

Supplementary Methods

1. Detailed processing of metabolomic biomarkers

In the version of the UK Biobank NMR metabolomics dataset used in this study, 249 metabolic biomarkers were available, including 168 absolute concentration measures and 81 derived ratio measures, quantified from baseline EDTA plasma samples from approximately 491000 participants. We used the “ukbnmr” R package to remove technical variation[1]. During this process, 76 additional biomarker ratios, which were not directly included in the original dataset but had potential biological significance, were also generated, resulting in a total of 325 NMR metabolic traits being included in the analysis[1]. The inclusion criteria and rationale behind these additional 76 biomarker ratios can be summarized as follows: (1) supplementing 20 additional lipoprotein fractions for three lipoprotein classes (low-density lipoprotein, very-low-density lipoprotein, and high-density lipoprotein) and for total serum lipids based on the original 14 lipoprotein subclasses; (2) decomposing total cholesterol into free cholesterol and esterified cholesterol and subsequently deriving more refined ratios for each lipoprotein class and subclass; (3) decomposing polyunsaturated fatty acids into omega-3 fatty acids and omega-6 fatty acids and subsequently deriving more refined ratios composed of omega-3 and omega-6 fatty acids[2].

Before analysis, all metabolic indicators underwent standard preprocessing, including natural logarithmic transformation using $\ln(x + 1)$ to reduce skewness, followed by Z-score standardization to place all biomarkers on a common scale.

2. Detailed MetRS development

Cox proportional hazards models were fitted for all 325 metabolic indicators in the full analytic population, adjusting for age at recruitment, sex, geographical region, ethnic background, and BMI. False discovery rate correction was applied for multiple testing, and indicators with a two-sided Q value < 0.05 were retained. A total of 115 metabolic indicators were included as candidate

features for MetRS development.

The 115 candidates were ranked according to gain-based feature importance from a LightGBM classifier fitted in the full analytic population. Incident CRC during follow-up was treated as a binary outcome. Participants who developed CRC were coded as cases, whereas those who remained free of CRC before censoring or the end of follow-up were coded as non-cases.

Beginning with the highest-ranked indicator, metabolites were added sequentially. For each candidate feature set, a complete 10-fold geographical IECV was performed. In each iteration, nine geographical clusters were used for model training and the remaining cluster was reserved for prediction. The training data were divided into internal training and validation subsets at a ratio of 8:2 for hyperparameter optimization, without using the held-out geographical cluster. After all 10 iterations, the out-of-fold predicted probabilities were pooled and the AUC was calculated. The AUC of each expanded feature set was compared with that of the preceding feature set using the DeLong test. Feature addition was stopped when three consecutive newly added metabolites failed to produce a statistically significant improvement in AUC. Seven metabolites were therefore retained, and the MetRS was defined using the out-of-fold predicted probabilities from the final LightGBM model. The candidate hyperparameter grid and selected hyperparameters are reported in Table S6.

SHapley Additive exPlanations were used to evaluate the direction and relative contribution of the retained metabolites. Missing metabolomic values were not imputed and were handled internally by LightGBM during training and prediction. The missing percentage for each metabolic marker is reported in the “Missingness (%)” column of Table S3.

As a secondary stability analysis, LightGBM-based feature selection was repeated separately using the training data from each of the 10 IECV folds. The selection frequency of each metabolite included in the final MetRS was then summarized across folds and is reported in Table S8.

3. Detailed IECV implementation and model evaluation

The geographical clustering scheme for IECV was defined according to the locations of the UK Biobank assessment centres (Table 1, Geographical region). In each iteration, 9 clusters were used as the training set and the remaining cluster served as the external test set[3]. Predictions were generated for the held-out cluster in each iteration. This procedure was repeated until each cluster had served once as the external test set. Using the individual-level predictions generated during IECV, region-level estimates of the Harrell's C-index and calibration slope for each model were pooled using random effects meta-analysis with the Hartung-Knapp-Sidik-Jonkman method[4,5].

To further evaluate predictive performance at different time points, we calculated time-dependent AUCs at 5, 10, and 15 years and plotted the corresponding calibration curves. Clinical utility was compared using decision curve analysis. To quantify the improvement in predictive performance attributable to additional predictors, we compared the continuous net reclassification improvement and integrated discrimination improvement before and after adding the PRS and/or the MetRS, with the continuous net reclassification improvement reported separately for the event and non-event components. These reclassification metrics were estimated at the prespecified time points of 5, 10, and 15 years within a survival outcome framework. A total of 115 metabolic indicators were included as candidate features for MetRS development (Supplementary Figure 9).

References

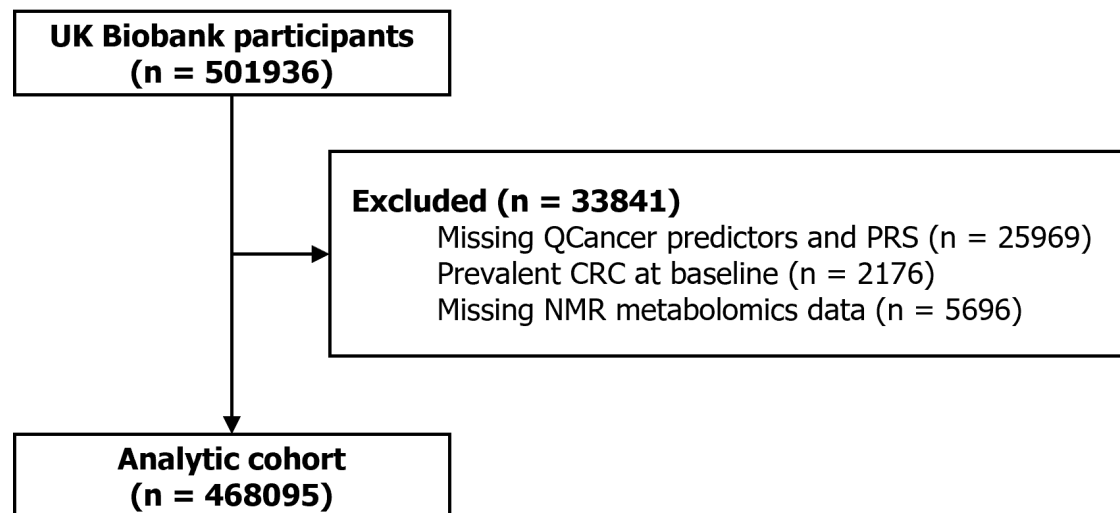
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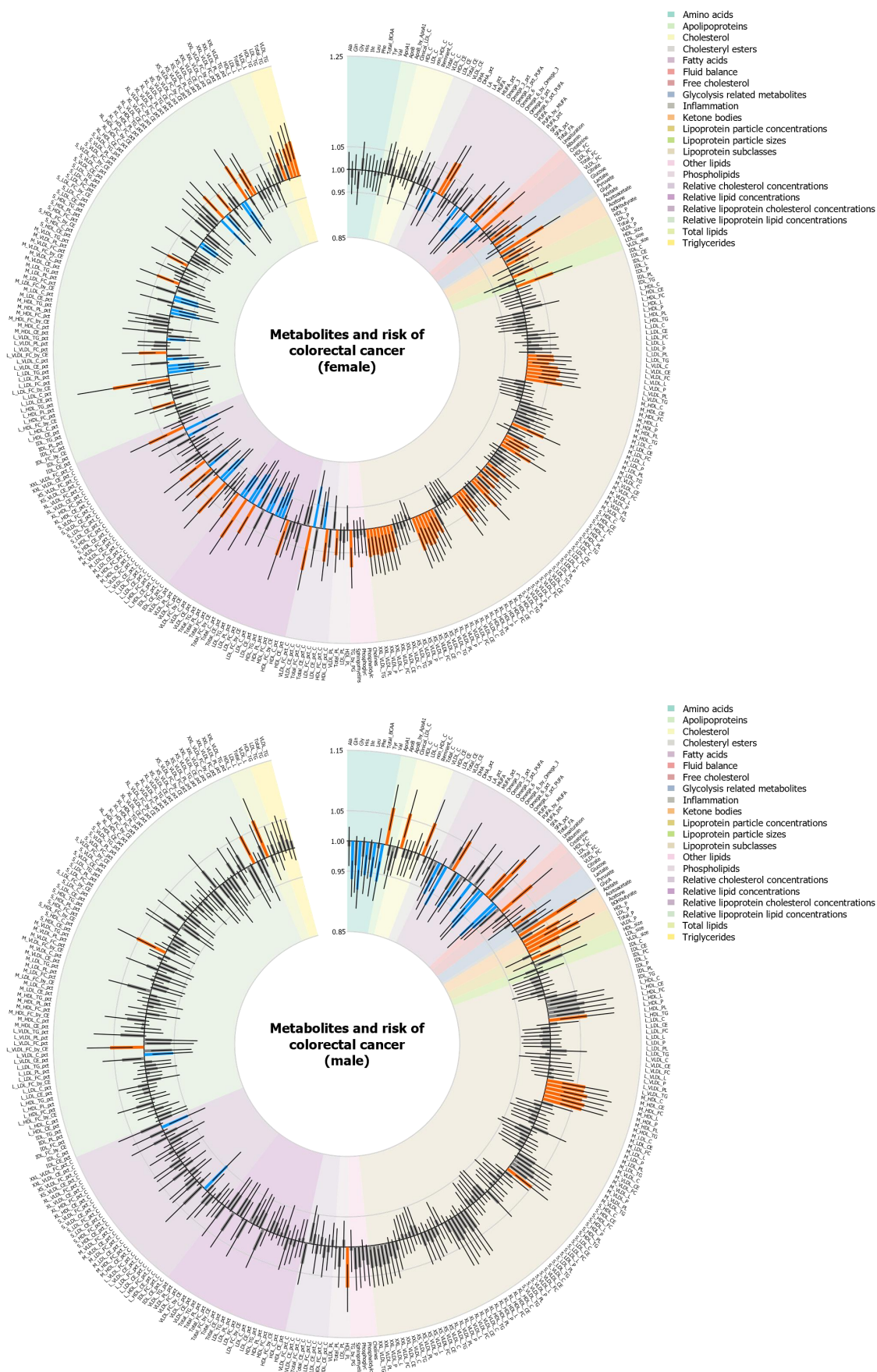
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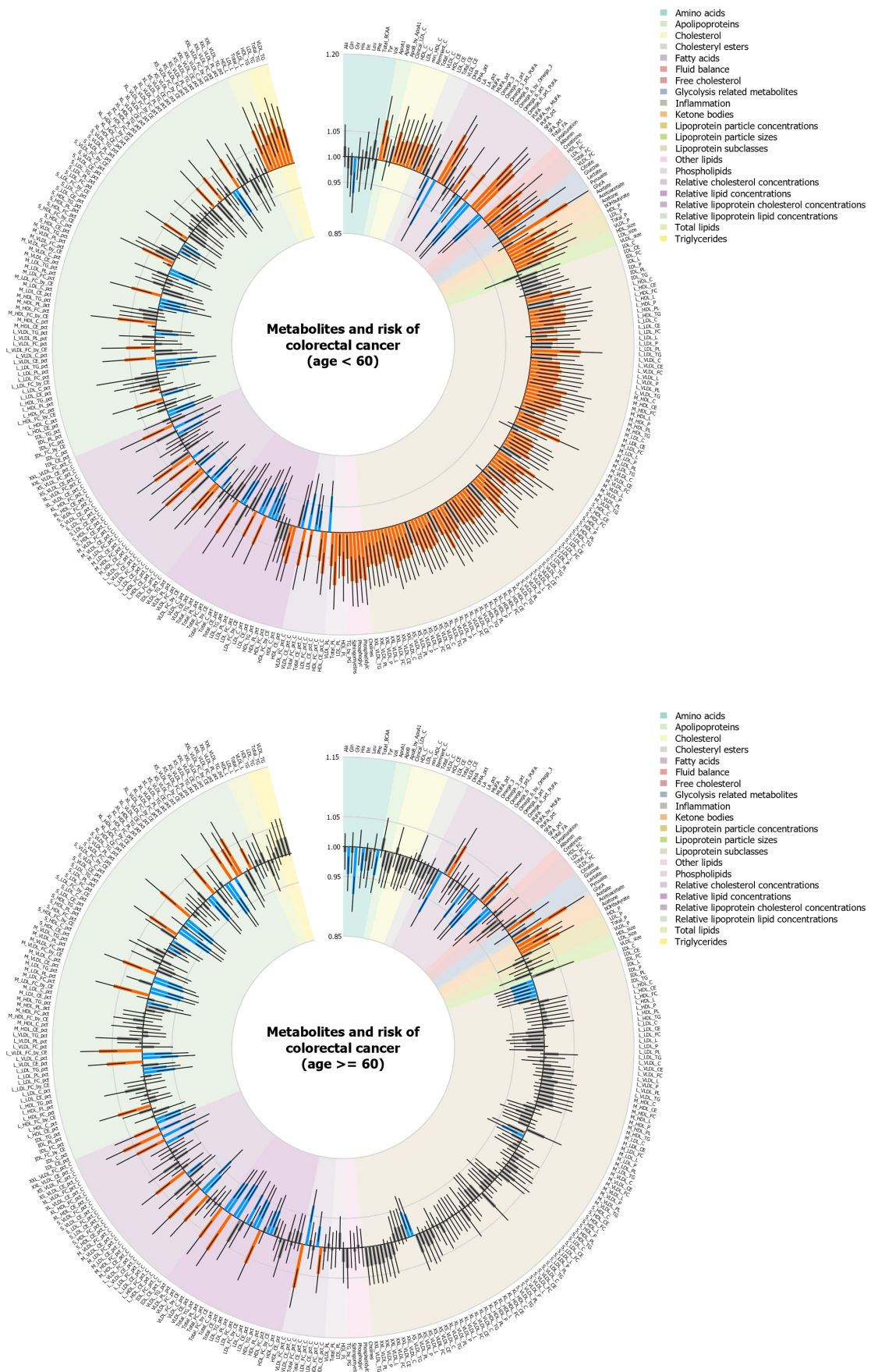
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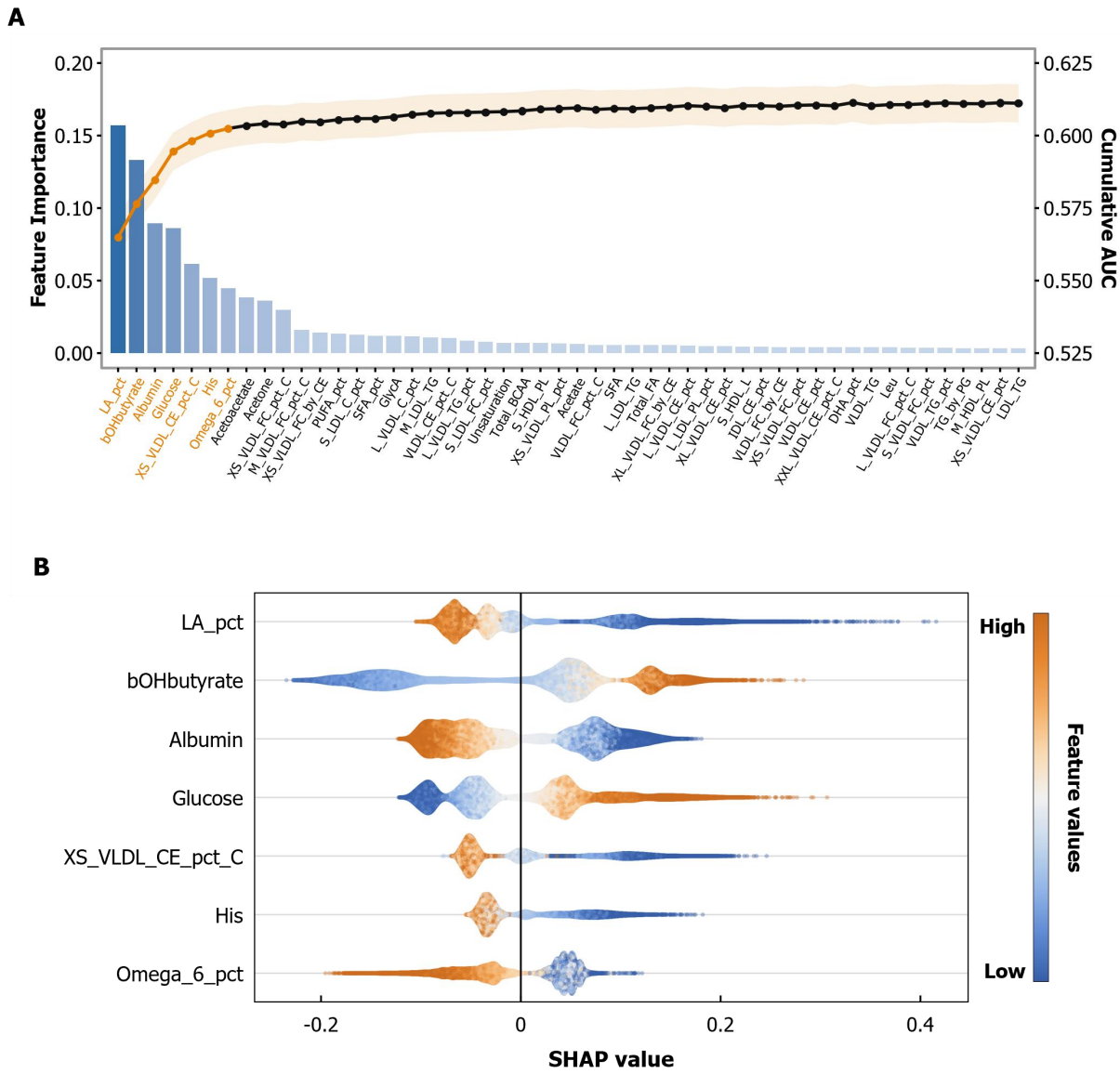
Supplementary Figure 1 Flow diagram of participant selection.



Supplementary Figure 2 Results of associations between plasma metabolites and incident colorectal cancer stratified by sex.



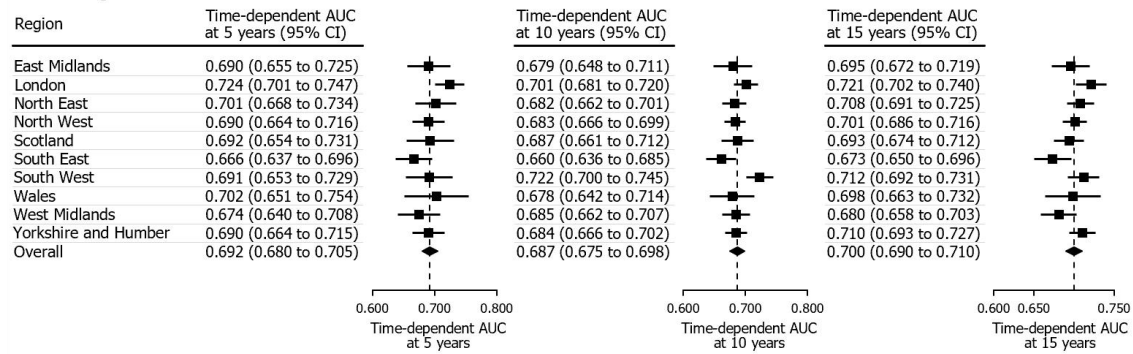
Supplementary Figure 3 Results of associations between plasma metabolites and incident colorectal cancer stratified by age.



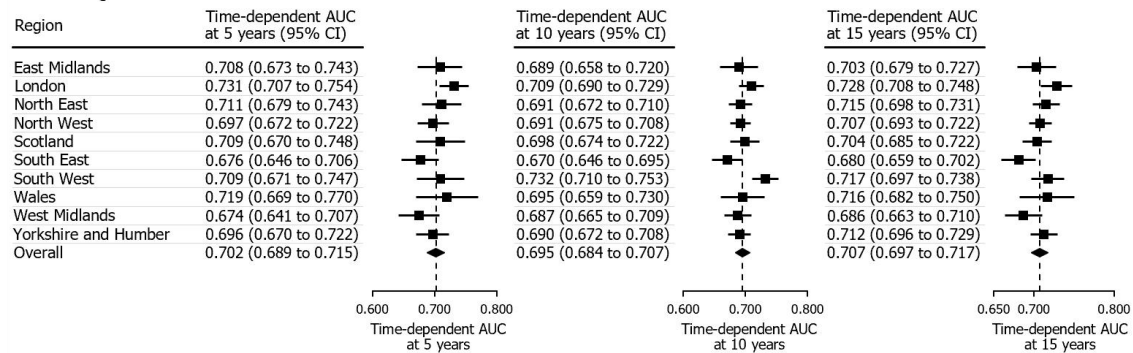
Supplementary Figure 4 Metabolite importance ranking and SHAP visualization. A: The 115 metabolic indicators associated with incident CRC after FDR correction were ranked according to LightGBM gain-based importance and added sequentially to the model, with the top 50 indicators displayed. Bars indicate feature importance, and the line indicates the AUC calculated from pooled out-of-fold predictions generated through 10-fold geographical IECV. Feature addition was stopped when three consecutive additions failed to significantly improve the AUC according to DeLong tests. Retained features are highlighted. B: SHAP values for the retained metabolic features. Positive SHAP values indicate contributions toward higher predicted CRC risk. AUC: area under the curve; CRC: colorectal cancer; FDR: false discovery rate; IECV: internal-external cross-validation; LightGBM: Light Gradient Boosting Machine; MetRS: metabolomic risk score; SHAP: Shapley additive explanations.

A

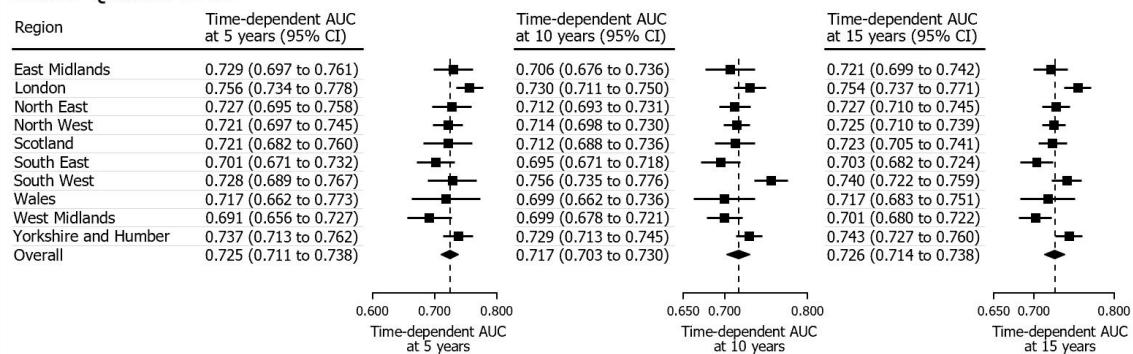
Model: QCancer

**B**

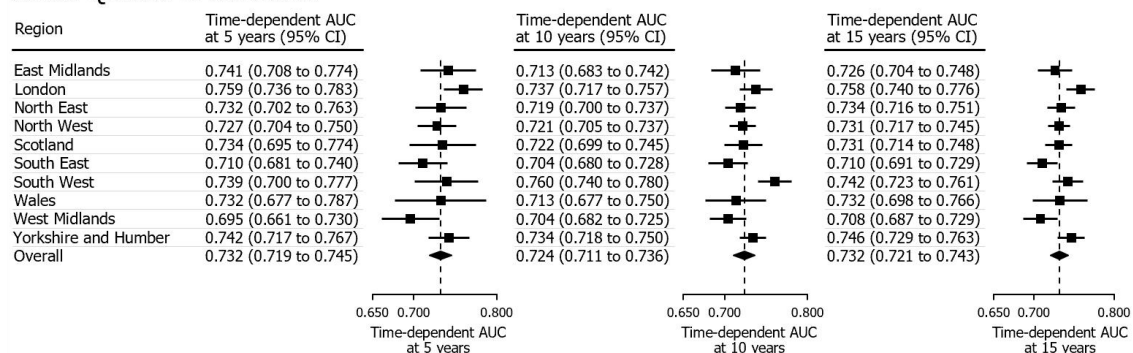
Model: QCancer+MetRS

**C**

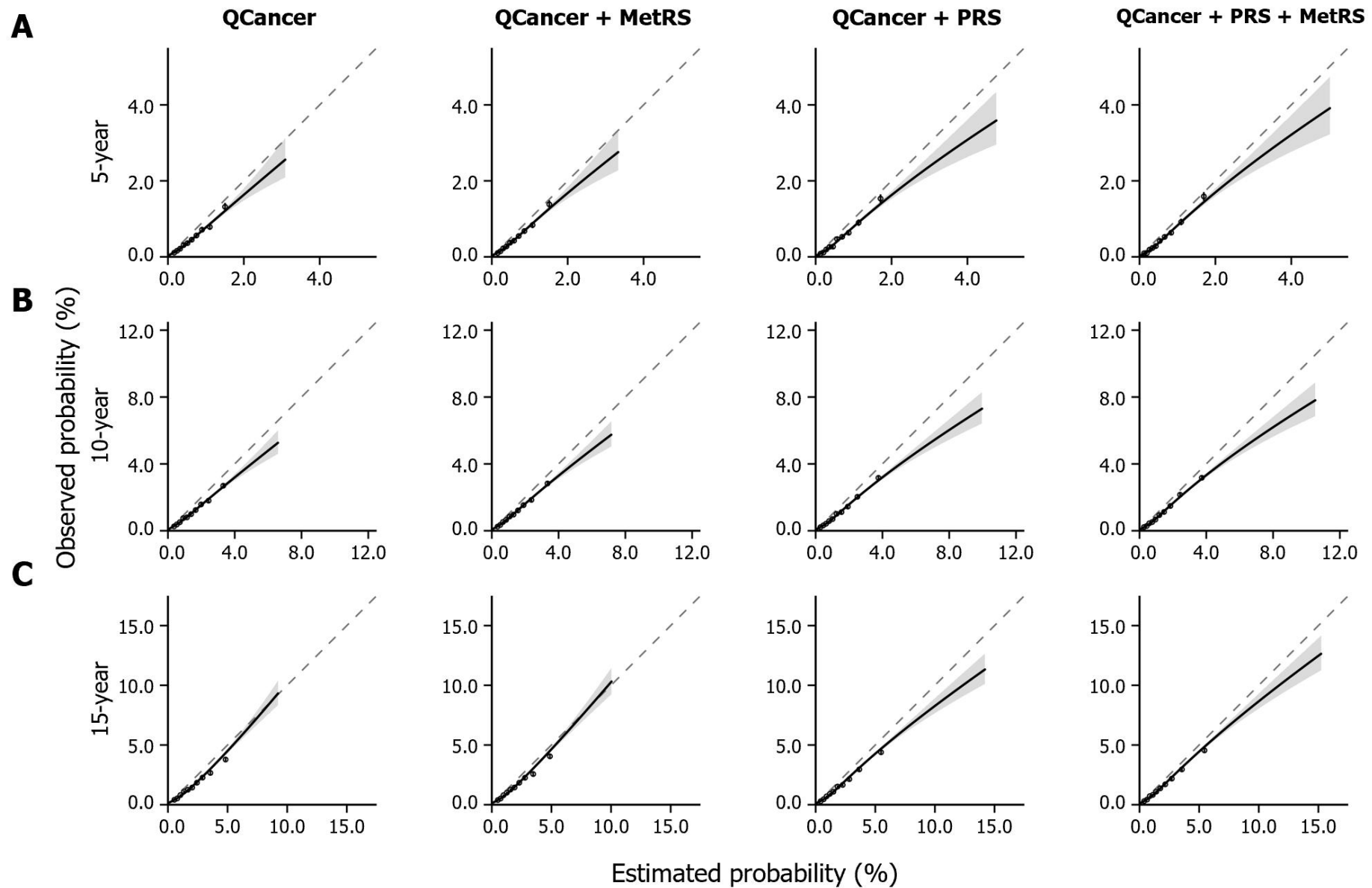
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**D**

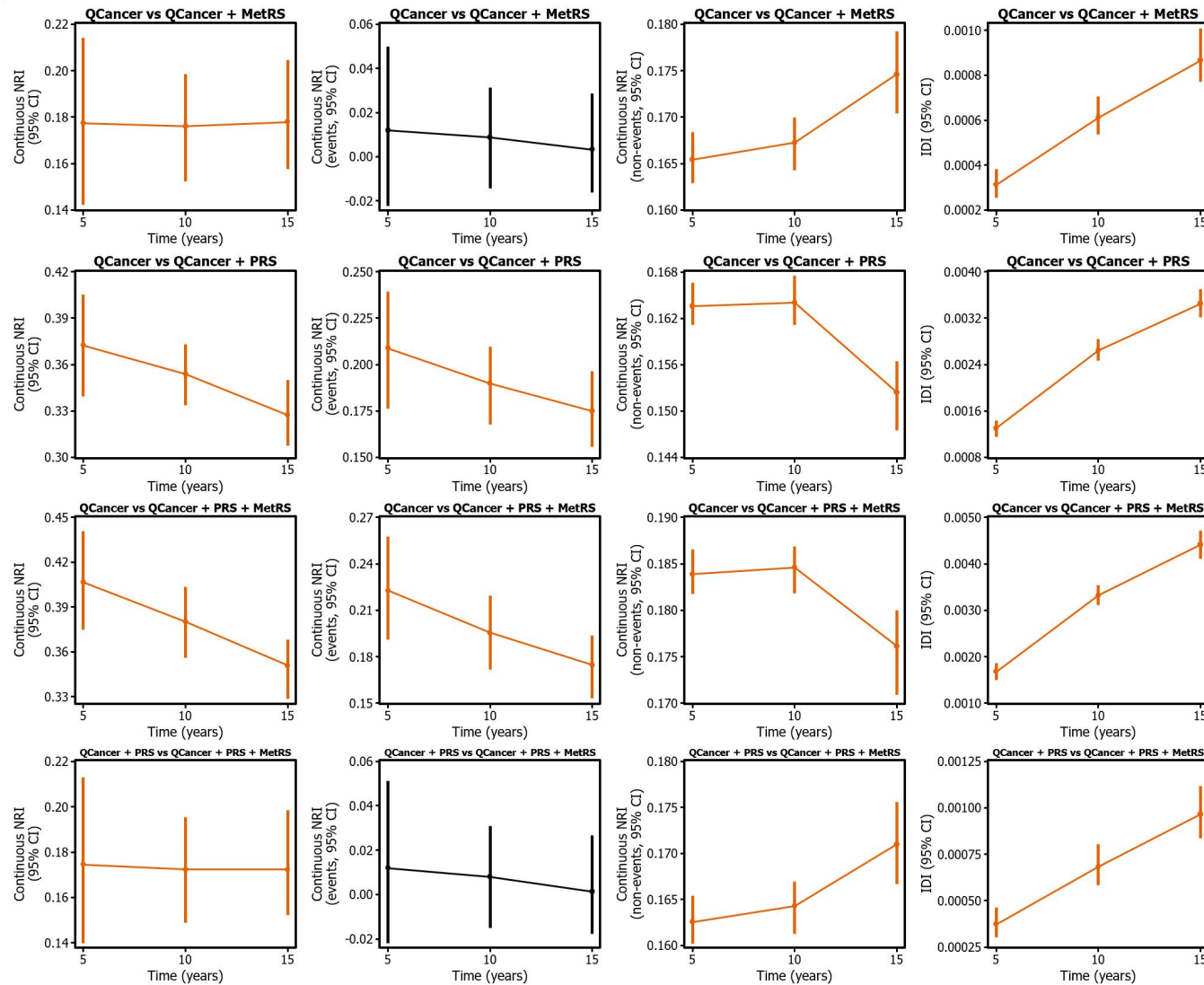
Model: QCancer+PRS+MetRS



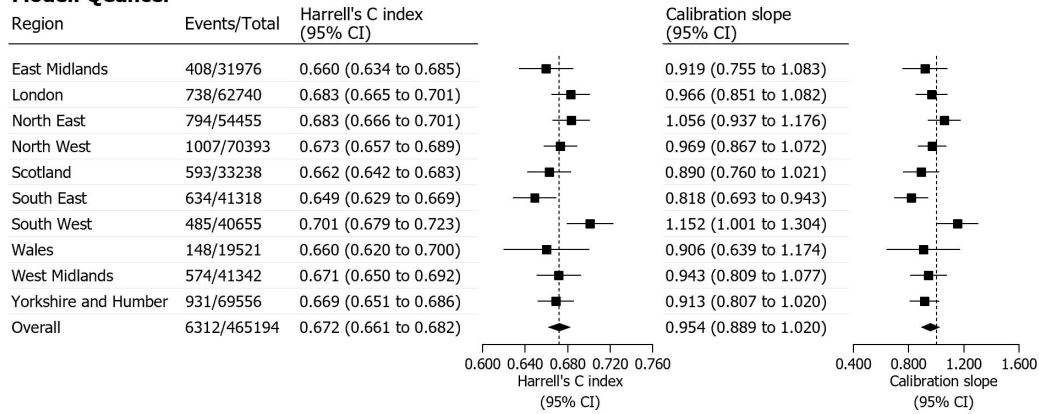
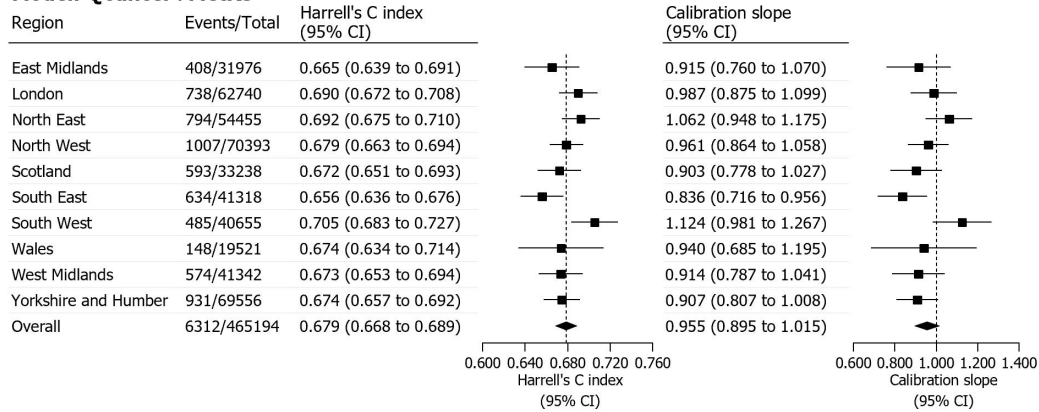
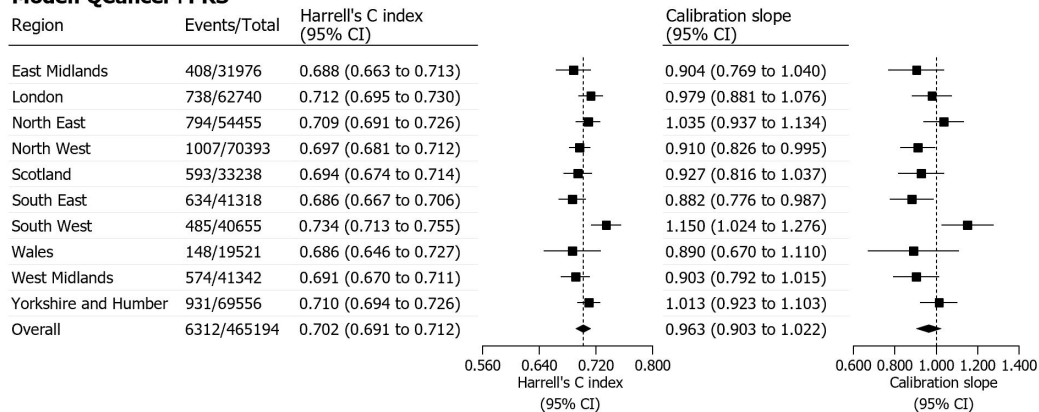
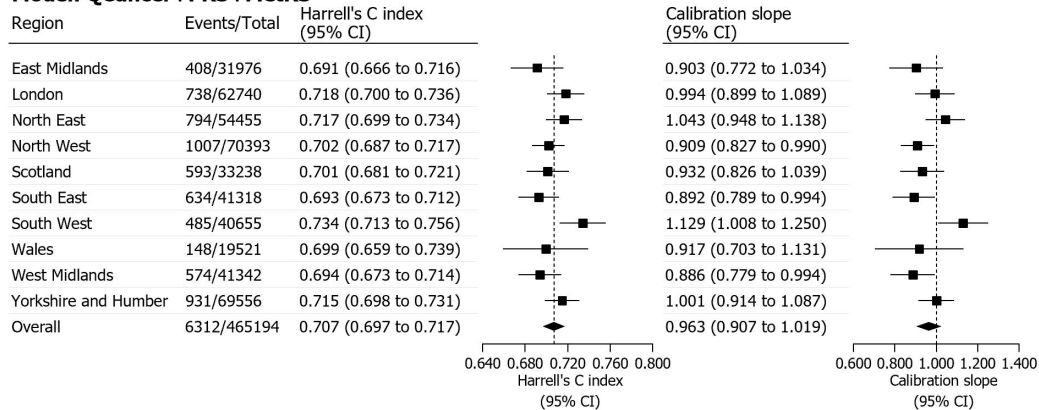
Supplementary Figure 5 Regional estimates and pooled overall meta-analytic estimates of time-dependent AUC at 5, 10, and 15 years for each model. AUC: area under the curve; CI: confidence interval; MetRS: metabolomic risk score; PRS: polygenic risk score. QCancer denotes the adapted QCancer model used in this study.



