

American Heart Association (2011a) *Heart Transplants: Statistics* [Online]. Available from: <http://www.americanheart.org/presenter.jhtml?identifier=4588>

Arom K.V., Ruengsakulrach, P., & Jotisakulratana, V. (2008a) 'Intramyocardial Angiogenic Cell Precursor Injection for Cardiomyopathy', *Asian Cardiovasc Thorac Ann*, 16: 143 – 148 [Online] <http://asianannals.ctsnetjournals.org/cgi/reprint/16/2/143?maxtoshow=&hits=10&RESULTFORMAT=&author1=Arom&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=relevance&resourcecetype=HWCIT>

Arom, K.V., Ruengsakulrach, P., Belkin, B., & Tiensuwan, M. (2009b) 'Intramyocardial Angiogenic Cell Precursors in Nonischemic Dilated Cardiomyopathy', *Asian Cardiovasc Thorac Ann*, 17: 382 - 388. [Online]. Available from: <http://asianannals.ctsnetjournals.org/cgi/content/full/17/4/382?maxtoshow=&hits=10&RESULTFORMAT=&author1=Arom&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=relevance&resourcecetype=HWCIT>

Badorff C, Brandes RP, Popp R, et al. Transdifferentiation of blood- derived human adult endothelial progenitor cells into functionally active cardiomyocytes. *Circulation*. 2003;107(7):1024-1032.

Balsam LB, Wagers AJ, Christensen JL, et al. Haematopoietic stem cells adopt mature haematopoietic fates in ischaemic myocardium. *Nature*. 2004;428(6983):668-673.

Bardelli S, Astori G, Sürder D, et al. Stem Cell Update: Highlights from the 2010 Lugano Stem Cell Meeting. *J Cardiovasc Transl Res*. 2010.

Bundkirchen, A. & Schwinger, R.H.G. (2004) 'Epidemiology and economic burden of chronic heart failure', *Eur Heart J Suppl*, 6(suppl D): D57-D60 [Online]. DOI:10.1016/j.ehjsup.2004.05.015

CDC (2010a) *Health related quality of life* [Online]. Available from: <http://www.cdc.gov/hrqol/>

CDC (2010b) *Heart Disease Facts* [Online]. Available from: <http://www.cdc.gov/heartdisease/facts.htm>

Chen S, Fang W, Ye F, et al. Effect on left ventricular function of intracoronary transplantation of autologous bone marrow mesenchymal stem cell in patients with acute myocardial infarction. *Am. J. Cardiol*. 2004;94(1):92-95.

Claassen, J (2005) 'The gold standard: not a golden standard', *BMJ* 330:1121 [Online]. Available from: <http://www.bmj.com/content/330/7500/1121.full#cite-as> (Accessed: 30 January 2011).

Coyne, K.S., & Allen, J.K. (1998) 'Assessment of functional status in patients with cardiac disease', *Heart & Lung: The Journal of Acute and Critical Care* Vol. 27, Issue 4, Pages 263-273 [Online]. Available from: http://www.sciencedirect.com/science?_ob=MIimg&_imagekey=B6WG7-4CNT29H-43-1&_cdi=6815&_user=8554888&_pii=S0147956398900383&_origin=search&_zone=rslt_list_item&_coverDate=08%2F31%2F1998&_sk=999729995&_wchp=dGLzVlb-zSkzV&_md5=ebbed0cf6

European Heart Network (2009) *Annual Reports*, [Online]. Available from: <http://www.ehnheart.org/publications/annual-reports.html>

Ge J, Li Y, Qian J, et al. Efficacy of emergent transcatheter transplantation of stem cells for treatment of acute myocardial infarction (TCT-STAMI). *Heart*. 2006;92(12):1764-1767.

