

Supplementary Appendix

This appendix has been provided by the authors to give readers additional information about their work.

Supplement to: Schächinger V, Erbs S, Elsässer A, et al. Intracoronary bone marrow-derived progenitor cells in acute myocardial infarction. *N Engl J Med* 2006;355:1210-21.

Web-only Table: Cell characteristics

	Placebo # (n = 103)	BMC (n = 101)	
Number and viability			
Number of mononuclear cells (x 10 ⁶)	273 ± 241 (210)	236 ± 174 (198)	0.70
Viability of cells (%)	99 ± 0.7 (99)	98 ± 1.2 (99)	0.85
Recovery*			
White blood cells (%)	27 ± 29 (22)	22 ± 8 (21)	0.36
CD34 ⁺ / CD45 ⁺ (%)	46 ± 28 (41)	48 ± 24 (50)	0.55
CD34 ⁺ / CD133 ⁺ / CD45 ⁺ (%)	47 ± 27 (44)	49 ± 23 (50)	0.46
Surface markers (FACS analyses)			
CD34 ⁺ / CD45 ⁺ (%)	1.6 ± 0.7 (1.4)	1.5 ± 0.7 (1.4)	0.30
absolute cell number x 10 ⁶	4.4 ± 4.0 (3.3)	3.6 ± 3.6 (2.5)	0.30
CD133 ⁺ / CD45 ⁺ (%)	1.2 ± 0.5 (1.1)	1.1 ± 0.54 (3.1)	0.32
absolute cell number x 10 ⁶	3.3 ± 3.0 (2.2)	2.8 ± 2.8 (1.9)	0.39
CD34 ⁺ / CD133 ⁺ / CD45 ⁺ (%)	1.03 ± 0.46(0.99)	0.99 ± 0.47 (0.93)	0.49
absolute cell number x 10 ⁶	2.9 ± 2.7 (2.1)	2.5 ± 2.5 (1.8)	0.51
KDR ⁺ / CD45 ⁺ (%)	0.12 ± 0.30 (0.06)	0.09 ± 0.10 (0.06)	0.69
absolute cell number x 10 ⁶	0.35 ± 1.13 (0.11)	0.19 ± 0.23 (0.09)	0.96
Colony forming unit capacity			
- hematopoietic colonies (number/10 ⁶)	32 ± 18 (29)	30 ± 14 (27)	0.49
- mesenchymal colonies (number/10 ⁶)	22 ± 21 (17)	19 ± 16 (16)	0.88
Migratory capacity			
- Basal (number/10 ⁶)	90 ± 57 (82)	101 ± 74 (81)	0.54
- SDF -1 (number/10 ⁶)	162 ± 87 (161)	171 ± 90 (163)	0.60
Hindlimb ischemia model			
	n = 21	n = 21	
- Laser-Doppler derived blood flow recovery (ratio ischemic/normal limb)	0.59 ± 0.13 (0.57)	0.58 ± 0.12 (0.57)	0.81

The placebo group received an intracoronary infusion without containing cells; nevertheless, cell processing and determination of cell characteristics was performed also in placebo group patients.

* Recovery = number after cell processing procedure in relation to unprocessed bone marrow aspirate, expressed in percent.

all data are expressed as mean ± SD (median)