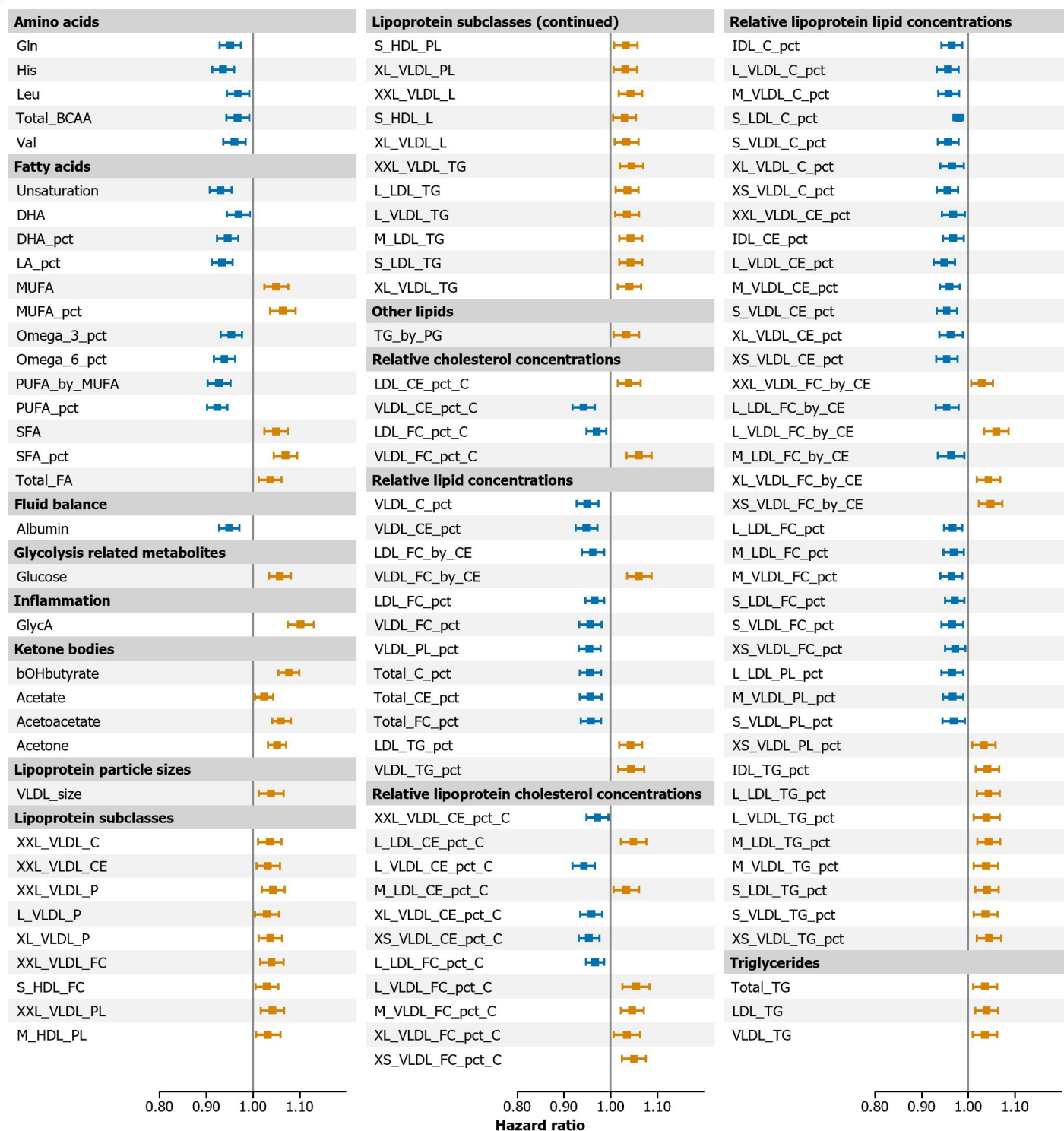
Supplementary Figure 6 Calibration curves for the four CRC prediction models at 5, 10, and 15 years. Predicted probabilities were obtained from the IECV procedure. QCancer denotes the adapted QCancer model used in this study. CRC: colorectal cancer; IECV: internal-external cross-validation; MetRS: metabolomic risk score; PRS: polygenic risk score.



Supplementary Figure 7 Net reclassification improvement (NRI) and integrated discrimination improvement (IDI) for pairwise comparisons of colorectal cancer risk prediction models at 5, 10, and 15 years, based on predicted probabilities derived from the internal-external cross-validation (IECV) procedure. Orange indicates statistically significant results, whereas black indicates non-significant results. QCancer denotes the adapted QCancer model used in this study.

A**Model: Qcancer****B****Model: Qcancer+MetRS****C****Model: Qcancer+PRS****D****Model: Qcancer+PRS+MetRS**

Supplementary Figure 8 Regional estimates and pooled overall meta-analytic estimates of Harrell's C-index and calibration slope for each model after excluding participants with less than 2 years of follow-up. Qcancer denotes the adapted Qcancer model used in this study.



Supplementary Figure 9 Forest plots of FDR-significant metabolic indicators associated with incident colorectal cancer risk. The 115 metabolic indicators that remained significantly associated with incident colorectal cancer after false discovery rate (FDR) correction are presented and grouped by metabolic class. Points and horizontal lines represent hazard ratios (HRs) and corresponding 95% confidence intervals (CIs) per 1-standard-deviation increment in each log-transformed and standardized metabolic indicator. Orange points indicate positive associations with colorectal cancer risk, whereas blue points indicate inverse associations. The vertical reference line indicates a hazard ratio of 1.

Supplementary Table 1 UKB Nightingale metabolite measurements and clinical parameters information

Biomarker	Description	Units	Group	Type	UKB Field ID
Ala	Alanine	mmol/ L	Amino acids	Non-derived	23460
Gln	Glutamine	mmol/ L	Amino acids	Non-derived	23461
Gly	Glycine	mmol/ L	Amino acids	Non-derived	23462
His	Histidine	mmol/ L	Amino acids	Non-derived	23463
Ile	Isoleucine	mmol/ L	Amino acids	Non-derived	23465
Leu	Leucine	mmol/ L	Amino acids	Non-derived	23466
Phe	Phenylalanine	mmol/ L	Amino acids	Non-derived	23468
Total_BC AA	Total Concentration of Branched-Chain Amino Acids (Leucine + Isoleucine + Valine)	mmol/ L	Amino acids	Composite	23464
Tyr	Tyrosine	mmol/ L	Amino acids	Non-derived	23469
Val	Valine	mmol/ L	Amino acids	Non-derived	23467
ApoA1	Apolipoprotein A1	g/l	Apolipoprotei ns	Non-derived	23440
ApoB	Apolipoprotein B	g/l	Apolipoprotei ns	Non-derived	23439
ApoB_by_ ApoA1	Apolipoprotein B to Apolipoprotein A1 ratio	ratio	Apolipoprotei ns	Ratio	23441

Clinical_L DL_C	Clinical LDL Cholesterol	mmol/ L	Cholesterol	Non- derived	23404
HDL_C	HDL Cholesterol	mmol/ L	Cholesterol	Composite	23406
LDL_C	LDL Cholesterol	mmol/ L	Cholesterol	Composite	23405
Remnant_ C	Remnant Cholesterol (Non- HDL, Non-LDL - Cholesterol)	mmol/ L	Cholesterol	Composite	23402
Total_C	Total Cholesterol	mmol/ L	Cholesterol	Composite	23400
non_HDL _C	Total Cholesterol Minus HDL-C	mmol/ L	Cholesterol	Composite	23401
VLDL_C	VLDL Cholesterol	mmol/ L	Cholesterol	Composite	23403
HDL_CE	Cholesteryl Esters in HDL	mmol/ L	Cholesteryl esters	Composite	23418
LDL_CE	Cholesteryl Esters in LDL	mmol/ L	Cholesteryl esters	Composite	23417
VLDL_CE	Cholesteryl Esters in VLDL	mmol/ L	Cholesteryl esters	Composite	23416
Total_CE	Total Esterified Cholesterol	mmol/ L	Cholesteryl esters	Composite	23415
Unsaturation	Degree of Unsaturation	degree	Fatty acids	Non- derived	23443
DHA	Docosahexaenoic Acid	mmol/ L	Fatty acids	Non- derived	23450
DHA_pct	Docosahexaenoic Acid to Total Fatty Acids percentage	%	Fatty acids	Percentage	23457
LA	Linoleic Acid	mmol/ L	Fatty acids	Non- derived	23449

LA_pct	Linoleic Acid to Total Fatty Acids percentage	%	Fatty acids	Percentage	23456
MUFA	Monounsaturated Fatty Acids	mmol/L	Fatty acids	Non-derived	23447
MUFA_pct	Monounsaturated Fatty Acids to Total Fatty Acids percentage	%	Fatty acids	Percentage	23454
Omega_3	Omega-3 Fatty Acids	mmol/L	Fatty acids	Non-derived	23444
Omega_3_pct_PUFA	Omega-3 Fatty Acids to Polyunsaturated Fatty Acids percentage	%	Fatty acids	Percentage	Additionally derived
Omega_3_pct	Omega-3 Fatty Acids to Total Fatty Acids percentage	%	Fatty acids	Percentage	23451
Omega_6	Omega-6 Fatty Acids	mmol/L	Fatty acids	Non-derived	23445
Omega_6_by_Omega_3	Omega-6 Fatty Acids to Omega-3 Fatty Acids ratio	ratio	Fatty acids	Ratio	23459
Omega_6_pct_PUFA	Omega-6 Fatty Acids to Polyunsaturated Fatty Acids percentage	%	Fatty acids	Percentage	Additionally derived
Omega_6_pct	Omega-6 Fatty Acids to Total Fatty Acids percentage	%	Fatty acids	Percentage	23452
PUFA	Polyunsaturated Fatty Acids	mmol/L	Fatty acids	Composite	23446
PUFA_by_MUFA	Polyunsaturated Fatty Acids to Monounsaturated Fatty Acids ratio	ratio	Fatty acids	Ratio	23458
PUFA_pct	Polyunsaturated Fatty Acids to Total Fatty Acids percentage	%	Fatty acids	Percentage	23453

SFA	Saturated Fatty Acids	mmol/ L	Fatty acids	Non- derived	23448
SFA_pct	Saturated Fatty Acids to Total Fatty Acids percentage	%	Fatty acids	Percentage	23455
Total_FA	Total Fatty Acids	mmol/ L	Fatty acids	Composite	23442
Albumin	Albumin	g/l	Fluid balance	Non- derived	23479
Creatinine	Creatinine	mmol/ L	Fluid balance	Non- derived	23478
HDL_FC	Free Cholesterol in HDL	mmol/ L	Free cholesterol	Composite	23422
LDL_FC	Free Cholesterol in LDL	mmol/ L	Free cholesterol	Composite	23421
VLDL_FC	Free Cholesterol in VLDL	mmol/ L	Free cholesterol	Composite	23420
Total_FC	Total Free Cholesterol	mmol/ L	Free cholesterol	Composite	23419
Citrate	Citrate	mmol/ L	Glycolysis related metabolites	Non- derived	23473
Glucose	Glucose	mmol/ L	Glycolysis related metabolites	Non- derived	23470
Lactate	Lactate	mmol/ L	Glycolysis related metabolites	Non- derived	23471
Pyruvate	Pyruvate	mmol/ L	Glycolysis related metabolites	Non- derived	23472
GlycA	Glycoprotein Acetyls	mmol/ L	Inflammation	Non- derived	23480

bOHbutyrate	3-Hydroxybutyrate	mmol/ L	Ketone bodies	Non-derived	23474
Acetate	Acetate	mmol/ L	Ketone bodies	Non-derived	23475
Acetoacetate	Acetoacetate	mmol/ L	Ketone bodies	Non-derived	23476
Acetone	Acetone	mmol/ L	Ketone bodies	Non-derived	23477
HDL_P	Concentration of HDL Particles	mmol/ L	Lipoprotein particle concentrations	Composite	23430
LDL_P	Concentration of LDL Particles	mmol/ L	Lipoprotein particle concentrations	Composite	23429
VLDL_P	Concentration of VLDL Particles	mmol/ L	Lipoprotein particle concentrations	Composite	23428
Total_P	Total Concentration of Lipoprotein Particles	mmol/ L	Lipoprotein particle concentrations	Composite	23427
HDL_size	Average Diameter for HDL Particles	nm	Lipoprotein particle sizes	Non-derived	23433
LDL_size	Average Diameter for LDL Particles	nm	Lipoprotein particle sizes	Non-derived	23432
VLDL_size	Average Diameter for VLDL Particles	nm	Lipoprotein particle sizes	Non-derived	23431
XXL_VLDL_C	Cholesterol in Chylomicrons and Extremely Large VLDL	mmol/ L	Lipoprotein subclasses	Composite	23484
IDL_C	Cholesterol in IDL	mmol/ L	Lipoprotein subclasses	Composite	23526
L_HDL_C	Cholesterol in Large HDL	mmol/ L	Lipoprotein subclasses	Composite	23561

L_LDL_C	Cholesterol in Large LDL	mmol/ L	Lipoprotein subclasses	Composite	23533
L_VLDL_C	Cholesterol in Large VLDL	mmol/ L	Lipoprotein subclasses	Composite	23498
M_HDL_C	Cholesterol in Medium HDL	mmol/ L	Lipoprotein subclasses	Composite	23568
M_LDL_C	Cholesterol in Medium LDL	mmol/ L	Lipoprotein subclasses	Composite	23540
M_VLDL_C	Cholesterol in Medium VLDL	mmol/ L	Lipoprotein subclasses	Composite	23505
S_HDL_C	Cholesterol in Small HDL	mmol/ L	Lipoprotein subclasses	Composite	23575
S_LDL_C	Cholesterol in Small LDL	mmol/ L	Lipoprotein subclasses	Composite	23547
S_VLDL_C	Cholesterol in Small VLDL	mmol/ L	Lipoprotein subclasses	Composite	23512
XL_HDL_C	Cholesterol in Very Large HDL	mmol/ L	Lipoprotein subclasses	Composite	23554
XL_VLDL_C	Cholesterol in Very Large VLDL	mmol/ L	Lipoprotein subclasses	Composite	23491
XS_VLDL_C	Cholesterol in Very Small VLDL	mmol/ L	Lipoprotein subclasses	Composite	23519
XXL_VLDL_CE	Cholesteryl Esters in Chylomicrons and Extremely Large VLDL	mmol/ L	Lipoprotein subclasses	Non-derived	23485
IDL_CE	Cholesteryl Esters in IDL	mmol/ L	Lipoprotein subclasses	Non-derived	23527
L_HDL_E	Cholesteryl Esters in Large HDL	mmol/ L	Lipoprotein subclasses	Non-derived	23562
L_LDL_E	Cholesteryl Esters in Large LDL	mmol/ L	Lipoprotein subclasses	Non-derived	23534

L_VLDL_CE	Cholesteryl Esters in Large VLDL	mmol/L	Lipoprotein subclasses	Non-derived	23499
M_HDL_CE	Cholesteryl Esters in Medium HDL	mmol/L	Lipoprotein subclasses	Non-derived	23569
M_LDL_C E	Cholesteryl Esters in Medium LDL	mmol/L	Lipoprotein subclasses	Non-derived	23541
M_VLDL_CE	Cholesteryl Esters in Medium VLDL	mmol/L	Lipoprotein subclasses	Non-derived	23506
S_HDL_C E	Cholesteryl Esters in Small HDL	mmol/L	Lipoprotein subclasses	Non-derived	23576
S_LDL_C E	Cholesteryl Esters in Small LDL	mmol/L	Lipoprotein subclasses	Non-derived	23548
S_VLDL_CE	Cholesteryl Esters in Small VLDL	mmol/L	Lipoprotein subclasses	Non-derived	23513
XL_HDL_CE	Cholesteryl Esters in Very Large HDL	mmol/L	Lipoprotein subclasses	Non-derived	23555
XL_VLDL_CE	Cholesteryl Esters in Very Large VLDL	mmol/L	Lipoprotein subclasses	Non-derived	23492
XS_VLDL_CE	Cholesteryl Esters in Very Small VLDL	mmol/L	Lipoprotein subclasses	Non-derived	23520
XXL_VLDL_P	Concentration of Chylomicrons and Extremely Large VLDL Particles	mmol/L	Lipoprotein subclasses	Non-derived	23481
IDL_P	Concentration of IDL Particles	mmol/L	Lipoprotein subclasses	Non-derived	23523
L_HDL_P	Concentration of Large HDL Particles	mmol/L	Lipoprotein subclasses	Non-derived	23558
L_LDL_P	Concentration of Large LDL Particles	mmol/L	Lipoprotein subclasses	Non-derived	23530
L_VLDL_P	Concentration of Large VLDL Particles	mmol/L	Lipoprotein subclasses	Non-derived	23495

M_HDL_P	Concentration of Medium HDL Particles	mmol/ L	Lipoprotein subclasses	Non- derived	23565
M_LDL_P	Concentration of Medium LDL Particles	mmol/ L	Lipoprotein subclasses	Non- derived	23537
M_VLDL_P	Concentration of Medium VLDL Particles	mmol/ L	Lipoprotein subclasses	Non- derived	23502
S_HDL_P	Concentration of Small HDL Particles	mmol/ L	Lipoprotein subclasses	Non- derived	23572
S_LDL_P	Concentration of Small LDL Particles	mmol/ L	Lipoprotein subclasses	Non- derived	23544
S_VLDL_P	Concentration of Small VLDL Particles	mmol/ L	Lipoprotein subclasses	Non- derived	23509
XL_HDL_P	Concentration of Very Large HDL Particles	mmol/ L	Lipoprotein subclasses	Non- derived	23551
XL_VLDL_P	Concentration of Very Large VLDL Particles	mmol/ L	Lipoprotein subclasses	Non- derived	23488
XS_VLDL_P	Concentration of Very Small VLDL Particles	mmol/ L	Lipoprotein subclasses	Non- derived	23516
XXL_VLDL_FC	Free Cholesterol in Chylomicrons and Extremely Large VLDL	mmol/ L	Lipoprotein subclasses	Non- derived	23486
IDL_FC	Free Cholesterol in IDL	mmol/ L	Lipoprotein subclasses	Non- derived	23528
L_HDL_F	Free Cholesterol in Large HDL	mmol/ L	Lipoprotein subclasses	Non- derived	23563
L_LDL_F	Free Cholesterol in Large LDL	mmol/ L	Lipoprotein subclasses	Non- derived	23535
L_VLDL_FC	Free Cholesterol in Large VLDL	mmol/ L	Lipoprotein subclasses	Non- derived	23500
M_HDL_F	Free Cholesterol in Medium HDL	mmol/ L	Lipoprotein subclasses	Non- derived	23570

M_LDL_F	Free Cholesterol in Medium	mmol/	Lipoprotein	Non-	23542
C	LDL	L	subclasses	derived	
M_VLDL_	Free Cholesterol in Medium	mmol/	Lipoprotein	Non-	23507
FC	VLDL	L	subclasses	derived	
S_HDL_F	Free Cholesterol in Small	mmol/	Lipoprotein	Non-	23577
C	HDL	L	subclasses	derived	
S_LDL_F	Free Cholesterol in Small	mmol/	Lipoprotein	Non-	23549
C	LDL	L	subclasses	derived	
S_VLDL_	Free Cholesterol in Small	mmol/	Lipoprotein	Non-	23514
FC	VLDL	L	subclasses	derived	
XL_HDL_	Free Cholesterol in Very	mmol/	Lipoprotein	Non-	23556
FC	Large HDL	L	subclasses	derived	
XL_VLDL	Free Cholesterol in Very	mmol/	Lipoprotein	Non-	23493
_FC	Large VLDL	L	subclasses	derived	
XS_VLDL	Free Cholesterol in Very	mmol/	Lipoprotein	Non-	23521
_FC	Small VLDL	L	subclasses	derived	
XXL_VLD	Phospholipids in	mmol/	Lipoprotein	Non-	23483
L_PL	Chylomicrons and Extremely Large VLDL	L	subclasses	derived	
IDL_PL	Phospholipids in IDL	mmol/	Lipoprotein	Non-	23525
		L	subclasses	derived	
L_HDL_P	Phospholipids in Large HDL	mmol/	Lipoprotein	Non-	23560
L		L	subclasses	derived	
L_LDL_P	Phospholipids in Large LDL	mmol/	Lipoprotein	Non-	23532
L		L	subclasses	derived	
L_VLDL_	Phospholipids in Large	mmol/	Lipoprotein	Non-	23497
PL	VLDL	L	subclasses	derived	
M_HDL_	Phospholipids in Medium	mmol/	Lipoprotein	Non-	23567
PL	HDL	L	subclasses	derived	
M_LDL_P	Phospholipids in Medium	mmol/	Lipoprotein	Non-	23539
L	LDL	L	subclasses	derived	

M_VLDL_PL	Phospholipids in Medium VLDL	mmol/L	Lipoprotein subclasses	Non-derived	23504
S_HDL_PL	Phospholipids in Small HDL	mmol/L	Lipoprotein subclasses	Non-derived	23574
S_LDL_PL	Phospholipids in Small LDL	mmol/L	Lipoprotein subclasses	Non-derived	23546
S_VLDL_PL	Phospholipids in Small VLDL	mmol/L	Lipoprotein subclasses	Non-derived	23511
XL_HDL_PL	Phospholipids in Very Large HDL	mmol/L	Lipoprotein subclasses	Non-derived	23553
XL_VLDL_PL	Phospholipids in Very Large VLDL	mmol/L	Lipoprotein subclasses	Non-derived	23490
XS_VLDL_PL	Phospholipids in Very Small VLDL	mmol/L	Lipoprotein subclasses	Non-derived	23518
XXL_VLDL_L	Total Lipids in Chylomicrons and Extremely Large VLDL	mmol/L	Lipoprotein subclasses	Composite	23482
IDL_L	Total Lipids in IDL	mmol/L	Lipoprotein subclasses	Composite	23524
L_HDL_L	Total Lipids in Large HDL	mmol/L	Lipoprotein subclasses	Composite	23559
L_LDL_L	Total Lipids in Large LDL	mmol/L	Lipoprotein subclasses	Composite	23531
L_VLDL_L	Total Lipids in Large VLDL	mmol/L	Lipoprotein subclasses	Composite	23496
M_HDL_L	Total Lipids in Medium HDL	mmol/L	Lipoprotein subclasses	Composite	23566
M_LDL_L	Total Lipids in Medium LDL	mmol/L	Lipoprotein subclasses	Composite	23538
M_VLDL_L	Total Lipids in Medium VLDL	mmol/L	Lipoprotein subclasses	Composite	23503

S_HDL_L	Total Lipids in Small HDL	mmol/ L	Lipoprotein subclasses	Composite	23573
S_LDL_L	Total Lipids in Small LDL	mmol/ L	Lipoprotein subclasses	Composite	23545
S_VLDL_ L	Total Lipids in Small VLDL	mmol/ L	Lipoprotein subclasses	Composite	23510
XL_HDL_ L	Total Lipids in Very Large HDL	mmol/ L	Lipoprotein subclasses	Composite	23552
XL_VLDL_ _L	Total Lipids in Very Large VLDL	mmol/ L	Lipoprotein subclasses	Composite	23489
XS_VLDL_ _L	Total Lipids in Very Small VLDL	mmol/ L	Lipoprotein subclasses	Composite	23517
XXL_VLD L_TG	Triglycerides in Chylomicrons and Extremely Large VLDL	mmol/ L	Lipoprotein subclasses	Non- derived	23487
IDL_TG	Triglycerides in IDL	mmol/ L	Lipoprotein subclasses	Non- derived	23529
L_HDL_T G	Triglycerides in Large HDL	mmol/ L	Lipoprotein subclasses	Non- derived	23564
L_LDL_T G	Triglycerides in Large LDL	mmol/ L	Lipoprotein subclasses	Non- derived	23536
L_VLDL_ TG	Triglycerides in Large VLDL	mmol/ L	Lipoprotein subclasses	Non- derived	23501
M_HDL_ TG	Triglycerides in Medium HDL	mmol/ L	Lipoprotein subclasses	Non- derived	23571
M_LDL_T G	Triglycerides in Medium LDL	mmol/ L	Lipoprotein subclasses	Non- derived	23543
M_VLDL_ TG	Triglycerides in Medium VLDL	mmol/ L	Lipoprotein subclasses	Non- derived	23508
S_HDL_T G	Triglycerides in Small HDL	mmol/ L	Lipoprotein subclasses	Non- derived	23578

S_LDL_TG	Triglycerides in Small LDL	mmol/L	Lipoprotein subclasses	Non-derived	23550
S_VLDL_TG	Triglycerides in Small VLDL	mmol/L	Lipoprotein subclasses	Non-derived	23515
XL_HDL_TG	Triglycerides in Very Large HDL	mmol/L	Lipoprotein subclasses	Non-derived	23557
XL_VLDL_TG	Triglycerides in Very Large VLDL	mmol/L	Lipoprotein subclasses	Non-derived	23494
XS_VLDL_TG	Triglycerides in Very Small VLDL	mmol/L	Lipoprotein subclasses	Non-derived	23522
Phosphatidylc	Phosphatidylcholines	mmol/L	Other lipids	Non-derived	23437
Phosphoglycer	Phosphoglycerides	mmol/L	Other lipids	Non-derived	23434
Sphingomyelins	Sphingomyelins	mmol/L	Other lipids	Non-derived	23438
Cholines	Total Cholines	mmol/L	Other lipids	Non-derived	23436
TG_by_PG	Triglycerides to Phosphoglycerides ratio	ratio	Other lipids	Ratio	23435
HDL_PL	Phospholipids in HDL	mmol/L	Phospholipids	Composite	23414
LDL_PL	Phospholipids in LDL	mmol/L	Phospholipids	Composite	23413
VLDL_PL	Phospholipids in VLDL	mmol/L	Phospholipids	Composite	23412
Total_PL	Total Phospholipids in Lipoprotein Particles	mmol/L	Phospholipids	Composite	23411
HDL_CE_pct_C	Cholesteryl Esters to Cholesterol in HDL percentage	%	Relative cholesterol concentrations	Percentage	Additionally derived

LDL_CE_pct_C	Cholesteryl Esters to Cholesterol in LDL percentage	%	Relative cholesterol concentrations	Percentage	Additionally derived
VLDL_CE_pct_C	Cholesteryl Esters to Cholesterol in VLDL percentage	%	Relative cholesterol concentrations	Percentage	Additionally derived
HDL_FC_pct_C	Free Cholesterol to Cholesterol in HDL percentage	%	Relative cholesterol concentrations	Percentage	Additionally derived
LDL_FC_pct_C	Free Cholesterol to Cholesterol in LDL percentage	%	Relative cholesterol concentrations	Percentage	Additionally derived
VLDL_FC_pct_C	Free Cholesterol to Cholesterol in VLDL percentage	%	Relative cholesterol concentrations	Percentage	Additionally derived
Total_CE_pct_C	Total Esterified Cholesterol to Total Cholesterol percentage	%	Relative cholesterol concentrations	Percentage	Additionally derived
Total_FC_pct_C	Total Free Cholesterol to Total Cholesterol percentage	%	Relative cholesterol concentrations	Percentage	Additionally derived
HDL_C_pct	Cholesterol to Total Lipids in HDL percentage	%	Relative lipid concentrations	Percentage	Additionally derived
LDL_C_pct	Cholesterol to Total Lipids in LDL percentage	%	Relative lipid concentrations	Percentage	Additionally derived
VLDL_C_pct	Cholesterol to Total Lipids in VLDL percentage	%	Relative lipid concentrations	Percentage	Additionally derived
HDL_CE_pct	Cholesteryl Esters to Total Lipids in HDL percentage	%	Relative lipid concentrations	Percentage	Additionally derived
LDL_CE_pct	Cholesteryl Esters to Total Lipids in LDL percentage	%	Relative lipid concentrations	Percentage	Additionally derived

VLDL_CE _pct	Cholesteryl Esters to Total Lipids in VLDL percentage	%	Relative lipid concentrations	Percentage	Additional ly derived
HDL_FC_ by_CE	Free Cholesterol to Cholesteryl Esters in HDL percentage	ratio	Relative lipid concentrations	Ratio	Additional ly derived
LDL_FC_ by_CE	Free Cholesterol to Cholesteryl Esters in LDL percentage	ratio	Relative lipid concentrations	Ratio	Additional ly derived
VLDL_FC _by_CE	Free Cholesterol to Cholesteryl Esters in VLDL percentage	ratio	Relative lipid concentrations	Ratio	Additional ly derived
HDL_FC_ pct	Free Cholesterol to Total Lipids in HDL percentage	%	Relative lipid concentrations	Percentage	Additional ly derived
LDL_FC_ pct	Free Cholesterol to Total Lipids in LDL percentage	%	Relative lipid concentrations	Percentage	Additional ly derived
VLDL_FC _pct	Free Cholesterol to Total Lipids in VLDL percentage	%	Relative lipid concentrations	Percentage	Additional ly derived
HDL_PL_ pct	Phospholipids to Total Lipids in HDL percentage	%	Relative lipid concentrations	Percentage	Additional ly derived
LDL_PL_ pct	Phospholipids to Total Lipids in LDL percentage	%	Relative lipid concentrations	Percentage	Additional ly derived
VLDL_PL _pct	Phospholipids to Total Lipids in VLDL percentage	%	Relative lipid concentrations	Percentage	Additional ly derived
Total_C_p ct	Total Cholesterol to Total Lipids percentage	%	Relative lipid concentrations	Percentage	Additional ly derived
Total_CE_ pct	Total Esterified Cholesterol to Total Lipids percentage	%	Relative lipid concentrations	Percentage	Additional ly derived
Total_FC_ by_CE	Total Free Cholesterol to Total Esterified Cholesterol ratio	ratio	Relative lipid concentrations	Ratio	Additional ly derived
Total_FC_ pct	Total Free Cholesterol to Total Lipids percentage	%	Relative lipid concentrations	Percentage	Additional ly derived