- Gruh I, Beilner J, Blomer U, et al. No evidence of transdifferentiation of human endothelial progenitor cells into cardiomyocytes after coculture with neonatal rat cardiomyocytes. *Circulation*. 2006;113(10):1326-1334.
- Heron, M.P., Hoyert, D.L., Murphy, S.L., Xu, J.Q., Kochanek, K.D., Tejada-Vera, B. (2009) Deaths: Final data for 2006. [Online]. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr57/nvsr57_14.pdf
- Hierlihy AM, Seale P, Lobe CG, Rudnicki MA, Megeney LA. The post-natal heart contains a myocardial stem cell population. *FEBS Lett*. 2002;530(1-3):239-243.
- Holmes JW, Borg TK, Covell JW. Structure and mechanics of healing myocardial infarcts. *Annu Rev Biomed Eng*. 2005;7:223-253.
- Hughes, S. (2004) BOOST study published: An "important first" for stem-cell research and the heart [Online]. Available from: http://www.theheart.org/article/148671.do#bib_3
- King College London (2011), *BRIEFING NOTE Survey of public priorities for end-of-life care across Europe*[Online]. Available from: <http://www.kcl.ac.uk/newsevents/publications/SurveyResults.pdf>
- Huikuri HV, Kervinen K, Niemelä M, et al. Effects of intracoronary injection of mononuclear bone marrow cells on left ventricular function, arrhythmia risk profile, and restenosis after thrombolytic therapy of acute myocardial infarction. *Eur. Heart J*. 2008;29(22):2723-2732.
- Jackson KA, Majka SM, Wang H, et al. Regeneration of ischemic cardiac muscle and vascular endothelium by adult stem cells. *J. Clin. Invest*. 2001;107(11):1395-1402.
- Janssens S, Dubois C, Bogaert J, et al. Autologous bone marrow-derived stem-cell transfer in patients with ST-segment elevation myocardial infarction: double-blind, randomised controlled trial. *Lancet*. 2006;367(9505):113-121.
- Koyanagi M, Urbich C, Chavakis E, et al. Differentiation of circulating endothelial progenitor cells to a cardiomyogenic phenotype depends on E-cadherin. *FEBS Lett*. 2005;579(27):6060-6066.
- Liu Y, Song J, Liu W, et al. Growth and differentiation of rat bone marrow stromal cells: does 5-azacytidine trigger their cardiomyogenic differentiation? *Cardiovasc. Res*. 2003;58(2):460-468.
- Lunde, K., Solheim, S., Aakhus, S, Arnesen, H., Abdelnoor, M. & Forfang, K. (2005) 'Autologous stem cell transplantation in acute myocardial infarction: The ASTAMI randomized controlled trial. Intracoronary transplantation of autologous mononuclear bone marrow cells, study design and safety aspects', *Scandinavian Cardiovascular Journal* 39: 150/158 [Online]. DOI: 10.1080/14017430510009131
- Mann DL, Deswal A, Bozkurt B, Torre-Amione G. New therapeutics for chronic heart failure. *Annu. Rev. Med*. 2002;53:59-74.
- Mathur, A & Martin J.F.(2004)'Stem cells and repair of the heart', *The Lancet*, Volume 364 Issue 9429 Pages 183-192 [Online] DOI: 10.1016/S0140-6736(04)16632-4)
- Mazhari R, Hare JM. Mechanisms of action of mesenchymal stem cells in cardiac repair: potential influences on the cardiac stem cell niche. *Nat Clin Pract Cardiovasc Med*. 2007;4 Suppl 1:S21-26.
- Mazo M, Pelacho B, Prósper F. Stem cell therapy for chronic myocardial infarction. *J Cardiovasc Transl Res*. 2010;3(2):79-88.
- Meluzín J, Mayer J, Groch L, et al. Autologous transplantation of mononuclear bone marrow cells in patients with acute myocardial infarction: the effect of the dose of transplanted cells on myocardial function. *Am. Heart J*. 2006;152(5):975.e9-15.

Organ Procurement and Transplant Network (2011) National Data, [Online]. Available from:
<http://optn.transplant.hrsa.gov/latestData/step2.asp>

Organization WH(2004)The world health report 2004.

Orlic D, Kajstura J, Chimenti S, et al. Bone marrow stem cells regenerate infarcted myocardium.
Pediatr Transplant. 2003;7 Suppl 3:86-88.

Patel, A. N., Geffner, L., Vina, R. F., Saslavsky, J., Urschel, H. C., Jr, Kormos, R., and Benetti, F
(2005) 'Surgical treatment for congestive heart failure with autologous adult stem cell transplantation:
A prospective randomized study', *J Thorac Cardiovasc Surg* 130: 1631-1638 [Online]. DOI:
10.1016/j.jtcvs.2005.07.056

