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Role of novel biomarkers in diabetic cardiomyopathy

Kumric M *et al.* Biomarkers in diabetic cardiomyopathy

Marko Kumric, Tina Ticinovic Kurir, Josip A Borovac, Josko Bozic

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Since the condition is silent during early stage, use of novel biomarkers may be **useful to identify patients who are at risk of cardiomyopathy**. So far, only a few studies have explored miRNAs profile in patients with diabetic cardiomyopathy with inconsistent results.

Author: Moorthy S, Koshy T, SrinivasanV, Silambanan S

Publish Year: 2020

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Role of Serum Biomarkers in Early Detection of Diabetic Cardiomyopathy in the West Virginian Population . Adam Shaver 1*, Alexandra Nichols 1*, Ellen Thompson 2, Amrita Mallick 1, Kristen Payne 1, Chris Jones 2, Nandini D. P. K. Manne 3, Shanmuga Sundaram 1, Joseph I. Shapiro 1, Komal Sodhi 4

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.

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Diabetes is characterized by changed homeostasis of blood glucose levels, which is associated with various complications, including **cardiomyopathy**, atherosclerosis, endothelial dysfunction, nephropathy, retinopathy and neuropathy. In recent years, accumulative evidence has demonstrated that circular RNAs are identified as a **novel** type of noncoding RNAs (ncRNAs) involving in the regulation of various ...

Cited by: 2

Author: Ji-Ru Zhang, Hai-Jian Sun, Hai-Jian Sun

Publish Year: 2020

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<https://www.ncbi.nlm.nih.gov/pubmed/28326825>

With better understanding of the pathological basis of DFU, number of biomarkers like **atrial natriuretic peptides**, **galectin-3**, and **cardiac troponins** for **diabetic cardiomyopathy**, cystatin C for diabetics nephropathy and C-reactive protein for infection and procalcitonin could aid in early and noninvasive diagnosis especially when clinical signs are misleading.

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Author: Sivakamasundari Pichu, Sivakamasund...

Publish Year: 2017

[Diabetic Cardiomyopathy | Circulation Research](#)

<https://www.ahajournals.org/doi/full/10.1161/circresaha.117.311586>

Nevertheless, **diabetic cardiomyopathy** may be associated with coronary microvascular dysfunction that impairs coronary blood flow and myocardial perfusion, ventricular function, and clinical outcomes, including CVD. 104 In a clinical study of 2783 consecutive patients, impaired coronary flow reserve was associated with an adjusted 3.2- and 4.9 ...

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Jul 01, 2019 · Alterations in the levels of these biomarkers can suggest myocardial structural and



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Publish Year: 2017

Diabetic cardiomyopathy - A comprehensive updated review ...

<https://www.sciencedirect.com/science/article/pii/S0033062019300519>

Jul 01, 2019 · Alterations in the levels of these biomarkers can suggest myocardial structural and functional dysfunction. Elevated levels of BNP have been found to **show positive correlation with LV dysfunction**. In asymptomatic patients BNP can be useful to screen DM patients for the presence of subclinical LV dysfunction.³⁶

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Author: Ghulam Murtaza, Hafeez Ul Hassan Virk, M...

Publish Year: 2019

Emerging Actors in Diabetic Cardiomyopathy: Heartbreaker ...

<https://www.sciencedirect.com/science/article/pii/S0165614718300488>

May 01, 2018 · There are currently several validated biomarkers for the diagnosis and risk assessment of cardiac diseases, but none is capable of discriminating patients with diabetic cardiomyopathy (DCM). In this review we point to several novel candidate biomarkers from new activated molecular pathways (including microRNAs) with **the potential to detect or prevent DCM in its early stages, or even to treat it once established**.

Cited by: 22

Author: Xavier Palomer, Xavier Palomer, Javier Piza...

Publish Year: 2018

Circulating Biomarkers and MicroRNAs in the Diagnosis ...

<https://www.fortunejournals.com/articles/...>

Biomarkers and microRNAs have been identified to diagnostic as well as prognostic indicators of the various stages of progression of diabetic cardiomyopathy. Cardiac microRNAs target mitochondrial

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.



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