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Diabetic Cardiomyopathy And
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Diabetes Chapter 3 Diabetic Cardiomyopathy

Diabetic cardiomyopathy (CM) is characterized by abnormal ventricular function in the absence of DM-associated risk factors such as obesity, hypertension, hypercholesterolemia, or coronary artery disease. Oxidative stress plays a pivotal role in the development of diabetic CM, in which chronic hyperglycemia plays a major role.

Diabetes | ScienceDirect

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characterized by abnormal ventricular function in the absence of DM-associated risk factors such as obesity, hypertension, hypercholesterolemia, or coronary artery disease. Oxidative stress plays a pivotal role in the development of diabetic CM, in which chronic hyperglycemia plays a major role.

Chapter 3 - Diabetic Cardiomyopathy and Oxidative Stress

Chapter 3. Diabetic Cardiomyopathy and Oxidative Stress. Abstract. List of Abbreviations. Introduction. Diabetic Cardiomyopathy. Hallmarks of DM. Oxidative Stress. Hyperglycemia. Lipotoxicity. ROS and RNS in Diabetic Cardiomyopathy. Superoxide. Nitric Oxide and Peroxynitrite. Hydroxyl Radical. The Modulation of Cell Signaling Pathways. Conclusion. Summary Points. References

Diabetes - 1st Edition

Sirtuin 3 (SIRT3) is a potential

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therapeutic target for cardiovascular, metabolic, and other aging-related diseases. In this study, we investigated the role of SIRT3 in diabetic cardiomyopathy...

Sirtuin 3 deficiency exacerbates diabetic cardiomyopathy ...

The purpose of this article was to review the clinical and experimental features of diabetic cardiomyopathy, with particular relevance to the Black population. One hundred thirty-seven studies were identified, of which 57 were selected as references for this article. Diabetes is associated with the development of cardiomyopathy, independent of coronary atherosclerosis.

Diabetic Cardiomyopathy | Diabetes Care

It has been over 30 years since Rubler et al. (1) described four diabetic patients with congestive heart failure (CHF), normal coronary arteries, and no other etiologies for CHF and proposed that it

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was due to diabetic cardiomyopathy. Eight years ago, I reviewed the evidence for diabetic cardiomyopathy as a unique entity unassociated with coronary artery disease and concluded that diabetic ...

Diabetic Cardiomyopathy | Diabetes Care

ischemic diabetic cardiomyopathy. Further studies are needed to elucidate the underlying pathophysiological mechanisms as well as the spatiotemporal evolution of DC and its long-term relationship with clinical outcome parameters [28]. 3.

Pathogenesis of Diabetic
Cardiomyopathy

Diabetic Cardiomyopathy: Cause or Consequence of Diabetes ...

Coronary artery disease (CAD), cardiac autonomic neuropathy and diabetic cardiomyopathy (DbCM) are the direct cardiac complications of diabetes. Heart failure risk is two to five times higher in diabetics than in nondiabetics. DbCM is

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a common, but often unrecognized, complication of diabetic heart disease.

Diabetic cardiomyopathy: Pathophysiology, diagnostic ...

Hyperglycemia, hyperlipidemia and inflammation with high oxidative stress lead to structural and functional alterations of the left ventricle (LV) and promote diabetic cardiomyopathy. Diastolic dysfunction is an early sign of diabetic cardiomyopathy. It has a long asymptomatic period, but with time leads to loss of contractile function.

Diabetic Cardiomyopathy: Echocardiographic and Clinical ...

The prevalence of diabetic cardiomyopathy is increasing in parallel with the increase in diabetes mellitus. Diabetic cardiomyopathy is initially characterized by myocardial fibrosis, dysfunctional remodeling, and associated diastolic dysfunction, later by systolic dysfunction, and eventually by clinical heart failure.

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Diabetic Cardiomyopathy | Circulation Research

Diabetic cardiomyopathy is a disorder of the heart muscle in people with diabetes. It can lead to inability of the heart to circulate blood through the body effectively, a state known as heart failure, with accumulation of fluid in the lungs or legs. Most heart failure in people with diabetes results from coronary artery disease, and diabetic cardiomyopathy is only said to exist if there is no coronary artery disease to explain the heart muscle disorder. Diabetic cardiomyopathy Universal blue ci

Diabetic cardiomyopathy - Wikipedia

Definition of diabetic cardiomyopathy
“Diabetic cardiomyopathy” is a concept that was introduced in 1972 by Rubler et al. [], who examined pathology of four autopsy cases with diabetic glomerulosclerosis and no known cause

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of heart failure. The current typical definition of diabetic cardiomyopathy comprises structural and functional abnormalities of the myocardium in diabetic patients ...

Diabetic cardiomyopathy: pathophysiology and clinical features

Patients with diabetes have an increased risk for development of cardiomyopathy, even in the absence of well known risk factors like coronary artery disease and hypertension. Diabetic cardiomyopathy was first recognized approximately four decades ago.

Diabetic Cardiomyopathy; Summary of 41 Years

The majority of patients with diabetes succumb ultimately to heart disease, much of which stems from atherosclerotic disease and hypertension. However, cardiomyopathy can develop independent of elevated blood pressure or coronary artery

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disease, a process termed diabetic cardiomyopathy.

Diabetic Cardiomyopathy: Mechanisms and Therapeutic Targets

CHAPTER 1 Introduction Diabetic cardiomyopathy (DCM): presentation and management Type 2 diabetes mellitus (T2DM) currently affects an estimated 9.3% of the US population (diagnosed and undiagnosed cases, CDC National Diabetes Statistic Report, 2014). If current trends continue, the prevalence of diagnosed and undiagnosed T2DM

DIABETIC CARDIOMYOPATHY: PHENOTYPES, MECHANISMS, AND ...

Abstract. It has been established that diabetes results in a cardiomyopathy, and increasing evidence suggests that an altered substrate supply and utilization by cardiac myocytes could be the primary injury in the pathogenesis of this specific heart muscle disease.

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Metabolic disturbances in diabetic cardiomyopathy ...

Diabetic cardiomyopathy is a disorder of the heart muscle in people with diabetes. It can lead to inability of the heart to circulate blood through the body effectively, a state known as heart failure, with accumulation of fluid in the lungs or legs. Most heart failure in people with diabetes results from coronary artery disease, and diabetic cardiomyopathy is only said to exist if there is no coronary artery disease to explain the heart muscle disorder. Diabetic cardiomyopathy Universal blue ci

Diabetic cardiomyopathy - Wikipedia

Diabetic cardiomyopathy is a result of damage to the heart functions. Diabetics of both types have an extremely high rate of this problem occurring. In fact, I've read that around 52% of people with type 2 have this heart problem. How

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does diabetes affect the heart muscle to cause cardiomyopathy? First of all, the heart has four chambers.

Cardiomyopathy and Diabetes

Abstract In diabetic cardiomyopathy, structural and functional abnormalities of the myocardium are secondary to diabetes and are not directly attributed to other confounding factors or comorbidities often associated with diabetes.

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