

Chemistry Laboratory Reference Range Changes

Beginning October 12, 2021 and continuing through October 26, 2021, BayCare Laboratories will implement new Abbott Alinity Instrumentation in the Chemistry Laboratories.

The effective dates for facilities are as follows:

- October 12, 2021: Mease Countryside Hospital, Mease Dunedin Hospital, Morton Plant Hospital, Bardmoor Emergency Center
- . October 19, 2021: South Florida Baptist, St. Joseph's Hospital, St. Joseph's North, St. Joseph's South
- October 26, 2021: Bartow Regional Medical Center, North Bay Hospital, St. Anthony's Hospital, Winter Haven Hospital

The following orders have significantly changed reference ranges:

Analyte	Previous Reference Range	New Reference Range	Units of Measure
ATG (Anti-Thyroglobulin	0 – 60	0 – 4.11	U/mL
Anti-TPO (Anti Thyroid Peroxidase)	0 – 28	0 - 5.61	U/mL
Lipase	73 – 393	≤60	U/L

Other reference ranges changes:

Analyte	Previous Reference Range	New Reference Range	Units of Measure
ALPHA-FETOPROTEIN	0.0 – 8.0	0.9 – 8.8	ng/mL
ALKALINE PHOSPHATASE	FEMALE: Age: 0 - <15 days: 82 - 249 15 days to <1 years: 122 - 473 1 to <10 years: 142 - 336 10 to <13 years: 128 - 420 13 to <15 years: 56 - 255 15 to <17 years: 49 - 116 17 to 19 years: 43 - 86 >/= 19 years: 45 - 117 MALE: 0 to <15 days: 82 - 249 15 days to <1 years: 122 - 473 1 to <10 years: 122 - 473 1 to <10 years: 128 - 420 13 to <15 years: 15 - 471 15 to <17 years: 81 - 333 17 to <19 years: 53 - 149 >/= 19 years: 45 - 117	FEMALE: Age: 0 - <15 days: 90 - 273 15 days to <1 years: 134 - 518 1 to <10 years: 156 - 369 10 to <13 years: 141 - 460 13 to <15 years: 62 - 280 15 to <17 years: 54 - 128 17 to 19 years: 48 - 95 >/= 19 years: 40 - 150 MALE: 0 to <15 days: 90 - 273 15 days to <1 years: 134 - 518 1 to <10 years: 156 - 369 10 to <13 years: 141 - 460 13 to <15 years: 127 - 517 15 to <17 years: 89 - 365 17 to <19 years: 59 - 164 >/= 19 years: 40 - 150	U/L
ALT	12 – 78	0 – 55	U/L
AMMONIA	11 – 32	18 – 72	μmol/L
AMYLASE	25 – 115	25 – 125	U/L
ASO	51 – 408	0 – 5 Years: 0 – 100 >5 Years: 166 – 250	IntUnit/mL
AST	7 – 37	5 – 34	U/L
BILIRUBIN, DIRECT	0.0 - 0.2	0.0 - 0.5	mg/dL
CA 15-3	1.0 – 35.0	0.0 – 31.3	U/mL
CORTISOL	7am - 9am: 5.3 - 22.5 3pm - 5pm: 3.4 - 16.8	Before 10 a.m.: 3.7 - 19.4 After 5 p.m.: 2.9 - 17.3	µg/dL

Analyte	Previous Reference Range	New Reference Range	Units of Measure
CREATINE KINASE (CK)	Male: 39 - 308 Female: 26 - 192	Male: 30 - 200 Female: 29 - 168	U/L
CRP	<0.30	≤0.50	mg/dL
ESTRADIOL	Normal Menstruating Females: Ovulating, Follicular: 21 - 251 Ovulating, MidCycle: 38 - 649 Ovulating, Luteal: 21 - 312 Adult Females: Untreated Postmenopausal: <28 Treated Postmenopausal: <144 Males: 11 - 44	Normal Menstruating Females: Follicular Phase: 21 - 251 Mid-Cycle Phase; 38 - 649 Luteal Phase: 21 - 312 Postmenopausal Females not on HRT: <10 - 28 Postmenopausal Females on HRT: <10 - 144 Males: 11 - 44	pg/mL
FERRITIN	8 – 388	Males: 21.8 - 274.7 Females: 4.6 - 204.0	ng/mL
FOLATE	3.1 – 17.5	7.0 – 31.4	ng/mL
FSH	Females: Follicular phase: 2.3 - 12.6 Peak: 5.2 - 17.5 Luteal phase: 1.7 - 9.5 Post menopausal Treated: 5.9 - 72.8 Post menopausal Untreated: 12.7 - 132.2 Males: 0.7 - 10.8	Normally Menstruating Females Follicular Phase: 3.0 - 8.1 Mid-Cycle Peak: 2.6 - 16.7 Luteal Phase: 1.4 - 5.5 Post-Menopausal Females: 26.7 - 133.4 Males: 1.0 - 12.0	mIU/mL
GGT	5 - 85	Male: 12 - 64 Female: 9- 36	U/L
HOMOCYSTEINE	3.2 - 10.7	Male: 0 - 16.2 Female: 0 -13.6	μmol/L
PHOSPHORUS, SERUM	2.5 - 4.9	2.3 - 4.7	mg/dL

