Accepted Manuscript

Dietary Models of Insulin Resistance

James Deer, Juraj Koska, Marlies Ozias, Peter Reaven

PII: S0026-0495(14)00261-3
DOI: doi: 10.1016/j.metabol.2014.08.013
Reference: YMETA 53083

To appear in: *Metabolism*

Received date: 12 May 2014
Revised date: 20 July 2014
Accepted date: 29 August 2014

Please cite this article as: Deer James, Koska Juraj, Ozias Marlies, Reaven Peter, Dietary Models of Insulin Resistance, *Metabolism* (2014), doi: 10.1016/j.metabol.2014.08.013

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Dietary Models of Insulin Resistance

James Deer, M.D.[a], Juraj Koska, M.D., Ph.D[a]., Marlies Ozias, Ph.D.[a], Peter Reaven, M.D[a].

[a] Phoenix VA Health Care System, Department of Endocrinology, 650 E Indian School Road Mail Code 111E, Phoenix, AZ 85012-1892

Abstract: Insulin resistance is a significant factor in the development of type 2 diabetes mellitus, however the connection between the Western diet and the development of insulin resistance has not been fully explained. Dietary macronutrient composition has been examined in a number of articles, and diets enriched in saturated fatty acids, and possibly in fructose, appear to be most consistently associated with the development of insulin resistance. However, mechanistic insights into the metabolic effects of such diets are lacking, and merit further study.

Keywords: insulin resistance, dietary composition, carbohydrate, fat

Abbreviations: interleukin-6, IL-6; interleukin-1β, IL-1β; tumor necrosis factor α, TNF-α; toll-like receptor, TLR; nuclear factor κB, NF-κB; homeostatic model assessment, HOMA; saturated fatty acids, SFA; polyunsaturated fatty acids, PUFA; monounsaturated fatty acids, MUFA; area under the curve, AUC.

Disclosures: None

Abstract word count: 82

Text word count (including abbreviation list): 3686

Tables: 3 Figures: 0

References: 47

Download English Version:

https://daneshyari.com/en/article/5903384

Download Persian Version:

https://daneshyari.com/article/5903384

Daneshyari.com