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Organ-Specific Insulin Resistance in Patients with Noninsulin-Dependent Diabetes Mellitus and Hypertension

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Abnormal heart and skeletal muscle glucose metabolism in diabetes or essential hypertension has been demonstrated. However, the role of hypertension in heart and skeletal muscle glucose utilization in diabetes has not been clarified yet. **Methods:** We compared heart and skeletal muscle glucose utilization using PET and the whole-body glucose disposal rate (GDR) during insulin clamping in 9 patients with noninsulin-dependent diabetes mellitus (NIDDM) and essential hypertension and 11 patients with NIDDM without hypertension to examine the effect of hypertension on heart and skeletal muscle glucose utilization. Results also were compared with those for 8 asymptomatic healthy control participants. **Results:** Skeletal muscle glucose utilization rate was comparable between hypertensive NIDDM patients ($61.2 \pm 55.5 \mu\text{mol} \cdot \text{min}^{-1} \cdot \text{kg}^{-1}$) and normotensive NIDDM patients ($50.9 \pm 25.2 \mu\text{mol} \cdot \text{min}^{-1} \cdot \text{kg}^{-1}$) but was significantly reduced in both groups compared with control subjects ($94.2 \pm 57.3 \mu\text{mol} \cdot \text{min}^{-1} \cdot \text{kg}^{-1}$), as was the GDR (25.2 ± 11.3 and $24.0 \pm 7.5 \mu\text{mol} \cdot \text{min}^{-1} \cdot \text{kg}^{-1}$), respectively, for patients compared with $38.5 \pm 11.5 \mu\text{mol} \cdot \text{min}^{-1} \cdot \text{kg}^{-1}$ for control participants). However, the myocardial glucose utilization (MGU) rate was significantly reduced in NIDDM patients without hypertension ($389 \pm 185 \mu\text{mol} \cdot \text{min}^{-1} \cdot \text{kg}^{-1}$) than in those with hypertension ($516 \pm 86.4 \mu\text{mol} \cdot \text{min}^{-1} \cdot \text{kg}^{-1}$, $p < 0.01$). Multivariate stepwise regression analysis has shown that MGU was significantly corre-

lated with systolic blood pressure and plasma free fatty acid concentration. **Conclusion:** Whole-body insulin resistance was observed in NIDDM patients independent of hypertension. The MGU rate may have different properties to oppose insulin resistance than glucose utilization of skeletal muscle in hypertensive patients with NIDDM.

Key Words: glucose metabolism; insulin resistance; diabetes mellitus; hypertension; PET; fluorodeoxyglucose

J Nucl Med 1998; 39:884-889

A recent investigation has revealed that reactivity to insulin between heart and skeletal muscle varies among several diseases, some of which usually are thought to be associated with insulin resistance (*1*). Furthermore, it has been suggested that glucose utilization may vary between heart and skeletal muscle according to the specific disorder (*1-3*). For example, there is increased myocardial glucose utilization (MGU) but reduced skeletal muscle glucose utilization (SMGU) in patients with mild hypertension (*1*). Reduced glucose utilization in the heart but preserved skeletal muscle (*2*) also have been reported. These observations strongly suggest that the kinetics of cardiac muscle glucose utilization may be different from that of SMGU in patients with insulin resistance.

Received Mar. 11, 1997; revision accepted Aug. 5, 1997.

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Noninsulin Dependent Diabetes A Management Guide For Patients

**Wilbert S. Aronow, Jerome L.
Fleg, Michael W. Rich**



Noninsulin Dependent Diabetes A Management Guide For Patients:

Noninsulin-Dependent Diabetes DIANE Publishing Company, Sarvepalli Radhakrishnan, 1992-06-01 A management guide for people with noninsulin dependent diabetes Includes chapters about symptoms and diagnosis of diabetes diabetes management including diet oral drugs and insulin glucose monitoring complications and special situations and coping with diabetes A list of resources is included **Diabetes Management** Jo Gullledge, Shawn Beard, 1999 Health Professions

The Development and Management of Ambulatory Care Programs , 1989 A Practical Guide to Care of Spinal Cord Injuries Hyun-Yoon Ko, 2023-09-29 This book structured as a collection of questions and answers commonly encountered in the care of individuals with spinal cord injuries aims to facilitate easy access to clinical and practical information for those involved in their treatment The author known for their expertise in spinal cord injuries has developed this book to offer concise knowledge specifically tailored for clinicians and related healthcare professionals engaged in the care of spinal cord injuries Unlike his previous works this book goes beyond the traditional format and incorporates more concise and clinically oriented questions and answers Drawing from the author s practical experience and his role in training resident physicians in spinal cord medicine at the University Hospital the content of this book addresses practical and clinical considerations To enhance clinical understanding the book extensively employs figures and tables throughout its comprehensive coverage of various aspects of spinal cord medicine The author aspires for this book to serve as a valuable clinical companion providing supplemental practical guidance for daily practice in the field of spinal cord injuries National Library of Medicine Audiovisuals Catalog National Library of Medicine (U.S.), *Diabetes Dateline* , 1988 **Joslin's Diabetes Mellitus** Elliott Proctor Joslin, C. Ronald Kahn, 2005 The bible on diabetes mellitus is now in its Fourteenth Edition thoroughly revised and updated by more than 80 noted experts from the Joslin Diabetes Center and other leading institutions worldwide This edition includes a new eleven chapter section on hormone action and the regulation of metabolism The section on definition and pathogenesis now includes chapters on genetics diabetes in Asia and Africa and diabetes in U S minority groups Other new chapters cover retinopathy cardiovascular disease wound healing and treatment of women with diabetes All of the Fourteenth Edition s figures have been completely updated **Diabetes Management in Hospitalized Patients** Rifka C. Schulman-Rosenbaum, 2024-01-18 As the diabetes epidemic continues to burden the healthcare system and with the literature supporting enhanced patient outcomes with improved glycemic control the need for expertise in the clinical management of inpatient diabetes is an increasingly important and timely matter While some books have been published on inpatient diabetes this guide serves as a comprehensive but clinically relevant review of the available literature and recommended management for the key areas surrounding hospital diabetes management This book is designed to provide practical guidance on diabetes management for hospitalized patients The number of topics covered is meant to be comprehensive and include discussion on many potential scenarios encountered on the inpatient service but in a concise and

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