

Supplementary materials

Table S1. OGTT and HOMA IR values in the groups with various ranges of LDL-cholesterol

OGTT values* for LDL-cholesterol concentration range 0.46–2.45 mmol/l					
OGTT parameter	After fasting	60 minutes	120 minutes	Area of parameter	HOMA IR
Glucose (mmol/l)	5.3 ± 0.6	8.1 ± 1.9	6.2 ± 1.8	19.6 ± 3.6	2.6 ± 6.8
Insulin (mIU/l)	10.9 ± 29.3	38.4 ± 35.4	61.2 ± 45.7	110.2 ± 84.8	
C-peptide (pmol/l)	743.3 ± 478.6	2308.0 ± 1115.3	2937.0 ± 1205.3	5988.2 ± 2465.6	
OGTT values* for LDL-cholesterol concentration range 2.46–3.00 mmol/l					
OGTT parameter	After fasting	60 minutes	120 minutes	Area of parameter	HOMA IR
Glucose (mmol/l)	5.4 ± 0.6	8.3 ± 1.9	6.3 ± 1.6	20.0 ± 3.6	2.8 ± 7.7
Insulin (mIU/l)	11.2 ± 31.3	41.2 ± 35.7	67.9 ± 48.0	120.3 ± 88.1	
C-peptide (pmol/l)	754.9 ± 542.3	2367.7 ± 1017.6	3040 ± 1127.0	6163.6 ± 2281.0	
OGTT values* for LDL-cholesterol concentration range 3.01–3.59 mmol/l					
OGTT parameter	After fasting	60 minutes	120 minutes	Area of parameter	HOMA IR
Glucose (mmol/l)	5.5 ± 0.6	8.6 ± 1.9	6.7 ± 1.8	20.8 ± 3.8	2.7 ± 6.5
Insulin (mIU/l)	10.9 ± 24.9	49.9 ± 50.7	70.9 ± 54.0	131.6 ± 103.7	
C-peptide (pmol/l)	823.5 ± 605.8	2611.2 ± 1218.5	3129.4 ± 1174.9	6564.2 ± 2582.8	
OGTT values* for LDL-cholesterol concentration range 3.60–7.18 mmol/l					
OGTT parameter	After fasting	60 minutes	120 minutes	Area of parameter	HOMA IR
Glucose (mmol/l)	5.5 ± 0.9	8.9 ± 2.1	6.8 ± 2.1	21.2 ± 4.6	3.4 ± 8.5
Insulin (mIU/l)	13.5 ± 33.9	54.3 ± 48.4	81.7 ± 58.2	149.4 ± 109.1	
C-peptide (pmol/l)	933.3 ± 680.1	2811.4 ± 1162.4	3435.8 ± 1249.3	7180.5 ± 2609.1	

(*), mean ± standard deviation; OGTT, oral glucose tolerance test; LDL, low density lipoprotein; HOMA IR Index, Homeostasis Model Assessment of Insulin Resistance

Table S2. Age ranges according to LDL-cholesterol concentration levels

LDL-cholesterol concentration range (mmol/l)	Age range (y)
0.46–2.45 mmol/l	18–73
2.46–3.00 mmol/l	17–71
3.01–3.59 mmol/l	20–75
3.60–7.18 mmol/l	19–71