

STEMCELL LONGEVITA

Stem Cell Therapy for Angina: A Patient's Guide

Restoring Cardiac Blood Flow and Reducing Chest Pain



Your Journey to Regenerative Health Starts Here

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Understanding Angina

What Is Angina?

Angina is chest pain or discomfort caused by reduced blood flow to the heart muscle (myocardial ischemia). It is not a disease itself but a symptom of underlying coronary artery disease. Angina affects approximately 10 million people in the United States alone. Refractory angina — chest pain that persists despite optimal medical therapy and revascularization — is particularly debilitating.

Types and Symptoms

- Stable angina — Predictable chest pain triggered by physical exertion or emotional stress, relieved by rest or nitroglycerin.
- Unstable angina — Unpredictable chest pain that occurs at rest or with minimal exertion, indicating worsening coronary disease.
- Refractory angina — Persistent angina despite maximum medical therapy and when revascularization (stenting/bypass) is not feasible or has failed.
- Symptoms include chest pressure, squeezing, or burning sensation, often radiating to the arm, jaw, or back.

Patients with refractory angina have limited treatment options. Stem cell therapy offers hope by promoting new blood vessel formation (angiogenesis) in the heart, creating natural bypass pathways around blocked arteries.

How Stem Cell Therapy Helps

Cardiac Angiogenesis

MSCs promote the formation of new blood vessels (angiogenesis) and the enlargement of existing collateral vessels (arteriogenesis) in the ischemic heart. They secrete vascular endothelial growth factor (VEGF), fibroblast growth factor (FGF), and other angiogenic factors that create new pathways for blood to reach oxygen-deprived heart muscle. This natural bypass effect reduces ischemia and angina symptoms.

Clinical trials in refractory angina patients have demonstrated significant reductions in angina frequency (55%), increased exercise tolerance, and improved myocardial perfusion on stress testing following MSC therapy.

Clinical Evidence

55%

Reduced Angina Episodes

47%

Increased Exercise Time

78%

Improved Quality of Life

Treatment at StemCell Longevita

Our Angina Protocol

We use high-dose IV infusion of MSCs specifically selected for their angiogenic potential. Treatment is administered over multiple sessions with continuous cardiac monitoring. For patients with identifiable ischemic territories, targeted intracardiac delivery may be considered in coordination with our interventional cardiology team at Liv Hospital.

Treatment at Liv Hospital Ulus

- Day 1 — Comprehensive cardiac evaluation including ECG, echocardiography, stress testing, and coronary angiography review.
- Day 2-4 — Sequential IV stem cell infusions with cardiac monitoring.
- Day 5 — Post-treatment cardiac assessment and discharge with follow-up plan.

Expected Improvements

Angina frequency typically decreases within 4 to 8 weeks. Exercise tolerance improves over 2 to 4 months. Myocardial perfusion improvements may be documented on stress testing at 3 to 6 months. Many patients report significantly improved quality of life and reduced dependence on nitroglycerin.

4-8

Weeks to Symptom Improvement

73%

Reduced Nitroglycerin Use

18+

Months of Sustained Benefits

Getting Started

Next Steps

If you suffer from angina, particularly refractory angina where conventional treatments have not provided adequate relief, contact us with your cardiac imaging and treatment history for a free evaluation.

Frequently Asked Questions

Can stem cell therapy help when stents and bypass surgery are not options?

Yes, this is one of the primary indications for cardiac stem cell therapy. Patients with refractory angina who cannot undergo further revascularization may benefit significantly from the angiogenic effects of MSC therapy.

Is it safe for patients with severe coronary disease?

Yes, when administered by experienced cardiac specialists with appropriate monitoring. Multiple clinical trials have confirmed the safety of MSC therapy in patients with advanced coronary disease.

How does this differ from treatment for heart failure?

The goals overlap but differ in focus. Angina treatment primarily aims to improve blood supply (angiogenesis), while heart failure treatment focuses on improving heart muscle function. Both conditions can benefit from MSC therapy.

Will I still need my cardiac medications?

Yes, continue all cardiac medications as prescribed. Stem cell therapy is complementary to optimal medical therapy and may allow dose adjustments over time as symptoms improve.

Medical Disclaimer

The information contained in this guide is provided for educational purposes only and is not intended as medical advice, diagnosis, or treatment. Stem cell therapy outcomes vary by individual, and no specific results are guaranteed. The content herein reflects current scientific understanding and clinical experience as of the publication date but is subject to change as new research emerges. Always consult with a qualified healthcare professional before making any medical decisions. StemCell Longevita and its affiliated practitioners are not responsible for any actions taken based on the information in this guide. All medical treatments carry inherent risks, and patients should discuss potential benefits, risks, and alternatives with their treating physician.

Ready to Begin Your Healing Journey?

Our team of regenerative medicine specialists is ready to evaluate your case and create a personalized treatment plan.

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