

Supplementary Information:

High density lipoprotein (HDL) particles from end-stage renal disease patients are defective in promoting reverse cholesterol transport

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Supplemental Table S1: Clinical and biochemical characteristics of the end-stage renal disease (ESRD) patients and controls investigated

	ESRD (n=15)	Controls (n=15)	<i>P</i> value
Age (years)	48 (31-56)	46 (26-64)	n.s.
Sex (male/female)	10/5	9/6	n.s.
Body weight (kg)	74 (56-83)	69 (59-90)	n.s.
Duration of dialysis (months)	38 (24-78)	0	
Serum creatinine (mg/dl)	7.1 (5.4-9.4)	1.0 (0.7-1.2)	<0.001
Blood urea nitrogen (mg/dl)	26 (22-38)	14 (10-16)	<0.001
Total protein (g/l)	64 (50-81)	69 (67-73)	n.s.
Cholesterol (mg/dl)	251 (184-283)	180 (166-214)	<0.05
CRP (mg/l)	5.8 (2.0-8.5)	1.1 (0.7-1.5)	<0.001
Smoking	3 (20)	0 (0)	<0.01
Diabetes	6 (40)	0 (0)	<0.001
Coronary heart disease	6 (40)	0 (0)	<0.001
Lipid lowering drugs	9 (60)	0 (0)	<0.001

Data are presented as median (range) or total numbers (%).

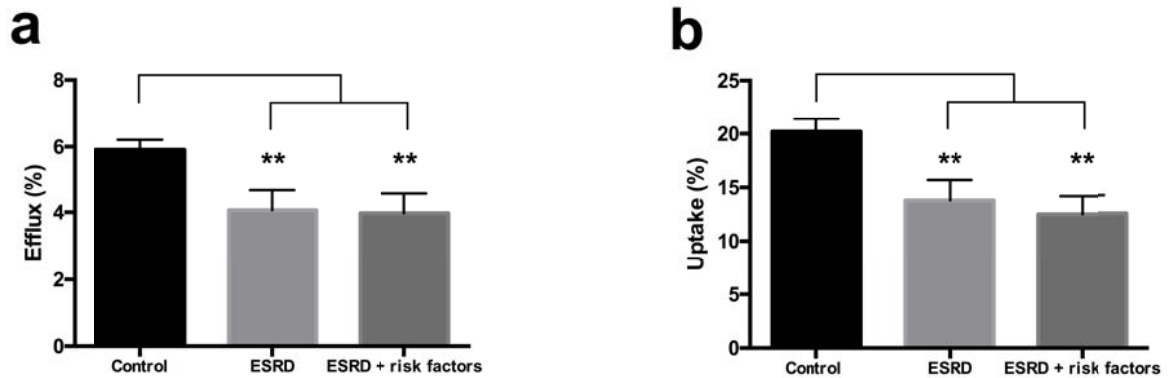
Supplemental Table S2: Mass composition of HDL isolated from ESRD patients and controls

	controls (n=15)	ESRD (n=13)
Cholesterol ester (%)	14.1 ± 0.3	11.3 ± 0.9 [§]
Free cholesterol (%)	4.5 ± 0.1	4.8 ± 0.1 [§]
Phospholipids (%)	14.5 ± 0.6	13.7 ± 0.7
Triglycerides (%)	2.8 ± 0.1	5.2 ± 0.5 [§]
Protein (%)	64.2 ± 0.7	65.0 ± 1.1

Values are means ± SEM.

Significantly different from controls: [§] at least p<0.05.

Supplemental figure S1



Supplemental figure S1: ESRD-HDL displays defective cholesterol uptake as well as cholesterol delivery properties. (a) Cholesterol efflux from primary mouse peritoneal macrophages towards HDL and (b) Cellular SR-BI mediated selective cholesterol uptake from HDL. In these experiments HDL was used isolated either from healthy controls subjects (control, n=15), ESRD-patients without additional risk factors (ESRD, n=5) and ESRD patients with at least one of the additional risk factors smoking, diabetes and lipid lowering medication (ESRD + risk factors, n=10). Data are presented as means \pm SEM. * $p < 0.05$, *** $p < 0.001$