

Historical note**Aretaeus of Cappadocia and the first description of diabetes**Konstantinos Laios,¹ Marianna Karamanou,¹ Zenia Saridaki,² George Androutsos¹*¹History of Medicine Department, Medical school, University of Athens, Greece, ²Laboratory of Tumor Cell Biology, Medical school, University of Crete, Heraklion, Greece***ABSTRACT**

The name Aretaeus of Cappadocia has been linked with diabetes more than that of any other physician of antiquity, his texts forming a sophisticated synthesis of the previous knowledge on this disease copiously supplemented by his own observations. Gifted with a unique faculty for observing pathologic phenomena, he was able to elaborate upon earlier texts enriching them with his own original findings and numerous thoughtful reflections. Among the many diseases he dealt with, Aretaeus has bequeathed to us an outstandingly vivid and accurate description of diabetes.

Key words: Aretaeus of Cappadocia, Diabetes, Galen, Soranus of Ephesus, Diarrhea urinosa, Dipsakon

INTRODUCTION

The first clear and complete description of diabetes was made by Aretaeus of Cappadocia, a famous physician of the late Hellenistic period. His analysis of diabetes represents, in fact, the only extensive text of Greek medical literature in existence. His medical writings are moreover unique in the history of ancient medicine for their precision and thoroughness, constituting as they do a creative synthesis of widely accepted ideas in ancient Greek medicine enhanced and augmented by the original conclusions drawn by Aretaeus by virtue of his singular capacity for observation of patients' symptoms.

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Received 09-10-11, Revised 15-11-11, Accepted 20-11-11

ARETAEUS' LIFE AND WORK

Aretaeus, surnamed the Cappadocian, is probably the greatest physician of Greco-Roman antiquity after Hippocrates, and at least the equal of Galen. Born in Cappadocia, a region of eastern Asia Minor, he studied medicine in Alexandria and practiced in Rome.¹ Aretaeus belonged to the Eclectic School of Medicine (Greek: *Εκλεκτισμοί*). Its members were so called because they selected from previous medical treatises those parts which they deemed most rational. The medical practice of Aretaeus was also based on the principles of the Pneumatic School, founded by Athenaeus of Cilicia in the 1st century AD, which believed in the vital role of both *pneuma* (air) and the qualitative characteristics of certain fundamental elements, known as the four humours (heat, coldness, moisture, dryness), in the causation of diseases.²

Aretaeus Of Cappadocia And The First Description Of Diabetes

D. Lynn Loriaux



Aretaeus Of Cappadocia And The First Description Of Diabetes:

The Epidemiology of Diabetes Mellitus Jean Marie Ekoé,P. Zimmet,Rhys Williams,2001-12-12 This book focuses on the geographical aspects of the epidemiology of diabetes It examines such diverse populations throughout the world including American Indians Latin America Africa China Japan and the Middle East The authors also provide a thorough examination of the economic costs of the disease

Historical Landmarks in Endocrinology and Diabetes Bayar A Qasim,2024-08-16 Engage on a captivating journey through the chronicles of medical history with *Historical Landmarks in Endocrinology and Diabetes* Covering the exciting landmarks that have shaped the field of endocrinology as we know it this book traces the evolution of endocrinology through its most pivotal landmarks and provides a concise and captivating account of the pivotal moments in the history of endocrinology branches In addition to authoring Dr Bayar Qasim has contributed to the licensing designing and editing of artwork and images featured in this book With captivating tales and artistic depictions this book immerses readers in the vast tapestry of endocrinological history Whether you re a healthcare professional researcher or simply interested by the world of hormones and its history this publication is for you With a blend of storytelling and artistic flair this book promises to inspire and leave readers eager to uncover more about the world of endocrinology and diabetes

