1. Record Nr. UNINA9910820587303321

Titolo Nutritional and therapeutic interventions for diabetes and metabolic

syndrome / / edited by Debasis Bagchi, Nair Sreejayan

Pubbl/distr/stampa Amsterdam, : Academic Press, 2012

ISBN 1-283-43410-5

9786613434104 0-12-385084-3

Edizione [1st ed.]

Descrizione fisica 1 online resource (553 p.)

Altri autori (Persone) BagchiDebasis

SreejayanNair

Disciplina 616.398

616.4620654

Soggetti Diabetes - Nutritional aspects

Diabetes - Treatment

Metabolic syndrome - Nutritional aspects

Metabolic syndrome - Treatment

Lingua di pubblicazione Inglese

Formato Materiale a stampa

Livello bibliografico Monografia

Note generali Description based upon print version of record.

Nota di bibliografia Includes bibliographical references and index.

Nota di contenuto Front Cover; Nutritional and Therapeutic Interventions for Diabetes and

Metabolic Syndrome; Copyright; Dedication; Contents; Preface;

Contributors; SECTION I - EPIDEMIOLOGY AND OVERVIEW; Chapter 1 - Type 1 Diabetes Mellitus: An Overview; INTRODUCTION; DEFINITION;

EPIDEMIOLOGY; PATHOPHYSIOLOGY; DIAGNOSIS; CLINICAL

PRESENTATION; MANAGEMENT; COMORBIDITIES; COMPLICATIONS; PREVENTION AND INTERVENTION TRIALS; References; Chapter 2 - Overview of Type 2 Diabetes; DEFINITION AND DIAGNOSTIC CRITERIA;

EPIDEMIOLOGY OF TYPE 2 DIABETES AND ITS COMPLICATIONS: GENETIC

RISK FACTORS FOR TYPE 2 DIABETES

RISK FACTORS AND SCREENING FOR TYPE 2 DIABETES DIABETES IN PREGNANCY: IMPLICATIONS FOR MOTHER AND OFFSPRING; EVIDENCE FOR METABOLIC PROGRAMMING OF DIABETES IN EARLY LIFE; EARLY INTERVENTION IN TYPE 2 DIABETES; CLINICAL MANAGEMENT OF TYPE 2

DIABETES; TREATMENT GUIDELINES; NUTRITION AND LIFESTYLE INTERVENTION; PHARMACOLOGICAL TREATMENTS; BARIATRIC

SURGERY; ECONOMIC IMPACT OF TYPE 2 DIABETES; FUTURE DIRECTIONS; References; Chapter 3 - Pathogenesis of Type 2 Diabetes-A Comprehensive Analysis; INTRODUCTION; GENETICS OF TYPE 2 DIABETES; MAINTENANCE OF NORMAL GLUCOSE HOMEOSTASIS IMPAIRED GLUCOSE HOMEOSTASIS IN PATIENTS WITH TYPE 2 DIABETESMECHANISTIC ACTIONS WHICH LEAD TO PROGRESSIVE -CELL FAILURE AND TYPE 2 DIABETES; SUMMARY; References; Chapter 4 - Managing the Broad Spectrum of Type 2 Diabetes; INTRODUCTION; EVOLVING PATHOPHYSIOLOGY OF TYPE 2 DIABETES; ALTERING THE PROGRESSION OF TYPE 2 DIABETES; NEED FOR EARLY INTERVENTION; AGGRESSIVE MANAGEMENT AFTER DIAGNOSIS; HOW LOW DO WE GO FOR GLYCEMIC CONTROL?; TREATMENT OPTIONS; SELF-MANAGEMENT EDUCATION; LIFESTYLE MODIFICATION; MEAL PLANNING; PHYSICAL ACTIVITY; PHARMACOLOGICAL TREATMENT; WHEN TO ADJUST TREATMENT

INITIATING INSULIN THERAPYINSULIN DELIVERY DEVICES; CONCLUSIONS; References; Chapter 5 - Prediabetes: Prevalence, Pathogenesis, and Recognition of Enhanced Risk; BACKGROUND; PREVALENCE; RESULTS; PATHOGENESIS; RECOGNITION OF ENHANCED RISK; MEANS FOR CARDIOMETABOLIC RISK FACTORS; DISCUSSION; CONCLUSION; References; Chapter 6 - Obesity and Type 2 Diabetes in Youths: New Challenges to Overcome; OBESITY: THE 21ST CENTURY EPIDEMIC; METABOLIC COMPLICATIONS OF OBESITY IN CHILDREN AND ADOLESCENTS; TYPE 2 DIABETES IN CHILDREN AND ADOLESCENCE: A NEW FRIGHTENING EPIDEMIC?

PATHOGENESIS OF TYPE 2 DIABETES IN OBESE CHILDREN AND ADOLESCENTSROLE OF ECTOPIC FAT DEPOSITION IN THE PATHOGENESIS OF INSULIN RESISTANCE; THE -CELL IN THE STORM OF INSULIN RESISTANCE; THERAPY OF TYPE 2 DIABETES IN YOUTHS; CONCLUSIONS AND FUTURE PERSPECTIVES; References; Chapter 7 - Diabetes Pathophysiology: A Nutritional Perspective; INTRODUCTION; DIETARY TREATMENT FOR DIABETES AT THE TURN OF THE 20TH CENTURY; DIETARY RECOMMENDATIONS; GLUCOSE CONTROL; LOW-CARBOHYDRATE DIETS; CONCLUSIONS; References; Chapter 8 - Diabetes Mellitus: A Nursing Perspective; INTRODUCTION/OVERVIEW NURSING PERSPECTIVE

## Sommario/riassunto

Diabetes mellitus affects approximately 20 million people in the US, or nearly 7% of the population. It is expected to increase by 70% within the next 25 years and numerous epidemiologic studies have demonstrated that type 2 diabetes increases the risk of cardiovascular morbidity and mortality. It is estimated to cost over 92 BILLION in health care costs and lost productivity. The increased risk is due to the detrimental vascular effects of prolonged exposure to a hyperglycemic, oxidant rich environment yielding associated cardiovascular risk factors: atherosclerosis, hypertension and clot