

Pathogenesis of Diabetes Mellitus (DM), Type II

Unhealthy Lifestyle: i.e. over-eating, obesity, inactivity

Intraperitoneal cavity accumulates "visceral fat" (aka. "abdominal fat"), which is an endocrine organ that secretes:

Inflammatory mediators

Adipokines

Free fatty acids (FFAs)

Note: "adipokines" are inflammatory mediators released from adipose tissue (e.g. TNFalpha). The more adipose tissue a patient has, the more adipokines are released.

Genetic Susceptibility:

Polygenetic or monogenetic factors (i.e. maturity-onset diabetes of the young (MODY)) can predispose insulin resistance

Aging: Beta-cell mass declines with aging, so those predisposed to insulin resistance may develop Type II DM as they age.

Medications: i.e. corticosteroids, anti-psychotics, highly-active anti-retrovirals, progestin-only oral contraceptives

Complex, unclear actions on body tissue

Insulin resistance

(liver, muscle, adipose tissue become less responsive to insulin, and thus less able to use glucose as a fuel source)

Upototoxicity:

FFAs inhibit function of GLUT2 on Beta-cells, ↓ glucose import

Beta-cells do not recognize high blood glucose → ↓ insulin secretion

Initially, beta-cells of the pancreas work overtime to ↑ insulin secretion

Blood [glucose] is kept normal

Glucotoxicity: hyperglycemia is directly toxic to Beta-cells

Hyperglycemia

Over many years, as insulin resistance worsens, Beta-cells "tire out", ↓ insulin secretion (relative insulin deficiency)

Over many more years: Beta-cells deteriorate until they finally stop producing insulin, (absolute insulin deficit)

Since cells can't use glucose, body perceives a state of "starvation", thus mobilizing triglycerides into FFAs, to be used as fuel by cells.

Type II Diabetes Mellitus

Note: There is a HUGE genetic basis for Type II DM: high concordance rate between family members (90% for monozygotic twins), and if a first-degree relative is affected, the risk for other family members is 5-10x above baseline.

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Pathogenesis And Treatment Of Diabetes Mellitus

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Pathogenesis And Treatment Of Diabetes Mellitus:

Pathogenesis and Treatment of Diabetes Mellitus J.K. Radder,H.H.P.J. Lemkes,H.M.J. Krans,2012-12-06 In this book on diabetes mellitus both the pathogenesis and treatment of the disease will be discussed Pathogenetic studies have led to the distinction between type I and type II diabetes In type I hyperglycaemia is due predominantly to insulin deficiency in type II insulin resistance is more important Three pathogenetic factors are thought to play a role in the etiology of type I diabetes heredity viral infections and immunity There may be a relationship between these three aspects since genetic predisposition changes the susceptibility to viral infections and or the immunological defence against these infections Insulinitis ensues Auto immune processes initiated by this chain of events may contribute to the destruction of the B cells in the islets of Langerhans and diabetes may eventually follow This means that at the time of the sudden outbreak of the disease the destructive process has already been active for years

Current Aspects of the Pathogenesis and Treatment of Diabetes Mellitus ,

Pathophysiology Charlotte Pooler,2009-10-01 The well respected textbook Pathophysiology Concepts of Altered Health States has now been fully adapted for Canadian undergraduate nursing and health professions students Like the original text this Canadian edition includes a review of anatomy and physiology and treatment information for commonly occurring disease states Pediatric geriatric and pregnancy deviations are integrated throughout and highlighted with icons for easy identification Canadian content includes Canadian healthcare statistics regarding incidence cultural variations with a focus on native population and largest immigrant populations Canadian research and researchers Canadian treatment protocols and guidelines and commonly occurring disease concerns based on Canadian statistics

Novel insights into the pathophysiology of diabetesrelated complications: implications for improved therapeutic strategies, volume II

Jian Ma,Chunjie Jiang,Xuebin Fu,2025-04-30 Given that Volume I of the topic Novel Insights into the Pathophysiology of Diabetes related Complications Implications for Improved Therapeutic Strategies has been successfully performed last year and we have received submissions talking about diabetic retinopathy DR diabetic neuropathy DN type 2 diabetes mellitus T2DM associated periodontitis diabetic oxidative liver damage diabetic related wound healing etc We are pleased to announce the launch of Volume II Diabetes mellitus DM as a major health problem has been highly prevalent across the globe It is increasingly apparent that not only a cure for the current worldwide diabetes epidemic is required but also a cure for its major complications including heart disease chronic kidney disease and nerve damage In addition other problems with feet oral health vision hearing reproduction and mental health need to be explored as well Understanding the underlying mechanisms of these diabetic complications would be helpful to prevent or delay the occurrence of complications and to improve the overall health condition of people with DM Unfortunately current therapies only slow down disease deterioration of most prevalent diabetic complications Indeed whether the mechanisms in diabetic complications are protective or pathological remains not fully defined based on the impacts during the underlying disease process Thus we welcome

