Supplementary Figure legends

**Supplementary Figure 1.**  **A.** Effect of HDL isolated from healthy subjects on endothelial repair capacity of endothelial progenitor cells from healthy subjects. Re-endothelialised area at day 3 after carotid injury in nude mice with transplantation of EPCs from healthy subjects with co-incubation with PBS or HDL (50 µg/ml, 60 min, 37°C) from healthy subjects (each 5x10^5 EPCs; n=3).  **B.** Role of NO-synthase for the effect of HDL from healthy subjects on endothelial repair capacity of endothelial progenitor cells from diabetic patients. Re-endothelialised area at day 3 after carotid injury in nude mice with transplantation of EPCs from diabetic patients with co-incubation with the NO-synthase inhibitor L-NAME (1 mM, 60 min, 37°C) and coin incubation of L-NAME (1 mM) and HDL (50 µg/ml, 60 min, 37°C) isolated from healthy subjects (each 5x10^5 EPCs; n=4-5).

**Supplementary Figure 2.** Endothelium-dependent relaxation of aortic rings of mice in response to HDL (100 µg/ml) isolated from diabetic patients after 3 months of placebo or extended-release niacin therapy (n=5).
Supplemental Figure 1

A

Re-Endothelialized Area [%]

EPCs Healthy
+ PBS

EPCs Healthy
+ HDL

EPCs Healthy
+ L-NAME

P=0.01

B

Re-Endothelialized Area [%]

EPCs Diabetics
+ L-NAME
+ HDL

EPCs Diabetics
+ L-NAME
+ HDL

P=0.72
Supplemental Figure 2

Maximum Relaxation (in % of Healthy HDL)

HDL Diabetics
After 3 month Placebo

HDL Diabetics
After 3 month ER-Niacin

\( P = 0.03 \)