

An Analysis of How to Measure Glucose during Glucose Clamps: Are Glucose Meters Ready for Research?

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Abstract

This article provides a perspective on the challenges of appropriate glucose measurement in the context of glucose clamp experiments. In a first step, the core outcome parameters of a clamp experiment, the blood glucose target level, and the glucose infusion rate will be identified. The relation of these core parameters to glucose measurement are discussed. From there, the core quality parameters of glucose measurement within a clinical research setting are identified and assessed in light of their practical implications, with a specific consideration of the work presented by Cohen *et al.* in this issue of the *Journal of Diabetes Science and Technology*.

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Abbreviations: (FSM) Freestyle Mini™, (QC) quality control

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