

Department of Pathology and Laboratory Medicine Memorandum

To: NSHA, St. Anne's Community Centre and IWK Physicians, Health Service Managers (Inpatient, Outpatient, and Emergency Dept) and laboratories

From: Dr. Bassam Nassar, Physician Co-Chair of the PLM Biochemistry Service Advisory Committee and Dr. Steven D Soroka, Medical Lead, NSHA Pharmacy and Renal Program

Date: May 31, 2016

Message: **Change in reporting of eGFR in all NSHA, St. Anne's Community Centre and IWK Laboratories**

Commencing Monday, June 27, 2016, estimated Glomerular Filtration Rate (eGFR) will be calculated using the Chronic Kidney Disease Epidemiology (CKD-EPI) equation. This improves risk stratification and will allow reporting of adult (≥ 18 yrs) eGFR's up to 90 mL/min/1.73m².

eGFR will automatically be reported on all creatinine assays ordered on outpatients. It will no longer be necessary to request eGFR on the laboratory requisition. eGFR should not be ordered on patients in the emergency department, renal dialysis units and inpatient units.

This decision has been based on the recommendations of the KDIGO 2012 guidelines:

http://www.kdigo.org/clinical_practice_guidelines/pdf/CKD/KDIGO_2012_CKD_GL.pdf

The lab interpretive comment will read as follows:

Lab Interpretive Comment		
<u>Stage of Kidney Disease</u>	<u>eGFR</u>	<u>Description</u>
1	≥ 90	Normal or High
2	60-89	Mildly Decreased
3a	45-59	Mildly to Moderately Decreased
3b	30-44	Moderately to Severely Decreased
4	15-29	Severely Decreased
5	< 15	Kidney Failure

***Multiply the Adult (≥ 18) eGFR results by 1.159 if patient of African descent.**

Caution: eGFR should not be used when serum creatinine is changing rapidly, in pregnancy, for drug dosing, and should be interpreted with caution in extremes of body habitus.

eGFR <60 mL/min/1.73m² and/or ACR ≥ 3 mg/mmol for >3 months are diagnostic criteria for CKD. For more information on Chronic Kidney Disease (CKD) identification, management & referral:

<http://www.nsrp.gov.ns.ca/ckd-prevention-and-early-detection>

If you have further questions about this change, please contact Dr. Manal Elnenaei at 902-473-5194, Dr. Bassam Nassar at 902-473-2225, or Dr Amy Lou at 902-473-1528.