

# Major Complications of Diabetes

## Microvascular

### Eye

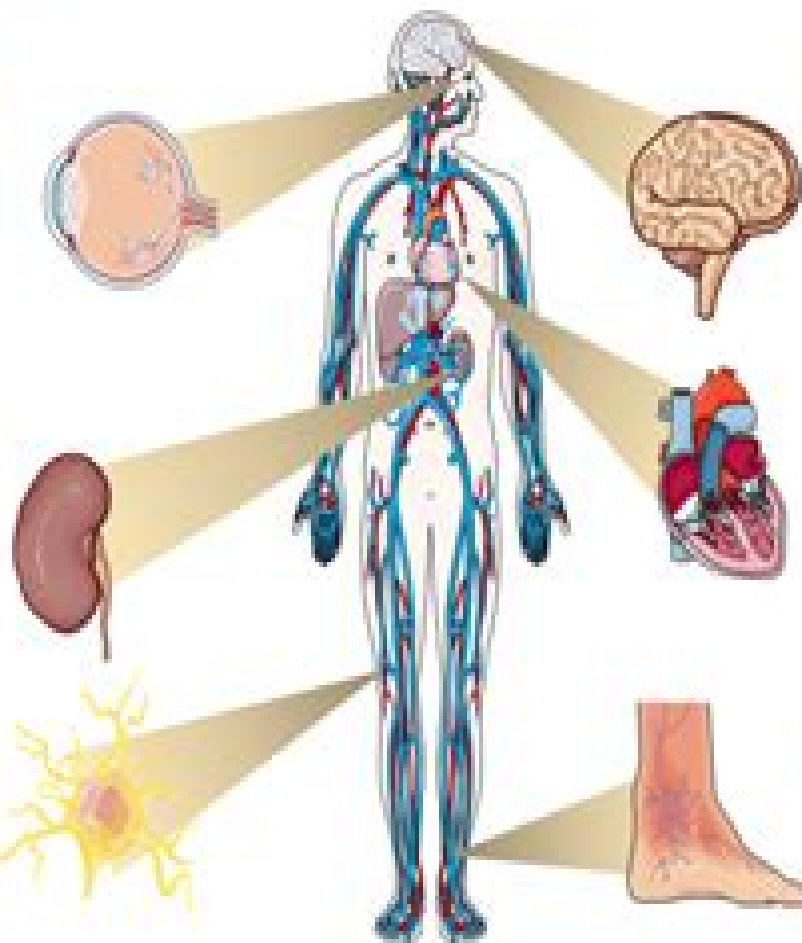
High blood glucose and high blood pressure can damage eye blood vessels, causing retinopathy, cataracts and glaucoma

### Kidney

High blood pressure damages small blood vessels and excess blood glucose overworks the kidneys, resulting in nephropathy.

### Neuropathy

Hyperglycemia damages nerves in the peripheral nervous system. This may result in pain and/or numbness. Feet wounds may go undetected, get infected and lead to gangrene.



## Macrovascular

### Brain

Increased risk of stroke and cerebrovascular disease, including transient ischemic attack, cognitive impairment, etc.

### Heart

High blood pressure and insulin resistance increase risk of coronary heart disease

### Extremities

Peripheral vascular disease results from narrowing of blood vessels increasing the risk for reduced or lack of blood flow in legs. Feet wounds are likely to heal slowly contributing to gangrene and other complications.

