

# **Laboratory Bulletin**

Date: February 16, 2012

To: Central Zone – Former David Thompson Health Region:

Physicians, Nurses and Laboratories

From: AHS Laboratory Services – Central Zone

Re: Creatinine – Conversion to "IDMS" Standardization and Revised Reference Ranges

## PLEASE POST OR DISTRIBUTE AS WIDELY AS APPROPRIATE

### **Key Messages:**

The following changes for serum/plasma creatinine will be effective as of February 22, 2012 at 10:00 am.

1. The former DTHR sites (excluding Castor, Consort, Coronation, CCMHBI, Drayton Valley, Sylvan Lake and Wetaskiwin) will implement a conversion factor to align creatinine results with the internationally recognized reference method, isotope dilution mass spectrometry (IDMS).

The conversion factor will decrease serum/plasma creatinine values by 15 µmol/L.

The estimated glomerular filtration (eGFR) results will remain more or less equivalent to current values, as the "IDMS" version of the eGFR calculation will be implemented simultaneously.

The excluded sites listed above currently use an IDMS traceable creatinine method and the "IDMS" version of the eGFR calculation.

2. Minor revisions to the reference ranges for serum/plasma creatinine will be implemented for all former DTHR sites. Overall, the revisions reflect the change to "IDMS" creatinine and provide better alignment with other laboratories in Alberta. The revised reference ranges are as follows:

Age (years)	Male (μmol/L)	Female (µmol/L)
0 - < 2	10 – 60	10 – 60
2 - < 6	20 – 60	20 – 60
6 - < 13	30 – 70	30 – 70
13 - < 15	40 – 85	40 – 85
15 - 150	50 – 115	50 – 105

#### Inquiries and feedback may be directed to:

Dr. Allison Venner, 403-406-5633 or allison.venner@albertahealthservices.ca

#### This bulletin has been reviewed and approved by:

Dr. James Wesenberg, AHS Medical / Scientific Director, Laboratory Services - Regional Centres and Rural