



New Core Lab Reference Ranges

Test Update

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As part of our commitment to provide the highest quality medical laboratory services, Clinical Labs of Hawaii is updating our core analyzers to Roche Cobas® technology. Comprehensive validation studies were performed, and the reference range for select tests will be modified according to the standard of care and with strict adherence to the College of American Pathologists' guidelines. Please see the updated reference ranges below, effective June 5, 2017.

Statewide implementation of the new instruments will take place in region-specific phases, and the anticipated completion date for all sites is July 15, 2017. In order to ensure clinical accuracy, careful post-hoc reviews will also be conducted, and CLH will update providers with applicable technical communications prior to any modifications.

Please contact our Client Services Department should you have any questions regarding this change.

Thank you for choosing Clinical Labs of Hawaii.

Test Name	Units	Current Reference Range	Updated Reference Range
Amylase	U/L	Male/Female 0-1Mo: 0-6 1Mo-6Mo: 1-17 6Mo-1yr: 6-44 1yr+: 28-100	All ages: 32-143
Lipase	U/L	4-58	18-71
Alk Phos	U/L	18yr+: 34-104	18yr+: 40-118 (Pediatric ranges remain the same)
ALT	U/L	Male: 7-51 Female: 0-31	Male: 12-58 Female: 9-48
AST	U/L	Male: 0-37 Female: 0-31	Male: 14-43 Female: 13-38
GGTP	U/L	Male: 12-72 Female: 10-66	Male: 12-72 Female: 8-67
Albumin	g/dL	4.0-5.1	3.5-5.2
Albumin/ Globulin Ratio		1.2-2.3	1.3-2.7

Test Name	Units	Current Reference Range	Updated Reference Range
Creatinine Enzymatic	mg/dL	<u>Male</u> 0-5D: 0.30-1.00 5D-12yr: 0.20-0.70 12yr+: 0.50-1.20 <u>Female</u> 0-5D: 0.30-1.00 5D-12yr: 0.20-0.70 12yr+: 0.40-1.10	All ages: Male: 0.80-1.40 Female: 0.40-1.10
CK	U/L	Male: 58-200 Female: 24-170	Male: 68-345 Female: 48-240
Prealbumin	mg/dL	<u>Male/Female</u> 0: 7.0-39.0 1M: 8.3-34.0 6M: 2.0-36.0 4yr: 12.0-30.0 6yr: 12.0-42.0 19+yr: 18.0-38.0	All ages: 20.2-50.0
T Uptake*	TBI	23-36%	0.8-1.3 TBI
<p>*T Uptake measures available thyroxine binding sites. The unit of measurement for T Uptake is now thyroxine binding index or TBI (previously %). Together with total T4, T uptake is used to calculate the free thyroxine index (FTI, see below). It should be noted that the clinical utility for FTI and/or T uptake has been largely replaced by direct measurement of free T4 (test code: FT4).</p>			
T4, Thyroxine	ug/dL	<u>Male/Female</u> 0-7D: 8.8-26.0 7D-1Mo: 6.7-12.9 1Mo-3Mo: 5.4-11.2 3Mo+: 5.8-14.1	All ages: 4.5-11.7
FTI**	ug/dL	4.4-16.8	4.8-12.7 (T4/TBI=FTI)
<p>**Free thyroxine index (FTI) estimates the amount of circulating thyroxine. FTI is calculated by the quotient of T4 and thyroxine binding index (TBI, see above). It should be noted that the clinical utility for FTI has been largely replaced by direct measurement of free T4 (test code: FT4).</p>			