# Microvascular Complications Of Diabetes Ecab

**Seshiah**

A decorative red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

## **Microvascular Complications Of Diabetes Ecab:**

Microvascular Complications of Diabetes - ECAB V Seshiah,2009-09-15 The pathogenesis of microvascular complications is complex and multifactorial Yet hyperglycemia emerges as the most important single cause which has been proved by the Diabetes Control and Complications Trial DCCT Thus the importance of protecting the body from hyperglycemia cannot be overstated the direct and indirect effects on the human vascular tree are the major source of morbidity and mortality in both type 1 and type 2 diabetes Generally the injurious effects of hyperglycemia are separated into macrovascular complications coronary artery disease peripheral arterial disease and stroke and microvascular complications diabetic nephropathy neuropathy and retinopathy It is important for physicians to understand the relationship between diabetes and vascular disease because the prevalence of diabetes continues to increase in our country and the clinical requirements for primary and secondary prevention of these complications are also expanding

**Unconventional Organ Damage in Diabetes - ECAB** Samar Banerjee,2012-09-14 Cell health depends on a steady supply of fuel from glucose and free fatty acids Both these major fuels are regulated by insulin Cells in the muscle liver and fat need insulin to receive glucose and hence do not become exposed to high blood glucose levels when the blood sugars are high and insulin levels are low The lack of insulin slows the movement of glucose into these cells and probably spares them from damage when blood sugars are high However other cells such as those in the brain nervous system heart blood vessels and kidneys pick up glucose directly from the blood without using insulin These cells except the brain are more prone to damage from high blood sugars because they become exposed to high internal levels of glucose This to quite an extent explains why damage tends to occur in specific organs such as in nerve and kidney cells and in small blood vessels like those in the eyes This project on the organ damage in diabetes is an attempt to elaborate on the various factors to be considered in managing these patients the pointers for early diagnosis and prevention of the same

Microvascular Disorders In Diabetes Seshiah,2009      *Systemic Diseases And Renal Manifestations* Rana,2009      *Glycemic Monitoring* Jayakumar,2009      Cardiometabolic Risk Prasanna,2009      **Vascular**

**Complications of Diabetes** Richard Donnelly,Edward Horton,2008-04-15 Diabetes has reached epidemic proportions and the cardiovascular complications of diabetes are life threatening and disabling This book is unique in providing a simple explanation of the biochemical role of PKC in diabetes complications which allows clinicians to understand why PKC inhibitors in development are an exciting prospect for future treatment to slow progression of eye foot complications New features of this Second Edition include Updated throughout to reflect the impact of recent major clinical trials on current clinical practice Includes a major new section on diabetic neuropathy Revised section on diabetic retinopathy Each chapter is short and succinct focusing on best practice There are key learning points at the end of each chapter with numerous helpful tables figures and clinical images

**ECAB Clinical Update: Diabetology Diabetic Foot ,      Diabetic Kidney Disease - ECAB** K V Dakshinamurty,2013-07-22 The prevalence of Diabetes Mellitus is increasing rapidly all over the world and more

so in the developing countries The global burden of diabetes is expected to double between 2000 and 2030 with the greatest increases in prevalence occurring in the Middle East sub Saharan Africa and India Moreover the development of type 2 diabetes during the childbearing years is also likely to increase primarily in the developing countries It has already been established that Diabetes is the most common primary cause leading to end stage renal disease ESRD and Diabetic Nephropathy is the leading cause of chronic kidney disease CKD in India The cornerstones of management of Diabetic Kidney Diseases include early diagnosis of diabetic nephropathy prevention of its progression and treatment of the co morbid conditions Substantial under diagnosis of both diabetes and chronic kidney disease leads to lost opportunities for prevention An inadequate or inappropriate care of patients with diabetic kidney disease contributes to disease progression eventually up to a stage that requires renal replacement therapy which is not a feasible option for many on a long term basis especially in a developing country like ours This book covers various aspects of diabetic kidney disease in detail and attempts to familiarize the reader with the existing aspects of the conditions as well as touch upon the new advances in the field The first chapter outlines the extent to which the condition affects the population globally as well as in our country The second chapter explores the underlying mechanism by which the disease starts and progresses and the pathological markers of the same The third chapter delineates the clinical and diagnostic markers of the condition The fourth and fifth chapters speak of the non diabetic glomerular and non glomerular diseases in diabetics The sixth chapter addresses the most important and desirable goal of preventing the progression and ideally the onset of the disease The seventh chapter puts together the various treatment modalities available and the subsequent chapter explores the management options for cases requiring renal replacement In addition to the emphasis to Indian literature at the end of each chapter the ninth chapter is specially included to highlight the salient aspects of this condition from the Indian perspective This book will be beneficial not only for the nephrologists but also for the epidemiologists medical students diabetologists and every doctor who deals with diabetes mellitus