Total_PL_pct	Total Phospholipids to Total Lipids percentage	%	Relative lipid concentrations	Percentage	Additionally derived
Total_TG_pct	Total Triglycerides to Total Lipids percentage	%	Relative lipid concentrations	Percentage	Additionally derived
HDL_TG_pct	Triglycerides to Total Lipids in HDL percentage	%	Relative lipid concentrations	Percentage	Additionally derived
LDL_TG_pct	Triglycerides to Total Lipids in LDL percentage	%	Relative lipid concentrations	Percentage	Additionally derived
VLDL_TG_pct	Triglycerides to Total Lipids in VLDL percentage	%	Relative lipid concentrations	Percentage	Additionally derived
XXL_VLDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Chylomicrons and Extremely Large VLDL percentage	%	Relative lipoprotein cholesterol concentrations	Percentage	Additionally derived
IDL_CE_pct_C	Cholesteryl Esters to Cholesterol in IDL percentage	%	Relative lipoprotein cholesterol concentrations	Percentage	Additionally derived
L_HDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Large HDL percentage	%	Relative lipoprotein cholesterol concentrations	Percentage	Additionally derived
L_LDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Large LDL percentage	%	Relative lipoprotein cholesterol concentrations	Percentage	Additionally derived
L_VLDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Large VLDL percentage	%	Relative lipoprotein cholesterol concentrations	Percentage	Additionally derived
M_HDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Medium HDL	%	Relative lipoprotein	Percentage	Additionally derived

	percentage		cholesterol concentrations		
M_LDL_C	Cholesteryl Esters to		Relative		
E_pct_C	Cholesterol in Medium LDL percentage	%	lipoprotein cholesterol concentrations	Percentage	Additional ly derived
M_VLDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Medium VLDL percentage	%	Relative lipoprotein cholesterol concentrations	Percentage	Additional ly derived
S_HDL_C	Cholesteryl Esters to		Relative		
E_pct_C	Cholesterol in Small HDL percentage	%	lipoprotein cholesterol concentrations	Percentage	Additional ly derived
S_LDL_C	Cholesteryl Esters to		Relative		
E_pct_C	Cholesterol in Small LDL percentage	%	lipoprotein cholesterol concentrations	Percentage	Additional ly derived
S_VLDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Small VLDL percentage	%	Relative lipoprotein cholesterol concentrations	Percentage	Additional ly derived
XL_HDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Very Large HDL percentage	%	Relative lipoprotein cholesterol concentrations	Percentage	Additional ly derived
XL_VLDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Very Large VLDL percentage	%	Relative lipoprotein cholesterol concentrations	Percentage	Additional ly derived
XS_VLDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Very Small	%	Relative lipoprotein	Percentage	Additional ly derived

C	VLDL percentage		cholesterol concentrations		
XXL_VLDL_FC_pct_C	Free Cholesterol to Cholesterol in Chylomicrons and Extremely Large VLDL percentage	%	Relative lipoprotein cholesterol concentrations	Percentage	Additionally derived
IDL_FC_pct_C	Free Cholesterol to Cholesterol in IDL percentage	%	Relative lipoprotein cholesterol concentrations	Percentage	Additionally derived
L_HDL_FC_pct_C	Free Cholesterol to Cholesterol in Large HDL percentage	%	Relative lipoprotein cholesterol concentrations	Percentage	Additionally derived
L_LDL_FC_pct_C	Free Cholesterol to Cholesterol in Large LDL percentage	%	Relative lipoprotein cholesterol concentrations	Percentage	Additionally derived
L_VLDL_FC_pct_C	Free Cholesterol to Cholesterol in Large VLDL percentage	%	Relative lipoprotein cholesterol concentrations	Percentage	Additionally derived
M_HDL_FC_pct_C	Free Cholesterol to Cholesterol in Medium HDL percentage	%	Relative lipoprotein cholesterol concentrations	Percentage	Additionally derived
M_LDL_FC_pct_C	Free Cholesterol to Cholesterol in Medium LDL percentage	%	Relative lipoprotein cholesterol concentrations	Percentage	Additionally derived
M_VLDL_FC_pct_C	Free Cholesterol to Cholesterol in Medium	%	Relative lipoprotein	Percentage	Additionally derived

	VLDL percentage		cholesterol concentrations		
S_HDL_F	Free Cholesterol to		Relative		
C_pct_C	Cholesterol in Small HDL percentage	%	lipoprotein cholesterol concentrations	Percentage	Additionally derived
S_LDL_F	Free Cholesterol to		Relative		
C_pct_C	Cholesterol in Small LDL percentage	%	lipoprotein cholesterol concentrations	Percentage	Additionally derived
S_VLDL_FC_pct_C	Free Cholesterol to Cholesterol in Small VLDL percentage	%	Relative lipoprotein cholesterol concentrations	Percentage	Additionally derived
XL_HDL_FC_pct_C	Free Cholesterol to Cholesterol in Very Large HDL percentage	%	Relative lipoprotein cholesterol concentrations	Percentage	Additionally derived
XL_VLDL_FC_pct_C	Free Cholesterol to Cholesterol in Very Large VLDL percentage	%	Relative lipoprotein cholesterol concentrations	Percentage	Additionally derived
XS_VLDL_FC_pct_C	Free Cholesterol to Cholesterol in Very Small VLDL percentage	%	Relative lipoprotein cholesterol concentrations	Percentage	Additionally derived
XXL_VLDL_C_pct	Cholesterol to Total Lipids in Chylomicrons and Extremely Large VLDL percentage	%	Relative lipoprotein lipid concentrations	Percentage	23580
IDL_C_pct	Cholesterol to Total Lipids in IDL percentage	%	Relative lipoprotein	Percentage	23610

			lipid concentrations		
			Relative		
L_HDL_C	Cholesterol to Total Lipids in		lipoprotein		
_pct	Large HDL percentage	%	lipid	Percentage	23635
			concentrations		
			Relative		
L_LDL_C	Cholesterol to Total Lipids in		lipoprotein		
_pct	Large LDL percentage	%	lipid	Percentage	23615
			concentrations		
			Relative		
L_VLDL_C	Cholesterol to Total Lipids in		lipoprotein		
_pct	Large VLDL percentage	%	lipid	Percentage	23590
			concentrations		
			Relative		
M_HDL_C	Cholesterol to Total Lipids in		lipoprotein		
_pct	Medium HDL percentage	%	lipid	Percentage	23640
			concentrations		
			Relative		
M_LDL_C	Cholesterol to Total Lipids in		lipoprotein		
_pct	Medium LDL percentage	%	lipid	Percentage	23620
			concentrations		
			Relative		
M_VLDL_C	Cholesterol to Total Lipids in		lipoprotein		
_pct	Medium VLDL percentage	%	lipid	Percentage	23595
			concentrations		
			Relative		
S_HDL_C	Cholesterol to Total Lipids in		lipoprotein		
_pct	Small HDL percentage	%	lipid	Percentage	23645
			concentrations		
			Relative		
S_LDL_C	Cholesterol to Total Lipids in		lipoprotein		
_pct	Small LDL percentage	%	lipoprotein	Percentage	23625

			lipid concentrations		
			Relative		
S_VLDL_C_pct	Cholesterol to Total Lipids in Small VLDL percentage	%	lipoprotein lipid concentrations	Percentage	23600
			Relative		
XL_HDL_C_pct	Cholesterol to Total Lipids in Very Large HDL percentage	%	lipoprotein lipid concentrations	Percentage	23630
			Relative		
XL_VLDL_C_pct	Cholesterol to Total Lipids in Very Large VLDL percentage	%	lipoprotein lipid concentrations	Percentage	23585
			Relative		
XS_VLDL_C_pct	Cholesterol to Total Lipids in Very Small VLDL percentage	%	lipoprotein lipid concentrations	Percentage	23605
			Relative		
XXL_VLDL_CE_pct	Cholesteryl Esters to Total Lipids in Chylomicrons and Extremely Large VLDL percentage	%	lipoprotein lipid concentrations	Percentage	23581
			Relative		
IDL_CE_pct	Cholesteryl Esters to Total Lipids in IDL percentage	%	lipoprotein lipid concentrations	Percentage	23611
			Relative		
L_HDL_CE_pct	Cholesteryl Esters to Total Lipids in Large HDL percentage	%	lipoprotein lipid concentrations	Percentage	23636
			Relative		
L_LDL_CE_pct	Cholesteryl Esters to Total Lipids in Large LDL	%	lipoprotein	Percentage	23616

	percentage		lipid concentrations		
			Relative		
L_VLDL_CE_pct	Cholesteryl Esters to Total Lipids in Large VLDL percentage	%	lipoprotein lipid concentrations	Percentage	23591
			Relative		
M_HDL_CE_pct	Cholesteryl Esters to Total Lipids in Medium HDL percentage	%	lipoprotein lipid concentrations	Percentage	23641
			Relative		
M_LDL_E_pct	Cholesteryl Esters to Total Lipids in Medium LDL percentage	%	lipoprotein lipid concentrations	Percentage	23621
			Relative		
M_VLDL_CE_pct	Cholesteryl Esters to Total Lipids in Medium VLDL percentage	%	lipoprotein lipid concentrations	Percentage	23596
			Relative		
S_HDL_E_pct	Cholesteryl Esters to Total Lipids in Small HDL percentage	%	lipoprotein lipid concentrations	Percentage	23646
			Relative		
S_LDL_E_pct	Cholesteryl Esters to Total Lipids in Small LDL percentage	%	lipoprotein lipid concentrations	Percentage	23626
			Relative		
S_VLDL_CE_pct	Cholesteryl Esters to Total Lipids in Small VLDL percentage	%	lipoprotein lipid concentrations	Percentage	23601
			Relative		
XL_HDL_CE_pct	Cholesteryl Esters to Total Lipids in Very Large HDL	%	lipoprotein	Percentage	23631

	percentage		lipid concentrations		
			Relative lipoprotein lipid concentrations		
XL_VLDL_CE_pct	Cholesteryl Esters to Total Lipids in Very Large VLDL percentage	%	Percentage	23586	
			Relative lipoprotein lipid concentrations		
XS_VLDL_CE_pct	Cholesteryl Esters to Total Lipids in Very Small VLDL percentage	%	Percentage	23606	
			Relative lipoprotein lipid concentrations		
XXL_VLDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Chylomicrons and Extremely Large VLDL ratio	ratio	Ratio	Additional ly derived	
			Relative lipoprotein lipid concentrations		
IDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in IDL percentage	ratio	Ratio	Additional ly derived	
			Relative lipoprotein lipid concentrations		
L_HDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Large HDL ratio	ratio	Ratio	Additional ly derived	
			Relative lipoprotein lipid concentrations		
L_LDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Large LDL ratio	ratio	Ratio	Additional ly derived	
			Relative lipoprotein lipid concentrations		
L_VLDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Large VLDL ratio	ratio	Ratio	Additional ly derived	
			Relative lipoprotein lipid concentrations		
M_HDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in	ratio	Ratio	Additional ly derived	

	Medium HDL ratio		lipid concentrations		
M_LDL_F C_by_CE	Free Cholesterol to Cholesteryl Esters in Medium LDL ratio	ratio	Relative lipoprotein lipid concentrations	Ratio	Additional ly derived
M_VLDL_ FC_by_CE	Free Cholesterol to Cholesteryl Esters in Medium VLDL ratio	ratio	Relative lipoprotein lipid concentrations	Ratio	Additional ly derived
S_HDL_F C_by_CE	Free Cholesterol to Cholesteryl Esters in Small HDL ratio	ratio	Relative lipoprotein lipid concentrations	Ratio	Additional ly derived
S_LDL_F C_by_CE	Free Cholesterol to Cholesteryl Esters in Small LDL ratio	ratio	Relative lipoprotein lipid concentrations	Ratio	Additional ly derived
S_VLDL_ FC_by_CE	Free Cholesterol to Cholesteryl Esters in Small VLDL ratio	ratio	Relative lipoprotein lipid concentrations	Ratio	Additional ly derived
XL_HDL_ FC_by_CE	Free Cholesterol to Cholesteryl Esters in Very Large HDL ratio	ratio	Relative lipoprotein lipid concentrations	Ratio	Additional ly derived
XL_VLDL_ _FC_by_C E	Free Cholesterol to Cholesteryl Esters in Very Large VLDL ratio	ratio	Relative lipoprotein lipid concentrations	Ratio	Additional ly derived
XS_VLDL_ _FC_by_C	Free Cholesterol to Cholesteryl Esters in Very	ratio	Relative lipoprotein	Ratio	Additional ly derived

E	Small VLDL ratio		lipid concentrations		
	Free Cholesterol to Total		Relative		
XXL_VLD	Lipids in Chylomicrons and	%	lipoprotein	Percentage	23582
L_FC_pct	Extremely Large VLDL percentage		lipid concentrations		
	Free Cholesterol to Total		Relative		
IDL_FC_p	Lipids in IDL percentage	%	lipoprotein	Percentage	23612
ct			lipid concentrations		
	Free Cholesterol to Total		Relative		
L_HDL_F	Lipids in Large HDL	%	lipoprotein	Percentage	23637
C_pct	percentage		lipid concentrations		
	Free Cholesterol to Total		Relative		
L_LDL_F	Lipids in Large LDL	%	lipoprotein	Percentage	23617
C_pct	percentage		lipid concentrations		
	Free Cholesterol to Total		Relative		
L_VLDL_	Lipids in Large VLDL	%	lipoprotein	Percentage	23592
FC_pct	percentage		lipid concentrations		
	Free Cholesterol to Total		Relative		
M_HDL_F	Lipids in Medium HDL	%	lipoprotein	Percentage	23642
C_pct	percentage		lipid concentrations		
	Free Cholesterol to Total		Relative		
M_LDL_F	Lipids in Medium LDL	%	lipoprotein	Percentage	23622
C_pct	percentage		lipid concentrations		
	Free Cholesterol to Total		Relative		
M_VLDL_	Lipids in Medium VLDL	%	lipoprotein	Percentage	23597
FC_pct					

	percentage		lipid concentrations		
S_HDL_F	Free Cholesterol to Total		Relative		
C_pct	Lipids in Small HDL	%	lipoprotein	Percentage	23647
	percentage		lipid concentrations		
S_LDL_F	Free Cholesterol to Total		Relative		
C_pct	Lipids in Small LDL	%	lipoprotein	Percentage	23627
	percentage		lipid concentrations		
S_VLDL_	Free Cholesterol to Total		Relative		
FC_pct	Lipids in Small VLDL	%	lipoprotein	Percentage	23602
	percentage		lipid concentrations		
XL_HDL_	Free Cholesterol to Total		Relative		
FC_pct	Lipids in Very Large HDL	%	lipoprotein	Percentage	23632
	percentage		lipid concentrations		
XL_VLDL	Free Cholesterol to Total		Relative		
_FC_pct	Lipids in Very Large VLDL	%	lipoprotein	Percentage	23587
	percentage		lipid concentrations		
XS_VLDL	Free Cholesterol to Total		Relative		
_FC_pct	Lipids in Very Small VLDL	%	lipoprotein	Percentage	23607
	percentage		lipid concentrations		
XXL_VLD	Phospholipids to Total		Relative		
L_PL_pct	Lipids in Chylomicrons and	%	lipoprotein	Percentage	23579
	Extremely Large VLDL		lipid concentrations		
IDL_PL_p	Phospholipids to Total		Relative		
ct	Lipids in IDL percentage	%	lipoprotein	Percentage	23609

			lipid concentrations		
			Relative lipoprotein lipid concentrations		
L_HDL_P	Phospholipids to Total Lipids in Large HDL percentage	%	Percentage	23634	
L_pct					
			lipid concentrations		
			Relative lipoprotein lipid concentrations		
L_LDL_P	Phospholipids to Total Lipids in Large LDL percentage	%	Percentage	23614	
L_pct					
			lipid concentrations		
			Relative lipoprotein lipid concentrations		
L_VLDL_PL_pct	Phospholipids to Total Lipids in Large VLDL percentage	%	Percentage	23589	
			lipid concentrations		
			Relative lipoprotein lipid concentrations		
M_HDL_PL_pct	Phospholipids to Total Lipids in Medium HDL percentage	%	Percentage	23639	
			lipid concentrations		
			Relative lipoprotein lipid concentrations		
M_LDL_P	Phospholipids to Total Lipids in Medium LDL percentage	%	Percentage	23619	
L_pct					
			lipid concentrations		
			Relative lipoprotein lipid concentrations		
M_VLDL_PL_pct	Phospholipids to Total Lipids in Medium VLDL percentage	%	Percentage	23594	
			lipid concentrations		
			Relative lipoprotein lipid concentrations		
S_HDL_P	Phospholipids to Total Lipids in Small HDL percentage	%	Percentage	23644	
L_pct					
			lipid concentrations		
			Relative lipoprotein lipid concentrations		
S_LDL_PL_pct	Phospholipids to Total Lipids in Small LDL	%	Percentage	23624	

	percentage		lipid concentrations		
			Relative		
S_VLDL_PL_pct	Phospholipids to Total Lipids in Small VLDL percentage	%	lipoprotein lipid	Percentage	23599
			lipid concentrations		
			Relative		
XL_HDL_PL_pct	Phospholipids to Total Lipids in Very Large HDL percentage	%	lipoprotein lipid	Percentage	23629
			lipid concentrations		
			Relative		
XL_VLDL_PL_pct	Phospholipids to Total Lipids in Very Large VLDL percentage	%	lipoprotein lipid	Percentage	23584
			lipid concentrations		
			Relative		
XS_VLDL_PL_pct	Phospholipids to Total Lipids in Very Small VLDL percentage	%	lipoprotein lipid	Percentage	23604
			lipid concentrations		
			Relative		
XXL_VLDL_TG_pct	Triglycerides to Total Lipids in Chylomicrons and Extremely Large VLDL percentage	%	lipoprotein lipid	Percentage	23583
			lipid concentrations		
			Relative		
IDL_TG_pct	Triglycerides to Total Lipids in IDL percentage	%	lipoprotein lipid	Percentage	23613
			lipid concentrations		
			Relative		
L_HDL_TG_pct	Triglycerides to Total Lipids in Large HDL percentage	%	lipoprotein lipid	Percentage	23638
			lipid concentrations		
			Relative		
L_LDL_TG_pct	Triglycerides to Total Lipids in Large LDL percentage	%	lipoprotein	Percentage	23618

			lipid concentrations		
			Relative		
L_VLDL_TG_pct	Triglycerides to Total Lipids in Large VLDL percentage	%	lipoprotein lipid concentrations	Percentage	23593
			Relative		
M_HDL_TG_pct	Triglycerides to Total Lipids in Medium HDL percentage	%	lipoprotein lipid concentrations	Percentage	23643
			Relative		
M_LDL_TG_pct	Triglycerides to Total Lipids in Medium LDL percentage	%	lipoprotein lipid concentrations	Percentage	23623
			Relative		
M_VLDL_TG_pct	Triglycerides to Total Lipids in Medium VLDL percentage	%	lipoprotein lipid concentrations	Percentage	23598
			Relative		
S_HDL_TG_pct	Triglycerides to Total Lipids in Small HDL percentage	%	lipoprotein lipid concentrations	Percentage	23648
			Relative		
S_LDL_TG_pct	Triglycerides to Total Lipids in Small LDL percentage	%	lipoprotein lipid concentrations	Percentage	23628
			Relative		
S_VLDL_TG_pct	Triglycerides to Total Lipids in Small VLDL percentage	%	lipoprotein lipid concentrations	Percentage	23603
			Relative		
XL_HDL_TG_pct	Triglycerides to Total Lipids in Very Large HDL	%	lipoprotein	Percentage	23633

	percentage		lipid concentrations		
			Relative lipoprotein lipid concentrations		
XL_VLDL_TG_pct	Triglycerides to Total Lipids in Very Large VLDL percentage	%	lipoprotein lipid concentrations	Percentage	23588
			Relative lipoprotein lipid concentrations		
XS_VLDL_TG_pct	Triglycerides to Total Lipids in Very Small VLDL percentage	%	lipoprotein lipid concentrations	Percentage	23608
			lipoprotein lipid concentrations		
HDL_L	Total Lipids in HDL	mmol/L	Total lipids	Composite	23426
LDL_L	Total Lipids in LDL	mmol/L	Total lipids	Composite	23425
Total_L	Total Lipids in Lipoprotein Particles	mmol/L	Total lipids	Composite	23423
VLDL_L	Total Lipids in VLDL	mmol/L	Total lipids	Composite	23424
Total_TG	Total Triglycerides	mmol/L	Triglycerides	Composite	23407
HDL_TG	Triglycerides in HDL	mmol/L	Triglycerides	Composite	23410
LDL_TG	Triglycerides in LDL	mmol/L	Triglycerides	Composite	23409
VLDL_TG	Triglycerides in VLDL	mmol/L	Triglycerides	Composite	23408

Supplementary Table 2 Mapping and coding of QCancer predictors in UK Biobank

QCancer Coding	UK Biobank Coding
Age	Age at recruitment
Sex	Sex
Ethnicity	Ethnic background
White/not recorded	White, British, Irish, Any other white background, Prefer not to answer, Do not know, Missing
Black African	African
Caribbean	Caribbean
Indian	Indian
Pakistani	Pakistani
Bangladeshi	Bangladeshi
Other Asian	Asian or Asian British, Any other Asian background
Chinese	Chinese
Other	Black or Black British, Any other Black background, Mixed, White and Black Caribbean, White and Black African, White and Asian, Any other mixed background, Other ethnic group
Townsend deprivation index	Townsend deprivation index at recruitment
Geographical region	UK Biobank assessment centre
East Midlands	Nottingham
Yorkshire and Humber	Leeds, Sheffield
London	Barts, Hounslow, Croydon
North West	Manchester, Stockport, Bury, Liverpool
North East	Newcastle, Middlesbrough
Scotland	Glasgow, Edinburgh
South West	Bristol
South East	Oxford, Reading
Wales	Cardiff, Swansea, Wrexham
West Midlands	Stoke, Birmingham
Body mass index (BMI)	Body mass index (BMI)
Smoking	Smoking

Non-smoker	Smoking summary = 'Never'
Ex-smoker	Smoking summary = 'Previous'
Light smoker	Smoking summary = 'Current' AND Cigarettes < 10 OR frequency = 'Only occasionally'
Moderate smoker	Smoking summary = 'Current' AND Cigarettes = 10-19
Heavy smoker	Smoking summary = 'Current' AND Cigarettes ≥20
Missing	Smoking summary = 'Missing' / 'Prefer not to answer'
Alcohol	Alcohol
Non-drinker	Alcohol frequency = 'Never'
Trivial drinker	<1 calculated daily unit
Light drinker	1-2 calculated daily units
Moderate drinker	3-6 calculated daily units
Heavy drinker	7-9 calculated daily units
Very heavy drinker	10 or more calculated daily units
Missing	Alcohol frequency = 'Missing' / 'Prefer not to answer'
Medical condition (self-reported)	Medical condition (self-reported)
Diabetes	1223, 1220
Ulcerative colitis	1463
Bowel polyps	1460
Breast cancer	1002
Uterine cancer	1040
Ovarian cancer	1039
Cervical cancer	1041
Lung cancer	1001
Blood cancers	1047, 1048, 1050, 1051, 1052, 1053, 1055, 1056, 1058
Oral cancers	1004, 1005, 1006, 1010, 1011, 1012, 1015, 1077, 1078, 1079
Family history of colorectal cancer (CRC)	Family history of colorectal cancer (CRC)
No	No CRC in all of these relatives (father, mother, or siblings)

Yes	CRC in any of these relatives (father, mother, or siblings)
Missing	The answer for all of these was either 'Do not know' or 'Prefer not to answer'

Supplementary Table 3 Associations of plasma metabolites with incident colorectal cancer

Metabolite		Events/Tota	Missingness					
Group	(Abbreviations)	Metabolite	1	(%)	HR	95% CI	P value	Q value
Amino acids	Ala	Alanine	7120/46643			0.971–	0.6633685	0.76998131
			8	0.35	0.995	1.019	19	6
Amino acids	Gln	Glutamine	7072/46358			0.929–	4.61713E-	0.00065242
			9	0.96	0.952	0.975	05	1
Amino acids	Gly	Glycine	7107/46484			0.961–	0.3589043	0.49847831
			6	0.69	0.987	1.015	85	2
Amino acids	His	Histidine	7128/46696			0.913–	3.28266E-	9.69878E-
			6	0.24	0.936	0.960	07	06
Amino acids	Ile	Isoleucine	7134/46738			0.973–	0.7803902	
			9	0.15	0.997	1.021	54	0.86088084
Amino acids	Leu	Leucine	7114/46656			0.944–	0.0101207	0.03322461
			1	0.33	0.968	0.992	28	3
Amino acids	Phe	Phenylalanine	7125/46689			0.962–	0.2157591	0.32921002
			0	0.26	0.985	1.009	86	6
		Total Concentration of Branched-Chain Amino Acids (Leucine + Isoleucine + Valine)	7077/46484			0.943–	0.0095906	0.03213354
Amino acids	Total_BCAA		3	0.69	0.967	0.992	28	6

Amino			7104/46591			0.969–	0.5138588	0.64754520
acids	Tyr	Tyrosine	9	0.46	0.992	1.016	09	4
Amino			7088/46512			0.937–	0.0020147	
acids	Val	Valine	4	0.63	0.961	0.985	06	0.00902179
Apolipoppr			7084/46451			1.001–	0.0400393	0.09228924
oteins	ApoA1	Apolipoprotein A1	7	0.76	1.028	1.055	32	1
Apolipoppr			7096/46513			0.972–	0.6580392	0.76653312
oteins	ApoB	Apolipoprotein B	4	0.63	0.995	1.018	08	7
Apolipoppr		Apolipoprotein B to	7080/46420			0.961–	0.1962766	0.30376143
oteins	ApoB_by_ApoA1	Apolipoprotein A1 ratio	8	0.83	0.984	1.008	2	6
Cholestero			7088/46472			0.965–	0.2965721	0.42460769
l	Clinical_LDL_C	Clinical LDL Cholesterol	1	0.72	0.988	1.011	42	3
Cholestero			7054/46287			0.991–	0.1914909	0.29777296
l	HDL_C	HDL Cholesterol	7	1.11	1.019	1.047	22	5
Cholestero			7080/46421			0.973–	0.6942706	0.79171214
l	LDL_C	LDL Cholesterol	2	0.83	0.995	1.019	49	3
Cholestero		Remnant Cholesterol (Non-	7027/46110			0.968–	0.4417938	0.58367077
l	Remnant_C	HDL, Non-LDL -Cholesterol)	2	1.49	0.991	1.014	76	2
Cholestero			7027/46110			0.975–	0.9229146	0.95829793
l	Total_C	Total Cholesterol	2	1.49	0.999	1.023	28	6
Cholestero		Total Cholesterol Minus	7027/46110			0.970–	0.5140512	0.64754520
l	non_HDL_C	HDL-C	2	1.49	0.992	1.016	7	4

Cholestero			7062/46317			0.977–	0.9621108	0.98328938
1	VLDL_C	VLDL Cholesterol	7	1.05	1.001	1.025	45	5
Cholestery			7061/46328			0.989–	0.2356214	0.35452298
1 esters	HDL_CE	Cholesteryl Esters in HDL	5	1.03	1.017	1.045	28	2
Cholestery			7083/46430			0.977–	0.9769782	0.98434664
1 esters	LDL_CE	Cholesteryl Esters in LDL	0	0.81	1.000	1.023	2	5
Cholestery			7081/46414			0.970–	0.5707596	0.69363429
1 esters	VLDL_CE	Cholesteryl Esters in VLDL	8	0.84	0.993	1.017	79	6
Cholestery			7048/46227			0.975–	0.8858181	0.93168575
1 esters	Total_CE	Total Esterified Cholesterol	0	1.24	0.998	1.022	51	8
			7132/46729			0.908–	1.41107E-	7.64329E-
Fatty acids	Unsaturation	Degree of Unsaturation	3	0.17	0.931	0.954	08	07
			7092/46464			0.945–	0.0112184	0.03609891
Fatty acids	DHA	Docosahexaenoic Acid	3	0.74	0.969	0.993	33	9
		Docosahexaenoic Acid to	7052/46249			0.923–	8.25435E-	0.00014119
Fatty acids	DHA_pct	Total Fatty Acids percentage	8	1.20	0.946	0.969	06	3
			7069/46361			0.972–	0.6722009	0.77469964
Fatty acids	LA	Linoleic Acid	8	0.96	0.995	1.019	21	3
		Linoleic Acid to Total Fatty	7052/46258			0.912–	3.33733E-	1.35579E-
Fatty acids	LA_pct	Acids percentage	6	1.18	0.934	0.957	08	06
		Monounsaturated Fatty	7094/46499			1.025–	6.5336E-	0.00078645
Fatty acids	MUFA	Acids	8	0.66	1.050	1.076	05	2

		Monounsaturated Fatty						
		Acids to Total Fatty Acids	7052/46258			1.037-	2.97844E-	6.45329E-
Fatty acids	MUFA_pct	percentage	6	1.18	1.064	1.092	06	05
			7093/46490			0.960-	0.1836364	0.29113095
Fatty acids	Omega_3	Omega-3 Fatty Acids	9	0.68	0.984	1.008	49	6
		Omega-3 Fatty Acids to						
		Polyunsaturated Fatty Acids	7061/46302			0.951-	0.0331539	0.08101526
Fatty acids	Omega_3_pct_PUFA	percentage	5	1.08	0.974	0.998	39	3
		Omega-3 Fatty Acids to Total	7052/46258			0.931-	0.0001464	
Fatty acids	Omega_3_pct	Fatty Acids percentage	6	1.18	0.954	0.977	13	0.00135955
			7061/46302			0.982-	0.6365770	0.74959257
Fatty acids	Omega_6	Omega-6 Fatty Acids	5	1.08	1.006	1.030	8	6
	Omega_6_by_Omega	Omega-6 Fatty Acids to	7061/46302			1.003-	0.0269397	0.07060826
Fatty acids	_3	Omega-3 Fatty Acids ratio	5	1.08	1.028	1.053	69	7
		Omega-6 Fatty Acids to						
		Polyunsaturated Fatty Acids	7061/46302			0.999-	0.0589382	0.12438272
Fatty acids	Omega_6_pct_PUFA	percentage	5	1.08	1.023	1.048	76	6
		Omega-6 Fatty Acids to Total	7052/46258			0.917-	3.03689E-	9.69878E-
Fatty acids	Omega_6_pct	Fatty Acids percentage	6	1.18	0.939	0.962	07	06
			7061/46302			0.976-	0.9843466	0.98434664
Fatty acids	PUFA	Polyunsaturated Fatty Acids	5	1.08	1.000	1.024	45	5

		Polyunsaturated Fatty Acids						
		to Monounsaturated Fatty	7059/46294			0.903–	1.31217E-	7.64329E-
Fatty acids	PUFA_by_MUFA	Acids ratio	7	1.10	0.927	0.952	08	07
		Polyunsaturated Fatty Acids						
		to Total Fatty Acids	7052/46258			0.902–	1.13021E-	1.22439E-
Fatty acids	PUFA_pct	percentage	6	1.18	0.924	0.946	10	08
			7066/46370			1.025–	5.66877E-	
Fatty acids	SFA	Saturated Fatty Acids	2	0.94	1.050	1.075	05	0.00073941
		Saturated Fatty Acids to Total	7052/46258			1.045–	2.45794E-	1.14118E-
Fatty acids	SFA_pct	Fatty Acids percentage	6	1.18	1.070	1.095	08	06
			7052/46258			1.012–	0.0030736	0.01331912
Fatty acids	Total_FA	Total Fatty Acids	6	1.18	1.037	1.062	44	4
Fluid			7070/46335			0.928–	8.87614E-	0.00014423
balance	Albumin	Albumin	6	1.01	0.949	0.971	06	7
Fluid			7002/45789			0.989–	0.2759645	0.40039494
balance	Creatinine	Creatinine	4	2.18	1.014	1.040	17	7
Free			7072/46352			0.998–	0.0733549	0.14625982
cholesterol	HDL_FC	Free Cholesterol in HDL	1	0.98	1.026	1.054	26	2
Free			7086/46454			0.964–	0.2641199	0.38666214
cholesterol	LDL_FC	Free Cholesterol in LDL	3	0.76	0.987	1.010	89	6
Free			7084/46437			0.990–	0.2551365	0.37862735
cholesterol	VLDL_FC	Free Cholesterol in VLDL	4	0.79	1.014	1.039	87	6

