Linear associations to BMI
Branched−chain amino acids
Isoleucine
Leucine
Valine
Aromatic amino acids
Phenylalanine
Tyrosine
Histidine
Other amino acids
Alanine
Glutamine
Glycine
Ketone bodies
Acetoacetate
3−hydroxybutyrate
Miscellaneous
Creatinine
Albumin
Acetate
Citrate
Inflammation
Glycoprotein acetyls
Fatty acids
Total fatty acids
Degree of unsaturation
Saturated fatty acids
Monounsaturated fatty acids
Polyunsaturated fatty acids
Omega−6 fatty acids
Linoleic acid
Omega−3 fatty acids
Docosahexaenoic acid
Total cholesterol in lipoproteins
Extremely large VLDL
Very large VLDL
Large VLDL
Medium VLDL
Small VLDL
Very small VLDL
IDL
Large LDL
Medium LDL
Small LDL
Very large HDL
Large HDL
Medium HDL
Small HDL
Triglycerides in lipoproteins
Extremely large VLDL
Very large VLDL
Large VLDL
Medium VLDL
Small VLDL
Very small VLDL
IDL
Large LDL
Medium LDL
Small LDL
Very large HDL
Large HDL
Medium HDL
Small HDL
−0.05
0.00
0.05
0.10
SD difference (95% CI)
Phospholipids
Sphingomyelins
Total cholines
Phosphatidylcholines
Total phosphoglycerides
Triglycerides / phosphoglycerides
Composite lipid measures
Total cholesterol
Cholesterol in VLDL
Cholesterol in LDL
Cholesterol in HDL
Cholesterol in HDL2
Cholesterol in HDL3
Esterified cholesterol
Free cholesterol
Remnant cholesterol
Total triglycerides
Triglycerides in VLDL
Triglycerides in LDL
Triglycerides in HDL
Glycolysis−related metabolites
Lactate
Glucose
Pyruvate
Glycerol
Fatty acid ratios
Saturated fatty acids (%)
Monounsaturated fatty acids (%)
Polyunsaturated fatty acids (%)
Omega−6 fatty acids (%)
Linoleic acid (%)
Omega−3 fatty acids (%)
Docosahexaenoic acid (%)
Total cholesterol in lipoproteins (%)
Extremely large VLDL
Very large VLDL
Large VLDL
Medium VLDL
Small VLDL
Very small VLDL
IDL
Large LDL
Medium LDL
Small LDL
Very large HDL
Large HDL
Medium HDL
Small HDL
Triglycerides in lipoproteins (%)
Extremely large VLDL
Very large VLDL
Large VLDL
Medium VLDL
Small VLDL
Very small VLDL
IDL
Large LDL
Medium LDL
Small LDL
Very large HDL
Large HDL
Medium HDL
Small HDL
−0.05
0.00
0.05
0.10
SD difference (95% CI)
cohort1
cohort2

Linear associations to BMI
Free cholesterol in lipoproteins
Free cholesterol in lipoproteins (%)
Cholesterol esters in lipoproteins
Cholesterol esters in lipoproteins (%)
Phospholipids in lipoproteins
Phospholipids in lipoproteins (%)
Total lipids in lipoproteins
Concentration of lipoproteins
Apolipoproteins
Lipoprotein particle size
Extremely large VLDL
Very large VLDL
Large VLDL
Medium VLDL
Small VLDL
Very small VLDL
IDL
Large LDL
Medium LDL
Small LDL
Very large HDL
Large HDL
Medium HDL
Small HDL
Apo B
Apo A1
Apo B / Apo A1
VLDL particle size
LDL particle size
HDL particle size
−0.05
0.00
0.05
0.10
SD difference (95% CI)
cohort1
cohort2