	mg/dL	< 54, > 400
1 Hour Glucose	DXC 600			70 - 199	mg/dL	< 54, > 400
2 Hour Glucose	DXC 600			70 - 139	mg/dL	< 54, > 400
3 Hour Glucose	DXC 600			70 - 99	mg/dL	< 54, > 400
4 Hour Glucose	DXC 600			70 - 99	mg/dL	< 54, > 400
5 Hour Glucose	DXC 600			70 - 99	mg/dL	< 54, > 400
6 Hour Glucose	DXC 600			70 - 99	mg/dL	< 54, > 400

**Gestational Glucose Tolerance, 2 Hour (ADA Recommendations) 75 g Glucola**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Fasting Glucose	DXC 600			70 - 91	mg/dL	< 54, > 400
1 Hour Glucose	DXC 600			70 - 179	mg/dL	< 54, > 400
2 Hour Glucose	DXC 600			70 - 152	mg/dL	< 54, > 400

**Gestational Glucose Tolerance, 3 Hour (ACOG Recommendations) 100 g Glucola**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Fasting Glucose	DXC 600			70 - 94	mg/dL	< 50, > 400
1 Hour Glucose	DXC 600			70 - 179	mg/dL	< 50, > 400
2 Hour Glucose	DXC 600			70 - 154	mg/dL	< 50, > 400
3 Hour Glucose	DXC 600			70 - 139	mg/dL	< 50, > 400

**Gestational Diabetes Screen (ACOG Recommendations) 50 g Glucola**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
1 Hour Glucose	DXC 600			70 - 134	mg/dL	< 54, > 400

**2 Hour Post-Prandial Glucose Test:**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
2 Hour Glucose	DXC 600			70 - 139	mg/dL	< 54, > 400

**Insulin Resistance with Glucose - 2 Hour**

Test	Method	Sex	Criteria	Reference Range	Units	Critical Range
Fasting Glucose	DXC 600			70 - 99	mg/dL	< 54, > 400
1 Hour Glucose	DXC 600			70 - 199	mg/dL	< 54, > 400
2 Hour Glucose	DXC 600			70 - 139	mg/dL	< 54, > 400
Fasting Insulin	DXI 600			1.9 - 23.0	uIU/mL	
1 Hour Insulin	DXI 600			No Ref Range	uIU/mL	
2 Hour Insulin	DXI 600			No Ref Range	uIU/mL	

BVH Critical Test List

**Microbiology Tests with Critical Ranges:**

\*Infection Control Concern-only call Inpatient/NH\*

Testing Area:	Test type	Test	Reference Range	Source	Critical Range
Microbiology	Culture	Blood	Negative	Blood	Positive
		CSF	Negative	CSF	Positive
		Acid Fast Bacillus	Negative	All	Positive
		Group A Strep Backup	Negative	Throat	Positive
		Group B Strep	Negative	Nursery only	Positive
		Gonorrhoea	Negative	All	Positive
	Organism	MDRO*	Negative	All	Positive*
		CRE*	Negative	All	Positive*
		ESBL*	Negative	All	Positive*
		VRE*	Negative	All	Positive*
		MRSA*	Negative	All	Positive*
Microbiology	PCR				
		Bordatella pertussis	Negative	NP	Positive
		Bordatella para/ bronch	Negative	NP	Positive
		Bordatella holmesii	Negative	NP	Positive
		Gonorrhoea PCR	Negative	genital / urine	Positive <16yo
		Chlamydia PCR	Negative	genital / urine	Positive <16yo
		MRSA PCR*	Negative	nasal	Positive*
		CDT Toxin PCR	Negative	stool	Positive
		Covid PCR*	Negative	nasal	Positive
Microbiology	EIA	Group A Strep	Negative	Throat	Positive
		Giardia Antigen	Negative	Stool	Positive
		Cryptosporidium Antigen	Negative	Stool	Positive
		CDT Toxin Screen EIA	Negative	Stool	Positive
		Ova and Parasite	Negative	Stool	Positive
		Legionella Antigen	Negative	Urine	Positive



BVH Critical Test List

**Critical Tests by Testing Area: Summary**

Testing Area:	Test
<b>Hematology Critical Tests:</b>	White Blood Cell Count (WBC)
	Hemoglobin (Hgb)
	Absolute Neutrophil Count
	Platelet Count
	Blood Parasites Screen (Malaria)

Testing Area:	Test
<b>Coagulation Critical Tests:</b>	PT/INR (International Normalized Ratio)
	PTT
	Fibrinogen

Testing Area:	Test
<b>Blood Gases Critical Tests:</b>	pH
	pCO2
	pO2
	Oxyhemoglobin
	Carboxyhemoglobin
	Methemoglobin
	O2 Content
	Total Hemoglobin

Testing Area:	Test
<b>Chemistry Critical Test:</b>	Ammonia
	BUN
	Calcium
	CO2
	Creatinine
	CSF Glucose
	CSF Xanthochromia
	Glucose
	Gestational Diabetes Screen Test (Glucose)
	Gestational Diabetes Tolerance Test (Glucose)
	Glucose Tolerance Test
	2 Hour Post-Prandial Glucose Test

**Critical Tests by Testing Area Summary: (cont.)**

Testing Area:	Test
<b>Chemistry Critical Test: (cont.)</b>	Lactic Acid
	Magnesium
	Phosphorous
	Potassium
	Sodium
	Free T4
	Total Bilirubin
Troponin I	

Testing Area:	Test
<b>Therapeutic Drug Critical Tests:</b>	Digoxin
	Dilantin
	Gentamicin
	Phenobarbital
	Tegretol
	Valproic Acid
	Vancomycin

Testing Area:	Test
<b>Toxicology Critical Tests:</b>	Acetaminophen
	Alcohol (ETOH)
	Salicylate

Testing Area:	Test
<b>Blood Bank Critical Tests:</b>	Transfusion Reaction Evaluation
	Transfusion associated infection or disease
	Antibody Titer increase 2 tube or more
	Positive DAT on a newborn