Free			7050/46227			0.978-	0.9299481	0.95947028
cholesterol	Total_FC	Total Free Cholesterol	7	1.24	1.001	1.025	24	7
Glycolysis								
related								
metabolite			7099/46536			0.983-	0.5533357	
s	Citrate	Citrate	6	0.58	1.007	1.032	52	0.68955551
Glycolysis								
related								
metabolite			7100/46537			1.035-	8.39839E-	2.27456E-
s	Glucose	Glucose	8	0.58	1.058	1.082	07	05
Glycolysis								
related								
metabolite			7132/46692			0.995-		0.21409861
s	Lactate	Lactate	8	0.25	1.019	1.044	0.1267366	5
Glycolysis								
related								
metabolite			7113/46580			1.002-	0.0314978	0.07814347
s	Pyruvate	Pyruvate	5	0.49	1.025	1.049	32	7
Inflammati			7068/46340			1.075-	2.92576E-	9.50872E-
on	GlycA	Glycoprotein Acetyls	7	1.00	1.102	1.131	14	12
Ketone			6995/45845			1.055-	1.86997E-	
bodies	bOHbutyrate	3-Hydroxybutyrate	8	2.06	1.077	1.099	12	3.0387E-10

Ketone bodies			7084/46445		1.005–		0.0153548	
	Acetate	Acetate	0	0.78	1.024	1.044	79	0.04455657
Ketone bodies			7143/46791		1.041–		7.98163E- 6.48507E-	
	Acetoacetate	Acetoacetate	1	0.04	1.060	1.081	10	08
Ketone bodies			7145/46765		1.033–		7.26619E-	
	Acetone	Acetone	6	0.09	1.052	1.071	08	2.6239E-06
Lipoprotein particle concentration								
		Concentration of HDL	7059/46307		1.002–		0.0349018 0.08340514	
	HDL_P	Particles	6	1.07	1.028	1.054	46	7
Lipoprotein particle concentration								
		Concentration of LDL	7093/46507		0.976–		0.9348306 0.96145552	
	LDL_P	Particles	9	0.64	0.999	1.022	02	4
Lipoprotein particle concentration								
		Concentration of VLDL	7086/46425		0.988–		0.3172904 0.45030302	
	VLDL_P	Particles	0	0.82	1.012	1.037	39	5
Lipoprotein particle concentration								
		Total Concentration of	7033/46148		1.001–		0.0446364 0.09936186	
	Total_P	Lipoprotein Particles	8	1.41	1.026	1.053	08	8

Lipoprotei								
n particle		Average Diameter for HDL	7148/46792			0.983–	0.4350291	0.58182906
sizes	HDL_size	Particles	2	0.04	1.011	1.040	16	4
Lipoprotei								
n particle		Average Diameter for LDL	7132/46706			0.956–	0.0819846	0.15597953
sizes	LDL_size	Particles	3	0.22	0.979	1.003	89	9
Lipoprotei								
n particle		Average Diameter for VLDL	7148/46790			1.012–	0.0044641	0.01727205
sizes	VLDL_size	Particles	7	0.04	1.039	1.066	63	9
Lipoprotei								
n		Cholesterol in Chylomicrons	7139/46716			1.011–	0.0041209	0.01653454
subclasses	XXL_VLDL_C	and Extremely Large VLDL	4	0.20	1.036	1.061	17	4
Lipoprotei								
n			7083/46427			0.958–	0.1054830	0.18940327
subclasses	IDL_C	Cholesterol in IDL	5	0.82	0.981	1.004	53	1
Lipoprotei								
n			7134/46735			0.985–	0.3487990	0.48652233
subclasses	L_HDL_C	Cholesterol in Large HDL	4	0.16	1.014	1.043	87	2
Lipoprotei								
n			7081/46430			0.970–	0.5602752	
subclasses	L_LDL_C	Cholesterol in Large LDL	1	0.81	0.993	1.017	07	0.68955551

Lipoprotei									
n			7134/46724			0.990–	0.2370163	0.35497834	
subclasses	L_VLDL_C	Cholesterol in Large VLDL	1	0.18	1.015	1.040	08	2	
Lipoprotei									
n			7086/46451			0.998–	0.0707373	0.14313698	
subclasses	M_HDL_C	Cholesterol in Medium HDL	2	0.77	1.025	1.052	48	1	
Lipoprotei									
n			7081/46436			0.978–	0.9290634	0.95947028	
subclasses	M_LDL_C	Cholesterol in Medium LDL	9	0.80	1.001	1.025	77	7	
Lipoprotei									
n			7098/46522			0.964–	0.2613371		
subclasses	M_VLDL_C	Cholesterol in Medium VLDL	7	0.61	0.987	1.010	24	0.3843193	
Lipoprotei									
n			7063/46355			0.996–	0.1096141	0.19256531	
subclasses	S_HDL_C	Cholesterol in Small HDL	6	0.97	1.020	1.044	04	8	
Lipoprotei									
n			7095/46506			0.979–	0.8593708	0.91273044	
subclasses	S_LDL_C	Cholesterol in Small LDL	2	0.65	1.002	1.026	19	5	
Lipoprotei									
n			7098/46520			0.971–	0.6083546	0.72158852	
subclasses	S_VLDL_C	Cholesterol in Small VLDL	1	0.62	0.994	1.018	34	6	

Lipoprotei								
n		Cholesterol in Very Large	7140/46739			0.982–	0.4987283	0.63315124
subclasses	XL_HDL_C	HDL	4	0.15	1.010	1.038	66	6
Lipoprotei								
n		Cholesterol in Very Large	7136/46716			0.995–	0.1271301	0.21409861
subclasses	XL_VLDL_C	VLDL	2	0.20	1.019	1.044	61	5
Lipoprotei								
n		Cholesterol in Very Small	7120/46629			0.958–	0.1228615	
subclasses	XS_VLDL_C	VLDL	5	0.38	0.981	1.005	24	0.21015787
Lipoprotei								
n		Cholesteryl Esters in Chylomicrons and Extremely	7144/46747			1.008–	0.0097529	0.03234396
subclasses	XXL_VLDL_CE	Large VLDL	4	0.13	1.032	1.058	5	7
Lipoprotei								
n			7090/46480			0.959–	0.1309390	0.21935658
subclasses	IDL_CE	Cholesteryl Esters in IDL	6	0.70	0.982	1.005	09	8
Lipoprotei								
n		Cholesteryl Esters in Large	7142/46758			0.985–	0.3624114	
subclasses	L_HDL_CE	HDL	3	0.11	1.013	1.043	04	0.50044756
Lipoprotei								
n		Cholesteryl Esters in Large	7084/46438			0.974–	0.8148234	0.88046396
subclasses	L_LDL_CE	LDL	9	0.79	0.997	1.021	52	6

Lipoprotei								
n		Cholesteryl Esters in Large	7138/46740			0.981–	0.6812883	0.77964339
subclasses	L_VLDL_CE	VLDL	6	0.15	1.005	1.030	86	9
Lipoprotei								
n		Cholesteryl Esters in Medium	7093/46484			0.997–	0.0838336	0.15840659
subclasses	M_HDL_CE	HDL	8	0.69	1.023	1.050	46	9
Lipoprotei								
n		Cholesteryl Esters in Medium	7090/46493			0.982–	0.6802314	0.77964339
subclasses	M_LDL_CE	LDL	0	0.68	1.005	1.029	42	9
Lipoprotei								
n		Cholesteryl Esters in Medium	7105/46571			0.956–	0.0635863	0.13162782
subclasses	M_VLDL_CE	VLDL	4	0.51	0.978	1.001	66	8
Lipoprotei								
n		Cholesteryl Esters in Small	7066/46371			0.992–	0.1887921	0.29641275
subclasses	S_HDL_CE	HDL	3	0.94	1.016	1.040	26	8
Lipoprotei								
n		Cholesteryl Esters in Small	7096/46514			0.983–	0.5906848	0.71256413
subclasses	S_LDL_CE	LDL	7	0.63	1.006	1.030	2	4
Lipoprotei								
n		Cholesteryl Esters in Small	7118/46610			0.970–	0.5544474	
subclasses	S_VLDL_CE	VLDL	2	0.43	0.993	1.017	31	0.68955551

Lipoprotei									
n		Cholesteryl Esters in Very	7146/46784			0.983–	0.4485883	0.58550686	
subclasses	XL_HDL_CE	Large HDL	8	0.05	1.011	1.040	36	5	
Lipoprotei									
n		Cholesteryl Esters in Very	7146/46767			0.985–	0.4461895	0.58550686	
subclasses	XL_VLDL_CE	Large VLDL	4	0.09	1.009	1.034	09	5	
Lipoprotei									
n		Cholesteryl Esters in Very	7124/46656			0.954–	0.0562978	0.12037366	
subclasses	XS_VLDL_CE	Small VLDL	4	0.33	0.977	1.001	37	6	
Lipoprotei		Concentration of							
n		Chylomicrons and Extremely	7134/46709			1.019–	0.0003600	0.00254364	
subclasses	XXL_VLDL_P	Large VLDL Particles	9	0.21	1.043	1.068	24	6	
Lipoprotei									
n		Concentration of IDL	7105/46557			0.957–	0.0795987	0.15490783	
subclasses	IDL_P	Particles	4	0.54	0.979	1.002	96	7	
Lipoprotei									
n		Concentration of Large HDL	7133/46726			0.990–	0.2060334		
subclasses	L_HDL_P	Particles	3	0.18	1.019	1.048	56	0.31735011	
Lipoprotei									
n		Concentration of Large LDL	7101/46532			0.974–	0.8196826	0.88046396	
subclasses	L_LDL_P	Particles	0	0.59	0.997	1.021	36	6	

Lipoprotei								
n		Concentration of Large VLDL	7143/46763			1.005–	0.0165658	0.04681663
subclasses	L_VLDL_P	Particles	7	0.10	1.030	1.056	87	8
Lipoprotei								
n		Concentration of Medium	7089/46469			1.003–	0.0313513	0.07814347
subclasses	M_HDL_P	HDL Particles	2	0.73	1.029	1.056	26	7
Lipoprotei								
n		Concentration of Medium	7105/46575			0.977–	0.9686372	0.98392343
subclasses	M_LDL_P	LDL Particles	7	0.50	1.000	1.024	94	5
Lipoprotei								
n		Concentration of Medium	7122/46618			0.984–	0.5568603	
subclasses	M_VLDL_P	VLDL Particles	4	0.41	1.007	1.031	06	0.68955551
Lipoprotei								
n		Concentration of Small HDL	7062/46331			1.000–	0.0537773	0.11651757
subclasses	S_HDL_P	Particles	6	1.02	1.024	1.048	43	7
Lipoprotei								
n		Concentration of Small LDL	7108/46577			0.983–	0.6015794	0.72145134
subclasses	S_LDL_P	Particles	3	0.50	1.006	1.030	29	5
Lipoprotei								
n		Concentration of Small VLDL	7114/46616			0.990–	0.2513319	0.37469212
subclasses	S_VLDL_P	Particles	4	0.41	1.014	1.039	47	3

Lipoprotei								
n		Concentration of Very Large	7147/46784			0.988–	0.2659739	0.38763021
subclasses	XL_HDL_P	HDL Particles	4	0.05	1.016	1.044	61	2
Lipoprotei								
n		Concentration of Very Large	7136/46740			1.013–	0.0029259	
subclasses	XL_VLDL_P	VLDL Particles	8	0.15	1.037	1.063	37	0.0128504
Lipoprotei								
n		Concentration of Very Small	7119/46619			0.972–	0.6698058	0.77468645
subclasses	XS_VLDL_P	VLDL Particles	1	0.41	0.995	1.019	26	3
Lipoprotei								
n		Free Cholesterol in Chylomicrons and Extremely	7145/46769			1.016–	0.0011278	0.00591215
subclasses	XXL_VLDL_FC	Large VLDL	4	0.09	1.040	1.066	58	8
Lipoprotei								
n			7098/46518			0.958–	0.1132400	0.19680765
subclasses	IDL_FC	Free Cholesterol in IDL	4	0.62	0.981	1.005	99	8
Lipoprotei								
n		Free Cholesterol in Large	7135/46744			0.991–	0.1882079	0.29641275
subclasses	L_HDL_FC	HDL	2	0.14	1.019	1.048	74	8
Lipoprotei								
n		Free Cholesterol in Large	7088/46471			0.962–	0.2191865	0.33287681
subclasses	L_LDL_FC	LDL	7	0.72	0.985	1.009	79	4

Lipoprotei									
n		Free Cholesterol in Large	7144/46773			0.999–	0.0548793	0.11811784	
subclasses	L_VLDL_FC	VLDL	3	0.08	1.024	1.050	68	6	
Lipoprotei									
n		Free Cholesterol in Medium	7090/46478			1.003–	0.0282899	0.07239553	
subclasses	M_HDL_FC	HDL	2	0.71	1.030	1.058	46	2	
Lipoprotei									
n		Free Cholesterol in Medium	7088/46472			0.968–	0.4580127	0.59171484	
subclasses	M_LDL_FC	LDL	5	0.72	0.991	1.015	97	3	
Lipoprotei									
n		Free Cholesterol in Medium	7108/46589			0.976–	0.9572102	0.98136701	
subclasses	M_VLDL_FC	VLDL	1	0.47	0.999	1.023	88	5	
Lipoprotei									
n		Free Cholesterol in Small	7078/46402			1.006–	0.0146658	0.04294064	
subclasses	S_HDL_FC	HDL	0	0.87	1.030	1.055	83	9	
Lipoprotei									
n		Free Cholesterol in Small	7109/46587			0.968–	0.4200090	0.56870057	
subclasses	S_LDL_FC	LDL	0	0.48	0.991	1.014	89	9	
Lipoprotei									
n		Free Cholesterol in Small	7104/46537			0.973–	0.7275304	0.82310042	
subclasses	S_VLDL_FC	VLDL	7	0.58	0.996	1.019	37	3	

Lipoprotei									
n		Free Cholesterol in Very	7144/46762			0.980–	0.6215777	0.73459185	
subclasses	XL_HDL_FC	Large HDL	6	0.10	1.007	1.034	26	8	
Lipoprotei									
n		Free Cholesterol in Very	7140/46757			1.004–	0.0217429	0.05800815	
subclasses	XL_VLDL_FC	Large VLDL	8	0.11	1.029	1.054	35	8	
Lipoprotei									
n		Free Cholesterol in Very	7129/46654			0.970–	0.5625613		
subclasses	XS_VLDL_FC	Small VLDL	3	0.33	0.993	1.017	01	0.68955551	
Lipoprotei									
n		Phospholipids in							
n		Chylomicrons and Extremely	7142/46753			1.017–	0.0008096	0.00438566	
subclasses	XXL_VLDL_PL	Large VLDL	0	0.12	1.042	1.067	62	9	
Lipoprotei									
n			7088/46471			0.965–	0.3193163	0.45120787	
subclasses	IDL_PL	Phospholipids in IDL	8	0.72	0.988	1.012	44	7	
Lipoprotei									
n			7118/46669			0.992–	0.1604708	0.26076513	
subclasses	L_HDL_PL	Phospholipids in Large HDL	8	0.30	1.020	1.050	52	4	
Lipoprotei									
n			7083/46436			0.968–	0.4217133	0.56870057	
subclasses	L_LDL_PL	Phospholipids in Large LDL	7	0.80	0.991	1.014	53	9	

Lipoprotei								
n		Phospholipids in Large	7145/46781			1.001–	0.0387211	0.08988848
subclasses	L_VLDL_PL	VLDL	9	0.06	1.026	1.052	95	9
Lipoprotei								
n		Phospholipids in Medium	7086/46457			1.007–	0.0136921	
subclasses	M_HDL_PL	HDL	6	0.75	1.032	1.059	84	0.04082532
Lipoprotei								
n		Phospholipids in Medium	7081/46435			0.980–	0.7709677	0.85809769
subclasses	M_LDL_PL	LDL	4	0.80	1.003	1.027	75	5
Lipoprotei								
n		Phospholipids in Medium	7113/46611			0.981–	0.7293936	0.82310042
subclasses	M_VLDL_PL	VLDL	8	0.42	1.004	1.028	05	3
Lipoprotei								
n			7074/46368			1.008–	0.0082136	0.02809933
subclasses	S_HDL_PL	Phospholipids in Small HDL	2	0.94	1.033	1.058	51	1
Lipoprotei								
n			7119/46647			0.990–	0.2855980	0.41070513
subclasses	S_LDL_PL	Phospholipids in Small LDL	1	0.35	1.013	1.036	33	7
Lipoprotei								
n			7099/46543			0.980–	0.7935101	0.86831918
subclasses	S_VLDL_PL	Phospholipids in Small VLDL	3	0.57	1.003	1.027	45	2

Lipoprotei								
n		Phospholipids in Very Large	7148/46800			0.983–	0.4339324	0.58182906
subclasses	XL_HDL_PL	HDL	9	0.02	1.011	1.040	32	4
Lipoprotei								
n		Phospholipids in Very Large	7139/46749			1.007–	0.0115658	0.03649417
subclasses	XL_VLDL_PL	VLDL	8	0.13	1.032	1.057	45	2
Lipoprotei								
n		Phospholipids in Very Small	7128/46648			0.978–	0.8928772	0.93307106
subclasses	XS_VLDL_PL	VLDL	2	0.34	1.002	1.026	34	5
Lipoprotei								
n		Total Lipids in Chylomicrons	7124/46622			1.018–	0.0006934	0.00402454
subclasses	XXL_VLDL_L	and Extremely Large VLDL	7	0.40	1.043	1.068	61	8
Lipoprotei								
n			7070/46367			0.961–	0.1903774	0.29746474
subclasses	IDL_L	Total Lipids in IDL	5	0.94	0.984	1.008	36	4
Lipoprotei								
n			7093/46531			0.985–	0.3434358	0.48110621
subclasses	L_HDL_L	Total Lipids in Large HDL	4	0.59	1.014	1.043	2	3
Lipoprotei								
n			7069/46377			0.971–	0.6066672	0.72158852
subclasses	L_LDL_L	Total Lipids in Large LDL	7	0.92	0.994	1.017	56	6

Lipoprotei									
n			7127/46689			1.003–	0.0303865	0.07655529	
subclasses	L_VLDL_L	Total Lipids in Large VLDL	6	0.26	1.028	1.054	65	9	
Lipoprotei									
n			7078/46390			1.003–	0.0299079	0.07593806	
subclasses	M_HDL_L	Total Lipids in Medium HDL	7	0.89	1.029	1.056	16	8	
Lipoprotei									
n			7072/46391			0.980–	0.7756561	0.86036943	
subclasses	M_LDL_L	Total Lipids in Medium LDL	0	0.89	1.003	1.027	4	8	
Lipoprotei									
n		Total Lipids in Medium	7091/46497			0.987–	0.3926383		
subclasses	M_VLDL_L	VLDL	2	0.67	1.011	1.035	25	0.53616578	
Lipoprotei									
n			7062/46337			1.006–	0.0155038	0.04459068	
subclasses	S_HDL_L	Total Lipids in Small HDL	1	1.01	1.030	1.055	4	9	
Lipoprotei									
n			7085/46467			0.986–	0.4469077	0.58550686	
subclasses	S_LDL_L	Total Lipids in Small LDL	2	0.73	1.009	1.033	53	5	
Lipoprotei									
n			7091/46494			0.986–	0.4099880	0.55751517	
subclasses	S_VLDL_L	Total Lipids in Small VLDL	5	0.67	1.010	1.035	86	9	

Lipoprotei									
n		Total Lipids in Very Large	7103/46546			0.981–	0.5585560		
subclasses	XL_HDL_L	HDL	2	0.56	1.008	1.037	97	0.68955551	
Lipoprotei									
n		Total Lipids in Very Large	7133/46690			1.009–	0.0074981	0.02648786	
subclasses	XL_VLDL_L	VLDL	0	0.26	1.034	1.060	03	2	
Lipoprotei									
n		Total Lipids in Very Small	7101/46544			0.973–	0.7456205	0.83560920	
subclasses	XS_VLDL_L	VLDL	7	0.57	0.996	1.020	19	2	
Lipoprotei		Triglycerides in							
n		Chylomicrons and Extremely	7133/46700			1.020–	0.0002683	0.00212703	
subclasses	XXL_VLDL_TG	Large VLDL	8	0.23	1.045	1.070	34	6	
Lipoprotei									
n			7088/46499			1.002–	0.0342983	0.08257005	
subclasses	IDL_TG	Triglycerides in IDL	9	0.66	1.026	1.051	3	4	
Lipoprotei									
n			7107/46579			0.985–	0.4702605	0.60408965	
subclasses	L_HDL_TG	Triglycerides in Large HDL	5	0.49	1.009	1.034	65	9	
Lipoprotei									
n			7078/46456			1.011–	0.0037343		
subclasses	L_LDL_TG	Triglycerides in Large LDL	3	0.75	1.036	1.060	78	0.01555991	

Lipoprotei								
n			7140/46766			1.010–	0.0051740	0.01932829
subclasses	L_VLDL_TG	Triglycerides in Large VLDL	0	0.09	1.035	1.061	36	6
Lipoprotei								
n		Triglycerides in Medium	7109/46568			0.994–	0.1385042	0.22886009
subclasses	M_HDL_TG	HDL	9	0.51	1.018	1.043	44	2
Lipoprotei								
n			7083/46462			1.019–	0.0003930	0.00266112
subclasses	M_LDL_TG	Triglycerides in Medium LDL	6	0.74	1.043	1.068	27	4
Lipoprotei								
n		Triglycerides in Medium	7145/46776			1.000–	0.0464430	
subclasses	M_VLDL_TG	VLDL	0	0.07	1.025	1.050	44	0.1026802
Lipoprotei								
n			7129/46687			1.001–	0.0424100	0.09676333
subclasses	S_HDL_TG	Triglycerides in Small HDL	3	0.26	1.026	1.052	42	1
Lipoprotei								
n			7124/46645			1.019–	0.0003869	0.00266112
subclasses	S_LDL_TG	Triglycerides in Small LDL	9	0.35	1.043	1.068	15	4
Lipoprotei								
n			7135/46723			1.002–	0.0360597	0.08554327
subclasses	S_VLDL_TG	Triglycerides in Small VLDL	5	0.18	1.026	1.052	8	4

Lipoproteins		Triglycerides in Very Large	7113/46612			1.005–	0.0188586	0.05194111
subclasses	XL_HDL_TG	HDL	2	0.42	1.028	1.052	2	4
Lipoproteins		Triglycerides in Very Large	7143/46757			1.015–	0.0014239	0.00701209
subclasses	XL_VLDL_TG	VLDL	7	0.11	1.041	1.066	94	1
Lipoproteins		Triglycerides in Very Small	7108/46586			1.003–	0.0275256	0.07127905
subclasses	XS_VLDL_TG	VLDL	8	0.48	1.027	1.052	04	3
Other			7073/46379			0.989–	0.2839369	
lipids	Phosphatidylc	Phosphatidylcholines	7	0.92	1.014	1.040	57	0.41013116
Other			7071/46353			0.998–	0.0709078	0.14313698
lipids	Phosphoglyc	Phosphoglycerides	3	0.97	1.023	1.049	59	1
Other			7061/46326			0.995–	0.1092655	0.19256531
lipids	Sphingomyelins	Sphingomyelins	3	1.03	1.021	1.047	25	8
Other			7068/46338			0.995–	0.1223558	
lipids	Cholines	Total Cholines	4	1.01	1.020	1.046	6	0.21015787
Other		Triglycerides to	7030/46130			1.007–	0.0124950	0.03867511
lipids	TG_by_PG	Phosphoglycerides ratio	7	1.45	1.034	1.061	38	9
Phospholipids			7066/46336			1.003–	0.0276343	0.07127905
lipids	HDL_PL	Phospholipids in HDL	0	1.01	1.030	1.058	4	3

Phospholi			7077/46405			0.974-	0.7814149	
pids	LDL_PL	Phospholipids in LDL	5	0.86	0.997	1.020	17	0.86088084
Phospholi			7082/46413			0.994-	0.1344387	0.22406455
pids	VLDL_PL	Phospholipids in VLDL	9	0.85	1.019	1.044	34	7
Phospholi		Total Phospholipids in	7052/46226			0.999-	0.0629573	0.13116107
pids	Total_PL	Lipoprotein Particles	1	1.25	1.024	1.049	16	5
Relative								
cholesterol		Cholesteryl Esters to						
concentrati		Cholesterol in HDL	7054/46287			0.957-	0.0668150	0.13657165
ons	HDL_CE_pct_C	percentage	7	1.11	0.979	1.001	58	9
Relative								
cholesterol		Cholesteryl Esters to						
concentrati		Cholesterol in LDL	7080/46421			1.015-	0.0017189	0.00809630
ons	LDL_CE_pct_C	percentage	2	0.83	1.039	1.065	07	1
Relative								
cholesterol		Cholesteryl Esters to						
concentrati		Cholesterol in VLDL	7062/46317			0.919-	2.0505E-	4.76008E-
ons	VLDL_CE_pct_C	percentage	7	1.05	0.942	0.966	06	05
Relative								
cholesterol		Free Cholesterol to						
concentrati		Cholesterol in HDL	7054/46287			0.997-	0.0820692	0.15597953
ons	HDL_FC_pct_C	percentage	7	1.11	1.021	1.045	35	9

Relative									
cholesterol		Free Cholesterol to							
concentrati		Cholesterol in LDL	7080/46421			0.949–	0.0047043	0.01779851	
ons	LDL_FC_pct_C	percentage	2	0.83	0.970	0.991	31	1	
Relative									
cholesterol		Free Cholesterol to							
concentrati		Cholesterol in VLDL	7062/46317			1.034–	4.73779E-	8.55434E-	
ons	VLDL_FC_pct_C	percentage	7	1.05	1.061	1.088	06	05	
Relative									
cholesterol									
concentrati		Total Esterified Cholesterol to	7027/46110			0.970–	0.6444851	0.75344481	
ons	Total_CE_pct_C	Total Cholesterol percentage	2	1.49	0.994	1.019	03	5	
Relative									
cholesterol									
concentrati		Total Free Cholesterol to	7027/46110			0.980–	0.7416035		
ons	Total_FC_pct_C	Total Cholesterol percentage	2	1.49	1.004	1.029	76	0.83398326	
Relative									
lipid									
concentrati		Cholesterol to Total Lipids in	7044/46233			0.955–	0.1131589	0.19680765	
ons	HDL_C_pct	HDL percentage	9	1.23	0.980	1.005	11	8	
Relative									
lipid		Cholesterol to Total Lipids in	7065/46356			0.974–	0.0786237	0.15393208	
	LDL_C_pct	LDL percentage	2	0.97	0.987	1.001	73	5	

concentrati									
ons									
Relative									
lipid									
concentrati		Cholesterol to Total Lipids in	7042/46196			0.927–	5.68777E-		
ons	VLDL_C_pct	VLDL percentage	7	1.31	0.950	0.974	05	0.00073941	
Relative									
lipid									
concentrati		Cholesteryl Esters to Total	7044/46233			0.954–	0.0780023	0.15364105	
ons	HDL_CE_pct	Lipids in HDL percentage	9	1.23	0.978	1.002	82	6	
Relative									
lipid									
concentrati		Cholesteryl Esters to Total	7065/46356			0.980–	0.5919763	0.71256413	
ons	LDL_CE_pct	Lipids in LDL percentage	2	0.97	1.008	1.036	57	4	
Relative									
lipid									
concentrati		Cholesteryl Esters to Total	7042/46196			0.925–	2.62189E-	0.00038732	
ons	VLDL_CE_pct	Lipids in VLDL percentage	7	1.31	0.948	0.972	05	5	
Relative									
lipid		Free Cholesterol to							
concentrati		Cholesteryl Esters in HDL	7054/46287			0.999–	0.0668025	0.13657165	
ons	HDL_FC_by_CE	percentage	7	1.11	1.022	1.045	41	9	

Relative									
lipid		Free Cholesterol to							
concentrati		Cholesteryl Esters in LDL	7080/46421			0.939–	0.0017187	0.00809630	
ons	LDL_FC_by_CE	percentage	2	0.83	0.962	0.986	27	1	
Relative									
lipid		Free Cholesterol to							
concentrati		Cholesteryl Esters in VLDL	7062/46317			1.036–	2.0426E-	4.76008E-	
ons	VLDL_FC_by_CE	percentage	7	1.05	1.061	1.088	06	05	
Relative									
lipid									
concentrati		Free Cholesterol to Total	7044/46233			0.977–	0.8547014	0.91074743	
ons	HDL_FC_pct	Lipids in HDL percentage	9	1.23	1.002	1.028	36	2	
Relative									
lipid									
concentrati		Free Cholesterol to Total	7065/46356			0.946–	0.0017533	0.00814059	
ons	LDL_FC_pct	Lipids in LDL percentage	2	0.97	0.966	0.987	59	5	
Relative									
lipid									
concentrati		Free Cholesterol to Total	7042/46196			0.933–	0.0004354	0.00277480	
ons	VLDL_FC_pct	Lipids in VLDL percentage	7	1.31	0.957	0.981	31	3	
Relative		Phospholipids to Total Lipids	7044/46233			0.999–	0.0567565	0.12056134	
lipid	HDL_PL_pct	in HDL percentage	9	1.23	1.025	1.051	71	3	

concentrati									
ons									
Relative									
lipid									
concentrati		Phospholipids to Total Lipids	7065/46356			0.959–	0.1271416	0.21409861	
ons	LDL_PL_pct	in LDL percentage	2	0.97	0.982	1.005	39	5	
Relative									
lipid									
concentrati		Phospholipids to Total Lipids	7042/46196			0.932–	0.0003082	0.00238520	
ons	VLDL_PL_pct	in VLDL percentage	7	1.31	0.955	0.979	42	5	
Relative									
lipid									
concentrati		Total Cholesterol to Total	7001/45956			0.934–	0.0002571	0.00208936	
ons	Total_C_pct	Lipids percentage	8	1.82	0.956	0.980	53	5	
Relative									
lipid									
concentrati		Total Esterified Cholesterol to	7001/45956			0.934–	0.0004135	0.00272123	
ons	Total_CE_pct	Total Lipids percentage	8	1.82	0.957	0.981	07	7	
Relative									
lipid		Total Free Cholesterol to							
concentrati		Total Esterified Cholesterol	7027/46110			0.981–	0.6441102	0.75344481	
ons	Total_FC_by_CE	ratio	2	1.49	1.006	1.031	57	5	

Relative								
lipid								
concentrati		Total Free Cholesterol to	7001/45956			0.936–	0.0002360	0.00201878
ons	Total_FC_pct	Total Lipids percentage	8	1.82	0.958	0.980	42	4
Relative								
lipid								
concentrati		Total Phospholipids to Total	7001/45956			0.976–	0.9718136	0.98392343
ons	Total_PL_pct	Lipids percentage	8	1.82	1.000	1.026	08	5
Relative								
lipid								
concentrati		Total Triglycerides to Total	7001/45956			1.005–	0.0198092	0.05365005
ons	Total_TG_pct	Lipids percentage	8	1.82	1.032	1.060	5	2
Relative								
lipid								
concentrati		Triglycerides to Total Lipids	7044/46233			0.979–	0.6967976	0.79181546
ons	HDL_TG_pct	in HDL percentage	9	1.23	1.005	1.032	08	3
Relative								
lipid								
concentrati		Triglycerides to Total Lipids	7065/46356			1.019–	0.0005052	0.00309824
ons	LDL_TG_pct	in LDL percentage	2	0.97	1.043	1.068	53	7
Relative		Triglycerides to Total Lipids	7042/46196			1.017–	0.0011106	0.00591215
lipid	VLDL_TG_pct	in VLDL percentage	7	1.31	1.044	1.072	32	8

concentrati									
ons									
Relative									
lipoprotein		Cholesteryl Esters to							
cholesterol		Cholesterol in Chylomicrons							
concentrati	XXL_VLDL_CE_pct_	and Extremely Large VLDL	7139/46716			0.949–	0.0160007	0.04561620	
ons	C	percentage	4	0.20	0.972	0.995	61	6	
Relative									
lipoprotein									
cholesterol									
concentrati		Cholesteryl Esters to	7083/46427			0.980–	0.8207214	0.88046396	
ons	IDL_CE_pct_C	Cholesterol in IDL percentage	5	0.82	1.003	1.026	94	6	
Relative									
lipoprotein									
cholesterol		Cholesteryl Esters to							
concentrati		Cholesterol in Large HDL	7134/46735			0.967–	0.0967030	0.17656460	
ons	L_HDL_CE_pct_C	percentage	4	0.16	0.984	1.003	77	7	
Relative									
lipoprotein									
cholesterol		Cholesteryl Esters to							
concentrati		Cholesterol in Large LDL	7081/46430			1.022–	0.0003312	0.00239246	
ons	L_LDL_CE_pct_C	percentage	1	0.81	1.049	1.077	03	7	

