

Supplementary Table 1. Multivariate analysis of the association of changes in plasma sterol with changes in total and LDL cholesterol levels during statin treatment.

	Standardized Beta Coefficient	p value
<i>Δ Total cholesterol model*</i>		
Age, y	-0.165	0.056
Gender, m/f	-0.136	0.112
Treatment, rosuvastatin / atorvastatin	0.015	0.859
Δ Lathosterol, μmol/L	0.372	<0.001
Δ Campesterol, μmol/L	0.254	0.003
<i>Δ LDL cholesterol model†</i>		
Age, y	-0.164	0.069
Gender, m/f	-0.117	0.190
Treatment, rosuvastatin / atorvastatin	0.051	0.576
Δ Lathosterol, μmol/L	0.304	0.001
Δ Campesterol, μmol/L	0.255	0.005

In the linear regression models, changes in total cholesterol (in mg/dL) served as outcome variable, while age, gender, statin treatment, total cholesterol levels at baseline and changes in both the absolute levels of lathosterol and campesterol served as independent variables. Adjusted R squared * = 0.418

Supplementary Table 2. Multivariate analyses of the association of baseline plasma sterol levels with changes in total cholesterol and LDL cholesterol levels during statin treatment.

	Standardized Beta Coefficient	p value
<i>Δ Total cholesterol model*</i>		
Age, y	-0.157	0.051
Gender, m/f	0.093	0.255
Treatment, rosuvastatin / atorvastatin	-0.014	0.856
Baseline total cholesterol, mg/dL	-0.618	<0.001
Baseline lathosterol, μmol/L	-0.003	0.974
Baseline campesterol, μmol/L	0.026	0.771
Baseline cholestanol, μmol/L	0.054	0.540
<i>Δ LDL cholesterol model†</i>		
Age, y	-0.152	0.047
Gender, m/f	0.042	0.577
Treatment, rosuvastatin / atorvastatin	0.161	0.827
Baseline LDL cholesterol, mg/dL	-0.673	<0.001
Baseline lathosterol, μmol/L	0.023	0.760
Baseline campesterol, μmol/L	0.067	0.437
Baseline cholestanol, μmol/L	0.001	0.988

In the linear regression models, changes in total cholesterol and LDL cholesterol (in mg/dL) respectively served as outcome variables, while age, gender, statin treatment and baseline levels of total cholesterol (in the total cholesterol model), LDL cholesterol (in the LDL cholesterol model), lathosterol, campesterol and cholestanol served as independent variables. Adjusted R squared * = 0.347, † = 0.421