academic articles that can provide the latest insights into the pathophysiology of diabetes related complications These submissions range from uncovering the intracellular signaling pathways with the development of diabetic complications to exploring the possible role of genetic issues metabolic regulation and inflammation mechanisms We welcome high quality Original Research and Review articles that contribute to the mechanism investigation of a range of diabetic complications including but not limited to Microvascular damage related diseases in diabetic patients such as neuropathy nephropathy and retinopathy Foot damage and skin problems in diabetes Reproductive disorder in diabetic women The relationship between diabetes and the development of Alzheimer s disease depression and cognitive impairment In this continued Volume II we are looking forward to seeing many more academic articles on DM related heart disease a reproductive disorder in diabetic women or the relationship between diabetes and the development of Alzheimer s disease etc Also Methods articles that introduce novel experimental methods or animal models that contribute to understanding the formation and progress of diabetic complications are continually welcome Opinions or Perspectives regarding the implications of new research on the treatment of diabetic complications are encouraged too

Diabetes Literature Index ,1968 *Diabetes-Related Literature Index by Authors and by Key Words In the Title* ,1962 **The Role of Insulin Resistance in the Pathogenesis and Treatment of Noninsulin-dependent Diabetes Mellitus** ,1983 *Pathophysiology E-Book* Kathryn L. McCance,Sue E. Huether,2014-01-30 Well known for its authoritative and comprehensive coverage complete treatment of pediatric pathophysiology and the most extensive illustration program in its field this textbook features expert content on everything from the general principles of pathophysiology to detailed discussions of genetics and specific diseases Chapters on alteration present the pathophysiology clinical manifestations and evaluation and treatment of each disease to help you learn to identify normal anatomy and physiology as well as alterations of function in adults and in children Unparalleled coverage of disease processes makes this text the most comprehensive pathophysiology text available The largest full color art program in the field illustrates the clinical manifestations of diseases and disease processes Consistent presentations of each disease with pathophysiology clinical manifestations and evaluation and treatment help you find the information you need quickly and easily Ten separate pediatric chapters cover the pathophysiologic effects on children Aging content is highlighted throughout the text An Introduction to Pathophysiology section at the beginning of the text provides a solid start to the basics of the study of disease Algorithms and flowcharts of diseases and disorders illustrate the disease process in an easy to understand format Nutrition and Disease boxes present evidence based information on the relationship between health promotion through diet and disease Updated content on leukocytes in pain modulation seizure disorders brain injuries and disorders acute encephalopathies reproductive disorders and much more keep you at the cutting edge of this constantly changing field What s New boxes highlight the most current research and findings to ensure you have the most up to date information New animations review questions Key Points and an audio glossary have been added to the Evolve companion

website to strengthen your understanding of key concepts Media Resources Lists encourage you to develop a study plan to master the important content in each chapter

Endocrine Pathophysiology Andrea Manni, Akuffo Quarde, 2020-07-22 This practical guide presents a concise approach to exploring endocrine pathophysiology through the physical exam emphasizing common clinical signs in endocrinology that can be elicited through inspection palpation percussion or auscultation The established and proposed mechanisms underlying these physical signs are highlighted allowing students residents and trainees to better appreciate endocrine pathophysiology at the bedside The text is organized sensibly to facilitate quick and efficient review by medical trainees Major diseases in endocrinology are grouped by organ systems pituitary thyroid adrenal and so on Specific physical examination findings in each primary endocrine disease are reviewed and grouped under the categories of clinical features and pathophysiology followed by related clinical and pathophysiology pearls A brief description of the clinical finding is followed by a summary of the pathophysiologic mechanisms underlying the stated clinical finding Relevant normal physiology and pathophysiology are reviewed where applicable to facilitate learning There are numerous texts on the pathophysiologic basis of diagnostic and laboratory findings in endocrinology There is however no dedicated text to address questions that might be asked by trainees *Endocrine Pathophysiology* satisfies this need in the literature

Diabetic Foot Ulcers - Pathogenesis, Innovative Treatments and AI Applications Muhammad E.H.