**Microvascular and Neurological Complications of Diabetes** G. Crepaldi, 1987 Three aspects of diabetes were discussed during the XII Congress of the International Diabetes Federation diabetic retinopathy diabetic nephropathy and diabetic neuropathy This volume presents contributions covering the wide range of physiological changes in patients suffering from diabetes and current knowledge is reported by specialists in the field Complications of Diabetes Rajeev Chawla, 2011-12 Complications of Diabetes is a concise reference introducing clinicians to the possible complications with diabetes It stresses the need for early detection and covers all complications occurring in different parts of the body Beginning with an overview of acute and chronic complications of diabetes separate chapters discuss renal complications ocular complications foot complications diabetes and coronary artery disease and diabetes and cerebrovascular disease

*Aetiology and Predictors of Microvascular Complications in Diabetes* Marianne E. Plater, 2002 *Hotspots in Diabetes - ECAB* Ambady Ramachandran, 2013-07-12 Diabetes is one of the most important non communicable lifestyle diseases

Diabetes is a multifaceted disorder which possibly influences and impacts body pathophysiology by different mechanisms and in varied ways Diabetes has a very distinguished impact on cardiovascular system and plays a detrimental role in development of cardiovascular disorders Metabolic memory is used to describe the impact of exposure to glucotoxicity lipotoxicity and other metabolic disturbances either as an adverse or a beneficial cell response which determines the later development of vascular complications Terms such as metabolic imprint legacy effect glycemic memory or latent hyperglycemic damage are also used Diabetes has significant impact on different facets of life Diabetes has a distinguished but significant impact on development of various cancers Diabetes has a positive negative and even neutral impact on pathogenesis and progression of cancer depending upon the tumor site On the contrary cancer also has a significant effect on diabetes development and management These facets tend to get overlooked in the study of diabetes development and management All these aspects are being thoroughly covered in this project so as to facilitate better management of diabetics

**Infections in Diabetes - ECAB** Samar Banerjee, 2012-07-05 Patients with diabetes are predisposed to infections The risk ratio for infectious disease related hospitalization for diabetic versus nondiabetic persons is more than 2 and almost 2 for death attributable to infection Infections in diabetes may precipitate metabolic derangements and conversely the metabolic derangements of diabetes may facilitate infection Abnormalities in the microvascular circulation of individuals with diabetes may result in decreased tissue perfusion which facilitates the acquisition of infection and impairs response to therapy The incidence of TB among diabetic patients is 2.5 times higher when compared to the general population which recently has raised the concern that a combination of DM and HIV infection might lead to a further increased incidence of TB in India and in other developing nations However it is unclear whether diabetes is an independent risk for common upper and lower respiratory tract infections Urinary tract is also reported to be the most prevalent site of infection in patients with diabetes These infections are known to account for a relatively smaller percentage of reported patients probably due to the fact that most patients including diabetics with urinary tract infection are treated as outpatients A number of long term effects of diabetes mellitus on the genitourinary system predispose diabetic patients to bacterial urinary tract infections In addition complications of urinary tract infection e.g. bacteremia renal abscesses and renal papillary necrosis are more common in patients with than without diabetes Rhinocerebral mucormycosis and emphysematous pyelonephritis are some of the less commonly reported conditions seen in diabetics though being important pathologies The primary goal of this book is to provide a high quality evidence based text on the various aspects of the associations of various infections in diabetics with prime focus on TB and diabetes rare conditions such as rhinocerebral mucormycosis and emphysematous pyelonephritis and also the various acute infections commonly reported in the condition The book includes in depth analysis of the diagnostic and management issues considering the same

