

Dataset: 1_epc_2007_m_0041s

Title/nature of data: *Endothelial Progenitor Cell Lab Assay*

Study description (an original summary that is specific to this dataset, along with inclusion/exclusion criteria):

Endothelial injury is an early event in the pathogenesis of atherosclerosis and its sequelae. Experimental studies suggest that circulating endothelial progenitor cells (EPC) contribute to the maintenance of endothelial integrity via incorporation into sites of endothelial injury or release of autocrine/paracrine factors. Prior human research suggests that EPC number and function are reduced in individuals with multiple coronary risk factors or established coronary artery disease. It is unknown whether common genetic variation accounts for some of the inter-individual variability in circulating EPCs. Genetic variants that influence concentrations of these molecules could potentially alter susceptibility to endothelial dysfunction and coronary artery disease.

EPC number and proliferative function were assessed on specimens obtained from Framingham Offspring Study participants attending the 8th quadrennial examination and the Omni 1 Study participants attending the 3rd examination. Number was assessed using flow cytometry to define the following cell populations: CD34+, AC133+, CD34+/KDR+, CD31+/CD45+. Proliferative function was assayed with a standard EPC colony forming unit assay.

Relevant Publications: (please add lines as necessary)

Reference (include Title, Author, etc)	Pubmed ID (if available)
	PMID: 12584367 PMID: 15321944 PMID: 11440984 PMID: 16148285 PMID: 20823386 PMID: 21493818 PMID: 22093724 PMID: 23287867 PMID: 23701996

Study attribution: (please add lines as necessary)

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The project is supported in part by NIH/NHLBI contract NO1-HC-25195 and grant R01-HL-083197.		