

# Clinical trials of Bone marrow progenitor cells

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## 1 heart failure

Trial	Treatments	Patients	Trials design and methods
<b>Bone marrow progenitor cells vs control</b>			
<a href="#">Manginas , 2007</a> n=NA	-	patients with old, nonviable anterior myocardial infarction	
<a href="#">Patel , 2005</a> n=10/10	-	patients with ischemic cardiomyopathy and an ejection fraction of less than 35% who were scheduled for primary off-pump coronary artery bypass grafting	
<a href="#">Perin , 2012</a> n=10/10 follow-up: 6 months	-	patients with advanced ischemic heart failure	
<a href="#">Vrtovec , 2011</a> [NCT00629018] n=NA	-	patients with dilated cardiomyopathy	
<a href="#">Vrtovec , 2013</a> [NCT01350310] n=55/55	-	patients with dilated cardiomyopathy	

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

### Manginas, 2007:

Manginas A, Goussetis E, Koutelou M, Karatasakis G, Peristeri I, Theodorakos A, Leontiadis E, Plessas N, Theodosaki M, Graphakos S, Cokkinos DV Pilot study to evaluate the safety and feasibility of intracoronary CD133(+) and CD133(-) CD34(+) cell therapy in patients with nonviable anterior myocardial infarction. Catheter Cardiovasc Interv 2007;69:773-81 [[17394248](#)] [10.1002/ccd.21023](https://doi.org/10.1002/ccd.21023)

### Patel, 2005:

Patel AN, Geffner L, Vina RF, Saslavsky J, Urschel HC Jr, Kormos R, Benetti F Surgical treatment for congestive heart failure with autologous adult stem cell transplantation: a prospective randomized study. J Thorac Cardiovasc Surg 2005;130:1631-8 [[16308009](#)] [10.1016/j.jtcvs.2005.07.056](https://doi.org/10.1016/j.jtcvs.2005.07.056)

**Perin, 2012:**

Perin EC, Silva GV, Zheng Y, Gahremanpour A, Canales J, Patel D, Fernandes MR, Keller LH, Quan X, Coulter SA, Moore WH, Herlihy JP, Willerson JT Randomized, double-blind pilot study of transendocardial injection of autologous aldehyde dehydrogenase-bright stem cells in patients with ischemic heart failure. *Am Heart J* 2012;163:415-21, 421.e1 [22424012] [10.1016/j.ahj.2011.11.020](https://doi.org/10.1016/j.ahj.2011.11.020)

**Vrtovec, 2011:**

Vrtovec B, Poglajen G, Sever M, Lezaic L, Domanovic D, Cernelc P, Haddad F, Torre-Amione G Effects of intracoronary stem cell transplantation in patients with dilated cardiomyopathy. *J Card Fail* 2011;17:272-81 [21440864] [10.1016/j.cardfail.2010.11.007](https://doi.org/10.1016/j.cardfail.2010.11.007)

**Vrtovec, 2013:**

Vrtovec B, Poglajen G, Lezaic L, Sever M, Domanovic D, Cernelc P, Socan A, Schrepfer S, Torre-Amione G, Haddad F, Wu JC Effects of intracoronary CD34+ stem cell transplantation in nonischemic dilated cardiomyopathy patients: 5-year follow-up. *Circ Res* 2013;112:165-73 [23065358] [10.1161/CIRCRESAHA.112.276519](https://doi.org/10.1161/CIRCRESAHA.112.276519)