

Impact of Obesity on Neuropathic Late Complications in NIDDM

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OBJECTIVE — This cross-sectional study was aimed to investigate the isolated influence of obesity on peripheral sensorimotor and autonomic neuropathy in patients with long-term non-insulin-dependent diabetes mellitus (NIDDM).

RESEARCH DESIGN AND METHODS — Ninety-one long-term NIDDM patients with a mean duration of 13.6 ± 1.0 years and a mean age of 60.4 ± 1.0 years were divided into two groups according to their body mass index (BMI) (lean with a BMI <26.5 ; $n = 41$, age = 58.6 ± 1.7 years, BMI = 23.7 ± 0.3 kg/m²; and obese with a BMI ≥ 26.5 ; $n = 50$, age = 61.9 ± 1.2 years, BMI = 30.5 ± 0.5 kg/m²). The two groups were not different in age, duration, gender, current parameters of glycemic control, number of smokers, cholesterol, triglycerides, and systolic and diastolic blood pressure. Neuropathic late complications were scrutinized by a standardized clinical examination that delivers a neuropathy score, pupillary autonomic neuropathy assessed by pupillometry, and cardiovascular autonomic neuropathy using a standardized test battery.

RESULTS — One-way analysis of variance revealed that obese patients had poor results in the clinical neuropathy test (overall score in obese vs. lean: 71.1 ± 2.9 vs. 80.6 ± 3.0 points, $2P = 0.0266$; 100 points were absolutely normal). This was particularly true for the discrimination perception (obese vs. lean: 67.0 ± 4.0 vs. 81.7 ± 3.3 points, $2P = 0.0073$) and the reflex status (obese vs. lean: 57.4 ± 4.0 vs. 71.8 ± 4.3 points, $2P = 0.0164$). Furthermore, obese patients had a poor result in the respiratory sinus arrhythmia (RSA) test, one of six autonomic function tests (RSA: obese vs. lean in average RSA percentile: 36.9 ± 4.9 vs. $54.0 \pm 5.9\%$, $2P = 0.0264$).

CONCLUSIONS — Obesity influences sensorimotor and autonomic neuropathic late complications. The poor result in RSA in obesity may indicate an interrelation between pathogenesis of obesity and disorders of the respiratory and heart rhythm-generating control centers in the brain stem. Moreover, it could be due to intrathoracic fat deposits that alter lung mobility. Body mass control may be an important approach to reduce neuropathic complications. Beyond that, it seems necessary to control for body mass when comparing neuropathy in two groups of patients with NIDDM.

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NIDDM, non-insulin-dependent diabetes mellitus; BMI, body mass index; SBP, systolic blood pressure; DBP, diastolic blood pressure; pOVD, peripheral occlusive vascular disease; CHD, coronary heart disease; RSA, respiratory sinus arrhythmia.

Obesity complicates diabetes management, especially in patients with non-insulin-dependent diabetes mellitus (NIDDM) (1). Glycemic control, daily oral antidiabetic medications, and insulin needs are affected by the increased insulin resistance in obese diabetic patients (2,3). In nondiabetic subjects, numerous health risks, including hypertension, respiratory disease, several orthopedic disorders, and elevated serum lipid concentrations, have been associated with being overweight (4). Obesity is associated with increased long-term mortality among men and reduced functional status among elderly women (5). Furthermore, obesity has important social and economic consequences (6). In diabetes, obesity is associated independently with major Q-wave ECG abnormalities, macrovascular disease (7), and foot lesions (8). The recommendations given to diabetic patients to avoid neuropathy are the following: maintain good blood glucose control, blood pressure control, serum lipid control, and body mass control. Whether body mass contributes to the development of neuropathy in an independent fashion is not clear. Important studies that address epidemiological correlates of neuropathy do not mention body mass index (BMI) as a control variable (e.g., 9). Matching age, gender, duration of diabetes, and current blood glucose control (HbA_{1c}) are necessary prerequisites of controlled and randomized studies that address cross-sectional or longitudinal diabetic neuropathy. Hence, it was the aim of the present cross-sectional study to shed some light on the question as to whether obesity is independently contributing to sensorimotor and autonomic neuropathic complications in NIDDM.

