

Table S1. Diagnosed metabolic and cardiovascular comorbidities of LP patients and HC.

Diagnosis	Number of LP patients (%)	Number of HC (%)
Cardiovascular		
Hypertension	16 (50)	13 (40.6)
Atherosclerosis	2 (6.3)	1 (3.1)
Stenocardia	1 (3.1)	
Congestive heart failure	1 (3.1)	1 (3.1)
Atrial fibrillation	1 (3.1)	
Metabolic		
Type 2 diabetes	2 (6.3)	3 (9.4)
Hypothyroidism	4 (12.5)	
Pure hypercholesterolemia		1 (3.1)
Infectious		
Chronic hepatitis C infection	2 (6.3)	

Table S2. Metabolite and lipoprotein particle concentrations that did not differ statistically significantly between blood serum samples obtained from patients suffering from LP, and HC, but had a trend toward alterations ($p < 0.05$).

Metabolites and lipoprotein particles	Mean for LP	Mean for HC	Wilcox-test LP vs. HC, $p < 0.05$
Very small VLDL			
XS-VLDL-CE	0.38	-0.37	0.0048
XS-VLDL-C	0.36	-0.35	0.0086
XS-VLDL-P	0.19	-0.31	0.0309
XS-VLDL-L	0.19	-0.31	0.0388
XS-VLDL-FC	0.19	-0.31	0.0388
Small VLDL			
S-VLDL-FC	0.32	-0.31	0.0148
S-VLDL-PL	0.31	-0.3	0.0206
S-VLDL-C	0.3	-0.29	0.0313
S-VLDL-L	0.28	-0.27	0.0323
S-VLDL-P	0.26	-0.26	0.0369
S-VLDL-CE	0.28	-0.27	0.0478
Medium VLDL			
M-VLDL-FC	0.34	-0.33	0.0062
M-VLDL-CE	0.36	-0.35	0.0064
M-VLDL-C	0.36	-0.35	0.0076
M-VLDL-PL	0.32	-0.31	0.0127
M-VLDL-P	0.31	-0.3	0.0178

M-VLDL-L	0.3	-0.29	0.0191
Large VLDL			
L-VLDL-CE	0.27	-0.26	0.0382
L-VLDL-C	0.25	-0.24	0.0449
Very large VLDL			
XXL-VLDL-TG	0.11	-0.29	0.0302
XXL-VLDL-PL	0.11	-0.28	0.0346
XXL-VLDL-FC	0.12	-0.29	0.0369
XXL-VLDL-P	0.14	-0.3	0.0394
VLDL			
"XXL-VLDL-P" + "XL-VLDL-P" + "L-VLDL-P" + "M-VLDL-P" + "S-VLDL-P" + "XS-VLDL-P"	0.3	-0.29	0.0246
IDL			
IDL-L	0.39	-0.38	0.0029
IDL-P	0.35	-0.34	0.01
LDL			
LDL-CE	0.38	-0.37	0.0029
LDL-P	0.35	-0.34	0.0093
LDL-PL	0.37	-0.36	0.0037
"L-LDL-P" + "M-LDL-P" + "S-LDL-P"	0.35	-0.34	0.0093
Small LDL			
S-LDL-FC	0.33	-0.32	0.0076
S-LDL-C	0.32	-0.31	0.0153
S-LDL-P	0.31	-0.3	0.0185
S-LDL-PL	0.29	-0.28	0.0185
S-LDL-CE	0.31	-0.3	0.0191
S-LDL-L	0.31	-0.3	0.0206
Medium LDL			
M-LDL-FC	0.37	-0.36	0.0029
M-LDL-L	0.34	-0.33	0.0109
M-LDL-C	0.33	-0.32	0.0109
M-LDL-PL	0.34	-0.33	0.0127
M-LDL-CE	0.32	-0.31	0.0165
M-LDL-P	0.26	-0.25	0.0394
Large LDL			
L-LDL-P	0.38	-0.37	0.0042

