

Accepted Manuscript

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Fahim Abbasi, Abraham Silvers, John Viren, Gerald M. Reaven

PII: S0168-8227(17)30914-2
DOI: <https://doi.org/10.1016/j.diabres.2017.11.021>
Reference: DIAB 7141

To appear in: *Diabetes Research and Clinical Practice*

Received Date: 10 July 2017
Revised Date: 8 November 2017
Accepted Date: 16 November 2017

Please cite this article as: F. Abbasi, A. Silvers, J. Viren, G.M. Reaven, Relationship between Several Surrogate Estimates of Insulin Resistance and a Direct Measure of Insulin-Mediated Glucose Disposal: Comparison of Fasting versus Post-Glucose Load Measurements, *Diabetes Research and Clinical Practice* (2017), doi: <https://doi.org/10.1016/j.diabres.2017.11.021>

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Relationship between Several Surrogate Estimates of Insulin Resistance and a Direct Measure of Insulin-Mediated Glucose Disposal: Comparison of Fasting versus Post-Glucose Load Measurements

Running title: Surrogate estimates of insulin resistance

Fahim Abbasi, MD ^{*}, Abraham Silvers, PhD [†], John Viren, PhD [‡], Gerald M. Reaven, MD ^{*}

^{*} Division of Cardiovascular Medicine, Department of Medicine, Stanford University School of Medicine, Stanford, California, USA

[†] San Mateo, California, USA

[‡] Winston-Salem, North Carolina, USA

Highlights

- Direct measurement of insulin resistance is impractical at population and individual subject level.
- Surrogate estimates based on oral glucose tolerance test generally have higher diagnostic accuracies for identifying insulin resistant subjects than those based on fasting measurements.
- McAuley index, based on fasting triglyceride and insulin values, identifies insulin resistant individuals with a similar diagnostic accuracy as post-oral glucose challenge measures.

Corresponding author: Fahim Abbasi, MD
Falk Cardiovascular Research Center,
300 Pasteur Drive, Stanford, CA 94305-5406
Telephone: (650) 724-0954
Fax: (650) 725-1599

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