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**Lab Dept:** Chemistry

**Test Name:** HEMOGLOBIN A1C

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***General Information***

**Lab Order Codes:** HA1C

**Synonyms:** Glycated Hemoglobin, Glyco-Hgb; Hgb A1c

**CPT Codes:** 83036 – Hemoglobin; glycated

**Test Includes:** Hemoglobin A1c concentration reported as a % of total hemoglobin.

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***Logistics***

**Test Indications:** The measurement of hemoglobin A1c concentration is recommended for monitoring the long-term care of diabetes. The level of Hgb A1c is proportional to the level of glucose in the blood over a period of approximately 2 months.

**Lab Testing Sections:** Chemistry

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 2 hours, test performed daily

**Special Instructions:** N/A

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***Specimen***

**Specimen Type:** Whole blood

**Container:** Lavender top (EDTA) tube or Vendor supplied capillary holder

**Draw Volume:** 0.5 mL blood in EDTA tube or 0.035 mL blood in capillary tube

**Processed Volume:** 0.001 mL blood

**Collection:** Routine venipuncture **preferred**

Alternate sample: capillary puncture

<b>Special Processing:</b>	Lab Staff: <b>Do not</b> centrifuge. Specimen should remain in original collection tube.  EDTA preserved whole blood may be stored at -70 degrees C to 5 degrees C for two weeks, or up to 25 degrees C for one week. Do not refreeze previously frozen samples.
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Clotted specimen; mislabeled or unlabeled specimen; total Hgb <7 or >24 g/dL

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### ***Interpretive***

<b>Reference Range:</b>	All ages: 4.2 – 6.3% HbA1c Controlled diabetics: 6 – 9% HbA1c Poorly controlled diabetics: Can be as much as 20% HbA1c or higher
<b>Critical Values:</b>	N/A
<b>Limitations:</b>	The patient's total hemoglobin must be within the range of 7-24 g/dL for testing by this method.
<b>Methodology:</b>	Monoclonal Antibody
<b>Contraindications:</b>	Patients with >10% Hgb F will have lower than expected Hgb A1c results.
<b>References:</b>	DCA Systems Hemoglobin A1c Reagent Kit, pkg insert, revised May 2007  DCA Vantage Analyzer, Operating Manual, revised May 2007
<b>Updates:</b>	9/4/2018: Testing now offered daily with TAT 2 hours, previously not performed on weekends.