

## Analysis of the Accuracy and Precision of the Axis-Shield Afinion Hemoglobin A1c Measurement Device

Randie R. Little, Ph.D.

### Abstract

Point-of-care (POC) hemoglobin A1c measurement is now used by many physicians to make more timely decisions on therapy changes. A few studies have highlighted the drawbacks of some POC methods, e.g., poor precision and lot-to-lot variability. Evaluating performance in the clinical setting is difficult because there is minimal proficiency testing data on POC methods. In this issue of *Journal of Diabetes Science and Technology*, Wood and colleagues describe their experience with the Afinion method in a pediatric clinic network, comparing these results to another POC method as well as to a laboratory high-performance liquid chromatography method. Although they conclude that the Afinion exhibits adequate performance, they do not evaluate lot-to-lot variability. As with laboratory methods, potential assay interferences must also be considered.

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**Author Affiliation:** <sup>1</sup>Department of Pathology & Anatomical Sciences, Columbia, Missouri; and <sup>2</sup>Department of Child Health, University of Missouri-Columbia School of Medicine, Columbia, Missouri

**Abbreviations:** (ADA) American Diabetes Association, (CAP) College of American Pathologists, (HbA1c) hemoglobin A1c, (HPLC) High-performance liquid chromatography, (NGSP) National Glycohemoglobin Standardization Program, (POC) point-of-care, (PT) proficiency testing

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**Corresponding Author:** Randie R. Little, Ph.D., Departments of Pathology & Anatomical Sciences and Child Health, Diabetes Diagnostic Laboratory M767, University of Missouri-Columbia School of Medicine, One Hospital Drive, Columbia, MO 65212; email address [little@health.missouri.edu](mailto:little@health.missouri.edu)