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Memo

To: Providers and Nursing

From: Dr. Bauman, Director of Laboratory Services

Date: June 27th, 2024

Subject: Change in GFR Calculation

On June 27th, 2024, MercyOne Siouxland Medical Center and Dakota Dunes Medical Laboratories will be updating the way the Glomerular filtration rate (GFR) is calculated.

There will be a downtime from 0830 to 0930 for creatinine.

The new normal reference range for the calculation is >90 ml/min/1.73. Other categories are defined in the table below.

GFR categories in CKD

| GFR Category | GFR ml/min/1.73 m ² | Terms |
|--------------|-----------------------------------|----------------------------------|
| G1 | ≥ 90 | Normal or high |
| G2 | 60-89 | Mildly decreased* |
| G3a | 45-59 | Mildly to moderately decreased |
| G3b | 30-44 | Moderately to severely decreased |
| G4 | 15-29 | Severely decreased |
| G5 | < 15 | Kidney failure |

*A GFR of 60-89 mL/min/1.73m² maybe normal in some people (such as the elderly, infants). The previously used equation was the MDRD equation, which included race to determine the GFR. The National Kidney foundation and the American Society, now recommends the CKD-EPI creatinine equation without the race variable in all laboratories in the United States. It does not include race in the calculation on reporting, includes diversity in its development, is immediately available to all laboratories in the United States, and has acceptable performance characteristics and potential consequences that do not disproportionately affect any one group of individuals.

With this new calculation, the GFR will increase for non-African Americans. For African Americans, there will be a decrease in the GFR.

Please feel free to contact the laboratory at (712) 233-5245 or (712) 279-2787 with any questions regarding specimen collection or results. Questions regarding this memo should be directed to Rhonda Oedekoven at (712) 233-5243 or Jim Meyer (712) 279-2037.


Mitchel Bauman, MD, FCAP, Medical Director

6-13-24
Date