RESEARCH DESIGN AND METHODS

The original study population consisted of 162 diabetic patients (47 insulin-dependent diabetes mellitus and 115 NIDDM patients). Ninety-one long-term NIDDM patients

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Kenji Shima



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Obesity and NIDDM Kenji Shima, 1999 Hardbound Non insulin dependent diabetes mellitus NIDDM is a metabolic disorder characterized by abnormal glucose metabolism Currently there is no investigative study that is possible in humans However animal models do provide an opportunity to study this problem This book presents a current comprehensive review of what is known about the Otsuka Long Evans Tokushima Fatty OLETF rat a recently discovered excellent animal model for human NIDDM It provides valuable opportunities to study diabetes mellitus and gives us precious clues to grasp the nature of diabetes mellitus in humans To fulfill this purpose a model animal should bear a close resemblance to humans in respect to the nature of the disease The OLETF rat a genetic model of spontaneous development of NIDDM exhibits hyperglycemic obesity with hyperinsulinemia and insulin resistance similar to those in humans Implementing preventive measure is difficult in humans but th

The Genetics of Obesity Claude Bouchard, 1994-03-28 This book provides a comprehensive compilation of the evidence available regarding the role of genetic differences in the etiology of human obesities and their health and metabolic implications It also identifies the most promising research areas methods and strategies for use in future efforts to understand the genetic basis of obesities and their consequences on human health Leading researchers in their respective fields present contributed chapters on such topics as etiology and the prevalence of obesities nongenetic determinants of obesity and fat topography and animal models and molecular biological technology used to delineate the genetic basis of human obesities A major portion of the book is devoted to human genetic research and clinical observations encompassing adoption studies twin studies family studies single gene effects temporal trends and etiology heterogeneity energy intake and food preference energy expenditure and susceptibility to metabolic derangements in the obese state Future directions of research in the field are covered in the book as well *Obesity and Diabetes* Anthony H.

Barnett, Sudhesh Kumar, 2005-04-08 Obesity has become the most common chronic disease of the present day with significant increases in prevalence in populations across the world and all age groups This has resulted in a dramatic increase in obesity related metabolic and cardiovascular complications making it an important public health issue Type 2 diabetes associated with obesity or diabetes is today the most common form of type 2 diabetes It is also associated with a number of other cardiovascular risk factors which constitute the metabolic syndrome Effective management of diabetes is crucial to the reduction of morbidity and premature mortality due to cardiovascular disease This book comprises chapters written by leading international experts on various aspects of obesity related diabetes As a practical reference guide it is suitable for all professionals with an interest in this field Emerging problems such as childhood diabetes and the impact of obesity on polycystic ovary syndrome will be of interest not only to paediatricians and endocrinologists but also to general practitioners and other healthcare professionals The contemporary approach to the clinical assessment of obesity and its management in both primary and secondary care settings is also described

Biocomputing 2008 - Proceedings Of The Pacific

Symposium Russ B Altman, A Keith Dunker, Lawrence Hunter, Tiffany A Jung, Teri E Klein, 2007-12-17 The Pacific Symposium on Biocomputing PSB 2008 is an international multidisciplinary conference for the presentation and discussion of current research in the theory and application of computational methods in problems of biological significance. Presentations are rigorously peer reviewed and are published in an archival proceedings volume. PSB 2008 will be held on January 4-8, 2008 at the Fairmont Orchid, Big Island of Hawaii. Tutorials will be offered prior to the start of the conference. PSB 2008 will bring together top researchers from the US, the Asian Pacific nations, and around the world to exchange research results and address open issues in all aspects of computational biology. It is a forum for the presentation of work in databases, algorithms, interfaces, visualization, modeling, and other computational methods as applied to biological problems, with emphasis on applications in data-rich areas of molecular biology. The PSB has been designed to be responsive to the need for critical mass in sub-disciplines within biocomputing. For that reason, it is the only meeting whose sessions are defined dynamically each year in response to specific proposals. PSB sessions are organized by leaders of research in biocomputing's hot topics. In this way, the meeting provides an early forum for serious examination of emerging methods and approaches in this rapidly changing field.

Diabetes in America Ronald Aubert, 1996-07. Five general areas are addressed in the 36 chapters: descriptive epidemiology of diabetes in the U.S. including prevalence, incidence, sociodemographic, medical care for diabetes, economic aspects including health insurance, diabetes in special populations including Blacks, Hispanics, Asian Pacific Islanders, Native Americans, pregnant women. Index.

Diabetes in America, 1995. Pacific Symposium on Biocomputing, 2008.

