

TidalHealth Peninsula Regional  
100 E. Carroll St. Salisbury, MD 21801  
**Laboratory Normal Values - Reviewed 04/23/2023**

Test Name	Units	Effective Date	Age Range	Male Range	Female Range	Range for Both
<b>Chemistry, Routine</b>						
Albumin	g/dL	7/1/2008	40 Years & Up			3.2 - 5.0
			18 to 39 Years			3.5 - 5.0
			7 to 17 Years			3.8 - 5.6
			4 to 6 Years			3.6 - 5.2
			1 to 3 Years			3.5 - 4.7
			8 Days to 11 Months			1.2 - 4.7
			0 to 7 Days			2.4 - 4.9
Alk. Phosphatase	IU/L	7/1/2008	60 Years & Up	56 - 155	43 - 160	
			20 to 59 Years			38 - 126
			16 to 19 Years	98 - 317	82 - 169	
			14 to 15 Years	169 - 618	103 - 283	
			10 to 13 Years	200 - 600	43 - 160	
			7 to 9 Years			218 - 499
			1 to 6 Years			200 - 450
0 Days up to 1 Year			100 - 450			
ALT (SGPT)	IU/L	7/1/2008	0 Days & Up	17 - 63	14 - 54	
Amylase	U/L	7/1/2008	18 Years & Up			28 - 100
			1 to 17 Years			<95
			6 Mo up to 1 Year			<73
			1 Mo to 5 Mos			<39
			0 up to 30 Days			<16
AST (SGOT)	IU/L	7/1/2008	7 Years & Up			15 - 41
			7 Days to 6 Years			16 - 60
			0 to 6 Days			23 - 95
Bilirubin, Direct	mg/dL	7/9/2008	0 Days & Up			<=0.5
Bilirubin, Indirect	mg/dL	7/1/2008	0 Days & Up			0.1 - 0.9
Bilirubin, Total	mg/dL	8/23/2008	18 Years & Up			0.3 - 1.2
			30 Days to 17 Yrs			0.0 - 2.0
			7 to 29 Days			0.0 - 7.0
			3 to 6 Days			0.0 - 12.0
			2 Days			<11.0
			1 Day			<7.5
			0 Days			0.0 - 6.0
BUN	mg/dL	7/1/2008	60 Years & Up			8 - 23
			0 Days to 59 Years			8 - 20
Calcium	mg/dL	2/5/1999	0 Days & Up			8.9 - 10.3
Chloride	mmol/L	7/1/2008	0 Days & Up			101 - 111
Cholesterol	mg/dL	4/23/2024	18 Years & Up			<200
			2 up to 18 Years			<170
CO2	mmol/L	7/1/2008	0 Days & Up			22 - 32

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CK, Total	U/L	7/1/2008	0 Days & Up	49 - 397	38 - 234	
Creatinine (Bld)	mg/dL	7/1/2008	18 Years & Up	0.64 - 1.27	0.44 - 1.03	
			12 to 17 Years			0.50 - 1.00
			1 to 11 Years			0.30 - 0.70
			0 to 11 Months			0.30 - 1.00
Creatinine, Ur. 24 hr	g/24 Hr	7/1/2008	0 Days & Up	0.8 - 2.0	0.6 - 1.5	
Creat. Clearance Ur.	mL/min	7/1/2008	20 up to 30 Years	88 - 146	81 - 134	
			30 up to 40 Years	82 - 140	75 - 128	
			40 up to 50 Years	75 - 133	69 - 122	
			50 up to 60 Years	68 - 126	64 - 116	
			60 up to 70 Years	61 - 120	58 - 110	
			70 up to 80 Years	55 - 113	52 - 105	
eGFR	mL/min/1.73 m <sup>2</sup>	4/9/2020	18 Years & Up			>= 60
Gamma GT	IU/L	7/1/2008	20 Years & Up			7 - 50
			10 to 19 Yrs	7 - 30	7 - 23	
			7 Months to 9 Years	8 - 38	8 - 59	
			4 to 6 Months	5 - 93	13 - 123	
			0 to 3 Months	20 - 170	16 - 140	
Glucose, Fasting	mg/dL	1/22/2004	18 Years & Up			70 - 100
			1 to 17 Years			60 - 100
			10 Days to 11 Mos			50 - 80
			0 to 9 Days			40 - 60
Glucose, Random	mg/dL	1/20/2018	0 Days & Up			70 - 200
LDH	IU/L	7/1/2008	20 Years & Up			98 - 192
			16 to 19 Years			117 - 215
			7 to 15 Years			138 - 229
			1 to 6 Years			160 - 383
			1 to 12 Months			155 - 350
			0 up to 1 Month			187 - 600
LDL (Direct & Calculated)	mg/dL	4/23/2024	18 Years & Up			<100
			2 to 17 Years			<110
Lipase	U/L	7/1/2008	18 Years & Up			10 - 51
			2 to 17 Years			11 - 33
			0 to 1 Year			12 - 23
Magnesium	mg/dL	11/24/2012	0 Days & Up			1.7 - 2.4
Phosphorus	mg/dL	7/1/2008	16 Years & Up			2.4 - 4.7
			13 to 15 Years			3.1 - 5.4
			2 to 12 Years			3.1 - 5.9
			1 Mo. up to 2 Years			3.1 - 6.8
			0 Days up to 1 Month			3.1 - 7.7