Relative									
lipoprotein									
cholesterol		Cholesteryl Esters to							
concentrati		Cholesterol in Large VLDL	7134/46724			0.919–	3.96546E-	7.58102E-	
ons	L_VLDL_CE_pct_C	percentage	1	0.18	0.943	0.967	06	05	
Relative									
lipoprotein									
cholesterol		Cholesteryl Esters to							
concentrati		Cholesterol in Medium HDL	7086/46451			0.977–	0.0425758	0.09676333	
ons	M_HDL_CE_pct_C	percentage	2	0.77	0.988	1.000	66	1	
Relative									
lipoprotein									
cholesterol		Cholesteryl Esters to							
concentrati		Cholesterol in Medium LDL	7081/46436			1.007–	0.0135547		
ons	M_LDL_CE_pct_C	percentage	9	0.80	1.034	1.061	51	0.04082532	
Relative									
lipoprotein									
cholesterol		Cholesteryl Esters to							
concentrati		Cholesterol in Medium VLDL	7098/46522			0.958–	0.0197875	0.05365005	
ons	M_VLDL_CE_pct_C	percentage	7	0.61	0.977	0.996	31	2	
Relative		Cholesteryl Esters to	7063/46355			0.962–	0.0891865	0.16500956	
lipoprotein	S_HDL_CE_pct_C	Cholesterol in Small HDL	6	0.97	0.982	1.003	52	3	

cholesterol		percentage							
concentrati									
ons									
Relative									
lipoprotein									
cholesterol		Cholesteryl Esters to							
concentrati		Cholesterol in Small LDL	7095/46506			1.001–	0.0383219		
ons	S_LDL_CE_pct_C	percentage	2	0.65	1.025	1.050	3	0.08965046	
Relative									
lipoprotein									
cholesterol		Cholesteryl Esters to							
concentrati		Cholesterol in Small VLDL	7098/46520			0.965–	0.4397923	0.58367077	
ons	S_VLDL_CE_pct_C	percentage	1	0.62	0.990	1.016	57	2	
Relative									
lipoprotein									
cholesterol		Cholesteryl Esters to							
concentrati		Cholesterol in Very Large	7140/46739			0.974–	0.5719815	0.69363429	
ons	XL_HDL_CE_pct_C	HDL percentage	4	0.15	0.994	1.015	12	6	
Relative									
lipoprotein		Cholesteryl Esters to							
cholesterol		Cholesterol in Very Large	7136/46716			0.935–	0.0007421	0.00409633	
cholesterol	XL_VLDL_CE_pct_C	VLDL percentage	2	0.20	0.959	0.982	82	1	

concentrati									
ons									
Relative									
lipoprotein									
cholesterol		Cholesteryl Esters to							
concentrati		Cholesterol in Very Small	7120/46629			0.932–	0.0001035	0.00109104	
ons	XS_VLDL_CE_pct_C	VLDL percentage	5	0.38	0.954	0.977	56	6	
Relative									
lipoprotein		Free Cholesterol to							
cholesterol		Cholesterol in Chylomicrons							
concentrati	XXL_VLDL_FC_pct_	and Extremely Large VLDL	7139/46716			0.997–	0.0779164	0.15364105	
ons	C	percentage	4	0.20	1.023	1.050	05	6	
Relative									
lipoprotein									
cholesterol									
concentrati		Free Cholesterol to	7083/46427			0.974–	0.8072419	0.87743688	
ons	IDL_FC_pct_C	Cholesterol in IDL percentage	5	0.82	0.997	1.020	33	4	
Relative									
lipoprotein									
cholesterol		Free Cholesterol to							
concentrati		Cholesterol in Large HDL	7134/46735			0.996–	0.1034466	0.18677871	
ons	L_HDL_FC_pct_C	percentage	4	0.16	1.019	1.043	73	5	

Relative								
lipoprotein								
cholesterol		Free Cholesterol to						
concentrati		Cholesterol in Large LDL	7081/46430			0.948–	0.0007257	0.00409633
ons	L_LDL_FC_pct_C	percentage	1	0.81	0.967	0.986	06	1
Relative								
lipoprotein								
cholesterol		Free Cholesterol to						
concentrati		Cholesterol in Large VLDL	7134/46724			1.026–	0.0001293	0.00127360
ons	L_VLDL_FC_pct_C	percentage	1	0.18	1.055	1.084	2	2
Relative								
lipoprotein								
cholesterol		Free Cholesterol to						
concentrati		Cholesterol in Medium HDL	7086/46451			1.001–	0.0443298	0.09936006
ons	M_HDL_FC_pct_C	percentage	2	0.77	1.025	1.051	76	7
Relative								
lipoprotein								
cholesterol		Free Cholesterol to						
concentrati		Cholesterol in Medium LDL	7081/46436			0.951–	0.0223637	0.05909114
ons	M_LDL_FC_pct_C	percentage	9	0.80	0.973	0.996	24	2
Relative		Free Cholesterol to	7098/46522			1.022–	0.0001570	0.00141782
lipoprotein	M_VLDL_FC_pct_C	Cholesterol in Medium VLDL	7	0.61	1.046	1.071	51	2

cholesterol		percentage							
concentrati									
ons									
Relative									
lipoprotein									
cholesterol		Free Cholesterol to							
concentrati		Cholesterol in Small HDL	7063/46355			0.996–	0.0983420	0.17855402	
ons	S_HDL_FC_pct_C	percentage	6	0.97	1.021	1.046	61	2	
Relative									
lipoprotein									
cholesterol		Free Cholesterol to							
concentrati		Cholesterol in Small LDL	7095/46506			0.958–	0.0723441	0.14513477	
ons	S_LDL_FC_pct_C	percentage	2	0.65	0.980	1.002	05	8	
Relative									
lipoprotein									
cholesterol		Free Cholesterol to							
concentrati		Cholesterol in Small VLDL	7098/46520			0.984–	0.4880756	0.62450628	
ons	S_VLDL_FC_pct_C	percentage	1	0.62	1.009	1.035	81	5	
Relative									
lipoprotein		Free Cholesterol to							
cholesterol		Cholesterol in Very Large	7140/46739			0.974–	0.9701188	0.98392343	
concentrati									
ons	XL_HDL_FC_pct_C	HDL percentage	4	0.15	1.000	1.026	92	5	

concentrati									
ons									
Relative									
lipoprotein									
cholesterol		Free Cholesterol to							
concentrati		Cholesterol in Very Large	7136/46716			1.007–	0.0143059	0.04226746	
ons	XL_VLDL_FC_pct_C	VLDL percentage	2	0.20	1.035	1.063	11	3	
Relative									
lipoprotein									
cholesterol		Free Cholesterol to							
concentrati		Cholesterol in Very Small	7120/46629			1.024–	0.0001040	0.00109104	
ons	XS_VLDL_FC_pct_C	VLDL percentage	5	0.38	1.050	1.076	69	6	
Relative									
lipoprotein									
lipid		Cholesterol to Total Lipids in							
concentrati		Chylomicrons and Extremely	7124/46622			0.949–	0.0334869		
ons	XXL_VLDL_C_pct	Large VLDL percentage	7	0.40	0.973	0.998	67	0.08121839	
Relative									
lipoprotein									
lipid									
concentrati		Cholesterol to Total Lipids in	7070/46367			0.943–	0.0020264		
ons	IDL_C_pct	IDL percentage	5	0.94	0.965	0.987	33	0.00902179	

Relative								
lipoprotein								
lipid								
concentrati		Cholesterol to Total Lipids in	7093/46531			0.964–	0.1684051	0.27094887
ons	L_HDL_C_pct	Large HDL percentage	4	0.59	0.985	1.006	46	4
Relative								
lipoprotein								
lipid								
concentrati		Cholesterol to Total Lipids in	7069/46377			0.976–	0.4555582	0.59171484
ons	L_LDL_C_pct	Large LDL percentage	7	0.92	0.993	1.011	73	3
Relative								
lipoprotein								
lipid								
concentrati		Cholesterol to Total Lipids in	7127/46689			0.933–	0.0002250	
ons	L_VLDL_C_pct	Large VLDL percentage	6	0.26	0.956	0.979	74	0.001977
Relative								
lipoprotein								
lipid								
concentrati		Cholesterol to Total Lipids in	7078/46390			0.963–	0.2985490	0.42556327
ons	M_HDL_C_pct	Medium HDL percentage	7	0.89	0.987	1.012	04	3
Relative		Cholesterol to Total Lipids in	7072/46391			0.973–	0.1063825	0.18996887
lipoprotein	M_LDL_C_pct	Medium LDL percentage	0	0.89	0.988	1.003	69	3

lipid								
concentrati								
ons								
Relative								
lipoprotein								
lipid								
concentrati		Cholesterol to Total Lipids in	7091/46497			0.936–	0.0004186	0.00272123
ons	M_VLDL_C_pct	Medium VLDL percentage	2	0.67	0.958	0.981	52	7
Relative								
lipoprotein								
lipid								
concentrati		Cholesterol to Total Lipids in	7062/46337			0.949–		0.05194111
ons	S_HDL_C_pct	Small HDL percentage	1	1.01	0.972	0.995	0.0188008	4
Relative								
lipoprotein								
lipid								
concentrati		Cholesterol to Total Lipids in	7085/46467			0.968–	0.0001371	0.00131103
ons	S_LDL_C_pct	Small LDL percentage	2	0.73	0.979	0.990	54	2
Relative								
lipoprotein		Cholesterol to Total Lipids in	7091/46494			0.935–	0.0002471	0.00205964
lipid	S_VLDL_C_pct	Small VLDL percentage	5	0.67	0.957	0.980	58	9

concentrati
ons

Relative
lipoprotein
lipid

concentrati		Cholesterol to Total Lipids in	7103/46546			0.974–	0.7882247	0.86544943
ons	XL_HDL_C_pct	Very Large HDL percentage	2	0.56	0.997	1.020	12	1

Relative
lipoprotein
lipid

concentrati		Cholesterol to Total Lipids in	7133/46690			0.941–	0.0091144	0.03085604
ons	XL_VLDL_C_pct	Very Large VLDL percentage	0	0.26	0.966	0.991	01	4

Relative
lipoprotein
lipid

concentrati		Cholesterol to Total Lipids in	7101/46544			0.933–	0.0001241	0.00126060
ons	XS_VLDL_C_pct	Very Small VLDL percentage	7	0.57	0.955	0.978	21	9

Relative
lipoprotein
lipid

concentrati		Cholesteryl Esters to Total						
		Lipids in Chylomicrons and						
concentrati		Extremely Large VLDL	7124/46622			0.944–	0.0111905	0.03609891
ons	XXL_VLDL_CE_pct	percentage	7	0.40	0.968	0.993	31	9

Relative								
lipoprotein								
lipid								
concentrati		Cholesteryl Esters to Total	7070/46367			0.946–	0.0063885	0.02306967
ons	IDL_CE_pct	Lipids in IDL percentage	5	0.94	0.968	0.991	25	3
Relative								
lipoprotein								
lipid		Cholesteryl Esters to Total						
concentrati		Lipids in Large HDL	7093/46531			0.960–	0.0893590	0.16500956
ons	L_HDL_CE_pct	percentage	4	0.59	0.981	1.003	25	3
Relative								
lipoprotein								
lipid		Cholesteryl Esters to Total						
concentrati		Lipids in Large LDL	7069/46377			0.982–	0.3634019	
ons	L_LDL_CE_pct	percentage	7	0.92	1.016	1.050	21	0.50044756
Relative								
lipoprotein								
lipid		Cholesteryl Esters to Total						
concentrati		Lipids in Large VLDL	7127/46689			0.926–	2.38578E-	0.00036922
ons	L_VLDL_CE_pct	percentage	6	0.26	0.949	0.972	05	8
Relative		Cholesteryl Esters to Total	7078/46390			0.961–	0.1747695	0.27843194
lipoprotein	M_HDL_CE_pct	Lipids in Medium HDL	7	0.89	0.984	1.007	88	2

lipid		percentage							
concentrati									
ons									
Relative									
lipoprotein									
lipid		Cholesteryl Esters to Total							
concentrati		Lipids in Medium LDL	7072/46391			0.983–	0.4588065	0.59171484	
ons	M_LDL_CE_pct	percentage	0	0.89	1.010	1.038	86	3	
Relative									
lipoprotein									
lipid		Cholesteryl Esters to Total							
concentrati		Lipids in Medium VLDL	7091/46497			0.939–	0.0004569	0.00285598	
ons	M_VLDL_CE_pct	percentage	2	0.67	0.960	0.982	57	1	
Relative									
lipoprotein									
lipid		Cholesteryl Esters to Total							
concentrati		Lipids in Small HDL	7062/46337			0.950–	0.0217753	0.05800815	
ons	S_HDL_CE_pct	percentage	1	1.01	0.973	0.996	7	8	
Relative		Cholesteryl Esters to Total							
lipoprotein		Lipids in Small LDL	7085/46467			0.966–	0.2143105	0.32854209	
lipid	S_LDL_CE_pct	percentage	2	0.73	0.987	1.008	33	1	

concentrati									
ons									
Relative									
lipoprotein									
lipid		Cholesteryl Esters to Total							
concentrati		Lipids in Small VLDL	7091/46494			0.933–	6.11306E-	0.00076413	
ons	S_VLDL_CE_pct	percentage	5	0.67	0.954	0.976	05	3	
Relative									
lipoprotein									
lipid		Cholesteryl Esters to Total							
concentrati		Lipids in Very Large HDL	7103/46546			0.973–	0.4923813		
ons	XL_HDL_CE_pct	percentage	2	0.56	0.993	1.013	99	0.62754492	
Relative									
lipoprotein									
lipid		Cholesteryl Esters to Total							
concentrati		Lipids in Very Large VLDL	7133/46690			0.938–	0.0040504	0.01645507	
ons	XL_VLDL_CE_pct	percentage	0	0.26	0.962	0.988	8	6	
Relative									
lipoprotein									
lipid		Cholesteryl Esters to Total							
concentrati		Lipids in Very Small VLDL	7101/46544			0.932–	9.38249E-	0.00108903	
ons	XS_VLDL_CE_pct	percentage	7	0.57	0.954	0.977	05	9	

Relative									
lipoprotein		Free Cholesterol to							
lipid		Cholesteryl Esters in							
concentrati	XXL_VLDL_FC_by_	Chylomicrons and Extremely	7139/46716			1.006–	0.0133975		
ons	CE	Large VLDL ratio	4	0.20	1.029	1.053	51	0.04082532	
Relative									
lipoprotein									
lipid		Free Cholesterol to							
concentrati		Cholesteryl Esters in IDL	7083/46427			0.975–	0.8208633	0.88046396	
ons	IDL_FC_by_CE	percentage	5	0.82	0.997	1.021	29	6	
Relative									
lipoprotein									
lipid		Free Cholesterol to							
concentrati		Cholesteryl Esters in Large	7134/46735			0.996–	0.1387244	0.22886009	
ons	L_HDL_FC_by_CE	HDL ratio	4	0.16	1.012	1.028	25	2	
Relative									
lipoprotein									
lipid		Free Cholesterol to							
concentrati		Cholesteryl Esters in Large	7081/46430			0.930–	0.0003312	0.00239246	
ons	L_LDL_FC_by_CE	LDL ratio	0	0.81	0.954	0.979	65	7	
Relative		Free Cholesterol to	7134/46724			1.034–	3.29214E-	6.68716E-	
lipoprotein	L_VLDL_FC_by_CE	Cholesteryl Esters in Large	1	0.18	1.060	1.086	06	05	

lipid		VLDL ratio						
concentrati								
ons								
Relative								
lipoprotein								
lipid		Free Cholesterol to						
concentrati		Cholesteryl Esters in Medium	7086/46451			0.998–	0.1443495	0.23574679
ons	M_HDL_FC_by_CE	HDL ratio	2	0.77	1.007	1.016	76	4
Relative								
lipoprotein								
lipid		Free Cholesterol to						
concentrati		Cholesteryl Esters in Medium	7081/46436			0.935–	0.0136749	
ons	M_LDL_FC_by_CE	LDL ratio	9	0.80	0.963	0.992	47	0.04082532
Relative								
lipoprotein								
lipid		Free Cholesterol to						
concentrati		Cholesteryl Esters in Medium	7098/46522			0.998–	0.0849872	0.15874061
ons	M_VLDL_FC_by_CE	VLDL ratio	7	0.61	1.017	1.036	83	4
Relative		Free Cholesterol to						
lipoprotein		Cholesteryl Esters in Small	7063/46355			0.998–	0.1070718	0.19015491
lipid	S_HDL_FC_by_CE	HDL ratio	6	0.97	1.010	1.022	42	1

concentrati									
ons									
Relative									
lipoprotein									
lipid		Free Cholesterol to							
concentrati		Cholesteryl Esters in Small	7095/46506			0.952–	0.0383428		
ons	S_LDL_FC_by_CE	LDL ratio	2	0.65	0.975	0.999	12	0.08965046	
Relative									
lipoprotein									
lipid		Free Cholesterol to							
concentrati		Cholesteryl Esters in Small	7098/46520			0.984–	0.4400770	0.58367077	
ons	S_VLDL_FC_by_CE	VLDL ratio	1	0.62	1.010	1.037	31	2	
Relative									
lipoprotein									
lipid		Free Cholesterol to							
concentrati		Cholesteryl Esters in Very	7140/46739			0.987–	0.5643746		
ons	XL_HDL_FC_by_CE	Large HDL ratio	4	0.15	1.006	1.025	63	0.68955551	
Relative									
lipoprotein									
lipid		Free Cholesterol to							
concentrati		Cholesteryl Esters in Very	7136/46716			1.018–	0.0007436	0.00409633	
ons	XL_VLDL_FC_by_CE	Large VLDL ratio	2	0.20	1.043	1.069	42	1	

Relative								
lipoprotein								
lipid		Free Cholesterol to						
concentrati		Cholesteryl Esters in Very	7120/46629			1.023–	0.0001038	0.00109104
ons	XS_VLDL_FC_by_CE	Small VLDL ratio	5	0.38	1.048	1.073	89	6
Relative								
lipoprotein		Free Cholesterol to Total						
lipid		Lipids in Chylomicrons and						
concentrati		Extremely Large VLDL	7124/46622			0.958–	0.1645460	0.26605704
ons	XXL_VLDL_FC_pct	percentage	7	0.40	0.982	1.007	51	7
Relative								
lipoprotein								
lipid								
concentrati		Free Cholesterol to Total	7070/46367			0.952–	0.0188137	0.05194111
ons	IDL_FC_pct	Lipids in IDL percentage	5	0.94	0.973	0.996	34	4
Relative								
lipoprotein								
lipid		Free Cholesterol to Total						
concentrati		Lipids in Large HDL	7093/46531			0.976–	0.8425084	0.90070806
ons	L_HDL_FC_pct	percentage	4	0.59	0.998	1.020	69	7
Relative		Free Cholesterol to Total	7069/46377			0.948–	0.0012473	0.00633421
lipoprotein	L_LDL_FC_pct	Lipids in Large LDL	7	0.92	0.967	0.987	54	9

lipid		percentage							
concentrati									
ons									
Relative									
lipoprotein									
lipid		Free Cholesterol to Total							
concentrati		Lipids in Large VLDL	7127/46689			0.953–	0.0607623	0.12740492	
ons	L_VLDL_FC_pct	percentage	6	0.26	0.977	1.001	5	7	
Relative									
lipoprotein									
lipid		Free Cholesterol to Total							
concentrati		Lipids in Medium HDL	7078/46390			0.985–	0.3794446	0.52033548	
ons	M_HDL_FC_pct	percentage	7	0.89	1.012	1.040	48	7	
Relative									
lipoprotein									
lipid		Free Cholesterol to Total							
concentrati		Lipids in Medium LDL	7072/46391			0.947–	0.0067697	0.02417783	
ons	M_LDL_FC_pct	percentage	0	0.89	0.969	0.991	94	6	
Relative		Free Cholesterol to Total							
lipoprotein		Lipids in Medium VLDL	7091/46497			0.941–	0.0020062		
lipid	M_VLDL_FC_pct	percentage	2	0.67	0.964	0.987	76	0.00902179	

concentrati									
ons									
Relative									
lipoprotein									
lipid		Free Cholesterol to Total							
concentrati		Lipids in Small HDL	7062/46337			0.973–	0.8857905	0.93168575	
ons	S_HDL_FC_pct	percentage	1	1.01	0.998	1.024	89	8	
Relative									
lipoprotein									
lipid		Free Cholesterol to Total							
concentrati		Lipids in Small LDL	7085/46467			0.950–	0.0079353	0.02743616	
ons	S_LDL_FC_pct	percentage	2	0.73	0.971	0.992	82	1	
Relative									
lipoprotein									
lipid		Free Cholesterol to Total							
concentrati		Lipids in Small VLDL	7091/46494			0.943–	0.0055993	0.02044703	
ons	S_VLDL_FC_pct	percentage	5	0.67	0.966	0.990	41	2	
Relative									
lipoprotein									
lipid		Free Cholesterol to Total							
concentrati		Lipids in Very Large HDL	7103/46546			0.974–	0.9814148	0.98434664	
ons	XL_HDL_FC_pct	percentage	2	0.56	1.000	1.026	21	5	

Relative								
lipoprotein								
lipid		Free Cholesterol to Total						
concentrati		Lipids in Very Large VLDL	7133/46690			0.955–	0.1183898	
ons	XL_VLDL_FC_pct	percentage	0	0.26	0.980	1.005	71	0.20466334
Relative								
lipoprotein								
lipid		Free Cholesterol to Total						
concentrati		Lipids in Very Small VLDL	7101/46544			0.950–	0.0120527	0.03766498
ons	XS_VLDL_FC_pct	percentage	7	0.57	0.972	0.994	96	8
Relative								
lipoprotein		Phospholipids to Total Lipids						
lipid		in Chylomicrons and						
concentrati		Extremely Large VLDL	7124/46622			0.970–	0.7632888	0.85247035
ons	XXL_VLDL_PL_pct	percentage	7	0.40	0.996	1.023	45	9
Relative								
lipoprotein								
lipid								
concentrati		Phospholipids to Total Lipids	7070/46367			0.991–	0.2290517	0.34624099
ons	IDL_PL_pct	in IDL percentage	5	0.94	1.014	1.038	33	2
Relative		Phospholipids to Total Lipids	7093/46531			1.001–	0.0429473	0.09692974
lipoprotein	L_HDL_PL_pct	in Large HDL percentage	4	0.59	1.028	1.056	34	6

lipid									
concentrati									
ons									
Relative									
lipoprotein									
lipid									
concentrati		Phospholipids to Total Lipids	7069/46377			0.943–	0.0037039		
ons	L_LDL_PL_pct	in Large LDL percentage	7	0.92	0.966	0.989	05	0.01555991	
Relative									
lipoprotein									
lipid									
concentrati		Phospholipids to Total Lipids	7127/46689			0.972–	0.8708044	0.92186141	
ons	L_VLDL_PL_pct	in Large VLDL percentage	6	0.26	0.998	1.025	79	9	
Relative									
lipoprotein									
lipid									
concentrati		Phospholipids to Total Lipids	7078/46390			0.992–	0.1709743	0.27372745	
ons	M_HDL_PL_pct	in Medium HDL percentage	7	0.89	1.019	1.046	82	9	
Relative									
lipoprotein		Phospholipids to Total Lipids	7072/46391			0.963–	0.2601721		
lipid	M_LDL_PL_pct	in Medium LDL percentage	0	0.89	0.986	1.010	45	0.3843193	

concentrati								
ons								
Relative								
lipoprotein								
lipid								
concentrati		Phospholipids to Total Lipids	7091/46497			0.946–	0.0033572	0.01435667
ons	M_VLDL_PL_pct	in Medium VLDL percentage	2	0.67	0.967	0.989	53	2
Relative								
lipoprotein								
lipid								
concentrati		Phospholipids to Total Lipids	7062/46337			1.000–	0.0490887	0.10707273
ons	S_HDL_PL_pct	in Small HDL percentage	1	1.01	1.025	1.050	32	7
Relative								
lipoprotein								
lipid								
concentrati		Phospholipids to Total Lipids	7085/46467			0.997–	0.0849322	0.15874061
ons	S_LDL_PL_pct	in Small LDL percentage	2	0.73	1.022	1.047	01	4
Relative								
lipoprotein								
lipid								
concentrati		Phospholipids to Total Lipids	7091/46494			0.945–	0.0113392	0.03612985
ons	S_VLDL_PL_pct	in Small VLDL percentage	5	0.67	0.969	0.993	17	8

Relative									
lipoprotein									
lipid		Phospholipids to Total Lipids							
concentrati		in Very Large HDL	7103/46546			0.958–	0.0327719	0.08068858	
ons	XL_HDL_PL_pct	percentage	2	0.56	0.978	0.998	8	6	
Relative									
lipoprotein									
lipid		Phospholipids to Total Lipids							
concentrati		in Very Large VLDL	7133/46690			0.972–	0.8965702	0.93392730	
ons	XL_VLDL_PL_pct	percentage	0	0.26	0.998	1.025	14	6	
Relative									
lipoprotein									
lipid		Phospholipids to Total Lipids							
concentrati		in Very Small VLDL	7101/46544			1.009–	0.0077730	0.02716373	
ons	XS_VLDL_PL_pct	percentage	7	0.57	1.034	1.059	09	9	
Relative									
lipoprotein		Triglycerides to Total Lipids							
lipid		in Chylomicrons and							
concentrati		Extremely Large VLDL	7124/46622			0.984–	0.5193180	0.65165390	
ons	XXL_VLDL_TG_pct	percentage	7	0.40	1.008	1.033	37	8	
Relative		Triglycerides to Total Lipids	7070/46367			1.016–	0.0012464	0.00633421	
lipoprotein	IDL_TG_pct	in IDL percentage	5	0.94	1.041	1.066	96	9	

lipid									
concentrati									
ons									
Relative									
lipoprotein									
lipid									
concentrati		Triglycerides to Total Lipids	7093/46531			0.975–	0.9836917	0.98434664	
ons	L_HDL_TG_pct	in Large HDL percentage	4	0.59	1.000	1.025	8	5	
Relative									
lipoprotein									
lipid									
concentrati		Triglycerides to Total Lipids	7069/46377			1.018–	0.0006050	0.00357518	
ons	L_LDL_TG_pct	in Large LDL percentage	7	0.92	1.043	1.068	32	8	
Relative									
lipoprotein									
lipid									
concentrati		Triglycerides to Total Lipids	7127/46689			1.012–	0.0044185	0.01727205	
ons	L_VLDL_TG_pct	in Large VLDL percentage	6	0.26	1.039	1.067	64	9	
Relative									
lipoprotein									
lipid									
concentrati		Triglycerides to Total Lipids	7078/46390			0.976–	0.8913029	0.93307106	
ons	M_HDL_TG_pct	in Medium HDL percentage	7	0.89	1.002	1.028	51	5	

concentrati
ons

Relative
lipoprotein
lipid

concentrati
ons

M_LDL_TG_pct

Triglycerides to Total Lipids
in Medium LDL percentage

7072/46391

0

0.89

1.044

1.020–

1.069

0.0003157

15

0.00238622

1

Relative
lipoprotein
lipid

concentrati
ons

M_VLDL_TG_pct

Triglycerides to Total Lipids
in Medium VLDL percentage

7091/46497

2

0.67

1.038

1.012–

1.064

0.0042569

15

0.01687192

0.01687192

Relative
lipoprotein
lipid

concentrati
ons

S_HDL_TG_pct

Triglycerides to Total Lipids
in Small HDL percentage

7062/46337

1

1.01

1.013

0.987–

1.040

0.3268315

44

0.45982793

0.45982793

Relative
lipoprotein
lipid

concentrati
ons

S_LDL_TG_pct

Triglycerides to Total Lipids
in Small LDL percentage

7085/46467

2

0.73

1.040

1.015–

1.065

0.0016097

29

0.00780838

5

Relative									
lipoprotein									
lipid									
concentrati		Triglycerides to Total Lipids	7091/46494			1.012-	0.0038178		
ons	S_VLDL_TG_pct	in Small VLDL percentage	5	0.67	1.037	1.063	15	0.0157062	
Relative									
lipoprotein									
lipid		Triglycerides to Total Lipids							
concentrati		in Very Large HDL	7103/46546			0.996-	0.0927754		
ons	XL_HDL_TG_pct	percentage	2	0.56	1.022	1.048	81	0.17035046	
Relative									
lipoprotein									
lipid		Triglycerides to Total Lipids							
concentrati		in Very Large VLDL	7133/46690			0.980-	0.6075183	0.72158852	
ons	XL_VLDL_TG_pct	percentage	0	0.26	1.007	1.035	34	6	
Relative									
lipoprotein									
lipid		Triglycerides to Total Lipids							
concentrati		in Very Small VLDL	7101/46544			1.019-	0.0005285	0.00318121	
ons	XS_VLDL_TG_pct	percentage	7	0.57	1.045	1.071	72	8	
Total			7044/46233			1.000-	0.0469798	0.10316514	
lipids	HDL_L	Total Lipids in HDL	9	1.23	1.028	1.056	18	2	

Total			7065/46356			0.974-	0.8064301	0.87743688
lipids	LDL_L	Total Lipids in LDL	2	0.97	0.997	1.021	82	4
Total		Total Lipids in Lipoprotein	7001/45956			0.994-	0.1400121	0.22981794
lipids	Total_L	Particles	8	1.82	1.018	1.042	62	3
Total			7042/46196			0.997-	0.0814304	0.15597953
lipids	VLDL_L	Total Lipids in VLDL	7	1.31	1.022	1.048	66	9
Triglycerid			7044/46245			1.011-	0.0047097	0.01779851
es	Total_TG	Total Triglycerides	2	1.21	1.036	1.062	6	1
Triglycerid			7098/46510			0.997-	0.0820671	0.15597953
es	HDL_TG	Triglycerides in HDL	2	0.64	1.021	1.046	84	9
Triglycerid			7074/46430			1.015-	0.0014170	0.00701209
es	LDL_TG	Triglycerides in LDL	6	0.81	1.039	1.064	76	1
Triglycerid			7083/46427			1.010-	0.0054261	0.02003980
es	VLDL_TG	Triglycerides in VLDL	1	0.82	1.036	1.062	63	7

Supplementary Table 4 Results of associations between plasma metabolites and incident colorectal cancer stratified by sex

Group	Metabolite (Abbreviations)	Metabolite	Female					Male				
			Events/ Total	H R	95% CI	P value	Q value	Events/ Total	H R	95% CI	P value	Q value
Amino acids	Ala	Alanine	3183/25	1.0	0.967–	0.91402	0.94005	3937/21	0.9	0.959–	0.56827	0.67900
			5171	02	1.038	4714	7063	1267	91	1.023	1082	0374
Amino acids	Gln	Glutamine	3161/25	0.9	0.946–	0.32297	0.42668	3911/20	0.9	0.908–	5.34863	0.00158
			3700	82	1.018	1077	9431	9889	37	0.967	E-05	0276
Amino acids	Gly	Glycine	3180/25	0.9	0.967–	0.97446	0.99240	3927/21	0.9	0.915–	0.10109	0.25947
			4332	99	1.033	6907	6415	0514	60	1.008	7074	6245
Amino acids	His	Histidine	3189/25	0.9	0.923–	0.02444	0.06256	3939/21	0.9	0.889–	1.436E-	5.83374
			5441	58	0.995	774	3115	1525	20	0.952	06	E-05
Amino acids	Ile	Isoleucine	3191/25	1.0	0.990–	0.15618	0.24881	3943/21	0.9	0.943–	0.12137	0.29884
			5702	26	1.062	0592	712	1687	75	1.007	7641	6464
Amino acids	Leu	Leucine	3186/25	0.9	0.963–	0.97831	0.99240	3928/21	0.9	0.914–	0.00112	0.01354
			5268	99	1.037	875	6415	1293	45	0.978	5032	2046
Amino acids	Phe	Phenylalanine	3185/25	0.9	0.962–	0.86385	0.89412	3940/21	0.9	0.940–	0.08612	0.24129
			5433	97	1.033	9812	2417	1457	71	1.004	3977	5625
Amino acids	Total_BCAA	Total Concentration of Branched-Chain Amino Acids (Leucine + Isoleucine + Valine)	3166/25	1.0	0.964–	0.98922	0.99297	3911/21	0.9	0.911–	0.00088	0.01151
			4379	00	1.037	0125	5995	0464	43	0.976	5931	7103
Amino acids	Tyr	Tyrosine	3176/25	0.9	0.956–	0.56709	0.66058	3928/21	0.9	0.959–	0.63081	0.72700
			4912	90	1.025	0716	9543	1007	92	1.025	3635	153
Amino acids	Val	Valine	3169/25	0.9	0.957–	0.72142	0.79749	3919/21	0.9	0.905–	0.00022	0.00497
			4541	93	1.031	9362	8444	0583	37	0.970	7328	3983
Apolipoproteins	ApoA1	Apolipoprotein A1	3167/25	0.9	0.950–	0.52893	0.62059	3917/21	1.0	1.025–	0.00095	0.01199
			4111	88	1.027	7803	4895	0406	62	1.101	9258	0729
Apolipoproteins	ApoB	Apolipoprotein B	3173/25	1.0	0.995–	0.09233	0.16163	3923/21	0.9	0.952–	0.27811	0.46352
			4470	30	1.067	5398	1073	0664	83	1.014	4141	3568
Apolipoproteins	ApoB_by_ApoA1	Apolipoprotein B to Apolipoprotein A1 ratio	3166/25	1.0	0.998–	0.06121	0.12205	3914/21	0.9	0.928–	0.01257	0.07569
			3944	35	1.073	593	6303	0264	59	0.991	739	7256
Cholesterol	Clinical_LDL_C	Clinical LDL Cholesterol	3170/25	1.0	0.983–	0.30557	0.41856	3918/21	0.9	0.952–	0.22651	0.42415
			4235	19	1.057	8369	425	0486	81	1.012	1756	1914

