

Clinical trials of myoblasts

TrialResults-center www.trialresultscenter.org

1 acute myocardial infarction

Trial	Treatments	Patients	Trials design and methods
Autologous Skeletal Myoblasts vs placebo			
NCT00975234 <i>ongoing</i> [NCT00975234] n=NA follow-up:	Intra-lesion injection of autologous skeletal myoblasts versus placebo	Patients With Old Myocardial Infarction	

More details and results :

- cell-based therapies for acute myocardial infarction in PCI at <http://www.trialresultscenter.org/go-Q313>

References

[NCT00975234](#), :
ongoing trial NCT00975234

2 heart failure

Trial	Treatments	Patients	Trials design and methods
myoblasts vs control			
CAuSMIC , 2005 n=12/11 follow-up: 12 mo	3-dimensional guided catheter-based delivery of autologous skeletal myoblasts versus control	patients with previous myocardial infarction and heart failure, New York Heart Association (NYHA) functional class II to IV	
SEISMIC , 2011 n=26/14 follow-up: 6 mo	percutaneous intramyocardial transplantation of autologous skeletal myoblasts versus control	Patientst with heart failure patients with implanted cardioverter-defibrillators	
myoblasts vs placebo			

continued...

Trial	Treatments	Patients	Trials design and methods
MAGIC , 2001 n=63/34 follow-up: 6 mo	autologous skeletal myoblasts into the postinfarction scar during coronary artery bypass grafting of remote myocardial areas versus placebo	patient with severe ischaemic heart failure	
MARVEL , 2011 [NCT00526253] n=14/6 follow-up: 6 mo	image-guided, catheter-based intramyocardial injection of placebo or myoblasts (400 or 800 million) versus placebo	patients with class II to IV HF and ejection fraction <35%	

More details and results :

- cell-based therapies for heart failure in all types of patients at <http://www.trialresultscenter.org/go-Q515>
- regenerative therapy for heart failure in all type of patients at <http://www.trialresultscenter.org/go-Q649>

References

CAuSMIC, 2005:

Dib N, Michler RE, Pagani FD, Wright S, Kereiakes DJ, Lengerich R, Binkley P, Buchele D, Anand I, Swingen C, Di Carli MF, Thomas JD, Jaber WA, Opie SR, Campbell A, McCarthy P, Yeager M, Dilsizian V, Griffith BP, Korn R, Kreuger SK, Ghazoul M, MacLellan WR Safety and feasibility of autologous myoblast transplantation in patients with ischemic cardiomyopathy: four-year follow-up. *Circulation* 2005;112:1748-55 [16172284] [10.1161/CIRCULATIONAHA.105.547810](https://doi.org/10.1161/CIRCULATIONAHA.105.547810)

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SEISMIC, 2011:

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MAGIC, 2001:

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MARVEL, 2011:

Povsic TJ, O'Connor CM, Henry T, Taussig A, Kereiakes DJ, Fortuin FD, Niederman A, Schatz R, Spencer R 4th, Owens D, Banks M, Joseph D, Roberts R, Alexander JH, Sherman W A double-blind, randomized, controlled, multicenter study to assess the safety and cardiovascular effects of skeletal myoblast implantation by catheter delivery in patients with chronic heart failure after myocardial infarction. *Am Heart J* 2011;162:654-662.e1 [21982657] [10.1016/j.ahj.2011.07.020](https://doi.org/10.1016/j.ahj.2011.07.020)