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Potassium	mmol/L	7/1/2008	16 Years & Up			3.6 - 5.1
			2 to 15 Years			3.4 - 4.7
			10 Days up to 2 Yrs			4.1 - 5.3
			0 to 9 Days			3.5 - 5.9
Protein, Total (Bld)	g/dL	7/1/2008	18 Years & Up			6.1 - 7.9
			3 to 17 Years			6.4 - 8.2
			1 to 2 Years			5.6 - 7.5
			7 up to 12 Months			5.1 - 7.3
			7 Days to 6 Months			4.4 - 7.6
			0 to 6 Days			4.6 - 7.0
Protein, Ur. 24hr	mg/24 Hr	7/22/2008	0 Days & Up			50 - 100
Sodium	mmol/L	7/1/2008	0 Days & Up			136 - 144
Triglycerides	mg/dL	4/23/2024	18 Years & Up			<150
			10 to 17 Years			<90
			2 to 9 Years			<75
Uric Acid	mg/dL	7/1/2008	18 Years & Up	4.8 - 8.7	2.6 - 8.0	
			16 to 17 Years	4.5 - 9.2	3.5 - 6.4	
			14 to 15 Years	2.9 - 8.4	3.5 - 6.3	
			12 to 13 Years	3.2 - 7.3	3.5 - 6.3	
			1 to 11 Years			2.5 - 5.5
			4 to 11 Months	1.9 - 7.0	1.8 - 6.7	
0 Days to 3 Months	1.8 - 5.6	1.8 - 6.7				
<b>Immunoassay and Special Chemistry</b>						
Beta-2 Microglobulin	mcg/mL	6/1/2019	0 Years & Up			0.80 - 2.34
Beta HCG	mIU/mL	8/28/2007	0 Days & Up	<2.8	Adult Fem. Non-pregnant <3.0	
					Post-Menopausal Fem. <10.4	
					Unspecified Gender: <5.0	
CK-MB	ng/mL	5/10/2014	0 Days & Up			0.6 - 6.3
CMV (IgG and/or IgM, Serum)	Qualitative	Reference Lab	0 Days & Up			Negative
CMV Quant. PCR, Plasma	IU/mL	Reference Lab	0 Days & Up			Undetected
FSH	mIU/mL	9/5/2013	0 Days & Up	1.27 - 19.26	<u>Female</u>	
					Mid-Follicular: 3.85 - 8.78 mIU/mL	
					Mid-cycle Peak: 4.54 - 22.51 mIU/mL	
					Mid-Luteal: 1.79 - 5.12 mIU/mL	
					Post-menopausal: 16.7 - 113.59 mIU/mL	
Hb A1c	%	9/1/2017	0 Years & Up			</=6.0
HCV antibody - HCVAb	S/CO	6/1/2010	0 Years & Up			<0.80 Non-Reactive
Hepatitis B Core Antibody IgM	S/CO	6/1/2010	0 Years & Up			<0.80 Non-Reactive