Obesity and Type 2 Diabetes Mellitus John P. Sheehan, Margaret M. Ulchaker, 2010-08-01. With the advent of the worldwide obesity epidemic, a concurrent rise has occurred in the prevalence of type 2 diabetes mellitus and metabolic syndrome. Type 2 diabetes mellitus is affecting younger individuals; the disease is no longer exclusive to adulthood. Diabetic micro and macrovascular complications are also occurring at an earlier age, leading to increasing demands and costs on the healthcare system. In addition, the morbidity, disability, and premature death caused by diabetic complications create a huge burden to families, employers, and society at large. Thankfully, there has been a tremendous growth in new therapeutic classes of medications to help manage type 2 diabetes mellitus. These agents target many of the pathophysiologic defects of the disease with fewer side effects than the older agents. Newer insulin formulations have more predictable kinetics so patients can achieve better glycemic control with less risk of hypoglycemia and weight gain. Insulin delivery devices have also improved to include higher quality insulin pens, finer and shorter pen needles, and more technologically advanced insulin pumps. As part of the Oxford American Endocrinology Library series, this handbook reviews the epidemiology and pathophysiology of obesity and type 2 diabetes mellitus. The content covers micro and macrovascular diabetic complications, the array of glucose-regulating therapies, treatment algorithms targeting the pathophysiologic defects of type 2 diabetes mellitus, as well as strategies for macrovascular risk reduction via therapeutic lifestyle change: diet, exercise, smoking.

cessation pharmacotherapeutic treatment of dyslipidemia and hypertension bariatric surgery and subcutaneous insulin infusion therapy among other topics Because of the concise yet comprehensive nature of the handbook this volume is an excellent point of care reference for the clinician who regularly treats obese and diabetic patients *Obesitas & Diabetes* A. H. Barnett, S. Kumar, 2007-09 *Ellenberg and Rifkin's Diabetes Mellitus* Max Ellenberg, Harold Rifkin, Daniel Porte (Jr.), 1990 In this fourth edition the chapters have been generally rewritten The book is divided into two major sections basic physiology of metabolism and pathophysiology of diabetes and its complications and clinical diagnosis epidemiology and treatment of diabetes and its complications All chapters provide an up to date review of the topic by an international group of recognized authorities **Endocrinology and Metabolism** Philip Felig, 1987 Written by leading clinicians with greater emphasis on clinical practice rather than basic science *Health and Ethnicity* Helen Macbeth, Prakash Shetty, 2000-11-23 It is becoming increasingly apparent that certain diseases occur at higher frequencies in different ethnic groups e.g. Afro Caribbeans and sickle cell anaemia The causes for such differences are only just being investigated and the factors involved are clearly both genetic and non genetic The biological complexity lies in the interaction of genetic variation and lifestyle differences Cultural differences range from diet to traditional remedies from religious beliefs to marriage patterns and much more This multidisciplinary volume discusses these factors with contributions from geneticists medics anthropologists epidemiologists and social scientists Anyone considering variation in health experience due to ethnic factors would be enriched by reading the different perspectives presented in this volume *Annual Review of Anthropology*, 1994-10 Annual compilation of critical articles from all areas of the discipline of anthropology **The Effects of a Tepary Bean Diet and Exercise on Serum Glucose, Insulin, Cholesterol, and Triglyceride Concentrations in the Fatty Zucker Rat** Pamela Elizabeth Burch, 1992 *Diabetes Mellitus* Shigeaki Baba, Michael K. Gould, Paul Zimmet, 1984 **The Relationship of Obesity and Body Fat Distribution to Non- Insulin Dependent Diabetes Mellitus in a Navajo Community** Teri-Christine Ruan Hall, 1990 **Clinico-genetic Genesis of Diabetes Mellitus** Toshio Gotō, Gorō Mimura, 1982 **Clinical Research in Diabetes and Obesity, Volume 2** Boris Draznin, Robert Rizza, 2013-03-09 An unprecedented compilation of state of the art advances in clinical research by premier clinical scientists around the world This volume discusses the methods of clinical research and the interpretation of their results in studies of normal individuals obese subjects and patients with diabetes mellitus Along the way the authoritative contributors writing here illuminate how changes in the hormone action and substrate metabolism of healthy humans may lead to obesity and noninsulin dependent diabetes mellitus **American Journal of Physical Anthropology** Wistar Institute of Anatomy and Biology, American Association of Physical Anthropologists, 1989 **Diabetes Care**, 1994

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