CHANGE OF SERVICE

DATE: January 21, 2010

TO: Housestaff and PCN Physicians, Faculty, and Nursing Personnel

FROM: Sridevi Devaraj, Ph.D., DABCC, FACB
Director of Toxicology and Special Chemistry

RE: Reporting the Estimated Average Glucose with Hemoglobin A1C

Effective February 11, 2010 we will report the calculated Estimated Average Glucose (eAG) along with the Hemoglobin A1c value. The estimated average glucose (eAG) calculation is based on hemoglobin A1c and glucose results from the A1c-Derived Average Glucose (ADAG) Study Group.\(^1\) The formula is $eAG = (Hgb\ A1c \times 28.7) - 46.7$. The eAG study has not been validated in children or pregnant women. Also, eAG values are not valid for patients with hemoglobinopathies, anemia, and altered erythrocyte turnover as evidenced by blood loss, transfusions, chronic renal or liver disease, or for patients on high-dose vitamin C or erythropoietin treatments.


Sample Requirement:
- One 5 mL EDTA vacutainer tube
- One 0.5 mL EDTA microtainer for pediatric patients

Routine Testing:
- M-F day and evening shifts

Reference Intervals:
- Hgb A1c: 3.9 – 5.9%
- eAG: no interval; see calculation

If you have any questions, please contact Dr. Sridevi Devaraj 916-734-6594 or Teri Cook 916-734-0283.

APPROVED BY:

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