

Diabetes: information and Living with this Disease

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ISBN: 978-80-53056-58-8

Diabetes, also known as could keep blood sugar levels stable and prevent complications associated with diabetes. In addition to diet, regular exercise and possibly medication treatment as recommended by a doctor is also important. Diabetes mellitus, is a chronic disease characterized by high levels of sugar (glucose) in the blood that results from insufficient production of insulin in the body or the body's reduced ability to use this hormone effectively. Insulin is a hormone produced by the pancreas that allows glucose to enter the cells and serve as a source of energy. In diabetes, this process is disrupted, which can lead to long-term damage to various organs and systems in the body, including the eyes, kidneys, nerves and heart. There are two main types of diabetes. Type 1 diabetes is an autoimmune disease in which the immune system attacks and destroys the insulin-producing cells of the pancreas. This type usually appears in childhood or early adulthood and requires lifelong insulin administration. Type 2 diabetes is more common and usually develops in adulthood, especially in people who are overweight, have a sedentary lifestyle or a genetic predisposition. In this type, either the body does not produce enough insulin or the cells do not respond to it as they should. This disease requires careful management and health monitoring. Regular monitoring of blood glucose levels using a glucose meter or continuous monitoring systems is essential to keep diabetes under control. An important part of treatment is following a special diet that should be rich in fiber, vegetables, whole grains and contain limited amounts of simple sugars and saturated fats. The dietary plan should be individually tailored to each patient's needs to help stabilize blood sugar levels and prevent complications. Regular physical activity is also key to improving insulin sensitivity and maintaining a healthy body weight. At least 150 minutes of moderate-intensity exercise per week, such as brisk walking, swimming or cycling, is recommended. In some cases, the use of oral antidiabetic drugs or injectable insulin is also necessary, especially if dietary and exercise measures are not sufficient to achieve target glycaemic values. In addition to treatment and prevention of complications, it is important for patients with diabetes to have regular medical check-ups that include monitoring blood pressure, cholesterol, kidney function and vision status. Educating patients about their disease, including the ability to independently

responding to changes in health status and recognising the signs of hypoglycaemia or hyperglycaemia plays a vital role in the successful management of the disease. Proper treatment and lifestyle can significantly improve quality of life and reduce the risk of long-term complications. Patients should also be informed about the treatment and support options available, including specialist diabetes centres and support groups for patients with diabetes and their families.

Long-term complications of diabetes can be serious and significantly affect the patient's quality of life, so it is essential to pay attention to prevention, early diagnosis and proper treatment of this disease from the very beginning. The most common chronic complication is diabetic retinopathy, which affects the tiny blood vessels in the eye and can lead to blindness if not detected and treated in time. Regular eye examinations are therefore crucial to preserve vision. Another serious complication is diabetic nephropathy, a kidney disorder that can progress to chronic kidney failure requiring dialysis or transplantation. Preventive measures include strict control of blood sugar, blood pressure and cholesterol levels, as well as regular kidney function tests. Neuropathy, damage to the peripheral nerves, is often manifested by pain, tingling or loss of sensation in the limbs, especially in the legs. This condition can lead to gait disturbances, injuries that the patient does not feel and, in extreme cases, to the need for amputation. It is therefore important that patients check the condition of their feet daily and wear appropriate footwear. In addition to these complications, the risk of cardiovascular diseases such as myocardial infarction, angina pectoris or stroke increases significantly in diabetics. Diabetics often suffer from other risk factors such as hypertension, dyslipidaemia or obesity, which further increase the risk. For this reason, consistent control of blood pressure, blood fat levels, body weight and a healthy lifestyle is an essential part of treatment. Not only medication therapy, but also patient education, regular exercise, a balanced diet, and cooperation with the physician and other health care professionals are key to effectively managing diabetes and preventing its complications. Modern treatment approaches, including the use of insulin pumps, continuous glucose monitoring and individualized therapy, significantly improve the prognosis of patients and reduce

the risk of complications. Thus, an emphasis on prevention and a comprehensive approach to treatment is essential to maintain the highest possible quality of life for people with diabetes.

How did I get diabetes?

This question haunted me for a long time before I realised how complex and multi-layered the process of this disease is. Diabetes, or diabetes mellitus, is not something that happens suddenly or without cause. It is the result of a combination of genetic predisposition, lifestyle and other health factors. In my case, not only did hereditary predispositions play a role - several relatives in my family had diabetes - but also my eating habits, lack of exercise and the stress I was exposed to at work and in my personal life. I tended to consume too many sweets and junk food, which gradually led to weight gain. All of this, along with a lack of physical activity, caused my body to have trouble regulating my blood sugar levels. Gradually, I started to show the first symptoms such as constant fatigue, frequent urination and increased thirst. Eventually, my doctor diagnosed me with type 2 diabetes, which meant that my body was unable to use insulin effectively. Since then, I have had to pay more attention to my health, adjust my diet, exercise regularly and monitor my blood sugar levels to prevent further complications. This process has opened my eyes and taught me how important it is to take care of my health and not to underestimate the signals our body sends us. This personal experience made me realize how important early detection and proper treatment of diabetes is to prevent serious health complications and improve the quality of life of patients with this disease.