Natural Products and their Bioactives in Antidiabetic Drug Discovery Kanti Bhooshan Pandey,Maitree Suttajit,Pinar Atukeren,2023-07-18 *Natural Products and their Bioactives in Antidiabetic Drug Discovery* Enables researchers to effectively understand and use bioactive compounds to target prevent and manage diabetes *Natural Products and Their Bioactives in Antidiabetic Drug Discovery* provides readers with an overview of recent research in new drug discovery against diabetic complications based on bioactives from NPs bridging the gap between the public research institutes and private companies working to find drugs to treat diabetes To aid in reader comprehension the text includes case studies and illustrated examples in relevant chapters Part one presents chapters on fundamental concepts of diabetes mellitus DM and recent drug discovery progress along with the various druggable targets and challenges Part two covers bioactive compounds targeting Type 1 Diabetes Part three focuses on Type 2 Diabetes In Part four the contributors address gestational DM prevention and management with natural compounds Written by a global team of experts in the field *Natural Products and their Bioactives in Antidiabetic Drug Discovery* covers sample topics such as Obesity risk factor in patients with T1DM and possible role of nutritional therapy in its management Use of natural non insulin drugs as a novel approach to enhance therapeutic outcomes against T1DM Effectiveness of functional foods in intervening the diabetic complications and realistic results in clinical trials Implementation of nanotechnology in improving the bioavailability and reducing the threshold dose of bioactive compounds Various antidiabetic mechanisms of action of different polyphenols and immunomodulatory role of NPs bioactives relevance in T1DM therapy Effects of natural products on genetics of gestational diabetes With comprehensive coverage of recent research in new drug discovery against diabetic complications based on

bioactives from NPs Natural Products and Their Bioactives in Antidiabetic Drug Discovery is an essential resource for researchers and professionals involved in drug discovery and development health care medicinal chemistry phytochemistry plant science and toxicology

Antidiabetic Potential of Plants in the Era of Omics Deepu Pandita, Anu Pandita, Chander Bhanu, 2022-12-30 Here is an informative overview of diabetes mellitus in conjunction with plant based treatments It discusses available methods for studying the antidiabetic activities of scientifically developed plant products mechanisms of action their therapeutic superiority and current genome editing research perspectives and biotechnological approaches The book begins with an introduction to diabetes giving a brief overview of the history diagnosis classification pathophysiology and risk factors It goes on to review traditional uses of plants for diabetes along with ethnobotanical information The results of scientific studies on the various modes of action of antidiabetic plants are discussed such as the molecular aspects of active plantbased antidiabetic drug molecules A section featuring recent biotechnological advancements of antidiabetic plants and plant based antidiabetic drugs covers advances in molecular breeding and application of molecular markers biotechnologically engineered transgenic medicinal plants and advances in genomic editing tools and techniques

The Diabetes Textbook Joel Rodriguez-Saldana, 2023-07-04 The Diabetes Textbook Clinical Principles Patient Management and Public Health Issues 2nd Edition addresses diabetes from a comprehensive multidisciplinary perspective Its purpose is to integrate state of the art information on diabetes from specialists in various disciplines including epidemiology public health pathophysiology non pharmacologic and pharmacologic treatment patient support acute and chronic complications new and unproven therapies and prevention The main benefit of The Diabetes Textbook is its integrative approach The book is therefore intended for three main types of readers 1 physicians and health professionals seeking a comprehensive approach to diabetes 2 those with previous expertise in a specific professional area who want to expand their knowledge and 3 those interested in learning about topics not previously covered who will find the contents of The Diabetes Textbook both enriching and innovative The Diabetes Textbook is intended for a broad readership including professors of medicine and related disciplines nursing nutrition psychology general physicians internists and specialists e g in ophthalmology endocrinology cardiology obstetrics and gynecology pediatrics geriatrics epidemiology and public health To address these readers needs the second edition is divided into the following eleven sections 1 Magnitude of the Problem from an Individual and Social Context 2 Diagnosis Classification and Mechanisms of Disease 3 Global Experiences in Diabetes Care 4 Basic Components of Management Patient Centeredness Evidence Based Medicine and Outcomes 5 Resources of Support for Persons with Diabetes 6 Drug Therapy 7 Cardiovascular Risk Factors 8 Acute Complications 9 Chronic Complications 10 Diabetes in Special Populations and 11 Novel Therapeutic Approaches Evidence Based and Non Proven and Diabetes Prevention