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Hepatitis B Core Antibody Total	S/CO	6/1/2010	0 Years & Up			<1.00 Non-Reactive
Hepatitis B Surface Antibody	S/CO	6/1/2010	0 Years & Up			<8.00 Non-Reactive
Hepatitis B Surface Antigen	S/CO	6/1/2010	0 Years & Up			<1.00 Non-Reactive
IgA, Serum	mg/dL	6/1/2019	0 Years & Up			84 - 499
IgG, Serum, Total (Peninsula)	mg/dL	6/1/2019	0 Years & Up			610 - 1616
IgG, Subclasses Serum Total	mg/dL	Reference Lab	0-<5 months			100 - 334
			5-<9 months			164 - 588
			9-<15 months			246 - 904
			15-<24 months			313 - 1,170
			2-<4 years			295 - 1,156
			4-<7 years			386 - 1,470
			7-<10 years			462 - 1,682
			10-<13 years			503 - 1,719
			13-<16 years			509 - 1,580
			16-<18 years			487 - 1,327
			≥18 years			767 - 1,590
IgG1, Subclasses Serum	mg/dL	Reference Lab	0-<5 months			56 - 215
			5-<9 months			102 - 369
			9-<15 months			160 - 562
			15-<24 months			209 - 724
			2-<4 years			158 - 721
			4-<7 years			209 - 902
			7-<10 years			253 - 1,019
			10-<13 years			280 - 1,030
			13-<16 years			289 - 934
			16-<18 years			283 - 772
			≥18 years			341 - 894
IgG2, Subclasses Serum	mg/dL	Reference Lab	0-<5 months			≤82
			5-<9 months			≤89
			9-<15 months			24 - 98
			15-<24 months			35 - 105
			2-<4 years			39 - 176
			4-<7 years			44 - 316
			7-<10 years			54 - 435
			10-<13 years			66 - 502
			13-<16 years			82 - 516
			16-<18 years			98 - 486
			≥18 years			171 - 632
IgG3, Subclasses Serum	mg/dL	Reference Lab	0-<5 months			7.6 - 82.3
			5-<9 months			11.9 - 74.0
			9-<15 months			17.3 - 63.7
			15-<24 months			21.9 - 55.0
			2-<4 years			17.0 - 84.7
			4-<7 years			10.8 - 94.9
			7-<10 years			8.5 - 102.6
			10-<13 years			11.5 - 105.3

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			13-<16 years			20.0 - 103.2
			16-<18 years			31.3 - 97.6
			≥18 years			18.4 - 106.0
IgG4, Subclasses Serum	mg/dL	Reference Lab	0-<5 months			≤19.8
			5-<9 months			≤20.8
			9-<15 months			≤22.0
			15-<24 months			≤23.0
			2-<4 years			≤49.1
			4-<7 years			≤81.9
			7-<10 years			1.0 - 108.7
			10-<13 years			1.0 - 121.9
			13-<16 years			≤121.7
			16-<18 years			≤111.0
			≥18 years			2.4 - 121.0
IgM, Serum	mg/dL	6/1/2019	0 Years & Up			35 - 242
PSA	ng/mL	8/14/2012		≤4.000		
T3, Total	ng/dL	8/28/2007	18 Years & Up			87 - 178
			15 to 17 Years	140 - 210	140 - 220	
			11 to 14 Years	140 - 230	140 - 220	
			9 to 10 Years	160 - 210	150 - 240	
			1 Month to 8 Years	70 - 220	90 - 200	
			1 up to 30 Days	60 - 160	60 - 180	
T3, Free	pg/mL	5/19/2012	0 Days & Up			2.5 - 3.9
T4, Free	ng/dL	8/4/2012	18 Years & Up			0.58 - 1.64
			0 Days to 17 Years			0.63 - 1.09
Troponin-I, high sensitivity	ng/L	2/1/2022	0 Days & Up	≤20	≤15	≤18 sex unspec.
TSH	uIU/mL	9/5/2013	≥18 Years			0.450 - 5.330
			15 to 17 years	0.700 - 2.800	0.600 - 3.700	
			11 to 14 Years	0.800 - 3.900	0.700 - 3.400	
			9 to 10 Years	1.000 - 3.700	0.900 - 4.000	
			1 Mo up to 9 Years	0.700 - 5.900	1.000 - 5.700	
			0 up to 1 Months	0.700 - 9.800	1.500 - 6.500	
<b>Hematology - Hemogram</b>						
WBC	x10E3/uL	9/17/2019	9 Years & Up			3.6 - 11.2
			4 to 8 Years			5.5 - 12.5
			1 Months to 3 Years			5.5 - 14.0
			15 Days to 1 Month			5.0 - 15.0
			0 to 14 Days			7.0 - 18.0
RBC	x10E6/uL	9/17/2019	14 Years & Up	4.06 - 5.63	4.10 - 5.30	3.73 - 5.50 sex unspec.
			4 to 13 Years			3.7 - 5.0
			2 Months to 3 Years			3.2 - 4.3
			1 up to 2 Months			2.7 - 4.2