Cholesterol	HDL_C	HDL Cholesterol	3153/25	0.9	0.936-	0.19590	0.29628	3901/20	1.0	1.019-	0.00381	0.03354
			3203	74	1.014	8222	5537	9674	59	1.100	9071	5898
Cholesterol	LDL_C	LDL Cholesterol	3166/25	1.0	0.994-	0.10284	0.17229	3914/21	0.9	0.956-	0.35587	0.52404
			3950	30	1.068	5303	239	0262	86	1.016	8165	3166
Cholesterol	Remnant_C	Remnant Cholesterol (Non-HDL, Non-LDL -Cholesterol)	3140/25	1.0	0.983-	0.32208	0.42668	3887/20	0.9	0.956-	0.39300	0.54792
			2244	18	1.055	5179	9431	8858	86	1.018	2433	9777
Cholesterol	Total_C	Total Cholesterol	3140/25	1.0	0.978-	0.42644	0.52103	3887/20	1.0	0.971-	0.90369	0.93535
			2244	15	1.055	373	0873	8858	02	1.034	3825	1889
Cholesterol	non_HDL_C	Total Cholesterol Minus HDL-C	3140/25	1.0	0.988-	0.19808	0.29804	3887/20	0.9	0.956-	0.35796	0.52404
			2244	24	1.062	2233	0397	8858	86	1.017	1793	3166
Cholesterol	VLDL_C	VLDL Cholesterol	3158/25	1.0	0.999-	0.05698	0.11574	3904/20	0.9	0.957-	0.51166	0.63228
			3426	34	1.071	1427	3523	9751	89	1.022	4816	5419
Cholesteryl esters	HDL_CE	Cholesteryl Esters in HDL	3155/25	0.9	0.935-	0.16491	0.25767	3906/20	1.0	1.017-	0.00486	0.03858
			3425	73	1.012	1962	494	9860	57	1.099	7879	6844
Cholesteryl esters	LDL_CE	Cholesteryl Esters in LDL	3167/25	1.0	1.000-	0.05037	0.10562	3916/21	0.9	0.958-	0.46816	0.59732
			3997	36	1.074	6597	8349	0303	89	1.020	9599	2085
Cholesteryl esters	VLDL_CE	Cholesteryl Esters in VLDL	3169/25	1.0	0.990-	0.16156	0.25489	3912/21	0.9	0.952-	0.31856	0.49294
			3918	25	1.060	675	8998	0230	83	1.016	8098	5828
Cholesteryl esters	Total_CE	Total Esterified Cholesterol	3151/25	1.0	0.976-	0.47932	0.57272	3897/20	1.0	0.971-	0.91769	0.94084
			2868	14	1.053	3397	097	9402	02	1.033	0191	9565
Fatty acids	Unsaturation	Degree of Unsaturation	3187/25	0.9	0.909-	0.00460	0.01761	3945/21	0.9	0.894-	1.21479	5.64011
			5646	45	0.983	8161	9437	1647	23	0.953	E-06	E-05
Fatty acids	DHA	Docosahexaenoic Acid	3169/25	0.9	0.948-	0.37495	0.47601	3923/21	0.9	0.928-	0.01487	0.08364
			4181	84	1.020	149	2633	0462	60	0.992	1828	1118
Fatty acids	DHA_pct	Docosahexaenoic Acid to Total Fatty Acids percentage	3147/25	0.9	0.911-	0.00676	0.02363	3905/20	0.9	0.914-	0.00022	0.00497
			3016	47	0.985	3706	6607	9482	43	0.973	9568	3983
Fatty acids	LA	Linoleic Acid	3157/25	1.0	0.995-	0.09250	0.16163	3912/20	0.9	0.951-	0.23657	0.42415
			3635	32	1.071	2706	1073	9983	81	1.012	2093	1914
Fatty acids	LA_pct	Linoleic Acid to Total Fatty Acids percentage	3147/25	0.9	0.915-	0.01614	0.04770	3905/20	0.9	0.900-	1.80214	6.50773
			3067	52	0.991	6231	4773	9519	28	0.957	E-06	E-05
Fatty acids	MUFA	Monounsaturated Fatty Acids	3170/25	1.0	1.039-	0.00010	0.00172	3924/21	1.0	1.010-	0.01048	0.06813
			4413	80	1.123	5953	1741	0585	41	1.074	2955	9206

Fatty acids	MUFA_pct	Monounsaturated Fatty Acids to Total Fatty Acids percentage	3147/25	1.0	1.039–	0.00016	0.00203	3905/20	1.0	1.021–	0.00157	0.01823
			3067	82	1.128	3057	8212	9519	56	1.092	1117	618
Fatty acids	Omega_3	Omega-3 Fatty Acids	3168/25	1.0	0.974–	0.60848	0.70126	3925/21	0.9	0.936–	0.04765	0.17802
			4332	09	1.046	6166	9518	0577	67	1.000	491	1214
Fatty acids	Omega_3_pct_PUFA	Omega-3 Fatty Acids to Polyunsaturated Fatty Acids percentage	3154/25	0.9	0.958–	0.76358	0.83276	3907/20	0.9	0.929–	0.00993	0.06588
			3316	94	1.032	2323	5956	9709	59	0.990	2933	1696
Fatty acids	Omega_3_pct	Omega-3 Fatty Acids to Total Fatty Acids percentage	3147/25	0.9	0.942–	0.22914	0.33246	3905/20	0.9	0.906–	6.12753	0.00165
			3067	77	1.014	1671	0014	9519	36	0.967	E-05	9538
Fatty acids	Omega_6	Omega-6 Fatty Acids	3154/25	1.0	1.002–	0.03984	0.08809	3907/20	0.9	0.965–	0.77558	0.84371
			3316	40	1.079	7162	7466	9709	95	1.027	2395	62
Fatty acids	Omega_6_by_Omega_3	Omega-6 Fatty Acids to Omega-3 Fatty Acids ratio	3154/25	1.0	0.971–	0.67333	0.75844	3907/20	1.0	1.010–	0.00992	0.06588
			3316	08	1.047	0737	5253	9709	42	1.076	0698	1696
Fatty acids	Omega_6_pct_PUFA	Omega-6 Fatty Acids to Polyunsaturated Fatty Acids percentage	3154/25	1.0	0.970–	0.79106	0.85414	3907/20	1.0	1.006–	0.02020	0.09801
			3316	05	1.041	9517	4827	9709	39	1.073	6189	5094
Fatty acids	Omega_6_pct	Omega-6 Fatty Acids to Total Fatty Acids percentage	3147/25	0.9	0.896–	0.00111	0.00687	3905/20	0.9	0.915–	8.89724	0.00222
			3067	34	0.973	9043	9008	9519	42	0.971	E-05	4311
Fatty acids	PUFA	Polyunsaturated Fatty Acids	3154/25	1.0	0.999–	0.05846	0.11802	3907/20	0.9	0.956–	0.40372	0.55363
			3316	37	1.077	9545	8585	9709	87	1.018	4795	1049
Fatty acids	PUFA_by_MUFA	Polyunsaturated Fatty Acids to Monounsaturated Fatty Acids ratio	3152/25	0.9	0.882–	8.6685E	0.00156	3907/20	0.9	0.899–	1.82499	0.00059
			3279	19	0.959	-05	5146	9668	30	0.961	E-05	3123
Fatty acids	PUFA_pct	Polyunsaturated Fatty Acids to Total Fatty Acids percentage	3147/25	0.9	0.887–	0.00020	0.00243	3905/20	0.9	0.896–	1.65423	1.07525
			3067	25	0.964	9931	6702	9519	23	0.951	E-07	E-05
Fatty acids	SFA	Saturated Fatty Acids	3155/25	1.0	1.026–	0.00112	0.00687	3911/21	1.0	1.017–	0.00232	0.02280
			3688	67	1.109	1807	9008	0014	48	1.080	2181	9981
Fatty acids	SFA_pct	Saturated Fatty Acids to Total Fatty Acids percentage	3147/25	1.0	0.994–	0.09450	0.16308	3905/20	1.0	1.056–	2.90006	2.3563E
			3067	34	1.075	169	724	9519	88	1.121	E-08	-06
Fatty acids	Total_FA	Total Fatty Acids	3147/25	1.0	1.024–	0.00147	0.00840	3905/20	1.0	0.999–	0.06110	0.20685
			3067	65	1.107	3323	0525	9519	30	1.062	1307	3381
Fluid balance	Albumin	Albumin	3161/25	0.9	0.919–	0.00808	0.02628	3909/20	0.9	0.920–	0.00040	0.00695
			3484	52	0.987	9063	9456	9872	47	0.976	6704	6787
Fluid balance	Creatinine	Creatinine	3121/24	1.0	1.062–	2.34212	7.61189	3881/20	0.9	0.923–	0.01544	0.08364
			9786	93	1.126	E-09	E-07	8108	57	0.992	1437	1118

Free cholesterol	HDL_FC	Free Cholesterol in HDL	3161/25	0.9	0.948-	0.44100	0.53680	3911/20	1.0	1.024-	0.00170	0.01890
			3563	85	1.023	2329	0588	9958	66	1.110	889	5452
Free cholesterol	LDL_FC	Free Cholesterol in LDL	3169/25	1.0	0.978-	0.46082	0.55314	3917/21	0.9	0.951-	0.22937	0.42415
			4125	13	1.050	8984	372	0418	81	1.012	0734	1914
Free cholesterol	VLDL_FC	Free Cholesterol in VLDL	3166/25	1.0	1.013-	0.00709	0.02451	3918/21	1.0	0.968-	0.99071	0.99071
			4074	50	1.087	1192	742	0300	00	1.034	1088	1088
Free cholesterol	Total_FC	Total Free Cholesterol	3149/25	1.0	0.984-	0.26803	0.37625	3901/20	1.0	0.971-	0.92939	0.94683
			2887	21	1.059	8706	5885	9390	01	1.033	4225	9083
Glycolysis related metabolites	Citrate	Citrate	3172/25	1.0	0.995-	0.09055	0.16001	3927/21	0.9	0.954-	0.43417	0.57519
			4548	30	1.066	2371	7206	0818	87	1.020	2994	2018
Glycolysis related metabolites	Glucose	Glucose	3178/25	1.0	1.033-	0.00022	0.00250	3922/21	1.0	1.017-	0.00194	0.02040
			4624	72	1.112	3131	0604	0754	46	1.076	5994	1551
Glycolysis related metabolites	Lactate	Lactate	3192/25	1.0	0.977-	0.50424	0.59593	3940/21	1.0	0.993-	0.11916	0.29563
			5432	12	1.049	9612	136	1496	27	1.061	4372	68
Glycolysis related metabolites	Pyruvate	Pyruvate	3186/25	1.0	0.968-	0.86375	0.89412	3927/21	1.0	1.010-	0.00819	0.05918
			4925	03	1.040	8896	2417	0880	40	1.070	4946	5722
Inflammation	GlycA	Glycoprotein Acetyls	3161/25	1.1	1.070-	6.03672	9.80967	3907/20	1.1	1.074-	7.16451	1.16423
			3506	12	1.156	E-08	E-06	9901	11	1.148	E-10	E-07
Ketone bodies	bOHbutyrate	3-Hydroxybutyrate	3148/25	1.0	1.022-	0.00076	0.00538	3847/20	1.0	1.066-	7.7528E	2.51966
			1357	54	1.087	1857	2686	7101	96	1.126	-11	E-08
Ketone bodies	Acetate	Acetate	3171/25	1.0	0.996-	0.08376	0.15123	3913/21	1.0	0.999-	0.06587	0.21609
			4097	34	1.073	1405	587	0353	21	1.045	7051	4553
Ketone bodies	Acetoacetate	Acetoacetate	3195/25	1.0	1.014-	0.00470	0.01776	3948/21	1.0	1.045-	8.50156	9.21002
			5976	46	1.079	0352	2956	1935	69	1.094	E-09	E-07
Ketone bodies	Acetone	Acetone	3197/25	1.0	1.005-	0.02272	0.05907	3948/21	1.0	1.037-	3.68347	1.99521
			5815	37	1.070	1074	4794	1841	61	1.085	E-07	E-05
Lipoprotein particle concentrations	HDL_P	Concentration of HDL Particles	3156/25	0.9	0.962-	0.94587	0.96669	3903/20	1.0	1.021-	0.00174	0.01890
			3316	99	1.037	7777	8985	9760	57	1.095	5119	5452
Lipoprotein particle concentrations	LDL_P	Concentration of LDL Particles	3172/25	1.0	0.999-	0.05507	0.11257	3921/21	0.9	0.955-	0.39055	0.54792
			4422	34	1.070	6184	7107	0657	86	1.018	9555	9777
Lipoprotein particle concentrations	VLDL_P	Concentration of VLDL Particles	3174/25	1.0	1.013-	0.00723	0.02475	3912/21	0.9	0.964-	0.83286	0.89093
			4037	48	1.085	5005	1333	0213	96	1.030	9385	7501

Lipoprotein particle concentrations	Total_P	Total Concentration of Lipoprotein Particles	3146/25	1.0	0.968-	0.79966	0.85559	3887/20	1.0	1.016-	0.00431	0.03509
			2496	05	1.043	7522	5934	8992	52	1.089	9309	4383
Lipoprotein particle sizes	HDL_size	Average Diameter for HDL Particles	3199/25	0.9	0.929-	0.08608	0.15457	3949/21	1.0	1.007-	0.02107	0.10070
			5978	66	1.005	7196	6457	1944	49	1.093	1534	954
Lipoprotein particle sizes	LDL_size	Average Diameter for LDL Particles	3193/25	0.9	0.946-	0.41376	0.50937	3939/21	0.9	0.951-	0.21412	0.42199
			5494	84	1.023	8248	379	1569	81	1.011	7859	4642
Lipoprotein particle sizes	VLDL_size	Average Diameter for VLDL Particles	3198/25	1.0	1.044-	4.82041	0.00156	3950/21	1.0	0.976-	0.56470	0.67722
			5971	86	1.131	E-05	5146	1936	10	1.046	5047	93
Lipoprotein subclasses	XXL_VLDL_C	Cholesterol in Chylomicrons and Extremely Large VLDL	3196/25	1.0	1.020-	0.00279	0.01296	3943/21	1.0	0.996-	0.09213	0.25173
			5575	59	1.100	3155	822	1589	28	1.061	7182	8501
Lipoprotein subclasses	IDL_C	Cholesterol in IDL	3169/25	0.9	0.958-	0.73455	0.80925	3914/21	0.9	0.954-	0.32738	0.49888
			3966	94	1.030	0023	0026	0309	84	1.016	6569	219
Lipoprotein subclasses	L_HDL_C	Cholesterol in Large HDL	3191/25	0.9	0.938-	0.18485	0.28472	3943/21	1.0	1.008-	0.02014	0.09801
			5656	74	1.013	1971	46	1698	52	1.098	5358	5094
Lipoprotein subclasses	L_LDL_C	Cholesterol in Large LDL	3166/25	1.0	0.988-	0.19600	0.29628	3915/21	0.9	0.955-	0.35515	0.52404
			4001	24	1.062	4278	5537	0300	85	1.017	722	3166
Lipoprotein subclasses	L_VLDL_C	Cholesterol in Large VLDL	3189/25	1.0	1.022-	0.00172	0.00949	3945/21	0.9	0.959-	0.64822	0.74180
			5603	59	1.097	3304	2775	1638	92	1.027	0722	1883
Lipoprotein subclasses	M_HDL_C	Cholesterol in Medium HDL	3167/25	0.9	0.942-	0.26578	0.37625	3919/21	1.0	1.026-	0.00076	0.01117
			4101	79	1.017	1715	5885	0411	64	1.103	676	4137
Lipoprotein subclasses	M_LDL_C	Cholesterol in Medium LDL	3166/25	1.0	1.003-	0.03270	0.07691	3915/21	0.9	0.957-	0.47077	0.59732
			4035	39	1.076	5659	1963	0334	88	1.020	2997	2085
Lipoprotein subclasses	M_VLDL_C	Cholesterol in Medium VLDL	3176/25	1.0	0.984-	0.30780	0.41856	3922/21	0.9	0.947-	0.17026	0.36891
			4492	18	1.053	8456	7985	0735	78	1.010	8162	4352
Lipoprotein subclasses	S_HDL_C	Cholesterol in Small HDL	3158/25	1.0	0.983-	0.31074	0.41914	3905/20	1.0	0.999-	0.05391	0.18840
			3601	18	1.055	5446	3302	9955	32	1.066	4205	9856
Lipoprotein subclasses	S_LDL_C	Cholesterol in Small LDL	3172/25	1.0	1.003-	0.03257	0.07691	3923/21	0.9	0.958-	0.49708	0.61661
			4422	39	1.075	9961	1963	0640	89	1.021	6146	4494
Lipoprotein subclasses	S_VLDL_C	Cholesterol in Small VLDL	3173/25	1.0	0.995-	0.09578	0.16385	3925/21	0.9	0.948-	0.23752	0.42415
			4518	29	1.065	9396	0282	0683	80	1.013	5072	1914
Lipoprotein subclasses	XL_HDL_C	Cholesterol in Very Large HDL	3195/25	0.9	0.949-	0.36965	0.47113	3945/21	1.0	0.990-	0.12680	0.30526
			5674	84	1.020	7128	1634	1720	35	1.082	1144	2014

Lipoprotein subclasses	XL_VLDL_C	Cholesterol in Very Large VLDL	3190/25	1.0	1.020–	0.00247	0.01165	3946/21	1.0	0.969–	0.91015	0.93855
			5570	57	1.096	4237	4013	1592	02	1.036	8975	5987
Lipoprotein subclasses	XS_VLDL_C	Cholesterol in Very Small VLDL	3188/25	0.9	0.962–	0.79396	0.85443	3932/21	0.9	0.952–	0.34661	0.51673
			5089	95	1.030	6497	4144	1206	84	1.017	0069	5195
Lipoprotein subclasses	XXL_VLDL_CE	Cholesteryl Esters in Chylomicrons and Extremely Large VLDL	3198/25	1.0	1.019–	0.00298	0.01368	3946/21	1.0	0.991–	0.16679	0.36626
			5739	58	1.099	9158	2766	1735	23	1.056	0171	2201
Lipoprotein subclasses	IDL_CE	Cholesteryl Esters in IDL	3173/25	0.9	0.961–	0.82139	0.86955	3917/21	0.9	0.954–	0.33686	0.50452
			4270	96	1.032	6902	6981	0536	85	1.016	4892	1151
Lipoprotein subclasses	L_HDL_CE	Cholesteryl Esters in Large HDL	3196/25	0.9	0.939–	0.20120	0.30134	3946/21	1.0	1.006–	0.02526	0.11563
			5779	75	1.013	6923	6774	1804	50	1.096	2862	986
Lipoprotein subclasses	L_LDL_CE	Cholesteryl Esters in Large LDL	3167/25	1.0	0.994–	0.10410	0.17350	3917/21	0.9	0.958–	0.44711	0.58593
			4048	30	1.068	346	5766	0341	88	1.019	315	4572
Lipoprotein subclasses	L_VLDL_CE	Cholesteryl Esters in Large VLDL	3192/25	1.0	1.012–	0.00807	0.02628	3946/21	0.9	0.949–	0.31485	0.49086
			5684	48	1.085	0217	9456	1722	83	1.017	2136	2192
Lipoprotein subclasses	M_HDL_CE	Cholesteryl Esters in Medium HDL	3171/25	0.9	0.940–	0.22468	0.32745	3922/21	1.0	1.026–	0.00079	0.01117
			4278	77	1.015	6802	8344	0570	63	1.102	0785	4137
Lipoprotein subclasses	M_LDL_CE	Cholesteryl Esters in Medium LDL	3170/25	1.0	1.007–	0.01891	0.05203	3920/21	0.9	0.961–	0.63408	0.72819
			4358	43	1.081	7394	3125	0572	92	1.025	8843	39
Lipoprotein subclasses	M_VLDL_CE	Cholesteryl Esters in Medium VLDL	3180/25	1.0	0.970–	0.83196	0.87504	3925/21	0.9	0.942–	0.09797	0.25887
			4754	04	1.039	6213	5369	0960	73	1.005	3209	2301
Lipoprotein subclasses	S_HDL_CE	Cholesteryl Esters in Small HDL	3159/25	1.0	0.979–	0.45345	0.54785	3907/21	1.0	0.997–	0.07153	0.22263
			3682	13	1.049	8404	8666	0031	30	1.064	2754	5334
Lipoprotein subclasses	S_LDL_CE	Cholesteryl Esters in Small LDL	3173/25	1.0	1.008–	0.01663	0.04791	3923/21	0.9	0.962–	0.68212	0.76709
			4473	44	1.081	4321	4449	0674	93	1.026	3324	3703
Lipoprotein subclasses	S_VLDL_CE	Cholesteryl Esters in Small VLDL	3183/25	1.0	0.994–	0.11309	0.18658	3935/21	0.9	0.946–	0.21873	0.42199
			4988	28	1.063	6411	0374	1114	79	1.013	286	4642
Lipoprotein subclasses	XL_HDL_CE	Cholesteryl Esters in Very Large HDL	3197/25	0.9	0.949–	0.38241	0.48172	3949/21	1.0	0.993–	0.10299	0.25947
			5926	84	1.020	8718	9005	1922	38	1.085	2109	6245
Lipoprotein subclasses	XL_VLDL_CE	Cholesteryl Esters in Very Large VLDL	3197/25	1.0	1.014–	0.00659	0.02329	3949/21	0.9	0.957–	0.57064	0.67934
			5830	50	1.087	5217	832	1844	90	1.025	7295	2017
Lipoprotein subclasses	XS_VLDL_CE	Cholesteryl Esters in Very Small VLDL	3189/25	0.9	0.954–	0.49940	0.59236	3935/21	0.9	0.950–	0.28431	0.46948
			5240	88	1.023	675	2021	1324	82	1.015	7141	5966

Lipoprotein subclasses	XXL_VLDL_P	Concentration of Chylomicrons and Extremely Large VLDL Particles	3192/25	1.0	1.019–	0.00321	0.01431	3942/21	1.0	1.007–	0.01520	0.08364
			5575	59	1.100	6477	9933	1524	37	1.069	991	1118
Lipoprotein subclasses	IDL_P	Concentration of IDL Particles	3179/25	0.9	0.964–	0.88129	0.90926	3926/21	0.9	0.947–	0.17970	0.37680
			4691	97	1.032	0345	7816	0883	78	1.010	539	1624
Lipoprotein subclasses	L_HDL_P	Concentration of Large HDL Particles	3191/25	0.9	0.945–	0.30537	0.41856	3942/21	1.0	1.014–	0.00977	0.06588
			5604	81	1.018	3776	425	1659	60	1.109	3454	1696
Lipoprotein subclasses	L_LDL_P	Concentration of Large LDL Particles	3175/25	1.0	0.998–	0.06764	0.13169	3926/21	0.9	0.953–	0.32003	0.49294
			4556	32	1.068	4565	7811	0764	84	1.016	5599	5828
Lipoprotein subclasses	L_VLDL_P	Concentration of Large VLDL Particles	3196/25	1.0	1.034–	0.00017	0.00209	3947/21	1.0	0.976–	0.62413	0.72186
			5823	73	1.113	4093	5565	1814	08	1.042	6615	6192
Lipoprotein subclasses	M_HDL_P	Concentration of Medium HDL Particles	3169/25	0.9	0.949–	0.44497	0.53961	3920/21	1.0	1.031–	0.00032	0.00612
			4211	86	1.023	1123	0504	0481	69	1.108	0587	8861
Lipoprotein subclasses	M_LDL_P	Concentration of Medium LDL Particles	3177/25	1.0	1.000–	0.04833	0.10200	3928/21	0.9	0.957–	0.47418	0.59732
			4804	35	1.072	4887	5443	0953	88	1.021	184	2085
Lipoprotein subclasses	M_VLDL_P	Concentration of Medium VLDL Particles	3188/25	1.0	1.012–	0.00762	0.02580	3934/21	0.9	0.957–	0.51809	0.63780
			5026	48	1.084	2926	6781	1158	89	1.022	5643	7136
Lipoprotein subclasses	S_HDL_P	Concentration of Small HDL Particles	3158/25	1.0	0.990–	0.16483	0.25767	3904/20	1.0	1.002–	0.03593	0.14720
			3456	25	1.062	7636	494	9860	35	1.069	5624	3914
Lipoprotein subclasses	S_LDL_P	Concentration of Small LDL Particles	3176/25	1.0	1.005–	0.02378	0.06134	3932/21	0.9	0.962–	0.67785	0.76707
			4814	40	1.076	1503	1178	0959	93	1.026	903	2692
Lipoprotein subclasses	S_VLDL_P	Concentration of Small VLDL Particles	3183/25	1.0	1.021–	0.00158	0.00889	3931/21	0.9	0.959–	0.61090	0.71162
			5018	57	1.095	6695	0962	1146	91	1.025	6531	9471
Lipoprotein subclasses	XL_HDL_P	Concentration of Very Large HDL Particles	3199/25	0.9	0.957–	0.62574	0.71861	3948/21	1.0	0.995–	0.07842	0.23317
			5935	91	1.027	8667	596	1909	41	1.088	7893	156
Lipoprotein subclasses	XL_VLDL_P	Concentration of Very Large VLDL Particles	3193/25	1.0	1.032–	0.00027	0.00283	3943/21	1.0	0.989–	0.19834	0.40193
			5727	72	1.112	5958	7562	1681	21	1.054	7979	7963
Lipoprotein subclasses	XS_VLDL_P	Concentration of Very Small VLDL Particles	3186/25	1.0	0.981–	0.40478	0.50021	3933/21	0.9	0.959–	0.61429	0.71301
			5030	14	1.049	7043	2126	1161	91	1.025	0553	582
Lipoprotein subclasses	XXL_VLDL_FC	Free Cholesterol in Chylomicrons and Extremely Large VLDL	3197/25	1.0	1.019–	0.00326	0.01432	3948/21	1.0	1.003–	0.03220	0.14142
			5856	59	1.099	1921	6005	1838	34	1.067	0766	2284
Lipoprotein subclasses	IDL_FC	Free Cholesterol in IDL	3175/25	0.9	0.957–	0.63433	0.72590	3923/21	0.9	0.955–	0.40913	0.55635
			4478	91	1.027	0998	6952	0706	87	1.019	5828	6251

Lipoprotein subclasses	L_HDL_FC	Free Cholesterol in Large HDL	3191/25	0.9	0.943–	0.26969	0.37625	3944/21	1.0	1.017–	0.00701	0.05183
			5705	79	1.016	8138	5885	1737	62	1.110	8009	757
Lipoprotein subclasses	L_LDL_FC	Free Cholesterol in Large LDL	3170/25	1.0	0.972–	0.67443	0.75844	3918/21	0.9	0.952–	0.26671	0.45901
			4220	08	1.044	2856	5253	0497	82	1.014	3431	7603
Lipoprotein subclasses	L_VLDL_FC	Free Cholesterol in Large VLDL	3195/25	1.0	1.030–	0.00042	0.00394	3949/21	1.0	0.969–	0.91256	0.93855
			5878	68	1.107	5208	836	1855	02	1.036	5206	5987
Lipoprotein subclasses	M_HDL_FC	Free Cholesterol in Medium HDL	3169/25	0.9	0.951–	0.50609	0.59594	3921/21	1.0	1.031–	0.00036	0.00654
			4254	87	1.025	5122	5343	0528	70	1.111	2402	3374
Lipoprotein subclasses	M_LDL_FC	Free Cholesterol in Medium LDL	3170/25	1.0	0.987–	0.21133	0.31078	3918/21	0.9	0.951–	0.25712	0.44928
			4226	22	1.059	5617	7672	0499	82	1.013	9402	5245
Lipoprotein subclasses	M_VLDL_FC	Free Cholesterol in Medium VLDL	3180/25	1.0	1.001–	0.04134	0.09017	3928/21	0.9	0.953–	0.36501	0.52724
			4870	36	1.072	0557	2356	1021	85	1.018	4695	3449
Lipoprotein subclasses	S_HDL_FC	Free Cholesterol in Small HDL	3164/25	1.0	0.992–	0.12083	0.19734	3914/21	1.0	1.007–	0.01628	0.08478
			3851	29	1.067	8584	9446	0169	40	1.074	1158	6608
Lipoprotein subclasses	S_LDL_FC	Free Cholesterol in Small LDL	3181/25	1.0	0.986–	0.23841	0.34134	3928/21	0.9	0.949–	0.19911	0.40193
			4851	21	1.057	3798	1341	1019	80	1.011	3883	7963
Lipoprotein subclasses	S_VLDL_FC	Free Cholesterol in Small VLDL	3177/25	1.0	0.998–	0.06601	0.13003	3927/21	0.9	0.950–	0.26834	0.45901
			4606	32	1.068	9413	8238	0771	82	1.014	8752	7603
Lipoprotein subclasses	XL_HDL_FC	Free Cholesterol in Very Large HDL	3197/25	0.9	0.951–	0.38776	0.48285	3947/21	1.0	0.983–	0.23671	0.42415
			5813	85	1.019	9246	4425	1813	26	1.070	7204	1914
Lipoprotein subclasses	XL_VLDL_FC	Free Cholesterol in Very Large VLDL	3192/25	1.0	1.025–	0.00108	0.00687	3948/21	1.0	0.981–	0.41717	0.56492
			5810	63	1.103	5029	9008	1768	14	1.047	4682	4049
Lipoprotein subclasses	XS_VLDL_FC	Free Cholesterol in Very Small VLDL	3191/25	1.0	0.978–	0.49366	0.58769	3938/21	0.9	0.958–	0.58726	0.68654
			5224	12	1.047	7371	9251	1319	91	1.024	0133	5119
Lipoprotein subclasses	XXL_VLDL_PL	Phospholipids in Chylomicrons and Extremely Large VLDL	3195/25	1.0	1.019–	0.00346	0.01481	3947/21	1.0	1.004–	0.02640	0.11920
			5762	59	1.100	3352	0386	1768	35	1.067	8061	3054
Lipoprotein subclasses	IDL_PL	Phospholipids in IDL	3170/25	1.0	0.970–	0.78999	0.85414	3918/21	0.9	0.956–	0.47378	0.59732
			4228	05	1.041	5632	4827	0490	88	1.021	3285	2085
Lipoprotein subclasses	L_HDL_PL	Phospholipids in Large HDL	3183/25	0.9	0.938–	0.19584	0.29628	3935/21	1.0	1.019–	0.00416	0.03470
			5299	75	1.013	8831	5537	1399	63	1.108	4972	8098
Lipoprotein subclasses	L_LDL_PL	Phospholipids in Large LDL	3167/25	1.0	0.981–	0.37673	0.47642	3916/21	0.9	0.956–	0.39319	0.54792
			4034	16	1.052	9453	1487	0333	86	1.018	1552	9777

Lipoprotein subclasses	L_VLDL_PL	Phospholipids in Large VLDL	3195/25	1.0	1.029–	0.00049	0.00408	3950/21	1.0	0.972–	0.77282	0.84371
			5929	67	1.107	0796	9969	1890	05	1.039	5615	62
Lipoprotein subclasses	M_HDL_PL	Phospholipids in Medium HDL	3167/25	0.9	0.953–	0.58864	0.68081	3919/21	1.0	1.030–	0.00024	0.00499
			4143	90	1.028	1759	3423	0433	66	1.103	6118	9271
Lipoprotein subclasses	M_LDL_PL	Phospholipids in Medium LDL	3166/25	1.0	1.005–	0.02664	0.06611	3915/21	0.9	0.959–	0.54859	0.66092
			4043	40	1.077	9887	6132	0311	90	1.023	0144	5214
Lipoprotein subclasses	M_VLDL_PL	Phospholipids in Medium VLDL	3183/25	1.0	1.009–	0.01275	0.03909	3930/21	0.9	0.955–	0.41925	0.56539
			5001	45	1.081	2288	8996	1117	87	1.019	9775	1813
Lipoprotein subclasses	S_HDL_PL	Phospholipids in Small HDL	3163/25	1.0	0.985–	0.26689	0.37625	3911/21	1.0	1.017–	0.00280	0.02529
			3676	21	1.058	3663	5885	0006	50	1.084	1644	2617
Lipoprotein subclasses	S_LDL_PL	Phospholipids in Small LDL	3183/25	1.0	1.012–	0.00862	0.02776	3936/21	0.9	0.967–	0.89529	0.92961
			5193	47	1.084	7625	2161	1278	98	1.030	0852	5102
Lipoprotein subclasses	S_VLDL_PL	Phospholipids in Small VLDL	3175/25	1.0	1.008–	0.01650	0.04791	3924/21	0.9	0.953–	0.39788	0.54792
			4634	43	1.079	7966	4449	0799	86	1.019	1315	9777
Lipoprotein subclasses	XL_HDL_PL	Phospholipids in Very Large HDL	3199/25	0.9	0.947–	0.31526	0.42168	3949/21	1.0	0.993–	0.09488	0.25379
			6027	82	1.018	7627	7983	1982	39	1.086	5289	3116
Lipoprotein subclasses	XL_VLDL_PL	Phospholipids in Very Large VLDL	3193/25	1.0	1.027–	0.00082	0.00568	3946/21	1.0	0.984–	0.31566	0.49086
			5774	65	1.106	2617	8312	1724	17	1.050	2148	2192
Lipoprotein subclasses	XS_VLDL_PL	Phospholipids in Very Small VLDL	3190/25	1.0	0.988–	0.20729	0.30623	3938/21	0.9	0.964–	0.83409	0.89093
			5189	22	1.058	6474	3427	1293	96	1.030	5512	7501
Lipoprotein subclasses	XXL_VLDL_L	Total Lipids in Chylomicrons and Extremely Large VLDL	3190/25	1.0	1.023–	0.00194	0.01035	3934/21	1.0	1.003–	0.03349	0.14513
			5075	63	1.105	3941	7061	1152	34	1.067	2907	593
Lipoprotein subclasses	IDL_L	Total Lipids in IDL	3160/25	0.9	0.963–	0.92317	0.94647	3910/21	0.9	0.957–	0.45109	0.58660
			3642	98	1.035	8789	6676	0033	88	1.020	7619	7247
Lipoprotein subclasses	L_HDL_L	Total Lipids in Large HDL	3171/25	0.9	0.932–	0.13100	0.21182	3922/21	1.0	1.010–	0.01482	0.08364
			4537	70	1.009	3759	1999	0777	53	1.097	4762	1118
Lipoprotein subclasses	L_LDL_L	Total Lipids in Large LDL	3159/25	1.0	0.989–	0.18018	0.28019	3910/21	0.9	0.956–	0.39193	0.54792
			3717	25	1.063	385	0197	0060	87	1.018	0241	9777
Lipoprotein subclasses	L_VLDL_L	Total Lipids in Large VLDL	3187/25	1.0	1.035–	0.00014	0.00196	3940/21	1.0	0.970–	0.87796	0.92342
			5435	74	1.115	6384	0741	1461	03	1.037	6393	7436
Lipoprotein subclasses	M_HDL_L	Total Lipids in Medium HDL	3164/25	0.9	0.948–	0.46123	0.55314	3914/21	1.0	1.027–	0.00055	0.00853
			3781	86	1.024	6763	372	0126	63	1.100	1228	0903