Antidiabetic Medicinal Plants M. Naeem, Tariq Aftab, 2023-09-29 Medicinal Plants with Antidiabetic Properties Applications and Opportunities is the first comprehensive reference to present the state of current

research as well as those developments that are impacting developments in the use of plants to address diabetic conditions Presenting multiple perspectives on the plants their identification cultivation and application this book presents the state of the art with an eye toward the future Herbal drugs and their components with insignificant toxicity and limited or no side effects are valuable therapeutic alternatives in the treatment of diabetes around the world and have been considered a fundamental source of potent antidiabetic drugs Exploration of plants containing numerous bio active compounds such as flavonoids terpenoids saponins carotenoids alkaloids and glycosides for their potential antidiabetic properties is increasing as alternative treatments for this globally devastating disease are sought Presented in 5 parts the book first provides an overview of those plants with antidiabetic properties then moves to the agricultural practices for the cultivation and production of those plants Part Three focuses on the chemical composition and phytochemicals of the plants before then moving into a study of the physiological biotechnological and molecular approaches to optimizing these plants The book concludes with insights into current and potential future medical and clinical applications The book is ideal for those seeking to understand the biology and chemistry of plants with anti diabetic properties and their effective development and application Includes insights from laboratory research to field application Presents perspectives from agriculture biotechnology molecular biology pharmaceutical pharmacological and clinical trials Highlights the cost effective and eco friendly technologies for sustainable agricultural developments in antidiabetic plants Textbook of Diabetes Richard I. G. Holt, Allan Flyvbjerg, 2024-02-12 Textbook of Diabetes Classic textbook providing diabetologists and endocrinologists with illustrated and clinically focused content on diabetes Now in its sixth edition the Textbook of Diabetes has established itself as the modern international guide to diabetes Sensibly organized and easy to navigate with exceptional illustrations the textbook hosts an unrivalled blend of clinical and scientific content Written by highly experienced editors and international contributors all of whom have provided insight on new developments in diabetes care These include the most recent guidelines from the European Association for the Study of Diabetes EASD the American Diabetes Association ADA Diabetes UK and the National Institute for Health and Care Excellence NICE and information on the latest treatment modalities used around the world The textbook includes free access to the Wiley Digital Edition which provides easy to use searching across the book the full reference list with web links illustrations and photographs and post publication updates Sample topics covered in Textbook of Diabetes include Diabetes in its historical and social context covering the history of diabetes past classification and diagnosis of diabetes and the global burden of diabetes Normal physiology covering glucose homeostasis islet function and insulin secretion and glucagon in islet and metabolic regulation Pathogenesis of diabetes covering genetics of diabetes and obesity autoimmune type 1 diabetes and other disorders with type 1 diabetes phenotype Other types of diabetes covering endocrine disorders that cause diabetes pancreatic diseases and diabetes and drug induced diabetes Beautifully illustrated with a clinical focus Textbook of Diabetes provides endocrinologists and diabetologists both

consultants specialists and those in training with a fresh and comprehensive clinical resource to consult time and time again The text is also of value to specialist diabetes nurses and researchers in the field

A Biographical History of Endocrinology D. Lynn Loriaux, 2016-02-23 Establishing endocrinology as a distinct medical specialty was no easy task This engaging volume chronicles the journey through the stories of the men and occasional women who shaped the specialty through the ages In 108 brief chapters A Biographical History of Endocrinology illuminates the progress of endocrinology from Hippocrates to the modern day The author highlights important leaders and their contributions to the field including these early pioneers Kos and Alexandria and the first human anatomy Bartolomeo Eustachi and the adrenal gland Richard Lower and the pituitary gland Thomas Addison and adrenal insufficiency Franz Leydig and testosterone secreting cells Wiliam Stewart Halsted and surgery of the thyroid gland John J Abel and isolation of hormones Hakaru Hashimoto and his disease Covering all the watershed moments in the history of the profession the book identifies key figures whose contributions remain relevant today Their fascinating stories of experiments and studies advocacy and adversity and exploring unknown territory will inspire the next generation of endocrinologists and satisfy every clinician who ever wondered how did we get here This comprehensive yet concise biographical history of endocrinology will benefit not only practicing and prospective endocrinologists but also other medical specialists and medical historians

