

Analysis of the Nova Stat Strip® Glucose Meter for Real-Time Blood Glucose Determinations During Glucose Clamp Studies: “Don’t Swap Horses in Midstream”

Lutz Heinemann, Ph.D.

Abstract

Proper performance of glucose clamps is critically dependent on reliable blood glucose (BG) measurements. A number of requirements have to be fulfilled by a system that aims to replace the laboratory devices that are currently in use. Many more aspects need to be taken into account besides the accuracy of BG measurement. It might very well be that the BG meter studied by Rabiee and colleagues in this issue of *Journal of Diabetes Science and Technology* fulfills most or all of such requirements; however, these aspects have to be tested more thoroughly before one switches from an established measurement method to the Nova Stat Strip® glucometer.

J Diabetes Sci Technol 2010;4(5):1202-1204

Author Affiliation: Profil Institute for Clinical Research, San Diego, California; and Profil Institut für Stoffwechselforschung GmbH, Neuss, Germany

Abbreviation: (BG) blood glucose

Keywords: glucose clamp, glucose clamp quality, gold standard, reliability, validity

Corresponding Author: Prof. Dr. rer. nat. Lutz Heinemann, Profil Institut für Stoffwechselforschung, GmbH, Hellersbergstr. 9, D-41460 Neuss, Germany; email address lutz.heinemann@profil-research.de