Small HDL			
S-HDL-FC	0.34	-0.33	0.0052
S-HDL-PL	0.28	-0.27	0.0097
S-HDL-L	0.3	-0.29	0.0153
S-HDL-P	0.3	-0.3	0.0178
S-HDL-C	0.28	-0.27	0.0246
Medium HDL			
M-HDL-TG	0.28	-0.28	0.0357
HDL			
"XL-HDL-P" + "L-HDL-P" + "M-HDL-P" + "S-HDL-P"	0.24	-0.23	0.0263
Cholesterol			
non-HDL-C	0.39	-0.38	0.0034
Remnant cholesterol	0.38	-0.37	0.0048
VLDL-C	0.32	-0.31	0.0159
Total lipids			
Total-L	0.39	-0.38	0.0035
VLDL-L	0.25	-0.25	0.0302
Phospholipids			
Total-PL	0.38	-0.36	0.0067
VLDL-PL	0.28	-0.27	0.0292
Cholesteryl esters			
VLDL-CE	0.33	-0.32	0.0117
Free cholesterol			
VLDL-FC	0.3	-0.29	0.0171
Lipoprotein particle concentrations			
Total concentration of lipoprotein particles	0.29	-0.28	0.0113
Concentration of VLDL particles	0.3	-0.29	0.0246
Concentration of HDL particles	0.24	-0.23	0.0263
Other lipids			
Cholines	0.35	-0.34	0.0064
Phosphoglycerides	0.35	-0.34	0.0057
Phosphatidylcholines	0.34	-0.33	0.0086
Sphingomyelins	0.29	-0.28	0.0206
Apolipoproteins			
Apolipoprotein B	0.35	-0.34	0.0073

Fatty acids			
Polyunsaturated fatty acids	0.35	-0.34	0.007
Saturated fatty acids	0.34	-0.33	0.0086
Total fatty acids	0.33	-0.32	0.0093
Omega-6 fatty acids	0.35	-0.33	0.01
Linoleic acid	0.32	-0.31	0.0229
Omega-3 fatty acids	0.12	-0.24	0.0261
Branched-chain amino acids			
Leucine	0.15	-0.14	0.0478
Fluid balance			
Albumin	0.33	-0.32	0.0037
Relative lipoprotein lipid concentrations			
Cholesterol to total lipids ratio in L-LDL	0.33	-0.32	0.0097
Cholesteryl esters to total lipids ratio in L-LDL	0.32	-0.31	0.0153
Phospholipids to total lipids ratio in L-LDL	-0.3	0.29	0.0221
Cholesterol to total lipids ratio in L-HDL	-0.24	0.23	0.0421

C – cholesterol; CE – cholesteryl esters; FC – free cholesterol; HC – healthy controls; IDL – intermediate-density lipoprotein; L- – large; -L – total lipids; LDL – low-density lipoprotein; LP – lichen planus; M- – medium; -P – particles; PL – phospholipids; S- – small; XL- – very large; XS- – very small; XXL- – extremely large.