Perin, E. C., Dohmann, H.F.R., Borojevic, R., Silva, S. A., Sousa, A.L.S., Mesquita, C. T., Rossi,
M.I.D., Carvalho, A.C., Dutra, H.S., Dohmann, H.J.F., Silva, G. V., Belém, L., Vivacqua, R., Rangel,
F.O.D., Esporcatte, R., Geng, Y.J., Vaughn, W.K., Assad, J.A.R., Mesquita, E.T. & Willerson, J. T.
(2003a) 'Transendocardial, Autologous Bone Marrow Cell Transplantation for Severe, Chronic
Ischemic Heart Failure', *Circulation* 107: 2294-2302; [Online].
DOI:10.1161/01.CIR.0000070596.30552.8B

erin,E.C.,Silva,G.V.,Henry,T.D.,Cabreira-Hansen,M.G.,Moore,W.H., Coulter,S.A.,
Herlihy,J.P.,Fernandes,M.R., Cheong,B.YC., Flamm, S.D., Traverse,J.H., Zheng,Y., Smith,D.,
Shaw,S., Westbrook,L.,Olson,R.,Patel,D., Gahremanpour,A., Canales,J.,Vaughn,W.K., Willerson, J.T.
(2011b) 'A randomized study of transendocardial injection of autologous bone marrow mononuclear
cells and cell function analysis in ischemic heart failure (FOCUS-HF)', *American Heart Journal*,
Volume 161, Issue 6, June 2011, Pages 1078-1087.e3, ISSN 0002-8703, [Online]. DOI:
10.1016/j.ahj.2011.01.028.

Prockop DJ, Olson SD. Clinical trials with adult stem/progenitor cells for tissue repair: let's not
overlook some essential precautions. *Blood.* 2007;109(8):3147-3151.

Reinecke H, Minami E, Zhu W, Laflamme MA. Cardiogenic differentiation and transdifferentiation of
progenitor cells. *Circ. Res.* 2008;103(10):1058-1071.

Roger VL, Weston SA, Redfield MM, et al. Trends in heart failure incidence and survival in a
community-based population. *JAMA.* 2004;292(3):344-350.

Roncalli, J., Mouquet, F., Piot, C., Trochu, J.N., Corvoisier, P.L., Neuder, Y., Tourneau, T.L.,
Agostini, D., Gaxotte, V., Sportouch, C., Galinier, M., Crochet, D., Teiger, E., Richard, M.J., Polge,
A.S., Beregi, J.P., Manrique, A., Carrie, D., Susen, S., Klein, B., Parini, A., Lamirault, G., Croisille, P.,
Rouard, H., Bourin, P., Nguyen, J.M., Delasalle, B., Vanzetto, G., Van Belle, E., & Lemarchand, P.
(2010). 'Intracoronary autologous mononucleated bone marrow cell infusion for acute myocardial
infarction: results of the randomized multicenter BONAMI trial' *Eur Heart J*, ehq455 [Online].
DOI:10.1093/eurheartj/ehq455

Sanz-Ruiz R, Gutiérrez Ibañes E, Arranz AV, et al. Phases I-III Clinical
Trials Using Adult Stem Cells. *Stem Cells Int.* 2010;2010:579142.

Schächinger, V., Erbs, S., Elsässer, A., Haberbosch, W., Hambrecht, R., Hölschermann, H., Yu, J.,
Corti, R., Mathey, D.G., Hamm, C.W., Süselbeck, T., Assmus, B., Tonn, T., Dimmeler, S., & Zeiher,
A. M. (2006) 'Intracoronary Bone Marrow-Derived Progenitor Cells in Acute Myocardial Infarction',
New England Journal of Medicine, 355:1210-1221 [Online] DOI: 10.1056/NEJMoa060186

Schächinger V, Assmus B, Erbs S, et al. Intracoronary infusion of bone marrow-derived mononuclear
cells abrogates adverse left ventricular remodelling post-acute myocardial infarction: insights from the
reinfusion of enriched progenitor cells and infarct remodelling in acute myocardial infarction
(REPAIR-AMI) trial. *Eur. J. Heart Fail.* 2009;11(10):973-979.

ScherschelJA, SoonpaaMH, SrourEF, FieldLJ, RubartM. Adult bone marrow-derived cells do not acquire functional attributes of cardiomyocytes when transplanted into peri-infarct myocardium. *Mol. Ther.* 2008;16(6):1129-1137.

