

## Letter to the Editor

### AccucheckInform II: About Its Accuracy and Precision

Beuy Joob<sup>1</sup>, Viroj Wiwanitkit<sup>2</sup>

1. Sanitation Medical Academic Center, Bangkok, Thailand

2. Faculty of Medicine, University of Nis, Nis, Serbia

#### Dear Editor-in-Chief

To introduce the most easy to perform blood glucose investigation can help management of diabetes mellitus. The point of care testing (POCT) technology is widely used and there are many new introduced techniques (1). The AccuCheck Inform II is a new technique with use of a mutated glucose dehydrogenase that has no problem of cross-reaction to maltose (2). The previous report showed that this new tool is acceptable for clinical use. Here, the authors perform a study on the accuracy and precision of the AccuCheck Inform II comparing to Lab Cobas6000, a standard clinical chemistry analyzer (N = 2- for both accuracy and precision study). Focusing on our results, all samples pass the evaluation criteria (accuracy more than 90% and imprecision less than 10%). It can be seen that the results support the previous report by Dietzen *et al.*(2). Nevertheless, there are still more concerns for further evaluation. First, the cost effectiveness of the new tech-

nique comparing to the classical tool has to be studied. Second, although the new technique has decreased problem of laboratory interference, there is still a report on the concerned interference from icodextrin metabolites (3).

#### References

1. Al-Ansary L, Farmer A, Hirst J, Roberts N, Glasziou P, Perera R, *et al.* Point-of-care testing for Hb A1c in the management of diabetes: a systematic review and metaanalysis. *ClinChem* 2011;57(4):568-76.
2. Dietzen DJ, Wilhite TR, Rasmussen M, Sheffield M. Point-of-Care Glucose Analysis in Neonates Using Modified Quinoprotein Glucose Dehydrogenase. *Diabetes Technol Ther* 2013 Aug 9. [Epub ahead of print]
3. Perera NJ, Stewart PM, Williams PF, Chua EL, Yue DK, Twigg SM. The danger of using inappropriate point-of-care glucose meters in patients on icodextrin dialysis. *Diabet Med* 2011;28(10):1272-6.

---

Received: 15 September 2013

Accepted: 18 October 2013

Address Communications to: Dr. BeuyJoob, Sanitation 1 Medical Academic Center, Bangkok Thailand

Email: beuyjoob@hotmail.com