

Partner Update



July 2024

Change to Routine Chemistry and Immunoassay Testing Platform (British Columbia).

Audience

All Healthcare providers who order routine Chemistry testing from Dynacare (previously known as Valley Medical Laboratories).

Overview

The Dynacare vision is to be Canada's health and wellness solutions leader. Effective **July 29th, 2024**, Dynacare will be introducing new instrumentation for routine chemistry and immunoassay testing. As part of this implementation, several reference interval changes will also be introduced.

Details

For routine chemistry testing, the instrumentation is changing from the Roche Cobas c701 to the Roche Cobas c503 instrument. For routine immunoassay testing, the instrumentation is changing from the Siemens Centaur chemiluminescence immunoassay to the Roche Cobas e801 electrochemiluminescence immunoassay technology. In addition to these changes, Dynacare will also be bringing Insulin, Sex Hormone Binding Globulin (SHBG) and Bioavailable Testosterone testing in-house on these instruments.

A comprehensive list of all the updated reference intervals that are changing are highlighted and bolded in the Reference Interval document, which can be found at the following link: <u>Reference Intervals – Chemistry</u>, and will be available to view July 29th, 2024. Note, that for some of the tests, a change to the reference interval is not due to a method change, but rather due to standardization with other national Dynacare laboratories and to be consistent with current clinical guidelines. Those tests which have a change in methodology and the impact to results are summarized in Table 1.

Action Required

Refer to the updated Reference Interval document for a list of the updated reference intervals along with the table below for the impact to results due to the change in methodology.

Questions about the Change?

If you have any questions regarding this communication, please contact Customer Care at 250-763-4813.

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TABLE 1: Impact to Results for Tests with a Change to Methodology

Test	Change	Impact to Results
Amphetamine,	The cut-off value has been changed from	Due to the lower cut-off, an increase in the number
Urine	1000 ng/mL to 500 ng/mL	of positive results may occur.
Cocaine, Urine	The cut-off value has been changed from	Due to the lower cut-off, an increase in the number
,	300 ng/mL to 150 ng/mL. The test name	of positive results may occur.
	has also been changed to Cocaine	
	Metabolite to reflect that the method is	
	actually detecting Benzoylecognine, a	
	metabolite of Cocaine.	
AST	Change to pyridoxal phosphate activation	Results are about 10% higher with new method
	method.	
ALT	Change to pyridoxal phosphate activation	Results are about 10% higher with new method
	method.	
HbA1c	Change from BioRad DCA to Roche c503	No impact.
Anti-TPO	Change from Centaur to Roche	Results are about 80% lower with new method
βHCG	Change from Centaur to Roche	Results are about 15% lower with new method
BNP	Change from Centaur to Roche. Test name	Results between 2 methods cannot be compared as
	has been changed to NTproBNP to reflect	they are measuring different analytes. In general,
	what is actually being measured with the	results are 5-10 times higher with new method
	Roche method	
Cortisol	Change from Centaur to Roche	Results are about 25% lower with new method
DHEAS	Change from Centaur to Roche	Results are about 50% higher with new method
eGFR	The CKD-EPI 2021 equation used to	Results will be about 6% higher with new
	calculate eGFR has been endorsed by the	calculation.
	Canadian Society of Nephrology and will	
	replace the CKD-EPI 2009 equation.	
Estradiol	Change from Centaur to Roche	Results are about 10% lower with new method
Ferritin	Change from Centaur to Roche	Results are about 50% higher with new method
Free 13	Change from Centaur to Roche	Results are about 10-15% higher at Free 13 values
		greater than 5 pmol/L and about 5-10% lower at
Euco T4	Change from Contour to Doobe	Free 13 Values lower than 5 pmol/L
Free 14	Change from Centaur to Roche	Results are about 10-20% higher at Free 14 values
FCU	Change from Contour to Docho	greater than 20 pmol/L
FSH	Change from Centaur to Roche	Results are about 5% lower with new method
Ige	Change from Centaur to Roche	Results are about 5% nigher with new method
LH	Change from Centaur to Roche	Results are about 20% higher with new method
Progesterone	Change from Centaur to Roche	Results are about 10% nigher with new method,
		altilough some results are significantly lower due to
Duclostin	Change from Contaur to Decho	Change in specificity of method
	Change from Centaur to Roche	Results are about 50% higher with new method
DTU Intest	Change from Contaur to Roche	Results are about 20% Inglier with new method
	Change from Centaur to Roche	Results are about 50% lower with new method
Testosterone	Change from Centaur to Roche	NO SIGNIFICANT IMPACT TO RESULTS
151	Change from Centaur to Roche	Results are about 15% nigher at ISH Values
Vitamin D12	Change from Contaur to Deche	Predict undit 10 mill/L with the new method
Vitamin D	Change from Contour to Roche	Results are about 15% higher with the new Method
vitamin D	Change from Centaur to Roche.	NO SIGNIFICANT IMPACT TO RESULTS