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			15 Days up to 1 Mo			2.8 - 5.2
			7 to 14 Days	3.6 - 6.4	3.3 - 6.4	
			0 to 6 Days	3.7 - 6.4	3.3 - 6.4	
Hemoglobin	g/dL	9/17/2019	14 Years & Up	13.0 - 18.0	12.0 - 16.5	
			9 to 13 Years	11.5 - 14.8	11.5 - 14.0	
			4 to 8 Years	11.5 - 14.8	11.0 - 13.5	
			2 Months to 3 Years			11.0 - 13.5
			1 up to 2 Months			10.5 - 13.0
			15 Days up to 1 Mo.			12.5 - 17.5
			7 to 14 Days			15.0 - 20.0
			0 to 6 Days	17.0 - 22.0	15.0 - 20.0	
Hematocrit	%	12/8/2009	14 Years & Up	39 - 54	36 - 50	
			9 to 13 Years	38 - 48	34 - 42	
			2 Months to 8 Years			33 - 45
			1 to 2 Months			30 - 39
			14 Days up to 1 Mo.	37 - 53	37 - 52	
			7 to 13 Days			45 - 60
			0 to 6 Days	52 - 66	45 - 60	
MCV	fL	9/17/2019	14 Years & Up			80 - 96
			4 to 13 Years			77 - 86
			2 Months to 3 Years			77 - 96
			15 up to 60 Days			85 - 104
			7 to 14 Days			88 - 107
			0 to 6 Days			95 - 108
MCH	pg	7/30/2013	0 Days & Up			26 - 32
MCHC	g/dL	10/1/1983	0 Days & Up			32 - 36
RDW	%	6/15/2016	0 Days & Up			12.3 - 17.0
Platelet Count	x10E3/uL	9/17/2019	0 Days & Up			150 - 400
<b>Hematology - Differential</b>						
Neutrophils	%	7/30/2013	14 Years & Up	41 - 73	40 - 74	
			0 Days to 13 Years			41 - 73
Lymphocytes	%	7/30/2013	14 Years & Up	19 - 45	19 - 51	
			0 Days to 13 Years			19 - 45
Monocytes	%	7/30/2013	0 Days & Up	5 - 12	5 - 11	4 - 12
Eosinophils	%	6/15/2016	0 Days & Up			0.6 - 7.9
Basophils	%	7/30/2013	0 Days & Up			0 - 2
Bands	%	8/11/2011	0 Days & Up			0 - 6
Absolute Neutrophils	x10E3/uL	9/17/2019	7 Days & Up			1.6 - 7.0
			0 Days to 6 Days			1.0 - 18.5
Absolute Lymphocytes	x10E3/uL	9/17/2019	18 Years & Up			0.8 - 4.0

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Absolute Monocytes	x10E3/uL	9/17/2019	18 Years & Up			0.2 - 0.8
Absolute Eosinophils	x10E3/uL	9/17/2019	18 Years & Up			0.0 - 0.5
Absolute Basophils	x10E3/uL	9/17/2019	18 Years & Up			0.0 - 0.2
<b><u>Coagulation</u></b>						
aPTT Screen	seconds	7/29/2014	0 Days & Up			25 - 36
aPTT Therapy	seconds	7/29/2014	0 Days & Up			59 - 97
Prothrombin Time	seconds	7/29/2014	0 Days & Up			9.4 - 12.5
<b><u>INR</u></b>						
Screen	N/A	7/29/2014	0 Days & Up			0.9 - 1.2
Standard Dose	N/A	7/29/2014	0 Days & Up			2.0 - 3.0
High Dose	N/A	7/29/2014	0 Days & Up			2.5 - 3.5
<b><u>Respiratory</u></b>						
<b><u>Arterial Blood Gas</u></b>						
Arterial pH	N/A	11/16/2006	0 Days & Up			7.35 - 7.45
Arterial PaCO2	mm Hg	11/16/2006	0 Days & Up			35 - 45
Arterial PaO2	mm Hg	4/9/2020	0 Days & Up			60 - 100

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<b>Urinalysis</b>						
<u>Urinalysis w/ Microscopic</u>						
Bilirubin (Ur.)	N/A	1/22/2018				Negative
Blood (Ur.)	N/A	1/22/2018				Negative
Glucose (Ur.)	N/A	5/17/2023				Normal
Ketones (Ur.)	N/A	5/17/2023	>6 months			Negative, Trace
			≤6 months			Negative
Leukocyte Est. (Ur.)	N/A	1/22/2018				Negative
Nitrite (Ur.)	N/A	1/22/2018				Negative
pH (Ur.)	N/A	1/22/2018				5.0 - 8.0
Protein (Ur.)	N/A	5/17/2023				Negative, Trace
Specific Gravity (Ur.)	N/A	1/22/2018				1.005 - 1.030
Urobilinogen (Ur.)	N/A	5/17/2023				Normal
Sediment, Erythrocytes	/hpf	1/22/2018				0 - 4
Sediment, Leucocytes	/hpf	1/22/2018				0 - 4
HCG, Urine (UCG)	This is a qualitative (negative/positive) urine pregnancy test. Reference Range = Negative					