Handbook of Diabetes Rudy Bilous, Richard Donnelly, Iskandar Idris, 2021-04-20 HANDBOOK OF DIABETES The Handbook of Diabetes provides concise and efficient coverage of the diagnosis epidemiology and management of diabetes and its complications Containing hundreds of attractive colour diagrams illustrations and clinical photographs this popular quick reference guide focuses on the management and measurement of diabetes mellitus with highly visual references Now in its fifth edition this market leading book aligns with the most recent guidelines from the American Diabetes Association ADA the European Association for the Study of Diabetes EASD Diabetes UK and the National Institute for Health and Care Excellence NICE presenting authoritative clinical coverage of diabetes in an accessible format with rich pedagogical features Five new chapters provide detailed coverage of liver disease diabetes education bariatric surgery diabetes and cancer and the use of incretin based therapies and SGLT2 Inhibitors in the management of Type II diabetes Updated and expanded topics include the relation between hypoglycaemia and dementia anxiety and depression the NICE Quality and Outcomes Framework QOF and the impacts of diabetes to self care mental health and decision making Provides a wealth of pedagogical features such as vignettes and case histories important learning points summaries of key clinical trials and links to further readings Handbook of Diabetes remains the essential practical companion for all health professionals involved in managing patients with diabetes and an up to date reference for diabetes and endocrinology researchers scientists and academics

The Encyclopedia of Adulthood and Aging, 3 Volume Set Susan K. Whitbourne, 2016-01-19 This authoritative reference work contains more than 300 entries covering all aspects of the multi disciplinary field of adult development and aging Brings

together concise accurate summaries of classic topics as well as the most recent thinking and research in new areas Covers a broad range of issues from biological and physiological changes in the body to changes in cognition personality and social roles to applied areas such as psychotherapy long term care and end of life issues Includes contributions from major researchers in the academic and clinical realms 3 Volumes www.encyclopediaadulthoodandaging.com **Sadikot's International Textbook of Diabetes** Kamalakar Tripathi, Banshi Saboo, 2019-04-30 This book is a complete guide to the diagnosis and management of diabetes Divided into eight sections the text begins with an overview of the history epidemiology and pathogenesis of the disease The next chapters discuss different types diabetes diagnosis managements techniques and monitoring The following sections cover chronic and acute complications and diabetes in special situations such as in pregnancy and during Ramadan The book concludes with discussion on transplant gene and stem cell therapy psychosocial aspects and public health and economics The comprehensive text is further enhanced by clinical photographs diagrams and exhaustive references Key points Comprehensive guide to diagnosis and management of diabetes Covers different types of diabetes and potential complications Includes discussion on diabetes in special situations such as in pregnancy or during Ramadan Features clinical photographs diagrams and exhaustive references [The Diabetic Wine Lover's Guide](#) B.S. Theodore Berland, 2015-04-17 Diabetics tired of Diabetic DON T s now have a Diabetic DO they can raise a glass to Serious medical research shows that dry red wines consumed in moderation can significantly contribute to good health even for diabetic or pre diabetics Of course one needs to be of legal age and not addicted to alcohol This book gives diabetics and their doctors solid wine and diabetes medical facts in a readable yet thorough analysis of current medical research Readers and their medical advisors may conclude on the basis of these facts concepts and important research findings that some wines may be consumed safely by diabetics and that moderate consumption of dry wines by diabetics may improve health In addition to the numerous studies cited this volume includes many health and lifestyle suggestions along with fascinating history biology and chemistry of diabetes and wine [Molecular Nutrition and Diabetes](#) Didac Mauricio, 2015-12-08 Molecular Nutrition and Diabetes A Volume in the Molecular Nutrition Series focuses on diabetes as a nutritional problem and its important metabolic consequences Fuel metabolism and dietary supply all influence the outcome of diabetes but understanding the pathogenesis of the diabetic process is a prelude to better nutritional control Part One of the book provides general coverage of nutrition and diabetes in terms of dietary patterns insulin resistance and the glucose insulin axis while Part Two presents the molecular biology of diabetes and focuses on areas such as oxidative stress mitochondrial function insulin resistance high fat diets nutraceuticals and lipid accumulation Final sections explore the genetic machinery behind diabetes and diabetic metabolism including signaling pathways gene expression genome wide association studies and specific gene expression While the main focus of each chapter is the basic and clinical research on diabetes as a nutritional problem all chapters also end with a translational section on the implications for the nutritional

control of diabetes Offers updated information and a perspective on important future developments to different professionals involved in the basic and clinical research on all major nutritional aspects of diabetes mellitus Explores how nutritional factors are involved in the pathogenesis of both type1 and type2 diabetes and their complications Investigates the molecular and genetic bases of diabetes and diabetic metabolism through the lens of a rapidly evolving field of molecular nutrition