Chowdhury, Susu M. Zughaier, Anwarul Hasan, Rashad Alfkey, 2024-05-22 *Diabetic Foot Ulcers Pathogenesis Innovative Treatments and AI Applications* is a groundbreaking compilation that offers a comprehensive examination of diabetic foot ulcers DFUs from multiple perspectives With contributions from leading experts in the field this book explores the epidemiology risk factors and underlying pathophysiology of DFUs providing valuable insights into the complexities of this debilitating complication of diabetes Innovative treatments for DFUs are explored in depth including the latest advancements in wound care bioengineered skin substitutes growth factors and hyperbaric oxygen therapy Contributors also discuss the importance of multidisciplinary approaches and patient centered care in effectively managing DFUs and reducing complications A highlight of this volume is the exploration of artificial intelligence AI applications in DFU management From machine learning algorithms to deep learning models and computer vision techniques experts showcase the potential of AI in early detection risk stratification and personalized treatment of DFUs paving the way for more efficient and effective clinical decision making With its interdisciplinary approach and cutting edge insights *Diabetic Foot Ulcers Pathogenesis Innovative Treatments and AI Applications* is a valuable resource for researchers clinicians students and healthcare professionals interested in DFU research and management By sharing knowledge fostering innovation and embracing new technologies this book aims to make significant strides towards preventing and effectively managing DFUs ultimately improving the health and well being of individuals affected by this challenging complication of diabetes *Diabetic Foot Ulcers Pathogenesis Innovative Treatments and AI Applications* is available now providing essential reading for anyone seeking to deepen their

understanding of DFUs and explore the latest advancements in treatment and care **Pathophysiology** Kathryn L. McCance, RN, PhD, Sue E. Huether, RN, PhD, 2014-01-14 With easy to read in depth descriptions of disease disease etiology and disease processes Pathophysiology The Biologic Basis for Disease in Adults and Children 7th Edition helps you understand the most important and the most complex pathophysiology concepts More than 1 200 full color illustrations and photographs make it easier to identify normal anatomy and physiology as well as alterations of function This edition includes a NEW Epigenetics and Disease chapter along with additional What s New boxes highlighting the latest advances in pathophysiology Written by well known educators Kathryn McCance and Sue Huether and joined by a team of expert contributors this resource is the most comprehensive and authoritative pathophysiology text available Over 1 200 full color illustrations and photographs depict the clinical manifestations of disease and disease processes more than in any other pathophysiology text A fully updated glossary includes 1 000 terms and makes lookup easier by grouping together similar topics and terms Outstanding authors Kathryn McCance and Sue Huether have extensive backgrounds as researchers and instructors and utilize expert contributors consultants and reviewers in developing this edition Chapter summary reviews provide concise synopses of the main points of each chapter Consistent presentation of diseases includes pathophysiology clinical manifestations and evaluation and treatment Lifespan content includes ten separate pediatric chapters and special sections with aging and pediatrics content Algorithms and flowcharts of diseases and disorders make it easy to follow the sequential progression of disease processes Nutrition and Disease boxes explain the link between concepts of health promotion and disease EXTENSIVELY Updated content reflects advances in pathophysiology including tumor biology invasion and metastases the epidemiology of cancer diabetes mellitus insulin resistance thyroid and adrenal gland disorders female reproductive disorders including benign breast diseases and breast cancer and a separate chapter on male reproductive disorders and cancer NEW Chapter on epigenetics and disease Additional What s New boxes highlight the most current research and clinical development **Understanding Pathophysiology - ANZ adaptation** Judy Craft, Christopher Gordon, Sue E. Huether, Kathryn L. McCance, Valentina L. Brashers, 2018-09-19 NEW chapter on diabetes to highlight the prevalence of the disease in Australia and New Zealand Expanded obesity chapter to reflect the chronic health complications and comorbidities New concept maps designed to stand out and pull together key chapter concepts and processes Updated Focus on Learning Case Studies and Chapter Review Questions Now includes an eBook with all print purchases

Cumulated Index Medicus ,1977 **American Journal of Dermatology and Genito-urinary Diseases** ,1903

Insulin-Independent Diabetes Mellitus , **NIH Almanac** National Institutes of Health (U.S.). Division of Public Information, **Boston Medical and Surgical Journal** ,1910 **Research Awards Index** , **Role of Herbal Medicines** Amal Kumar Dhara, Subhash C. Mandal, 2024-02-26 Emergence of lifestyle diseases e g type II diabetes cancers obesity cardiovascular disorders liver cirrhosis etc are exponentially increasing day by day Modern drifts toward the

utilization of herbal medicines in different healthcare aspects necessitate demand the replacement of synthetic molecules with phytoconstituents because of their biocompatibility biodegradability economic extraction process and ready availability from the natural source This book provides a thorough insight into the comprehensive and up to date trends of phytomedicines in the management of lifestyle diseases and its mechanisms modern methods of extraction and purification of phytoconstituents and chemical characterization as well as standardization of phytoconstituents using modern equipments

Sajous's Analytic Cyclopedia of Practical Medicine Charles Eucharist de Medicis Sajous,1913

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