Silva, G.V., Perin, E.C., Dohmann, H.F., Borojevic, R., Silva, S.A., Sousa, A.L., Assad, J.A., Vaughn, W.K., Mesquita, C.T., Belém, L., Carvalho, A.C., Dohmann, H.J., Barroso do Amaral, E., Coutinho, J., Branco, R., Oliveira, E., & Willerson, J.T. (2004) 'Catheter-based transcatheter delivery of autologous bone-marrow-derived mononuclear cells in patients listed for heart transplantation' *Tex Heart Inst J* 31(3):214-9. [Online]. Available from: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC521759/>

Strauer, B.E., Brehm, M., Zeus, T., Köstering, M., Hernandez, A., Sorg, R. V., Kögler, G. & Wernet, P. (2002) 'Repair of Infarcted Myocardium by Autologous Intracoronary Mononuclear Bone Marrow Cell Transplantation in Humans', *Circulation* 106: 1913 - 1918. [Online]. Available from: <http://circ.ahajournals.org/cgi/reprint/106/15/1913>

Tendera M, Wojakowski W, Ruzyłło W, et al. Intracoronary infusion of bone marrow-derived selected CD34+CXCR4+ cells and non-selected mononuclear cells in patients with acute STEMI and reduced left ventricular ejection fraction: results of randomized, multicentre Myocardial Regeneration by Intracoronary Infusion of Selected Population of Stem Cells in Acute Myocardial Infarction (REGENT) Trial. *Eur. Heart J.* 2009;30(11):1313-1321.

Thomas, D.E., (1990) *Bone Marrow Transplantation-Past, Present and Future*, Nobel Lecture, [Online]. Available from: http://nobelprize.org/nobel_prizes/medicine/laureates/1990/thomas-lecture.pdf

United Network for Organ Sharing (2011) Transplant Trends, [Online]. Available from: <http://www.unos.org/index.php>

University of Minnesota (2010) *Minnesota Living With Heart Failure Questionnaire* [Online]. Available from: http://www.license.umn.edu/Products/Minnesota-Living-With-Heart-Failure-Questionnaire_Z94019.aspx

Wei H M, Wong P, Hsu L F, Shim W (2009) 'Human bone marrow-derived adult stem cells for post-myocardial infarction cardiac repair: current status and future directions', *Singapore Med J Review* 50(10) : 935 [Online]. Available from: <http://smj.sma.org.sg/5010/5010ra1.pdf>

Willerson, J.T., Perin, E.C., Ellis, S.G., Pepine, C.J., Henry, T.D., Zhao, D.X.M., Lai, D., Penn, M.S., Byrne, B.J., Silva, G., Gee, A., Traverse, J.H., Hatzopoulos, A.K., Forder, J.R., Martin, D., Kroenberg, M., Taylor, D.A., Cogle, C.R., Baraniuk, S., Westbrook, L., Sayre, S.L., Vojvodic, R.W., Gordon, D.J., Skarlatos, S.I., Moye, L.A. and Simari, R.D. (2010) 'Intramyocardial injection of autologous bone marrow mononuclear cells for patients with chronic ischemic heart disease and left ventricular dysfunction (First Mononuclear Cells injected in the US [FOCUS]): Rationale and design', *American Heart Journal*, 160(2), 215-223. [Online]. Available from: <http://www.sciencedirect.com/science/article/B6W9H-50PKK8G-5/2/5204f41fa6f0224de75fea9a46eb65b7>

Wollert, K.C., Meyer, G.P., Lotz, J., Lichtenberg, S.R., Lippolt, P., Breidenbach, C., Fichtner, S., Korte, T., Hornig, B., Messinger, D., Arseniev, L., Hertenstein, B., Ganser, A., & Drexler, H. (2004) 'Intracoronary autologous bone-marrow cell transfer after myocardial infarction: the BOOST randomised controlled clinical trial', *The Lancet*, Volume 364 Issue 9429 Pages 141-148 [Online]. DOI: 10.1016/S0140-6736(04)16626-9

Wollert KC, Meyer GP, Lotz J, et al. Intracoronary autologous bone- marrow cell transfer after myocardial infarction: the BOOST randomised controlled clinical trial. *Lancet.* 2004;364(9429):141-148.

Yousef, M., Schannwell, C.M., Köstering, M., Zeus, T., Brehm, M & Strauer, B.E. (2009) 'The BALANCE Study: Clinical Benefit and Long-Term Outcome After Intracoronary Autologous Bone

Marrow Cell Transplantation in Patients with Acute Myocardial Infarction', *J Am Coll Cardiol* 53;2262-2269 [Online]. DOI: 10.1016/j.jacc.2009.02.051

Van der Laan A, Hirsch A, Nijveldt R, et al. Bone marrow cell therapy after acute myocardial infarction: the HEBE trial in perspective, first results. *Neth Heart J*. 2008;16(12):436-439.