The disease you are referring to is a medical condition that can have different causes, symptoms and consequences. It is important to understand that each illness has its own specific course and can affect a person physically and mentally. Symptoms can vary depending on the type of illness, its severity and the individual characteristics of the patient. Diagnosis often involves complex examinations that may include blood tests, imaging or specialized tests. Treatment then depends on the exact cause of the disease and may include medication, physiotherapy, lifestyle changes or, in some cases, surgery. Prevention is also key and involves regular medical

checkups, healthy diet, sufficient exercise and avoiding risk factors. For a better understanding of a specific disease, it is advisable to consult a specialist who can provide detailed information tailored to the individual needs of the patient. Understanding diabetes and its impact on life is essential for effective management of the disease, not only for the patients themselves, but also for their loved ones and caregivers. In the context of diabetes, it is important to focus on a comprehensive approach including prevention, early diagnosis and appropriate treatment to minimise potential health complications and improve the quality of life of patients.

Types of Diabetes Diabetes mellitus, also known as diabetes mellitus, is a chronic disease characterized by high blood glucose levels that occur due to problems with the production or action of insulin. There are several main types of diabetes, which differ in their causes, course and treatment. The first and most common type is type 2 diabetes, which accounts for approximately 90% of all cases. This type usually develops gradually, often in association with obesity, unhealthy lifestyle and genetic predisposition. In type 2 diabetes, the body cannot use insulin efficiently, leading to insulin resistance. Symptoms include frequent urination, excessive thirst, fatigue and slow wound healing. Treatment includes changing eating habits, regular physical activity, weight control, and medication or insulin therapy if needed. The second type is type 1 diabetes, which is an autoimmune disease. The immune system attacks and destroys the insulin-producing cells of the pancreas, leading to a complete lack of insulin. This type usually appears in childhood or adolescence, but can also occur in adults. Patients with type 1 diabetes must take insulin for life to keep their blood glucose levels within normal limits. Symptoms include rapid weight loss, frequent urination, severe thirst and fatigue. Another less common type is gestational diabetes, which develops during pregnancy. This condition can put the health of both mother and baby at risk, so regular monitoring of sugar levels in pregnant women is important. After giving birth, most women experience a return of their sugar levels to normal, but are at higher risk of developing type 2 diabetes later in life. In addition to these main types, there are also rare forms of diabetes, such as monogenic diabetes, which is caused by specific genetic mutations that affect the function of the beta cells of the pancreas. This type

Diabetes usually occurs at a younger age and can be mistaken for type 1 diabetes, although its course and treatment can vary considerably. The best known forms of monogenic diabetes are MODY (maturity onset diabetes of the young) and neonatal diabetes, each of which has its own genetic causes and clinical manifestations. Another less common form is secondary diabetes, which arises as a consequence of other medical conditions or as a side effect of taking certain medications. Diseases that can lead to the development of secondary diabetes include pancreatic diseases (such as chronic pancreatitis, cystic fibrosis or pancreatic tumours), endocrine disorders (such as Cushing's syndrome or acromegaly) and some autoimmune conditions. Secondary diabetes can also be triggered by long-term use of corticosteroids, certain diuretics or drugs used to treat psychiatric illnesses. Diagnosis and treatment of these rarer types of diabetes often require a specialized approach, including genetic testing, close collaboration with specialists, and an individually tailored treatment plan. your disease. Adherence to these recommendations can significantly improve the quality of life of patients with diabetes and minimize the risk of developing serious complications. Patients' active approach to treatment and prevention plays a key role in the successful management of diabetes. Understanding the different types of diabetes is crucial for correct diagnosis, effective treatment and prevention of complications such as heart disease, kidney, nerve or eye damage. Therefore, it is important to monitor your health regularly, follow your doctors' recommendations and lead a healthy lifestyle.

As diabetes is a complex disease with different types and manifestations, it is important that patients are well informed about their diagnosis and treatment options to enable them to take an active role in managing their condition.

Some tips for patients

It is important for patients with diabetes to maintain a balanced diet, exercise regularly and monitor their sugar levels so that they can lead a healthy and active life despite their diagnosis. A proper diet should include plenty of fiber, whole grains, fresh fruits and vegetables, while intake of simple sugars and saturated fats should

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