

# MED RAG System - Chat Export

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## Query 1:

What causes heart disease?

*Time: 2025-11-24 21:16:50*

## Answer:

Based on medical literature review: Cardiovascular diseases (CVD) represent the leading cause of death in the world despite innovations in therapies and advances in the general management of patients [...]. [PMID: 36291738] Type 2 diabetes mellitus (T2DM) has emerged as a pandemic. It has different complications, both microvascular and macrovascular. [PMID: 30961498] In cardiomyocytes, high molecular ATP-dependent HSP70 and HSP90 play an important role in protecting the myocardium from abnormal proteins that appear, in particular, due to activation of oxidative stress. Molecular chaperone HSP60 is of particular importance for cardiomyocytes as it is responsible for assembly of mitochondrial matrix proteins. [PMID: 33219889] This summary is based on 3 research papers. See source documents for complete details.

## Sources (3):

1. **PMID:** 36291738

**Title:** Advances in Molecular Biomarkers in Cardiology.

**Specialty:** cardiology

2. **PMID:** 30961498

**Title:** Macrovascular Complications of Type 2 Diabetes Mellitus.

**Specialty:** diabetes

3. **PMID:** 33219889

**Title:** Heat Shock Protein HSP60 in Left Ventricular Cardiomyocytes of Hypertensive Rats with and without Insulin-Dependent Diabetes Mellitus.

**Specialty:** diabetes

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