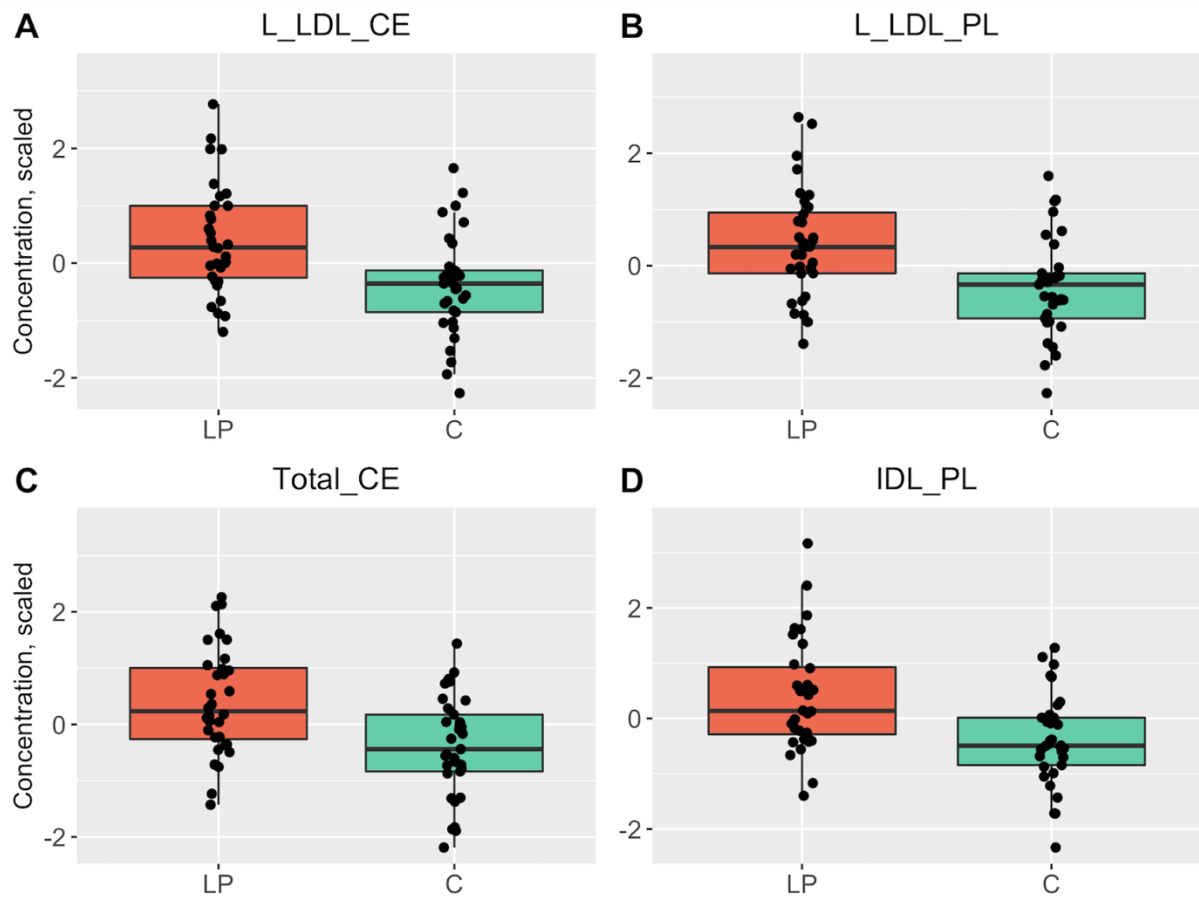


Figure S1. Boxplots of the metabolites and lipoprotein particles that had statistically significant differences between the blood samples of LP patients and HC.