Analyte	Previous Refere	nce Range	New Reference	e Range	Units of Measure
MYOGLOBIN	Female: Male:	13 - 71 16 - 116	Female: Male:	0 - 154.9 0 - 106.0	ng/mL
PROGESTERONE	Normal Menstruati Follicular phase: Luteal phase: Mid-luteal: Post menopausal:	0.210 - 1.70 2.25 - 24.2 8.76 - 21.6	Normal Menstruati Follicular Phase : Luteal Phase: Postmenopausal Fe < 0.1 - 0.2	< 0.1 - 0.3 1.2 - 15.9	ng/mL
	Pregnant Females: First Trimester: Second Trimester: Third Trimester:	11.4 - 41.0 13.8 - 156	Pregnant Females First Trimester: Second Trimester: Third Trimester:	2.8 - 147.3 22.5 - 95.3	
	Males:	<0.200 - 1.97	Males:	< 0.1 - 0.2	
PROLACTIN	Females: Non-pregnant: Pregnant: Post-menopausal:	2.2 - 30.3 8.1 - 347.6 0.7 - 31.5	Females: Males:	5.18 - 26.53 3.46 - 19.40	ng/mL
	Males:	2.5 - 17.4			
RHEUMATOID FACTOR	<15		<30		U/mL
VITAMIN B12	193 – 986		213 – 816		pg/mL
Please note the C3 and C4 C	omplement now ha	ve sex and age	specific ranges.		
C3 COMPLEMENT	90 – 180		1 to 14 years: (Male 80- 170) (Female 82 -173)		mg/dL
			>14 to 80 years: (Male 82 - 185) (Female 83 - 193)		
C4 COMPLEMENT	10 – 40		1 to 14 years: (Male 14 - 44) (Female 13 -46)		mg/dL
			>14 to 80 years: (Male 15 - 53) (Female 15 - 57)		

Troponin Instrument and Reference Range Changes

Beginning October 12, 2021 and continuing through October 26, 2021, BayCare Laboratories will implement new Abbott Alinity Instrumentation in the Chemistry Laboratories.

The effective dates for facilities are as follows:

- October 12, 2021: MCH, MDH, MPH, Bardmoor EC
- October 19, 2021: SFB, SJH, SJN, SJS
- October 26, 2021: BRMC, NBH, SAH, WHH

As a result of the change of vendor from Siemens (current reference range 0-0.045 ng/mL) to Abbott, there are new reference ranges for Troponin-I for the hospitals below:

Hospital Impacted	New Reference Range
St. Joseph's Main Hospital	0 – 0.028 ng/mL
St. Joseph's South Hospital	(Cutoff for Critical value is 1.000 ng/mL)
Morton Plant Hospital	Performed on the Abbott Architect Analyzer.
Mease Countryside Hospital	
St. Anthony's Hospital	
Morton Plant-North Bay Hospital	
St. Joseph's North Hospital	0 – 0.065 ng/mL
South Florida Baptist Hospital	(Cutoff for Critical value is 1.000 ng/mL)
Mease Dunedin Hospital	Performed on the Abbott iSTAT Analyzer.
Bartow Regional Medical Center	
Bardmoor Emergency Department	

Notes:

- No changes to the reference range of Troponin-T performed at Winter Haven Hospital Laboratory
- No changes to the reference range of POC Troponin performed in ED STAT Laboratories

Customer Service: (800) 324-7853 www.baycare.org/client-services