Lipoprotein subclasses	M_LDL_L	Total Lipids in Medium LDL	3162/25	1.0	1.006-	0.02076	0.05575	3910/21	0.9	0.959-	0.52329	0.64177
			3782	43	1.080	2414	1687	0128	90	1.022	1099	2103
Lipoprotein subclasses	M_VLDL_L	Total Lipids in Medium VLDL	3171/25	1.0	1.020-	0.00233	0.01118	3920/21	0.9	0.957-	0.49572	0.61661
			4371	57	1.095	975	2627	0601	89	1.022	1314	4494
Lipoprotein subclasses	S_HDL_L	Total Lipids in Small HDL	3158/25	1.0	0.991-	0.14967	0.24080	3904/20	1.0	1.010-	0.01108	0.06929
			3507	27	1.064	2332	9445	9864	43	1.077	6445	0284
Lipoprotein subclasses	S_LDL_L	Total Lipids in Small LDL	3166/25	1.0	1.011-	0.01012	0.03165	3919/21	0.9	0.964-	0.75283	0.82939
			4227	47	1.084	8705	2203	0445	95	1.027	8667	8531
Lipoprotein subclasses	S_VLDL_L	Total Lipids in Small VLDL	3170/25	1.0	1.016-	0.00441	0.01730	3921/21	0.9	0.956-	0.53817	0.65416
			4385	52	1.090	8692	2108	0560	89	1.024	5422	3219
Lipoprotein subclasses	XL_HDL_L	Total Lipids in Very Large HDL	3178/25	0.9	0.946-	0.31081	0.41914	3925/21	1.0	0.988-	0.15280	0.34033
			4627	81	1.018	0879	3302	0835	33	1.079	0558	4307
Lipoprotein subclasses	XL_VLDL_L	Total Lipids in Very Large VLDL	3189/25	1.0	1.033-	0.00027	0.00283	3944/21	1.0	0.983-	0.35732	0.52404
			5433	72	1.113	9391	7562	1467	16	1.050	2131	3166
Lipoprotein subclasses	XS_VLDL_L	Total Lipids in Very Small VLDL	3178/25	1.0	0.982-	0.36126	0.46592	3923/21	0.9	0.960-	0.66089	0.75364
			4612	16	1.052	7727	0679	0835	93	1.026	2315	9131
Lipoprotein subclasses	XXL_VLDL_TG	Triglycerides in Chylomicrons and Extremely Large VLDL	3193/25	1.0	1.022-	0.00220	0.01100	3940/21	1.0	1.007-	0.01643	0.08478
			5497	62	1.104	086	4299	1511	37	1.069	5558	6608
Lipoprotein subclasses	IDL_TG	Triglycerides in IDL	3167/25	1.0	1.006-	0.02107	0.05575	3921/21	1.0	0.988-	0.22065	0.42199
			4395	43	1.081	9157	1687	0604	20	1.054	9816	4642
Lipoprotein subclasses	L_HDL_TG	Triglycerides in Large HDL	3180/25	1.0	0.969-	0.84923	0.88746	3927/21	1.0	0.979-	0.45665	0.59128
			4802	03	1.039	7832	7188	0993	13	1.048	252	3143
Lipoprotein subclasses	L_LDL_TG	Triglycerides in Large LDL	3163/25	1.0	1.020-	0.00228	0.01111	3915/21	1.0	0.995-	0.10160	0.25947
			4170	57	1.096	3636	6104	0393	27	1.060	3984	6245
Lipoprotein subclasses	L_VLDL_TG	Triglycerides in Large VLDL	3195/25	1.0	1.042-	3.61202	0.00151	3945/21	1.0	0.978-	0.53943	0.65416
			5862	82	1.123	E-05	024	1798	10	1.043	3055	3219
Lipoprotein subclasses	M_HDL_TG	Triglycerides in Medium HDL	3179/25	1.0	0.988-	0.20722	0.30623	3930/21	1.0	0.987-	0.24912	0.44003
			4753	23	1.060	0079	3427	0936	19	1.053	5667	1748
Lipoprotein subclasses	M_LDL_TG	Triglycerides in Medium LDL	3167/25	1.0	1.037-	8.53301	0.00156	3916/21	1.0	0.997-	0.07583	0.23033
			4196	76	1.116	E-05	5146	0430	28	1.060	4522	8502
Lipoprotein subclasses	M_VLDL_TG	Triglycerides in Medium VLDL	3196/25	1.0	1.037-	9.31855	0.00159	3949/21	0.9	0.965-	0.86764	0.91553
			5895	75	1.115	E-05	3962	1865	97	1.031	9964	9735

Lipoprotein subclasses	S_HDL_TG	Triglycerides in Small HDL	3188/25	1.0	1.013–	0.00805	0.02628	3941/21	1.0	0.980–	0.43139	0.57519
			5411	50	1.089	2651	9456	1462	14	1.049	8519	2018
Lipoprotein subclasses	S_LDL_TG	Triglycerides in Small LDL	3184/25	1.0	1.040–	5.76969	0.00156	3940/21	1.0	0.996–	0.08881	0.24669
			5181	79	1.120	E-05	5146	1278	27	1.058	1313	8092
Lipoprotein subclasses	S_VLDL_TG	Triglycerides in Small VLDL	3190/25	1.0	1.032–	0.00025	0.00278	3945/21	1.0	0.968–	0.97100	0.98005
			5606	70	1.109	6806	207	1629	01	1.034	8608	5272
Lipoprotein subclasses	XL_HDL_TG	Triglycerides in Very Large HDL	3182/25	1.0	1.006–	0.02109	0.05575	3931/21	1.0	0.988–	0.22955	0.42415
			4999	42	1.080	9869	1687	1123	19	1.051	0968	1914
Lipoprotein subclasses	XL_VLDL_TG	Triglycerides in Very Large VLDL	3195/25	1.0	1.037–	0.00011	0.00176	3948/21	1.0	0.989–	0.18931	0.38942
			5802	77	1.119	9739	8872	1775	22	1.055	949	3002
Lipoprotein subclasses	XS_VLDL_TG	Triglycerides in Very Small VLDL	3181/25	1.0	1.015–	0.00507	0.01875	3927/21	1.0	0.982–	0.37971	0.54429
			4839	52	1.090	9597	9876	1029	15	1.048	9093	1725
Other lipids	Phosphatidylc	Phosphatidylcholines	3159/25	1.0	0.973–	0.56090	0.65573	3914/21	1.0	0.989–	0.18171	0.37857
			3737	12	1.052	185	058	0060	23	1.057	3865	0552
Other lipids	Phosphoglyc	Phosphoglycerides	3158/25	1.0	0.980–	0.33892	0.44237	3913/20	1.0	1.001–	0.04399	0.16852
			3603	19	1.060	754	5303	9930	34	1.068	6284	9269
Other lipids	Sphingomyelins	Sphingomyelins	3156/25	1.0	0.979–	0.39303	0.48754	3905/20	1.0	1.002–	0.03829	0.15178
			3447	16	1.055	7311	6283	9816	37	1.072	6207	3749
Other lipids	Cholines	Total Cholines	3158/25	1.0	0.979–	0.38619	0.48273	3910/20	1.0	0.998–	0.06808	0.21693
			3519	17	1.058	1444	9304	9865	31	1.066	3636	3153
Other lipids	TG_by_PG	Triglycerides to Phosphoglycerides ratio	3139/25	1.0	1.039–	0.00014	0.00196	3891/20	1.0	0.972–	0.72783	0.81060
			2439	82	1.128	931	0741	8868	06	1.041	986	8615
Phospholipids	HDL_PL	Phospholipids in HDL	3159/25	0.9	0.946–	0.42364	0.51957	3907/20	1.0	1.029–	0.00046	0.00754
			3506	84	1.024	969	0374	9854	67	1.107	4359	583
Phospholipids	LDL_PL	Phospholipids in LDL	3164/25	1.0	0.993–	0.12040	0.19734	3913/21	0.9	0.957–	0.45123	0.58660
			3867	28	1.065	8782	9446	0188	88	1.020	6344	7247
Phospholipids	VLDL_PL	Phospholipids in VLDL	3167/25	1.0	1.019–	0.00304	0.01375	3915/21	1.0	0.970–	0.84727	0.89988
			3952	56	1.094	79	7882	0187	03	1.037	2664	1098
Phospholipids	Total_PL	Total Phospholipids in Lipoprotein Particles	3152/25	1.0	0.986–	0.21922	0.32093	3900/20	1.0	1.001–	0.04520	0.17083
			2917	24	1.065	5609	8392	9344	33	1.067	6157	7221
Relative cholesterol concentrations	HDL_CE_pct_C	Cholesteryl Esters to Cholesterol in HDL percentage	3153/25	0.9	0.925–	0.03492	0.08048	3901/20	0.9	0.961–	0.47078	0.59732
			3203	60	0.997	0036	9444	9674	89	1.018	435	2085

Relative cholesterol concentrations	LDL_CE_pct_C	Cholesteryl Esters to Cholesterol in LDL percentage	3166/25	1.0	1.031-	0.00047	0.00404	3914/21	1.0	0.988-	0.22067	0.42199
			3950	72	1.115	2877	4343	0262	20	1.052	4686	4642
Relative cholesterol concentrations	VLDL_CE_pct_C	Cholesteryl Esters to Cholesterol in VLDL percentage	3158/25	0.9	0.873-	5.23124	0.00042	3904/20	0.9	0.936-	0.02273	0.10553
			3426	09	0.947	E-06	301	9751	65	0.995	0428	4131
Relative cholesterol concentrations	HDL_FC_pct_C	Free Cholesterol to Cholesterol in HDL percentage	3153/25	1.0	1.001-	0.04651	0.09944	3901/20	1.0	0.981-	0.48750	0.61173
			3203	40	1.081	1098	8071	9674	10	1.040	6655	615
Relative cholesterol concentrations	LDL_FC_pct_C	Free Cholesterol to Cholesterol in LDL percentage	3166/25	0.9	0.908-	0.00045	0.00404	3914/21	0.9	0.959-	0.32222	0.49397
			3950	40	0.973	4039	4343	0262	86	1.014	6016	8562
Relative cholesterol concentrations	VLDL_FC_pct_C	Free Cholesterol to Cholesterol in VLDL percentage	3158/25	1.0	1.054-	6.50784	0.00042	3904/20	1.0	1.002-	0.03562	0.14720
			3426	98	1.143	E-06	301	9751	35	1.070	0461	3914
Relative cholesterol concentrations	Total_CE_pct_C	Total Esterified Cholesterol to Total Cholesterol percentage	3140/25	0.9	0.919-	0.01878	0.05203	3887/20	1.0	0.983-	0.36445	0.52724
			2244	55	0.992	4811	3125	8858	15	1.048	9103	3449
Relative cholesterol concentrations	Total_FC_pct_C	Total Free Cholesterol to Total Cholesterol percentage	3140/25	1.0	1.007-	0.01999	0.05414	3887/20	0.9	0.951-	0.28659	0.47042
			2244	47	1.088	0982	2244	8858	83	1.015	6495	354
Relative lipid concentrations	HDL_C_pct	Cholesterol to Total Lipids in HDL percentage	3148/25	0.9	0.921-	0.03812	0.08665	3896/20	0.9	0.963-	0.77621	0.84371
			2930	59	0.998	9647	8288	9409	95	1.028	8904	62
Relative lipid concentrations	LDL_C_pct	Cholesterol to Total Lipids in LDL percentage	3156/25	0.9	0.954-	0.64171	0.73044	3909/20	0.9	0.972-	0.19852	0.40193
			3610	91	1.030	5944	8963	9952	89	1.006	4821	7963
Relative lipid concentrations	VLDL_C_pct	Cholesterol to Total Lipids in VLDL percentage	3150/25	0.9	0.894-	0.00031	0.00311	3892/20	0.9	0.937-	0.05102	0.18224
			2797	30	0.968	5873	0871	9170	68	1.000	9575	8482
Relative lipid concentrations	HDL_CE_pct	Cholesteryl Esters to Total Lipids in HDL percentage	3148/25	0.9	0.919-	0.02478	0.06293	3896/20	0.9	0.962-	0.67514	0.76707
			2930	56	0.994	6716	5022	9409	93	1.025	3043	2692
Relative lipid concentrations	LDL_CE_pct	Cholesteryl Esters to Total Lipids in LDL percentage	3156/25	1.0	1.026-	0.00337	0.01461	3909/20	0.9	0.972-	0.58599	0.68654
			3610	81	1.138	282	5553	9952	94	1.016	1383	5119
Relative lipid concentrations	VLDL_CE_pct	Cholesteryl Esters to Total Lipids in VLDL percentage	3150/25	0.9	0.889-	0.00011	0.00176	3892/20	0.9	0.937-	0.04407	0.16852
			2797	25	0.962	7971	8872	9170	68	0.999	6886	9269
Relative lipid concentrations	HDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in HDL percentage	3153/25	1.0	1.003-	0.03489	0.08048	3901/20	1.0	0.982-	0.47084	0.59732
			3203	41	1.081	2397	9444	9674	11	1.040	562	2085
Relative lipid concentrations	LDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in LDL percentage	3166/25	0.9	0.897-	0.00047	0.00404	3914/21	0.9	0.951-	0.22069	0.42199
			3950	33	0.970	2759	4343	0262	81	1.012	884	4642
Relative lipid concentrations	VLDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in VLDL percentage	3158/25	1.1	1.056-	5.22837	0.00042	3904/20	1.0	1.005-	0.02267	0.10553
			3426	00	1.145	E-06	301	9751	36	1.069	6702	4131

Relative lipid concentrations	HDL_FC_pct	Free Cholesterol to Total Lipids in HDL percentage	3148/25	0.9	0.957–	0.81629	0.86698	3896/20	1.0	0.976–	0.58546	0.68654
			2930	95	1.035	8732	3947	9409	09	1.044	5512	5119
Relative lipid concentrations	LDL_FC_pct	Free Cholesterol to Total Lipids in LDL percentage	3156/25	0.9	0.907–	0.00200	0.01053	3909/20	0.9	0.954–	0.14221	0.32209
			3610	42	0.978	9298	2609	9952	80	1.007	012	8379
Relative lipid concentrations	VLDL_FC_pct	Free Cholesterol to Total Lipids in VLDL percentage	3150/25	0.9	0.911–	0.00496	0.01856	3892/20	0.9	0.939–	0.06649	0.21609
			2797	46	0.983	892	2058	9170	70	1.002	0632	4553
Relative lipid concentrations	HDL_PL_pct	Phospholipids to Total Lipids in HDL percentage	3148/25	1.0	0.983–	0.26974	0.37625	3896/20	1.0	0.987–	0.23004	0.42415
			2930	23	1.064	6527	5885	9409	20	1.054	463	1914
Relative lipid concentrations	LDL_PL_pct	Phospholipids to Total Lipids in LDL percentage	3156/25	0.9	0.922–	0.01492	0.04474	3909/20	0.9	0.966–	0.83073	0.89093
			3610	56	0.991	5118	1163	9952	97	1.028	2734	7501
Relative lipid concentrations	VLDL_PL_pct	Phospholipids to Total Lipids in VLDL percentage	3150/25	0.9	0.910–	0.00397	0.01657	3892/20	0.9	0.937–	0.05055	0.18224
			2797	45	0.982	8782	8256	9170	68	1.000	8097	8482
Relative lipid concentrations	Total_C_pct	Total Cholesterol to Total Lipids percentage	3128/25	0.9	0.904–	0.00375	0.01584	3873/20	0.9	0.942–	0.04999	0.18224
			1454	41	0.981	5188	9818	8114	71	1.000	7128	8482
Relative lipid concentrations	Total_CE_pct	Total Esterified Cholesterol to Total Lipids percentage	3128/25	0.9	0.899–	0.00186	0.01009	3873/20	0.9	0.945–	0.08148	0.23436
			1454	37	0.976	4348	855	8114	74	1.003	7077	5488
Relative lipid concentrations	Total_FC_by_CE	Total Free Cholesterol to Total Esterified Cholesterol ratio	3140/25	1.0	1.008–	0.01877	0.05203	3887/20	0.9	0.954–	0.36478	0.52724
			2244	47	1.088	9629	3125	8858	85	1.017	5639	3449
Relative lipid concentrations	Total_FC_pct	Total Free Cholesterol to Total Lipids percentage	3128/25	0.9	0.926–	0.05296	0.10965	3873/20	0.9	0.936–	0.01325	0.07832
			1454	62	1.000	9956	1183	8114	64	0.992	5714	922
Relative lipid concentrations	Total_PL_pct	Total Phospholipids to Total Lipids percentage	3128/25	0.9	0.907–	0.00229	0.01111	3873/20	1.0	0.999–	0.06071	0.20685
			1454	42	0.979	1628	6104	8114	33	1.068	9148	3381
Relative lipid concentrations	Total_TG_pct	Total Triglycerides to Total Lipids percentage	3128/25	1.0	1.031–	0.00057	0.00452	3873/20	1.0	0.969–	0.82106	0.88652
			1454	72	1.116	1114	7123	8114	04	1.041	2409	9179
Relative lipid concentrations	HDL_TG_pct	Triglycerides to Total Lipids in HDL percentage	3148/25	1.0	1.003–	0.03289	0.07691	3896/20	0.9	0.945–	0.25602	0.44928
			2930	42	1.083	4655	1963	9409	79	1.015	5511	5245
Relative lipid concentrations	LDL_TG_pct	Triglycerides to Total Lipids in LDL percentage	3156/25	1.0	0.998–	0.06492	0.12867	3909/20	1.0	1.007–	0.01630	0.08478
			3610	37	1.078	9103	0479	9952	38	1.070	1313	6608
Relative lipid concentrations	VLDL_TG_pct	Triglycerides to Total Lipids in VLDL percentage	3150/25	1.0	1.024–	0.00133	0.00787	3892/20	1.0	0.988–	0.18712	0.38735
			2797	64	1.105	3509	9825	9170	25	1.062	0899	218
Relative lipoprotein cholesterol concentrations	XXL_VLDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Chylomicrons and Extremely Large VLDL percentage	3196/25	0.9	0.963–	0.74604	0.81913	3943/21	0.9	0.922–	0.00588	0.04449
			5575	95	1.027	7032	9478	1589	53	0.986	6974	4574

Relative lipoprotein cholesterol concentrations	IDL_CE_pct_C	Cholesteryl Esters to Cholesterol in IDL percentage	3169/25	1.0	0.970-	0.71591	0.79421	3914/21	0.9	0.969-	0.88727	0.92424
			3966	07	1.045	9717	8229	0309	98	1.028	5809	5634
Relative lipoprotein cholesterol concentrations	L_HDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Large HDL percentage	3191/25	0.9	0.944-	0.31978	0.42594	3943/21	0.9	0.966-	0.24240	0.43050
			5656	81	1.019	4772	2832	1698	87	1.009	9306	833
Relative lipoprotein cholesterol concentrations	L_LDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Large LDL percentage	3166/25	1.0	1.044-	6.90861	0.00156	3915/21	1.0	0.987-	0.22148	0.42199
			4001	89	1.135	E-05	5146	0300	21	1.057	5325	4642
Relative lipoprotein cholesterol concentrations	L_VLDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Large VLDL percentage	3189/25	0.9	0.908-	0.00074	0.00535	3945/21	0.9	0.915-	0.00253	0.02355
			5603	41	0.975	1139	2671	1638	47	0.981	6933	7239
Relative lipoprotein cholesterol concentrations	M_HDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Medium HDL percentage	3167/25	0.9	0.926-	0.09484	0.16308	3919/21	0.9	0.975-	0.20190	0.40506
			4101	65	1.006	1503	724	0411	90	1.005	9413	5181
Relative lipoprotein cholesterol concentrations	M_LDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Medium LDL percentage	3166/25	1.0	1.019-	0.00434	0.01725	3915/21	1.0	0.985-	0.28458	0.46948
			4035	62	1.106	9111	0413	0334	19	1.054	0724	5966
Relative lipoprotein cholesterol concentrations	M_VLDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Medium VLDL percentage	3176/25	0.9	0.912-	0.02904	0.06951	3922/21	0.9	0.966-	0.30220	0.48144
			4492	52	0.995	7074	2881	0735	88	1.011	2374	986
Relative lipoprotein cholesterol concentrations	S_HDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Small HDL percentage	3158/25	0.9	0.948-	0.36423	0.46663	3905/20	0.9	0.957-	0.26454	0.45901
			3601	83	1.020	6286	8695	9955	84	1.012	8981	7603
Relative lipoprotein cholesterol concentrations	S_LDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Small LDL percentage	3172/25	1.0	0.997-	0.06929	0.13169	3923/21	1.0	0.991-	0.17503	0.37190
			4422	36	1.077	331	7811	0640	21	1.053	0781	7473
Relative lipoprotein cholesterol concentrations	S_VLDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Small VLDL percentage	3173/25	1.0	0.965-	0.99099	0.99297	3925/21	0.9	0.946-	0.39698	0.54792
			4518	00	1.035	2429	5995	0683	83	1.022	488	9777
Relative lipoprotein cholesterol concentrations	XL_HDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Very Large HDL percentage	3195/25	0.9	0.934-	0.10163	0.17114	3945/21	1.0	0.980-	0.69370	0.77742
			5674	69	1.006	098	0252	1720	05	1.031	2525	5243
Relative lipoprotein cholesterol concentrations	XL_VLDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Very Large VLDL percentage	3190/25	0.9	0.920-	0.01003	0.03165	3946/21	0.9	0.933-	0.03469	0.14663
			5570	54	0.989	0987	2203	1592	64	0.997	0238	7796
Relative lipoprotein cholesterol concentrations	XS_VLDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Very Small VLDL percentage	3188/25	0.9	0.883-	7.28991	0.00156	3932/21	0.9	0.950-	0.12913	0.30665
			5089	20	0.959	E-05	5146	1206	78	1.007	6764	9495
Relative lipoprotein cholesterol concentrations	XXL_VLDL_FC_pct_C	Free Cholesterol to Cholesterol in Chylomicrons and Extremely Large VLDL percentage	3196/25	1.0	0.973-	0.69757	0.78176	3943/21	1.0	0.996-	0.08092	0.23436
			5575	07	1.042	3595	3512	1589	35	1.075	9357	5488
Relative lipoprotein cholesterol concentrations	IDL_FC_pct_C	Free Cholesterol to Cholesterol in IDL percentage	3169/25	0.9	0.957-	0.70093	0.78283	3914/21	1.0	0.973-	0.88467	0.92424
			3966	93	1.030	6123	244	0309	02	1.032	113	5634
Relative lipoprotein cholesterol concentrations	L_HDL_FC_pct_C	Free Cholesterol to Cholesterol in Large HDL percentage	3191/25	1.0	0.962-	0.64279	0.73044	3943/21	1.0	0.994-	0.14118	0.32209
			5656	12	1.065	5088	8963	1698	19	1.046	4914	8379

Relative lipoprotein cholesterol concentrations	L_LDL_FC_pct_C	Free Cholesterol to Cholesterol in Large LDL percentage	3166/25	0.9	0.904–	2.86725	0.00151	3915/21	0.9	0.960–	0.30424	0.48233
			4001	33	0.964	E-05	024	0300	86	1.013	2698	5984
Relative lipoprotein cholesterol concentrations	L_VLDL_FC_pct_C	Free Cholesterol to Cholesterol in Large VLDL percentage	3189/25	1.0	1.028–	0.00070	0.00533	3945/21	1.0	1.002–	0.03907	0.15301
			5603	68	1.110	8692	3526	1638	42	1.084	8598	8606
Relative lipoprotein cholesterol concentrations	M_HDL_FC_pct_C	Free Cholesterol to Cholesterol in Medium HDL percentage	3167/25	1.0	0.992–	0.11163	0.18511	3919/21	1.0	0.992–	0.14271	0.32209
			4101	35	1.079	6948	2286	0411	23	1.054	4359	8379
Relative lipoprotein cholesterol concentrations	M_LDL_FC_pct_C	Free Cholesterol to Cholesterol in Medium LDL percentage	3166/25	0.9	0.909–	0.00450	0.01743	3915/21	0.9	0.958–	0.38184	0.54429
			4035	45	0.983	6541	602	0334	87	1.016	158	1725
Relative lipoprotein cholesterol concentrations	M_VLDL_FC_pct_C	Free Cholesterol to Cholesterol in Medium VLDL percentage	3176/25	1.0	1.026–	0.00140	0.00816	3922/21	1.0	1.000–	0.05201	0.18374
			4492	69	1.114	7336	7574	0735	29	1.059	3584	3638
Relative lipoprotein cholesterol concentrations	S_HDL_FC_pct_C	Free Cholesterol to Cholesterol in Small HDL percentage	3158/25	1.0	0.983–	0.31529	0.42168	3905/20	1.0	0.984–	0.30712	0.48453
			3601	18	1.055	2861	7983	9955	17	1.052	1871	6932
Relative lipoprotein cholesterol concentrations	S_LDL_FC_pct_C	Free Cholesterol to Cholesterol in Small LDL percentage	3172/25	0.9	0.930–	0.08227	0.14938	3923/21	0.9	0.958–	0.29970	0.47982
			4422	67	1.004	7962	7361	0640	85	1.013	2978	0039
Relative lipoprotein cholesterol concentrations	S_VLDL_FC_pct_C	Free Cholesterol to Cholesterol in Small VLDL percentage	3173/25	1.0	0.969–	0.80606	0.85892	3925/21	1.0	0.974–	0.58372	0.68654
			4518	05	1.042	6404	3217	0683	10	1.047	9416	5119
Relative lipoprotein cholesterol concentrations	XL_HDL_FC_pct_C	Free Cholesterol to Cholesterol in Very Large HDL percentage	3195/25	1.0	0.988–	0.15881	0.25177	3945/21	0.9	0.948–	0.20684	0.41242
			5674	32	1.079	1201	3855	1720	79	1.012	8422	7835
Relative lipoprotein cholesterol concentrations	XL_VLDL_FC_pct_C	Free Cholesterol to Cholesterol in Very Large VLDL percentage	3190/25	1.0	1.008–	0.01905	0.05203	3946/21	1.0	0.985–	0.23382	0.42415
			5570	47	1.087	2129	3125	1592	24	1.065	4826	1914
Relative lipoprotein cholesterol concentrations	XS_VLDL_FC_pct_C	Free Cholesterol to Cholesterol in Very Small VLDL percentage	3188/25	1.0	1.042–	7.29781	0.00156	3932/21	1.0	0.993–	0.13801	0.31811
			5089	85	1.130	E-05	5146	1206	24	1.056	3876	709
Relative lipoprotein lipid concentrations	XXL_VLDL_C_pct	Cholesterol to Total Lipids in Chylomicrons and Extremely Large VLDL percentage	3190/25	0.9	0.948–	0.27157	0.37718	3934/21	0.9	0.932–	0.07192	0.22263
			5075	81	1.015	649	9569	1152	67	1.003	8339	5334
Relative lipoprotein lipid concentrations	IDL_C_pct	Cholesterol to Total Lipids in IDL percentage	3160/25	0.9	0.921–	0.02908	0.06951	3910/21	0.9	0.949–	0.09294	0.25173
			3642	57	0.996	8467	2881	0033	76	1.004	96	8501
Relative lipoprotein lipid concentrations	L_HDL_C_pct	Cholesterol to Total Lipids in Large HDL percentage	3171/25	0.9	0.917–	0.03921	0.08780	3922/21	0.9	0.974–	0.93176	0.94683
			4537	57	0.998	4934	4204	0777	99	1.025	7647	9083
Relative lipoprotein lipid concentrations	L_LDL_C_pct	Cholesterol to Total Lipids in Large LDL percentage	3159/25	1.0	0.946–	0.86326	0.89412	3910/21	0.9	0.974–	0.53905	0.65416
			3717	05	1.068	4826	2417	0060	94	1.014	5029	3219
Relative lipoprotein lipid concentrations	L_VLDL_C_pct	Cholesterol to Total Lipids in Large VLDL percentage	3187/25	0.9	0.935–	0.04075	0.08950	3940/21	0.9	0.922–	0.00886	0.06260
			5435	66	0.999	8248	291	1461	54	0.988	1555	8811

Relative lipoprotein lipid concentrations	M_HDL_C_pct	Cholesterol to Total Lipids in Medium HDL percentage	3164/25	0.9	0.931–	0.02648	0.06611	3914/21	1.0	0.973–	0.72830	0.81060
			3781	63	0.996	409	6132	0126	06	1.039	0663	8615
Relative lipoprotein lipid concentrations	M_LDL_C_pct	Cholesterol to Total Lipids in Medium LDL percentage	3162/25	0.9	0.955–	0.67000	0.75844	3910/21	0.9	0.971–	0.27706	0.46352
			3782	92	1.030	8529	5253	0128	90	1.008	6135	3568
Relative lipoprotein lipid concentrations	M_VLDL_C_pct	Cholesterol to Total Lipids in Medium VLDL percentage	3171/25	0.9	0.908–	0.00630	0.02252	3920/21	0.9	0.945–	0.06385	0.21395
			4371	46	0.984	6056	1627	0601	73	1.002	7672	6117
Relative lipoprotein lipid concentrations	S_HDL_C_pct	Cholesterol to Total Lipids in Small HDL percentage	3158/25	0.9	0.944–	0.27442	0.37951	3904/20	0.9	0.941–	0.06506	0.21577
			3507	80	1.016	0954	8341	9864	71	1.002	4631	5564
Relative lipoprotein lipid concentrations	S_LDL_C_pct	Cholesterol to Total Lipids in Small LDL percentage	3166/25	0.9	0.955–	0.06046	0.12129	3919/21	0.9	0.968–	0.01176	0.07212
			4227	78	1.001	1271	576	0445	82	0.996	2626	9313
Relative lipoprotein lipid concentrations	S_VLDL_C_pct	Cholesterol to Total Lipids in Small VLDL percentage	3170/25	0.9	0.921–	0.01500	0.04474	3921/21	0.9	0.939–	0.03623	0.14720
			4385	55	0.991	5498	1163	0560	68	0.998	481	3914
Relative lipoprotein lipid concentrations	XL_HDL_C_pct	Cholesterol to Total Lipids in Very Large HDL percentage	3178/25	1.0	0.997–	0.06812	0.13169	3925/21	0.9	0.962–	0.29305	0.47622
			4627	45	1.095	4131	7811	0835	86	1.012	9357	1455
Relative lipoprotein lipid concentrations	XL_VLDL_C_pct	Cholesterol to Total Lipids in Very Large VLDL percentage	3189/25	0.9	0.927–	0.02700	0.06650	3944/21	0.9	0.934–	0.13617	0.31612
			5433	61	0.995	9551	0789	1467	71	1.009	6834	4793
Relative lipoprotein lipid concentrations	XS_VLDL_C_pct	Cholesterol to Total Lipids in Very Small VLDL percentage	3178/25	0.9	0.896–	0.00084	0.00572	3923/21	0.9	0.946–	0.07442	0.22819
			4612	33	0.972	4965	1116	0835	74	1.003	7005	6006
Relative lipoprotein lipid concentrations	XXL_VLDL_CE_pct	Cholesteryl Esters to Total Lipids in Chylomicrons and Extremely Large VLDL percentage	3190/25	0.9	0.950–	0.30651	0.41856	3934/21	0.9	0.922–	0.01962	0.09801
			5075	82	1.016	782	425	1152	57	0.993	9147	5094
Relative lipoprotein lipid concentrations	IDL_CE_pct	Cholesteryl Esters to Total Lipids in IDL percentage	3160/25	0.9	0.929–	0.07236	0.13516	3910/21	0.9	0.949–	0.11123	0.27808
			3642	65	1.003	5676	5774	0033	77	1.005	5635	9088
Relative lipoprotein lipid concentrations	L_HDL_CE_pct	Cholesteryl Esters to Total Lipids in Large HDL percentage	3171/25	0.9	0.916–	0.03879	0.08755	3922/21	0.9	0.969–	0.67974	0.76707
			4537	56	0.998	3569	493	0777	95	1.021	4416	2692
Relative lipoprotein lipid concentrations	L_LDL_CE_pct	Cholesteryl Esters to Total Lipids in Large LDL percentage	3159/25	1.1	1.051–	0.00072	0.00533	3910/21	0.9	0.974–	0.85620	0.90640
			3717	25	1.204	2077	3526	0060	98	1.022	8715	9877
Relative lipoprotein lipid concentrations	L_VLDL_CE_pct	Cholesteryl Esters to Total Lipids in Large VLDL percentage	3187/25	0.9	0.919–	0.00604	0.02181	3940/21	0.9	0.920–	0.00531	0.04115
			5435	52	0.986	1984	8276	1461	52	0.986	9119	9846
Relative lipoprotein lipid concentrations	M_HDL_CE_pct	Cholesteryl Esters to Total Lipids in Medium HDL percentage	3164/25	0.9	0.927–	0.01751	0.04951	3914/21	1.0	0.969–	0.97714	0.98319
			3781	59	0.993	9403	1357	0126	00	1.032	0534	094
Relative lipoprotein lipid concentrations	M_LDL_CE_pct	Cholesteryl Esters to Total Lipids in Medium LDL percentage	3162/25	1.0	1.003–	0.03570	0.08172	3910/21	0.9	0.967–	0.93227	0.94683
			3782	46	1.091	6419	2437	0128	99	1.031	2328	9083