*Incidence of Microvascular Complications Among Patients with Type 2 Diabetes at a Tertiary Care Hospital* Mustafa Nida, 2017 Background The development and incidence of microvascular

complications of diabetes are strongly related to glycemic control Epidemiologic studies have shown that one fifth of all diabetic subjects suffer from more than one micro vascular complication The complications compromise the quality of life and are also the source of morbidity and mortality Objective To estimate the incidence of microvascular complications among type 2 diabetics at a tertiary care hospital of Karachi Pakistan Methodology This retrospective longitudinal follow up study assessed the data records of type 2 diabetic subjects who visited the outpatient department of Baqai Institute of Diabetology and Endocrinology from January 2005 to April 2016 Subjects of gestational diabetes type 1 diabetes and with history of any microvascular complication at first visit were excluded Medical records were obtained through electronic database Health Management System Incidence rate were estimated by different intervals of duration of diabetes glycemic control HbA1c 7% vs HbA1c >7% and blood pressure control <130/85 mmHg vs ≥130/85 mmHg Statistical analyses were conducted using STATA version 14 and SPSS version 20 Results Out of 4633 patients 2336 (50.4%) were male and 2297 (49.6%) were female At baseline 3175 (85.9%) of the patients had HbA1c level <7% and 1976 (57.2%) were hypertensive while positive family history of diabetes was found in 2419 (69.4%) patients Incidence rate of microvascular complications was 92.9/1000 and 106.2 per 1000 person years for retinopathy neuropathy and nephropathy respectively The incidence rate ratio (IRR) shows that all microvascular complications were significantly high among diabetic patients with duration of diabetes ≥10 years followed by 5-10 years Incidence of retinopathy and nephropathy was significantly higher in patients who had HbA1c >7% than patients with HbA1c <7% p value

**Microvascular Disease in Diabetes** Francesco Tecilazich, 2020-05-05

Presents comprehensive coverage of the many microvascular complications of diabetes Diabetes remains one of the main causes in the western world of legal blindness end stage renal disease and amputation despite the implementation of tight glycemic control and the great progress in the management and care of our patients This book provides a useful and handy tool to professionals and students in the field of diabetes and its microvascular complications by integrating information from clinical settings as well as from the frontlines of diabetic research It provides readers with up to date diagnostic criteria classifications and therapeutic approaches and recent discoveries on mechanisms of disease experimental therapeutic agents and biomarkers of disease Written by top experts in the field Microvascular Disease in Diabetes offers in depth chapters covering pathophysiology the genetics of diabetic microvascular disease and the epigenetics of diabetic microvascular disease It then provides sections featuring both clinical and research information on diabetic retinopathy diabetic nephropathy diabetic neuropathy and diabetic foot It also looks at coronary microvascular dysfunction and cerebral microvascular disease Integrates new and accessible material on diabetic microvascular comorbidities Covers all relevant microvascular systems Provides a much needed resource synthesizing research and clinical applications to treating microvascular complications of diabetes Presents current diagnostic criteria classifications and therapeutic approaches as well as recent discoveries on the mechanisms of disease experimental therapeutic agents and biomarkers of disease

Assembled in an easily consultable manner Microvascular Disease in Diabetes is an excellent text for investigators clinicians and students looking to improve their understanding of diabetic complications *Factors Influencing Microvascular Complications and Adherence in Patients with Diabetes Mellitus in Scotland and Saudi Arabia* Heila Abdelaziz Al-Fallag, 2018

