

Covenant HealthCare Laboratory

IMPORTANT LAB UPDATE

Effective June 26, 2007

Covenant HealthCare Laboratory Services is converting all tests assayed by Immunochemistry technology to new instrumentation. In addition, Infectious Disease testing for Hepatitis, Rubella and HIV will now be assayed by Immunochemistry.

PSA

Due to the change in methodology, patients should have a new baseline established for this tumor marker. At the reference range there should be minimal bias, however at the high end there may be a positive bias up to 20%.

CEA

Due to the change in methodology, patients should have a new baseline established for this tumor marker.

Troponin I

Risk Stratification range is 0.06 – 0.6 ng/ml.

MI Cutoff is increased to >0.6 ng/ml.

There is undetectable to minimal bias at the MI Cutoff. At extremely high levels, there may be up to a 20% increase in the first result(s) from the new method compared to the last result(s) of the old method. This increase should not be automatically interpreted as a re-infarction.

Unless listed above, all other methods show undetectable to minimal bias between analyzers.

Refer to the following charts for the analytes that are moving to the new instrumentation:

Infectious Analyte	Reference Range	Comments
HBSAg	Non Reactive Reactive	Confirmation by reference lab for reproducible reactive samples
HAV	Non Reactive Reactive Equivocal	
HBCore IgM	Non Reactive Reactive Equivocal	
aHBs	Non Reactive Reactive(protective)	
aHCV*	Non Reactive Reactive Equivocal	Confirmation by RIBA (reference lab) for equivocal and low reactive samples
Rubella IgG	Not Protected May be Protected Protected	
HIV	Non Reactive Reactive	Reactive samples sent to MDCH for confirmation by Western Blot.

Chemistry Analyte	Units	Reference Range	
Cortisol	mcg/dL	AM PM	4.3-22.4 3.1-16.7
Total IgE	IU/mL	<1 year 1-4 years 5-10 years 11-15 years Adults	1-52 0-352 1-393 2-170 <158
Ferritin	ng/mL	Male Female	22-322 10-291
Folate	ng/mL		>5.38
RBC Folate	ng/mL		280-791
Vitamin B12	pg/mL		246-911
BNP	pg/mL		<100
CKMB	ng/mL		0-5.0
Troponin I	ng/mL	Risk Stratification MI Cutoff	0.06-0.6 >0.6
Estradiol	pg/mL	Male Follicular Phase Mid-cycle Luteal Phase Post Menopause	12-41 19-247 36-571 22-256 0-45
FSH	mIU/mL	Female Follicular Female Mid-cycle Luteal Phase Pregnant Post Menopause Male	2.5-10.2 3.4-33.4 1.5-9.1 <1.0 23.0-116.3 1.4-18.1
LH	mIU/mL	Follicular Phase Mid-cycle Peak Luteal Phase Pregnant Post Menopause Contraceptive Male 20-70 yrs Male >70 yrs Children	1.9-12.5 8.7-76.3 0.5-16.9 0-1.5 15.9-54.0 0.7-5.6 1.5-9.3 3.1-34.6 0-6.0
Prolactin	ng/mL	Non-pregnant Pregnant Post Menopause Male	2.8-29.2 9.7-208.5 1.8-20.3 2.1-17.7
CEA	ng/mL		0-5.0
PSA	ng/mL		0-4.0
FT4	ng/dL		0.8-1.8
FT3	pg/mL		2.3-4.2
T3	ng/dL		60-181
T4	mcg/ dL		4.5-10.9
TSH-3	mIU/mL		0.35-5.5

Chemistry Analyte	Units	Reference Range	
TbhCG	mIU/mL	Negative (Males & non-pregnant females)	<5
		Indeterminate	5-10
		Positive	>10
		Gestational Age	Expected hCG
		0.2-1 week	5-50
		1-2 weeks	50-500
		2-3 weeks	100-5,000
		3-4 weeks	500-10,000
		4-5 weeks	1,000-50,000
		5-6 weeks	10,000-100,000
6-8 weeks	15,000-200,000		
2-3 months	10,000-100,000		

Any questions regarding this instrument conversion please contact Julie Quilico, Chemistry Technical Advisor (583-6757), or Dr. Nicholas Hruby, Pathologist (583-6703).

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