



MEMORANDUM #143

TO: UNCHCS Attending Physicians, House staff, Department Heads and Supervisors

FROM: *NKS* Nichole Korpi-Steiner, Ph.D., Director, Point-of-Care Testing
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SUBJECT: Change to Hemoglobin A1c Reference Range

DATE: April 24, 2018

Effective April 30th 2018, the Hemoglobin A1c (A1c) reference range is being changed for A1c testing performed by McLendon Clinical Core Laboratory and Point of Care Testing Program at the UNC Medical Center, Hospital-based clinics and Faculty-based practices.

The new A1c reference ranges are in accordance with the 2018 American Diabetes Association Standards of Medical Care in Diabetes guideline (1). The A1c reference range will be 4.8-5.6% for testing that is FDA-approved for diagnosis of diabetes and performed by the Core Laboratory. The reference range for point of care will be A1c glycemc goals < 7.0% and <7.5% for adults and pediatrics, respectively, as this testing is FDA-approved for monitoring glycemia in persons diagnosed with diabetes. The following charts further describe A1c glycemc ranges that will be appended to A1c results as a comment:

Screening or Diagnosis of Diabetes Mellitus*	
A1c Range	Interpretation
4.8 - 5.6	Normal
5.7 - 6.4	Dysglycemia
> 6.4	Diabetes Mellitus
*Not recommended for diagnosis of diabetes in children with Cystic Fibrosis or with symptoms suggestive of acute onset type 1 diabetes	

Monitoring glycemia in persons with Diabetes Mellitus	
A1c Glycemic Goals**	Age Group
< 7.5 %	< 18 years
< 7 %	≥ 18 years
**Goals should be individualized; more or less stringent A1c glycemc goals may be appropriate for individual patients.	

If you have question please contact Dr. Steve Cotten (984-974-1489) Steven.Cotten@unchealth.unc.edu or Dr. Nichole Korpi-Steiner (984-974-1498) Nichole.Korpi-Steiner@unchealth.unc.edu

(1) American Diabetes Association Standards of Medical Care in Diabetes. *Diabetes Care* 2018; 41(Supplement 1). www.care.diabetesjournals.org