**Chronic Complications of Diabetes Mellitus** Didac Mauricio, Nuria Alonso, 2024-03-21 Chronic Complications of Diabetes Mellitus Current Outlook and Novel Pathophysiological Insights provides a holistic view of the disease discussing not only its classical complications but also the under recognized and managed conditions associated with diabetes Chapters also discuss advances in our understanding of the genomic architecture of diabetes complications and how precision medicine can be used to personalize their management Endocrinologists diabetologists primary care physicians and researchers interested in complications of diabetes mellitus and cutting edge information will find this to be a comprehensive tome on the topic Diabetes complications include pathological changes usually related to the vascular system and classical target organs However there are also nonclassical complications independent or partially independent from vascular damage that are often overlooked Describes pathophysiology clinical aspects and treatment of complications of diabetes including nonclassical complications such as diabetic bone disease and diabetic cardiomyopathy Addresses and discusses challenges in the management of diabetes complications including prevention and therapeutic strategies Presents up to date thoroughly referenced information for clinicians researchers and other healthcare providers Frequency of Microvascular Complications and Their Associated Characteristics Among Patients with Type 2 Diabetes Abro Mujeeb, 2017 Frequency of microvascular complications associated risk factors in type 2 diabetes Author list Mujeeb Abro Asher Fawwad Nida Mustafa Musarrat Riaz Rubina Hakeem Abdul Basit Abstract Aim To determine the frequency of microvascular complications and associated risk factors among subjects with type 2 diabetes reported at a tertiary care unit of Karachi Pakistan Methods This retrospective observational study was carried out in the outpatient department of Baqai Institute of Diabetology and Endocrinology BIDE a tertiary care diabetes center of Karachi from January 2005 to April 2015 Subjects with type 1 diabetes and gestational diabetes were excluded from the study Selected data was extracted from Health Management System HMS including basic demographics anthropometric measurements biochemical results medical information and microvascular complications results Data analysis was performed on Statistical Package for Social Sciences SPSS version 20.0 Result Overall frequency of at least one microvascular complication was 56.9 % retinopathy 15.8% nephropathy 31.0% and neuropathy 48.7% were noted Male gender Age  $\geq 26$  years duration of diabetes  $\geq 10$  years obesity hypertension HbA1c  $\geq 7\%$  and low HDL were found to be significant risk factors for microvascular complication Hypertriglyceridemia was significantly associated with nephropathy and neuropathy Whereas no significant association of hypercholesterolemia and high LDL was found with any complication Conclusion High frequency of microvascular complications were observed among type 2 diabetic subjects visited first time at a tertiary care hospital Early identification and effective management are required at primary

and secondary care levels to combat this situation Key Words Complication Retinopathy Nephropathy Neuropathy diabetes

*Glycaemic Variability is Associated with Microvascular Complications in Emiratis with Type 2, But Not Type 1 Diabetes*

Lessan Nader, 2017 Background Microvascular complications of diabetes mellitus are a major source of morbidity Evidence exists that variability in blood glucose may contribute to microvascular complications of type 1 and type 2 diabetes mellitus Aims To determine whether variability of HbA1c or early morning serum glucose contribute to the risk of microvascular complications of diabetes controlling for established risk factors Method We examined records from people of Emirati origin diagnosed with type 1 n 994 or type 2 n 18 904 diabetes mellitus who underwent retinal screening between 01 01 2015 and 01 04 2017 with at least five available measurements of HbA1c and plasma glucose u201cAverageu201d and u201cvariabilityu201d of HbA1c and glucose were expressed as the mean and standard deviation SD of measurements Retinal disease in the more severely affected eye was classified as u201cnoneu201d R0M0 u201cbackgroundu201d R1M0 or u201csignificantu201d any higher grade Microalbuminuria defined as urinary albumin creatinine ratio u22652 5 mg mmol in females or u22653 5 mg mmol in males in both of the two most recent measurements Microalbuminuria was considered diabetic in origin in all type 1 diabetes cases and in all individuals with type 2 diabetes with coexisting retinopathy Smoking was graded in ordered fashion as

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