

# Clinical trials of Bone marrow derived stem cell

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## 1 heart failure

Trial	Treatments	Patients	Trials design and methods
<b>Bone marrow derived stem cell vs control</b>			
<a href="#">CUPID 2b , 2016</a> [NCT01643330] n=NA follow-up:	-	patients with advanced heart failure	
<a href="#">FOCUS-CCTRN , 2012</a> [NCT00824005] n=92 follow-up:	-	patients with chronic ischemic heart failure	
<a href="#">Pokushalov (DOUBLON DIB) , 2010</a> n=55/54 follow-up:	Intramyocardial transplantation of autologous bone marrow mononuclear cells versus optimal medical therapy	patients with severe ischemic heart failure	Russia
<b>Bone marrow derived stem cell vs placebo</b>			
<a href="#">ABCD , 2010</a> n=24/20 follow-up:	-	Patients with nonischemic dilated cardiomyopathy	
<a href="#">INCL , 2015</a> [NCT00333827] n=NA follow-up: 6 months	bone marrow derived stem cell versus placebo	patients with dilated cardiomyopathy and heart failure in NYHA class III or IV	Parallel groups double blind Brazil
<b>Bone marrow derived stem cell vs sham</b>			
<a href="#">C41750/3100 ongoing</a> [NCT02032004] n=NA follow-up:	-	-	

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

### **CUPID 2b, 2016:**

Greenberg B, Butler J, Felker GM, Ponikowski P, Voors AA, Desai AS, Barnard D, Bouchard A, Jaski B, Lyon AR, Pogoda JM, Rudy JJ, Zsebo KM Calcium upregulation by percutaneous administration of gene therapy in patients with cardiac disease (CUPID 2): a randomised, multinational, double-blind, placebo-controlled, phase 2b trial. *Lancet* 2016;387:1178-86 [26803443]

### **FOCUS-CCTRN, 2012:**

Perin EC, Willerson JT, Pepine CJ, Henry TD, Ellis SG, Zhao DX, Silva GV, Lai D, Thomas JD, Kronenberg MW, Martin AD, Anderson RD, Traverse JH, Penn MS, Anwaruddin S, Hatzopoulos AK, Gee AP, Taylor DA, Cogle CR, Smith D, Westbrook L, Chen J, Handberg E, O Effect of Transendocardial Delivery of Autologous Bone Marrow Mononuclear Cells on Functional Capacity, Left Ventricular Function, and Perfusion in Chronic Heart Failure: The FOCUS-CCTRN Trial. *JAMA* 2012 Mar 24;: [22447880] 10.1001/jama.2012.418

### **Pokushalov (DOUBLON DIB), 2010:**

Pokushalov E, Romanov A, Chernyavsky A, Larionov P, Terekhov I, Artyomenko S, Poveshenko O, Kliver E, Shirokova N, Karaskov A, Dib N Efficiency of intramyocardial injections of autologous bone marrow mononuclear cells in patients with ischemic heart failure: a randomized study. *J Cardiovasc Transl Res* 2010;3:160-8 [20560030] 10.1007/s12265-009-9123-8

### **ABCD, 2010:**

Seth S, Bhargava B, Narang R, Ray R, Mohanty S, Gulati G, Kumar L, Airan B, Venugopal P The ABCD (Autologous Bone Marrow Cells in Dilated Cardiomyopathy) trial a long-term follow-up study. *J Am Coll Cardiol* 2010 Apr 13;55:1643-4 [20378086] 10.1016/j.jacc.2009.11.070

Seth S, Narang R, Bhargava B, Ray R, Mohanty S, Gulati G, Kumar L, Reddy KS, Venugopal P Percutaneous intracoronary cellular cardiomyoplasty for nonischemic cardiomyopathy: clinical and histopathological results: the first-in-man ABCD (Autologous Bone Marrow Cells in Dilated Cardiomyopathy) trial. *J Am Coll Cardiol* 2006;48:2350-1 [17161269] 10.1016/j.jacc.2006.07.057

### **INCL, 2015:**

Martino H, Brofman P, Greco O, Bueno R, Bodanese L, Clausell N, Maldonado JA, Mill J, Braile D, Moraes J Jr, Silva S, Bozza A, Santos B, Campos de Carvalho A Multicentre, randomized, double-blind trial of intracoronary autologous mononuclear bone marrow cell injection in non-ischaemic dilated cardiomyopathy (the dilated cardiomyopathy arm of the MiHeart study). *Eur Heart J* 2015;36:2898-904 [26392433]

### **C41750/3100, 0:**

ongoing trial NCT02032004