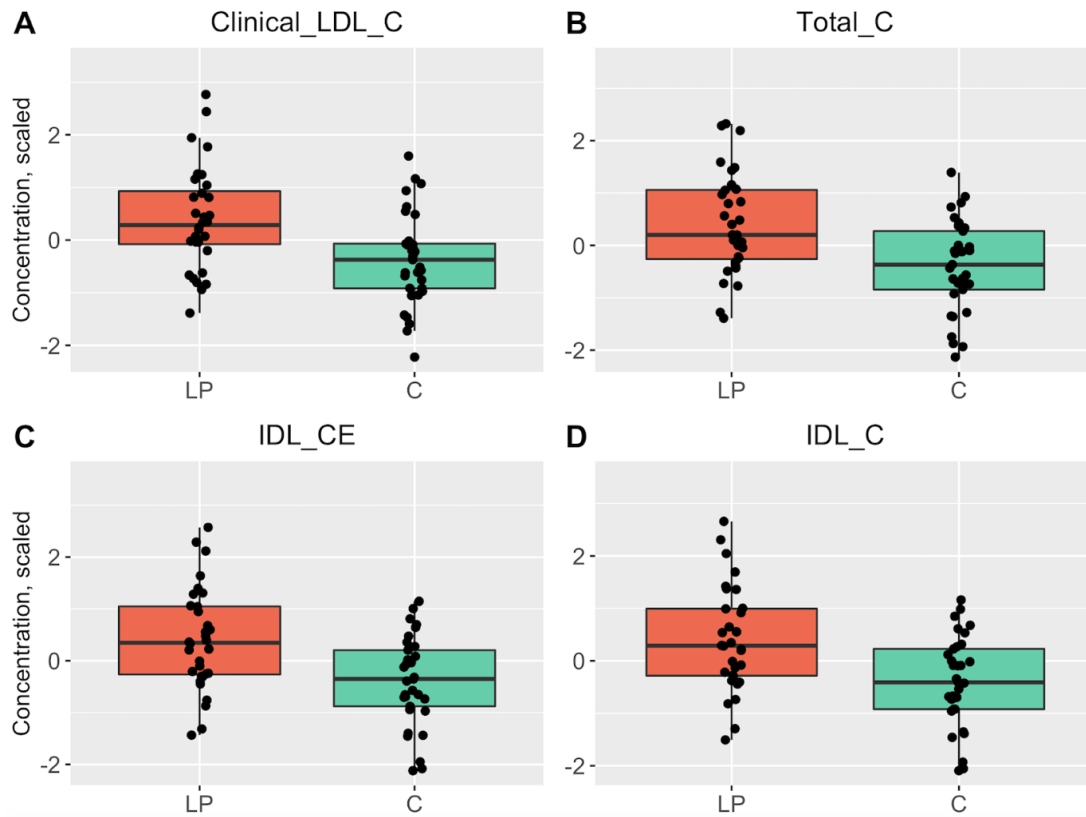


Figure S2. Boxplots of the metabolites and lipoprotein particles that had statistically significant differences between the blood samples of LP patients and HC.

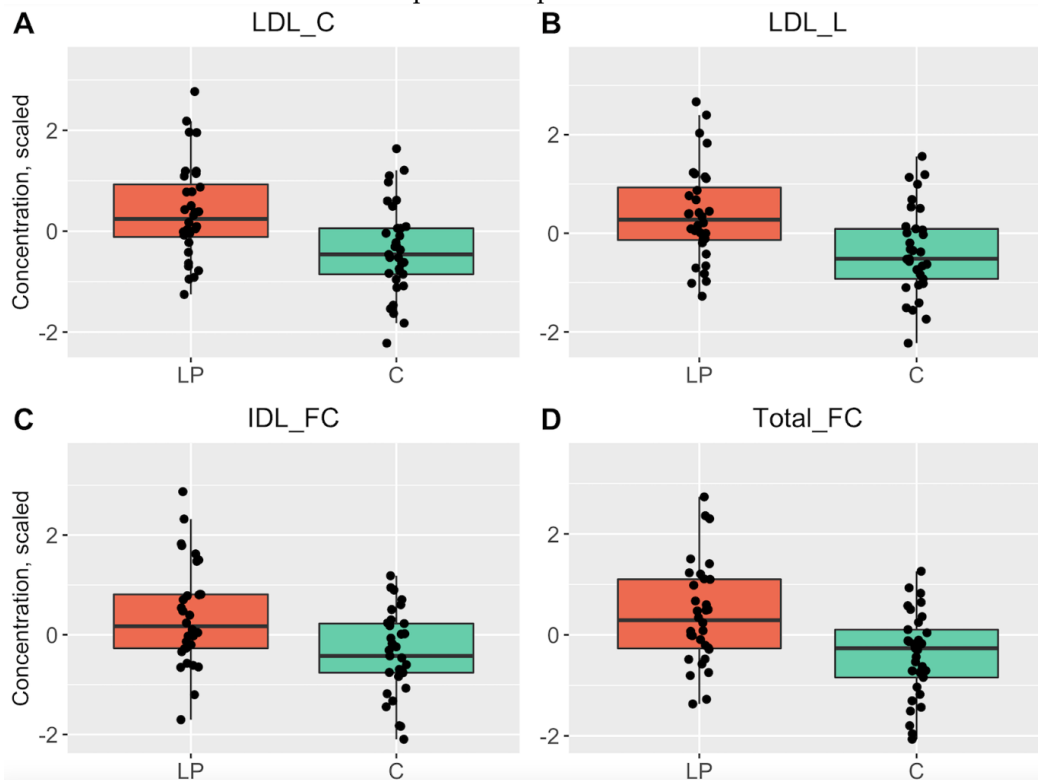


Figure S3. Boxplots of the metabolites and lipoprotein particles that had statistically significant differences between the blood samples of LP patients and HC.