Medicine , *Textbook of Pathology - E-Book* Rajeswari Kathiah,Gayathri Devi T,Indhu Kannan,2024-09-18 *Textbook of Pathology E Book* [Diabetes Unveiled: A Comprehensive Guide to Understanding, Management, and Future Directions](#) Dr. Spineanu Eugenia, *Diabetes Unveiled A Comprehensive Guide to Understanding Management and Future Directions* is an exhaustive exploration into the multifaceted world of diabetes a condition that affects millions globally This treatise delves deep into the biological underpinnings of the disease from the intricacies of pancreatic function to the complexities of hormonal regulation It sheds light on the symptoms diagnostic criteria and the various stages of diabetes providing invaluable insights for both patients and healthcare professionals The guide also discusses the myriad complications associated with diabetes from microvascular to neuropathic issues offering a holistic view of the challenges faced by those with the condition Beyond the medical aspects this work delves into the socio cultural and economic dimensions of diabetes addressing the disparities in healthcare access the influence of cultural beliefs on health behaviors and the economic burden of the disease on societies It emphasizes the importance of patient narratives community based interventions and the role of schools and workplaces in managing and preventing diabetes In its concluding sections the treatise looks to the future discussing the latest in technological advancements the potential of stem cell research and the emerging role of artificial intelligence in diabetes care It also touches upon the ethical considerations in diabetes research ensuring a well rounded understanding of the subject *Diabetes Unveiled* stands as a testament to the ever evolving understanding of diabetes serving as an essential resource for all stakeholders in the fight against this global health challenge **Your Guide to**

Understanding and Dealing with Type 2 Diabetes Keith Souter,2015-06-11 There are currently over 3 2 million people with diabetes in the UK or 6 per cent of the adult population and 85 90 per cent of these sufferers have type 2 This book gives the basic information needed to understand what type 2 diabetes is how to recognise it and how to manage it

Diabetes Source Book *Diabetes and Arthritis Control Program (U.S.)*,1969 **Transplantation, Bioengineering, and Regeneration of the Endocrine Pancreas** Giuseppe Orlando,Lorenzo Piemonti,Camillo Ricordi,Robert J. Stratta,Rainer W.G. Gruessner,2019-11-09 *Transplantation Bioengineering and Regeneration of the Endocrine Pancreas Volume 1* sets a new standard in transplant and regenerative medicine The book details the state of the art in modern whole pancreas and islet transplantation including donor selection immunosuppression complications allograft pathology and more As regenerative medicine is changing the premise of solid organ transplantation this volume catalogs the technologies being developed and the methods being implemented to bioengineer or regenerate the endocrine pancreas in order to more

effectively treat diabetes Edited and authored by unparalleled leaders in the field this new volume argues for a much needed synergy between organ transplantation and regenerative medicine Provides comprehensive and cutting edge knowledge of whole pancreas and islet transplantation Includes sections that address donor selection immunosuppression complications allograft pathology and more Offers an update on the progress of regenerative medicine research aimed at beta cells replacement in the treatment of diabetes

Obesity and Diabetes Joel Faintuch, Salomão Faintuch, 2020-12-14 Now in its second edition this comprehensive handbook provides a state of the art overview of recent advances in drug and non drug therapies for obesity and diabetes It also addresses major comorbidities covering topics such as cardiovascular diseases renal and neuropsychiatric disorders appetite control and micro RNAs Special attention is also devoted to pediatric care including the latest recommendations for therapy and prevention Obesity and type 2 diabetes are among the top global health care budget concerns worldwide and impact professional practice at all levels in hospitals clinics and physicians offices alike They prominently feature in headlines and virtually no family community or country is exempt from their protean deleterious consequences Furthermore given the multiple intersections in their pathways they often go hand in hand The good news is that scientific advances in all fields including genomics metabolomics lipidomics and microbiomics are increasing our understanding of these two disease areas At the same time artificial intelligence machine learning mobile health and advanced implantable and external devices are rendering prevention and management more available safe and cost effective In addition bariatric and metabolic surgery has evolved from a niche specialty to an officially endorsed option for several modalities of obesity and diabetes This book presents the latest lifestyle pharmacological surgical and non surgical treatment options including endoscopic intervention and cell therapy Objectively reviewing natural and artificial sweeteners and critically examining issues such as public health initiatives government mandated taxes for unhealthy foods and environmental planning no stone is left unturned in gathering the latest practical information As such the book will appeal to seasoned specialists as well as students and healthcare professionals in training

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