

**S1 File. Linear regression analyses between traditional cardiovascular risk factors and body composition in early arthritis patients, stratified for gender and corrected for age, smoking status and NSAID use.**

Females, n=220

	FMI	Percentages of fat distributed to the trunk	Android to gynoid fat mass ratio	ALMI
	B (CI) and p-value	B (CI) and p-value	B (CI) and p-value	B (CI) and p-value
Systolic BP, mmHg‡	0.08 (0.04-0.13) <0.001*	0.08 (0.03-0.13) 0.004*	<0.01 (0.00-0.00) 0.003*	0.01 (0.00-0.02) 0.004*
Diastolic BP, mmHg‡	0.16 (0.10-0.23) <0.001*	0.12 (0.04-0.21) 0.004*	<0.01 (0.00-0.01) 0.003*	0.02 (0.01-0.03) 0.008*
Total Cholesterol, mmol/l†	-0.12 (-0.90-0.66) 0.759	1.18 (0.27-2.09) 0.012*	0.03 (0.01-0.06) 0.003*	-0.09 (-0.23-0.04) 0.168
Triglycerides, mmol/l†	0.98 (-0.47-2.44) 0.182	4.06 (2.42-5.70) <0.001*	0.12 (0.08-0.16) <0.001*	-0.02 (-0.26-0.22) 0.847
HDL, mmol/l†	-2.37 (-4.2-0.61) 0.009*	-3.18 (-5.27- -1.01) 0.003*	-0.09 (-0.14- -0.04) <0.001*	-0.31 (-0.62-0.00) 0.050
LDL, mmol/l†	0.31 (-0.54-1.17) 0.472	1.46 (0.47-2.45) 0.004*	0.04 (0.02-0.06), 0.001*	-0.03 (-0.18-0.12) 0.732
TChol: HDL ratio†	0.38 (-0.25-1.01) 0.234	1.47 (0.76-2.19) <0.001*	0.04 (0.02-0.06) <0.001*	0.03 (-0.08-0.13) 0.649

Males, n=97

	FMI	Percentages of fat distributed to the trunk	Android to gynoid fat mass ratio	ALMI
	B (CI) and p-value	B (CI) and p-value	B (CI) and p-value	B (CI) and p-value
Systolic BP, mmHg ‡	0.06 (-0.01-0.12) 0.071	0.06 (-0.03-0.15) 0.182	<0.01 (0.00-0.01) 0.137	0.01 (-0.01-0.03) 0.168
Diastolic BP, mmHg‡	0.14 (0.01-0.27) 0.040	0.10 (-0.09-0.29) 0.276	<0.01 (0.00-0.01) 0.240	0.02 (-0.01-0.05) 0.236
Total Cholesterol, mmol/l †	0.29 (-0.90-1.48) 0.630	2.01 (0.30-3.73) 0.022*	0.07 (0.01-0.12) 0.013*	-0.01 (-0.33-0.30) 0.929
Triglycerides, mmol/l†	2.09 (0.27-3.91) 0.025*	5.81 (3.29-8.34) <0.001*	0.15 (0.07-0.22) <0.001*	-0.10 (-0.60-0.39) 0.677
HDL, mmol/l†	-3.11 (-6.22-0.01) 0.050	-4.53 (-9.17-0.12) 0.056	-0.15 (-0.28- -0.01) 0.040	-0.23 (-1.07-0.60) 0.577
LDL, mmol/l†	0.55 (-0.86-1.95) 0.437	2.23 (0.24-4.21) 0.028	0.08 (0.02-0.14) 0.007*	0.07 (-0.30-0.43) 0.723
TChol: HDL ratio†	1.04 (0.25-1.82) 0.011*	1.96 (0.82-3.10) 0.001*	0.06 (0.03-0.10) <0.001*	0.10 (-0.11-0.32) 0.351

ALMI: appendicular lean mass index, B: beta (1 point increase in blood pressure or lipid profile is X change in FMI, percentages of fat distributed to the trunk, android to gynoid fat mass ratio or LMI), BP: blood pressure, CI: confidence interval, FMI: fat mass index, HDL: high-density lipoprotein, LDL: low-density lipoprotein, mmHg: millimetre mercury, mmol/l: millimole/liter, NSAID: non-steroidal anti-inflammatory drugs, TChol: total cholesterol

‡Patients without antihypertensives

†Patients without statins

\*significant results at the 0.05 false discovery rate for 56 tests.