Relative lipoprotein lipid concentrations	M_VLDL_CE_pct	Cholesteryl Esters to Total Lipids in Medium VLDL percentage	3171/25	0.9	0.905–	0.00556	0.02033	3920/21	0.9	0.948–	0.06801	0.21693
			4371	43	0.983	8053	2779	0601	75	1.002	8473	3153
Relative lipoprotein lipid concentrations	S_HDL_CE_pct	Cholesteryl Esters to Total Lipids in Small HDL percentage	3158/25	0.9	0.944–	0.25511	0.36365	3904/20	0.9	0.943–	0.08532	0.24114
			3507	79	1.015	8049	5113	9864	73	1.004	9718	9203
Relative lipoprotein lipid concentrations	S_LDL_CE_pct	Cholesteryl Esters to Total Lipids in Small LDL percentage	3166/25	1.0	0.967–	0.82856	0.87429	3919/21	0.9	0.961–	0.33448	0.50327
			4227	04	1.042	7283	9893	0445	87	1.013	3654	4017
Relative lipoprotein lipid concentrations	S_VLDL_CE_pct	Cholesteryl Esters to Total Lipids in Small VLDL percentage	3170/25	0.9	0.925–	0.01453	0.04414	3921/21	0.9	0.934–	0.01520	0.08364
			4385	57	0.991	3854	4883	0560	63	0.993	4855	1118
Relative lipoprotein lipid concentrations	XL_HDL_CE_pct	Cholesteryl Esters to Total Lipids in Very Large HDL percentage	3178/25	0.9	0.950–	0.80031	0.85559	3925/21	0.9	0.974–	0.80715	0.87441
			4627	94	1.041	1274	5934	0835	97	1.021	51	8025
Relative lipoprotein lipid concentrations	XL_VLDL_CE_pct	Cholesteryl Esters to Total Lipids in Very Large VLDL percentage	3189/25	0.9	0.922–	0.01665	0.04791	3944/21	0.9	0.933–	0.09527	0.25379
			5433	57	0.992	9485	4449	1467	69	1.006	0031	3116
Relative lipoprotein lipid concentrations	XS_VLDL_CE_pct	Cholesteryl Esters to Total Lipids in Very Small VLDL percentage	3178/25	0.9	0.892–	0.00036	0.00352	3923/21	0.9	0.946–	0.08298	0.23658
			4612	29	0.967	9261	9704	0835	74	1.003	5541	1587
Relative lipoprotein lipid concentrations	XXL_VLDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Chylomicrons and Extremely Large VLDL ratio	3196/25	1.0	0.973–	0.75705	0.82843	3943/21	1.0	1.016–	0.00407	0.03470
			5575	05	1.038	7985	0455	1589	50	1.086	7695	8098
Relative lipoprotein lipid concentrations	IDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in IDL percentage	3169/25	0.9	0.957–	0.71601	0.79421	3914/21	1.0	0.973–	0.88720	0.92424
			3966	93	1.030	828	8229	0309	02	1.032	4582	5634
Relative lipoprotein lipid concentrations	L_HDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Large HDL ratio	3191/25	1.0	0.982–	0.34542	0.44904	3943/21	1.0	0.991–	0.31422	0.49086
			5656	17	1.052	0518	6673	1698	10	1.029	9772	2192
Relative lipoprotein lipid concentrations	L_LDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Large LDL ratio	3166/25	0.9	0.884–	6.90828	0.00156	3915/21	0.9	0.948–	0.22203	0.42199
			4001	21	0.959	E-05	5146	0299	80	1.013	4104	4642
Relative lipoprotein lipid concentrations	L_VLDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Large VLDL ratio	3189/25	1.0	1.025–	0.00067	0.00524	3945/21	1.0	1.019–	0.00238	0.02280
			5603	61	1.098	7176	0051	1638	56	1.094	6275	9981
Relative lipoprotein lipid concentrations	M_HDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Medium HDL ratio	3167/25	1.0	0.992–	0.09482	0.16308	3919/21	1.0	0.993–	0.38019	0.54429
			4101	44	1.099	1851	724	0411	05	1.017	5222	1725
Relative lipoprotein lipid concentrations	M_LDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Medium LDL ratio	3166/25	0.9	0.892–	0.00435	0.01725	3915/21	0.9	0.942–	0.28868	0.47146
			4035	35	0.979	2412	0413	0334	79	1.018	0037	2372
Relative lipoprotein lipid concentrations	M_VLDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Medium VLDL ratio	3176/25	1.0	1.001–	0.04502	0.09690	3922/21	1.0	0.984–	0.58580	0.68654
			4492	45	1.091	2127	1929	0735	06	1.029	975	5119
Relative lipoprotein lipid concentrations	S_HDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Small HDL ratio	3158/25	1.0	0.977–	0.36469	0.46663	3905/20	1.0	0.992–	0.32927	0.49888
			3601	20	1.065	6087	8695	9955	08	1.025	1084	219

Relative lipoprotein lipid concentrations	S_LDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Small LDL ratio	3172/25	0.9	0.929–	0.06928	0.13169	3923/21	0.9	0.950–	0.17508	0.37190
			4422	65	1.003	596	7811	0640	79	1.009	2595	7473
Relative lipoprotein lipid concentrations	S_VLDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Small VLDL ratio	3173/25	1.0	0.966–	0.99297	0.99297	3925/21	1.0	0.978–	0.39587	0.54792
			4518	00	1.036	5995	5995	0683	17	1.057	8583	9777
Relative lipoprotein lipid concentrations	XL_HDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Very Large HDL ratio	3195/25	1.0	0.998–	0.06826	0.13169	3945/21	0.9	0.972–	0.75613	0.83022
			5674	31	1.066	7731	7811	1720	96	1.021	9316	0532
Relative lipoprotein lipid concentrations	XL_VLDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Very Large VLDL ratio	3190/25	1.0	1.011–	0.01004	0.03165	3946/21	1.0	1.003–	0.03474	0.14663
			5570	48	1.086	7553	2203	1592	37	1.072	1878	7796
Relative lipoprotein lipid concentrations	XS_VLDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Very Small VLDL ratio	3188/25	1.0	1.043–	7.29583	0.00156	3932/21	1.0	0.993–	0.12926	0.30665
			5089	87	1.132	E-05	5146	1206	23	1.053	8772	9495
Relative lipoprotein lipid concentrations	XXL_VLDL_FC_pct	Free Cholesterol to Total Lipids in Chylomicrons and Extremely Large VLDL percentage	3190/25	0.9	0.951–	0.33504	0.43907	3934/21	0.9	0.943–	0.27456	0.46234
			5075	83	1.017	6415	2924	1152	79	1.017	2643	6419
Relative lipoprotein lipid concentrations	IDL_FC_pct	Free Cholesterol to Total Lipids in IDL percentage	3160/25	0.9	0.927–	0.06886	0.13169	3910/21	0.9	0.958–	0.27336	0.46234
			3642	64	1.003	9729	7811	0033	85	1.012	9493	6419
Relative lipoprotein lipid concentrations	L_HDL_FC_pct	Free Cholesterol to Total Lipids in Large HDL percentage	3171/25	0.9	0.916–	0.09059	0.16001	3922/21	1.0	0.986–	0.39385	0.54792
			4537	60	1.006	4357	7206	0777	11	1.037	4087	9777
Relative lipoprotein lipid concentrations	L_LDL_FC_pct	Free Cholesterol to Total Lipids in Large LDL percentage	3159/25	0.9	0.908–	0.00087	0.00577	3910/21	0.9	0.957–	0.17293	0.37190
			3717	41	0.975	0699	5045	0060	82	1.008	5568	7473
Relative lipoprotein lipid concentrations	L_VLDL_FC_pct	Free Cholesterol to Total Lipids in Large VLDL percentage	3187/25	1.0	0.969–	0.98655	0.99297	3940/21	0.9	0.918–	0.02903	0.12926
			5435	00	1.033	3915	5995	1461	56	0.995	5833	9121
Relative lipoprotein lipid concentrations	M_HDL_FC_pct	Free Cholesterol to Total Lipids in Medium HDL percentage	3164/25	0.9	0.947–	0.58540	0.67949	3914/21	1.0	0.994–	0.10069	0.25947
			3781	88	1.031	6947	0207	0126	30	1.067	6972	6245
Relative lipoprotein lipid concentrations	M_LDL_FC_pct	Free Cholesterol to Total Lipids in Medium LDL percentage	3162/25	0.9	0.907–	0.00420	0.01707	3910/21	0.9	0.955–	0.21498	0.42199
			3782	44	0.982	3352	6119	0128	82	1.011	3314	4642
Relative lipoprotein lipid concentrations	M_VLDL_FC_pct	Free Cholesterol to Total Lipids in Medium VLDL percentage	3171/25	0.9	0.922–	0.02887	0.06951	3920/21	0.9	0.947–	0.10253	0.25947
			4371	58	0.996	657	2881	0601	75	1.005	4786	6245
Relative lipoprotein lipid concentrations	S_HDL_FC_pct	Free Cholesterol to Total Lipids in Small HDL percentage	3158/25	1.0	0.970–	0.77473	0.84210	3904/20	0.9	0.953–	0.54907	0.66092
			3507	05	1.041	6711	5121	9864	89	1.026	6332	5214
Relative lipoprotein lipid concentrations	S_LDL_FC_pct	Free Cholesterol to Total Lipids in Small LDL percentage	3166/25	0.9	0.924–	0.03944	0.08780	3919/21	0.9	0.952–	0.09936	0.25947
			4227	60	0.998	435	4204	0445	78	1.004	9393	6245
Relative lipoprotein lipid concentrations	S_VLDL_FC_pct	Free Cholesterol to Total Lipids in Small VLDL percentage	3170/25	0.9	0.927–	0.05478	0.11257	3921/21	0.9	0.946–	0.12599	0.30526
			4385	63	1.001	3557	7107	0560	76	1.007	7577	2014

Relative lipoprotein lipid concentrations	XL_HDL_FC_pct	Free Cholesterol to Total Lipids in Very Large HDL percentage	3178/25 4627	1.0 52	1.005– 1.101	0.02894 8099	0.06951 2881	3925/21 0835	0.9 76	0.945– 1.008	0.13298 5682	0.31319 0919
Relative lipoprotein lipid concentrations	XL_VLDL_FC_pct	Free Cholesterol to Total Lipids in Very Large VLDL percentage	3189/25 5433	0.9 84	0.952– 1.017	0.33068 7269	0.43511 4828	3944/21 1467	0.9 75	0.937– 1.016	0.22644 0998	0.42415 1914
Relative lipoprotein lipid concentrations	XS_VLDL_FC_pct	Free Cholesterol to Total Lipids in Very Small VLDL percentage	3178/25 4612	0.9 81	0.943– 1.021	0.35781 3042	0.46330 3739	3923/21 0835	0.9 76	0.950– 1.003	0.07891 9605	0.23317 156
Relative lipoprotein lipid concentrations	XXL_VLDL_PL_pct	Phospholipids to Total Lipids in Chylomicrons and Extremely Large VLDL percentage	3190/25 5075	1.0 20	0.987– 1.054	0.23585 5194	0.34067 9725	3934/21 1152	0.9 68	0.926– 1.013	0.15838 7935	0.35017 7407
Relative lipoprotein lipid concentrations	IDL_PL_pct	Phospholipids to Total Lipids in IDL percentage	3160/25 3642	1.0 22	0.986– 1.059	0.23803 9719	0.34134 1341	3910/21 0033	1.0 05	0.975– 1.036	0.74839 1541	0.82730 3574
Relative lipoprotein lipid concentrations	L_HDL_PL_pct	Phospholipids to Total Lipids in Large HDL percentage	3171/25 4537	1.0 32	0.983– 1.084	0.20713 3759	0.30623 3427	3922/21 0777	1.0 17	0.986– 1.049	0.29608 4116	0.47637 2958
Relative lipoprotein lipid concentrations	L_LDL_PL_pct	Phospholipids to Total Lipids in Large LDL percentage	3159/25 3717	0.9 41	0.909– 0.976	0.00090 247	0.00586 6055	3910/21 0060	0.9 88	0.957– 1.019	0.43537 6112	0.57519 2018
Relative lipoprotein lipid concentrations	L_VLDL_PL_pct	Phospholipids to Total Lipids in Large VLDL percentage	3187/25 5435	1.0 29	0.994– 1.064	0.10126 565	0.17114 0252	3940/21 1461	0.9 54	0.912– 0.997	0.03795 4123	0.15178 3749
Relative lipoprotein lipid concentrations	M_HDL_PL_pct	Phospholipids to Total Lipids in Medium HDL percentage	3164/25 3781	1.0 44	1.001– 1.089	0.04268 4448	0.09248 2971	3914/21 0126	1.0 00	0.966– 1.034	0.98812 6144	0.99071 1088
Relative lipoprotein lipid concentrations	M_LDL_PL_pct	Phospholipids to Total Lipids in Medium LDL percentage	3162/25 3782	0.9 75	0.941– 1.010	0.15288 002	0.24475 8652	3910/21 0128	0.9 88	0.956– 1.021	0.46017 3514	0.59347 7747
Relative lipoprotein lipid concentrations	M_VLDL_PL_pct	Phospholipids to Total Lipids in Medium VLDL percentage	3171/25 4371	0.9 70	0.936– 1.005	0.08784 1344	0.15685 9543	3920/21 0601	0.9 74	0.946– 1.003	0.07772 7469	0.23317 156
Relative lipoprotein lipid concentrations	S_HDL_PL_pct	Phospholipids to Total Lipids in Small HDL percentage	3158/25 3507	0.9 75	0.940– 1.012	0.18196 4369	0.28161 1524	3904/20 9864	1.0 53	1.019– 1.088	0.00217 3169	0.02207 1249
Relative lipoprotein lipid concentrations	S_LDL_PL_pct	Phospholipids to Total Lipids in Small LDL percentage	3166/25 4227	1.0 00	0.964– 1.036	0.98019 2182	0.99240 6415	3919/21 0445	1.0 26	0.992– 1.061	0.13529 2736	0.31612 4793
Relative lipoprotein lipid concentrations	S_VLDL_PL_pct	Phospholipids to Total Lipids in Small VLDL percentage	3170/25 4385	0.9 66	0.930– 1.003	0.07076 9021	0.13372 0534	3921/21 0560	0.9 78	0.947– 1.010	0.17708 6788	0.37372 2117
Relative lipoprotein lipid concentrations	XL_HDL_PL_pct	Phospholipids to Total Lipids in Very Large HDL percentage	3178/25 4627	0.9 26	0.892– 0.960	3.71751 E-05	0.00151 024	3925/21 0835	0.9 96	0.972– 1.020	0.73430 6565	0.81450 3868
Relative lipoprotein lipid concentrations	XL_VLDL_PL_pct	Phospholipids to Total Lipids in Very Large VLDL percentage	3189/25 5433	1.0 29	0.995– 1.065	0.09794 2366	0.16665 5858	3944/21 1467	0.9 59	0.919– 1.000	0.04897 8145	0.18088 5196

Relative lipoprotein lipid concentrations	XS_VLDL_PL_pct	Phospholipids to Total Lipids in Very Small VLDL percentage	3178/25	1.0	1.018-	0.00414	0.01703	3923/21	1.0	0.979-	0.49395	0.61661
			4612	57	1.097	1818	9123	0835	11	1.044	654	4494
Relative lipoprotein lipid concentrations	XXL_VLDL_TG_pct	Triglycerides to Total Lipids in Chylomicrons and Extremely Large VLDL percentage	3190/25	0.9	0.964-	0.83534	0.87576	3934/21	1.0	0.986-	0.23482	0.42415
			5075	96	1.030	0534	0238	1152	23	1.061	2917	1914
Relative lipoprotein lipid concentrations	IDL_TG_pct	Triglycerides to Total Lipids in IDL percentage	3160/25	1.0	1.009-	0.01699	0.04846	3910/21	1.0	0.997-	0.07994	0.23408
			3642	49	1.091	9377	3135	0033	28	1.060	8025	2055
Relative lipoprotein lipid concentrations	L_HDL_TG_pct	Triglycerides to Total Lipids in Large HDL percentage	3171/25	1.0	1.000-	0.05089	0.10602	3922/21	0.9	0.946-	0.15288	0.34033
			4537	42	1.086	2813	6694	0777	77	1.009	8642	4307
Relative lipoprotein lipid concentrations	L_LDL_TG_pct	Triglycerides to Total Lipids in Large LDL percentage	3159/25	1.0	0.996-	0.07443	0.13784	3910/21	1.0	1.006-	0.01768	0.08978
			3717	37	1.078	4333	7568	0060	37	1.069	1127	6973
Relative lipoprotein lipid concentrations	L_VLDL_TG_pct	Triglycerides to Total Lipids in Large VLDL percentage	3187/25	1.0	0.992-	0.12939	0.21027	3940/21	1.0	0.997-	0.07072	0.22263
			5435	27	1.063	8814	3073	1461	39	1.083	5242	5334
Relative lipoprotein lipid concentrations	M_HDL_TG_pct	Triglycerides to Total Lipids in Medium HDL percentage	3164/25	1.0	0.997-	0.07167	0.13464	3914/21	0.9	0.944-	0.23471	0.42415
			3781	35	1.074	4177	8021	0126	78	1.014	6333	1914
Relative lipoprotein lipid concentrations	M_LDL_TG_pct	Triglycerides to Total Lipids in Medium LDL percentage	3162/25	1.0	0.997-	0.07464	0.13784	3910/21	1.0	1.009-	0.01083	0.06906
			3782	35	1.074	976	7568	0128	40	1.072	7974	5521
Relative lipoprotein lipid concentrations	M_VLDL_TG_pct	Triglycerides to Total Lipids in Medium VLDL percentage	3171/25	1.0	1.013-	0.00791	0.02628	3920/21	1.0	0.985-	0.26759	0.45901
			4371	52	1.092	8804	9456	0601	20	1.056	0144	7603
Relative lipoprotein lipid concentrations	S_HDL_TG_pct	Triglycerides to Total Lipids in Small HDL percentage	3158/25	1.0	1.011-	0.01091	0.03377	3904/20	0.9	0.949-	0.43356	0.57519
			3507	49	1.089	2124	5621	9864	85	1.023	3347	2018
Relative lipoprotein lipid concentrations	S_LDL_TG_pct	Triglycerides to Total Lipids in Small LDL percentage	3166/25	1.0	1.006-	0.02268	0.05907	3919/21	1.0	0.999-	0.05543	0.19167
			4227	45	1.086	315	4794	0445	31	1.064	7985	3884
Relative lipoprotein lipid concentrations	S_VLDL_TG_pct	Triglycerides to Total Lipids in Small VLDL percentage	3170/25	1.0	1.005-	0.02614	0.06585	3921/21	1.0	0.990-	0.16885	0.36830
			4385	42	1.080	117	9536	0560	24	1.059	2548	2538
Relative lipoprotein lipid concentrations	XL_HDL_TG_pct	Triglycerides to Total Lipids in Very Large HDL percentage	3178/25	1.0	1.023-	0.00211	0.01074	3925/21	0.9	0.967-	0.95677	0.96869
			4627	65	1.109	6563	8173	0835	99	1.032	0795	3173
Relative lipoprotein lipid concentrations	XL_VLDL_TG_pct	Triglycerides to Total Lipids in Very Large VLDL percentage	3189/25	1.0	0.988-	0.19465	0.29628	3944/21	0.9	0.940-	0.43268	0.57519
			5433	23	1.059	3255	5537	1467	83	1.027	4392	2018
Relative lipoprotein lipid concentrations	XS_VLDL_TG_pct	Triglycerides to Total Lipids in Very Small VLDL percentage	3178/25	1.0	1.022-	0.00207	0.01071	3923/21	1.0	0.993-	0.12497	0.30526
			4612	63	1.104	7102	5208	0835	26	1.060	7982	2014
Total lipids	HDL_L	Total Lipids in HDL	3148/25	0.9	0.944-	0.38407	0.48194	3896/20	1.0	1.026-	0.00087	0.01151
			2930	82	1.022	5156	7589	9409	65	1.105	9031	7103

Total lipids	LDL_L	Total Lipids in LDL	3156/25	1.0	0.996-	0.08008	0.14703	3909/20	0.9	0.957-	0.40822	0.55635
			3610	33	1.071	0053	9645	9952	87	1.018	6862	6251
Total lipids	Total_L	Total Lipids in Lipoprotein Particles	3128/25	1.0	1.000-	0.04779	0.10152	3873/20	1.0	0.987-	0.27157	0.46210
			1454	39	1.079	3044	1172	8114	17	1.049	6121	5965
Total lipids	VLDL_L	Total Lipids in VLDL	3150/25	1.0	1.025-	0.00119	0.00716	3892/20	1.0	0.970-	0.83611	0.89093
			2797	63	1.104	022	3362	9170	04	1.038	0578	7501
Triglycerides	Total_TG	Total Triglycerides	3148/25	1.0	1.036-	0.00015	0.00196	3896/20	1.0	0.984-	0.33002	0.49888
			3062	76	1.118	0826	0741	9390	17	1.051	9757	219
Triglycerides	HDL_TG	Triglycerides in HDL	3174/25	1.0	0.996-	0.08066	0.14728	3924/21	1.0	0.985-	0.29504	0.47637
			4430	32	1.069	9402	9639	0672	17	1.051	5624	2958
Triglycerides	LDL_TG	Triglycerides in LDL	3161/25	1.0	1.029-	0.00051	0.00415	3913/21	1.0	0.996-	0.09242	0.25173
			4030	67	1.106	1606	6798	0276	27	1.060	1043	8501
Triglycerides	VLDL_TG	Triglycerides in VLDL	3171/25	1.0	1.039-	7.89182	0.00156	3912/21	1.0	0.980-	0.44274	0.58256
			4012	79	1.121	E-05	5146	0259	13	1.047	8366	364

Supplementary Table 5 Results of associations between plasma metabolites and incident colorectal cancer stratified by age

Group	Metabolite (Abbreviations)	Metabolite	Younger					Older				
			Events/ Total	H R	95% CI	P value	Q value	Events/ Total	H R	95% CI	P value	Q value
Amino acids	Ala	Alanine	2517/26	1.0	0.980–	0.32418	0.36711	4603/20	0.9	0.962–	0.57459	0.71985
			5200	20	1.062	9429	3465	1238	91	1.022	6737	0561
Amino acids	Gln	Glutamine	2501/26	0.9	0.939–	0.25068	0.29734	4571/19	0.9	0.926–	0.00202	0.01061
			3633	77	1.017	6318	691	9956	54	0.983	4682	3254
Amino acids	Gly	Glycine	2511/26	0.9	0.922–	0.09769	0.13340	4596/20	0.9	0.956–	0.55404	0.71171
			4294	64	1.007	346	4935	0552	90	1.024	4758	7575
Amino acids	His	Histidine	2515/26	0.9	0.891–	0.00055	0.00394	4613/20	0.9	0.892–	3.20446	2.60362
			5511	29	0.969	8849	8387	1455	21	0.950	E-07	E-05
Amino acids	Ile	Isoleucine	2525/26	0.9	0.956–	0.85505	0.86570	4609/20	0.9	0.970–	0.95454	0.97555
			5749	96	1.038	4808	9696	1640	99	1.029	3948	5921
Amino acids	Leu	Leucine	2510/26	0.9	0.933–	0.20849	0.25097	4604/20	0.9	0.932–	0.01208	0.04620
			5253	73	1.015	831	0188	1308	61	0.991	3845	2939
Amino acids	Phe	Phenylalanine	2517/26	1.0	0.977–	0.48990	0.52305	4608/20	0.9	0.949–	0.14957	0.27463
			5488	13	1.051	7822	8355	1402	78	1.008	2843	9401
Amino acids	Total_BCAA	Total Concentration of Branched-Chain Amino Acids (Leucine + Isoleucine + Valine)	2500/26	0.9	0.939–	0.35124	0.39228	4577/20	0.9	0.934–	0.01910	0.06607
			4234	80	1.023	5359	4336	0609	63	0.994	9743	0921
Amino acids	Tyr	Tyrosine	2509/26	1.0	0.996–	0.07665	0.10785	4595/20	0.9	0.967–	0.80503	0.88049
			4916	37	1.080	9352	4067	1003	96	1.026	4914	2566
Amino acids	Val	Valine	2502/26	0.9	0.940–	0.36314	0.40418	4586/20	0.9	0.927–	0.00662	0.02911
			4368	81	1.023	7785	8459	0756	57	0.988	8292	0743
Apolipoproteins	ApoA1	Apolipoprotein A1	2504/26	1.0	1.032–	0.00080	0.00501	4580/20	1.0	0.988–	0.21740	0.36420
			4095	79	1.127	3012	9777	0422	21	1.055	1819	4078
Apolipoproteins	ApoB	Apolipoprotein B	2506/26	1.0	1.006–	0.02428	0.04384	4590/20	0.9	0.945–	0.06126	0.15083
			4470	48	1.091	1644	1858	0664	73	1.001	119	2475
Apolipoproteins	ApoB_by_ApoA1	Apolipoprotein B to Apolipoprotein A1 ratio	2503/26	1.0	0.962–	0.92294	0.92579	4577/20	0.9	0.939–	0.03212	0.09850
			3938	02	1.044	2221	0808	0270	68	0.997	6301	0451
Cholesterol	Clinical_LDL_C	Clinical LDL Cholesterol	2504/26	1.0	0.992–	0.11811	0.15541	4584/20	0.9	0.939–	0.01471	0.05372
			4209	33	1.077	3777	2865	0512	65	0.993	2475	5331

Cholesterol	HDL_C	HDL Cholesterol	2492/26	1.0	1.014-	0.01194	0.02745	4562/19	1.0	0.977-	0.54028	0.70657
			3163	63	1.115	5062	1205	9714	11	1.046	9249	9727
Cholesterol	LDL_C	LDL Cholesterol	2503/26	1.0	1.005-	0.02903	0.04914	4577/20	0.9	0.945-	0.05577	0.13846
			3942	46	1.090	4909	7633	0270	72	1.001	1264	8916
Cholesterol	Remnant_C	Remnant Cholesterol (Non-HDL, Non-LDL -Cholesterol)	2477/26	1.0	1.007-	0.02214	0.04111	4550/19	0.9	0.941-	0.03011	0.09410
			2125	49	1.094	1085	9158	8977	69	0.997	3836	5738
Cholesterol	Total_C	Total Cholesterol	2477/26	1.0	1.020-	0.00401	0.01279	4550/19	0.9	0.947-	0.08786	0.19177
			2125	65	1.111	4424	1057	8977	75	1.004	9241	1496
Cholesterol	non_HDL_C	Total Cholesterol Minus HDL-C	2477/26	1.0	1.006-	0.02350	0.04308	4550/19	0.9	0.942-	0.03114	0.09641
			2125	49	1.093	2969	0004	8977	69	0.997	9524	5194
Cholesterol	VLDL_C	VLDL Cholesterol	2490/26	1.0	1.009-	0.01687	0.03363	4572/19	0.9	0.954-	0.24175	0.39448
			3340	51	1.095	094	8378	9837	82	1.012	5082	2745
Cholesteryl esters	HDL_CE	Cholesteryl Esters in HDL	2495/26	1.0	1.004-	0.03247	0.05384	4566/19	1.0	0.977-	0.54134	0.70657
			3395	53	1.105	4896	6931	9890	11	1.046	8775	9727
Cholesteryl esters	LDL_CE	Cholesteryl Esters in LDL	2504/26	1.0	1.011-	0.01318	0.02935	4579/20	0.9	0.949-	0.11178	0.23140
			3981	53	1.096	9287	9714	0319	77	1.005	8124	8537
Cholesteryl esters	VLDL_CE	Cholesteryl Esters in VLDL	2498/26	1.0	1.000-	0.05040	0.07655	4583/20	0.9	0.947-	0.08926	0.19177
			3918	41	1.085	8334	4713	0230	75	1.004	451	1496
Cholesteryl esters	Total_CE	Total Esterified Cholesterol	2486/26	1.0	1.017-	0.00645	0.01761	4562/19	0.9	0.947-	0.09028	0.19177
			2818	61	1.108	0542	7028	9452	75	1.004	012	1496
Fatty acids	Unsaturation	Degree of Unsaturation	2525/26	0.9	0.890-	0.00096	0.00533	4607/20	0.9	0.923-	0.00137	0.00729
			5665	30	0.971	7719	0656	1628	51	0.981	0135	9902
Fatty acids	DHA	Docosahexaenoic Acid	2509/26	1.0	0.972-	0.49727	0.52814	4583/20	0.9	0.958-	0.37661	0.53683
			4157	15	1.059	0495	6768	0486	87	1.016	0491	513
Fatty acids	DHA_pct	Docosahexaenoic Acid to Total Fatty Acids percentage	2494/26	0.9	0.911-	0.01930	0.03690	4558/19	0.9	0.942-	0.05581	0.13846
			2910	50	0.992	2118	1108	9588	71	1.001	3625	8916
Fatty acids	LA	Linoleic Acid	2499/26	1.0	0.999-	0.05513	0.08038	4570/20	0.9	0.946-	0.08106	0.18424
			3588	41	1.084	2745	0948	0030	74	1.003	5662	0142
Fatty acids	LA_pct	Linoleic Acid to Total Fatty Acids percentage	2494/26	0.9	0.865-	3.78791	1.53884	4558/19	0.9	0.896-	1.27764	2.07617
			2972	00	0.938	E-07	E-05	9614	23	0.951	E-07	E-05
Fatty acids	MUFA	Monounsaturated Fatty Acids	2509/26	1.1	1.063-	5.4809E	1.65105	4585/20	1.0	1.006-	0.02029	0.06942
			4366	06	1.150	-07	E-05	0632	37	1.069	4516	8609

Fatty acids	MUFA_pct	Monounsaturated Fatty Acids to Total Fatty Acids percentage	2494/26	1.0	1.041-	0.00017	0.00151	4558/19	1.0	1.025-	0.00061	0.00411
			2972	87	1.136	6908	3028	9614	58	1.093	9712	0334
Fatty acids	Omega_3	Omega-3 Fatty Acids	2509/26	1.0	1.001-	0.04276	0.06618	4584/20	1.0	0.971-	0.97011	0.98527
			4324	43	1.086	7764	8206	0585	01	1.031	6058	4122
Fatty acids	Omega_3_pct_PUFA	Omega-3 Fatty Acids to Polyunsaturated Fatty Acids percentage	2497/26	1.0	0.974-	0.50758	0.53735	4564/19	1.0	0.974-	0.82491	0.88853
			3235	14	1.055	9943	0917	9790	03	1.034	4532	8082
Fatty acids	Omega_3_pct	Omega-3 Fatty Acids to Total Fatty Acids percentage	2494/26	0.9	0.944-	0.44186	0.48028	4558/19	0.9	0.955-	0.30791	0.46451
			2972	84	1.025	3013	5884	9614	84	1.015	3454	7918
Fatty acids	Omega_6	Omega-6 Fatty Acids	2497/26	1.0	1.020-	0.00332	0.01160	4564/19	0.9	0.958-	0.38716	0.54708
			3235	63	1.106	099	5609	9790	87	1.017	9783	7736
Fatty acids	Omega_6_by_Omega_3	Omega-6 Fatty Acids to Omega-3 Fatty Acids ratio	2497/26	0.9	0.952-	0.64246	0.66497	4564/19	0.9	0.966-	0.80254	0.88049
			3235	91	1.031	8515	5373	9790	96	1.027	1317	2566
Fatty acids	Omega_6_pct_PUFA	Omega-6 Fatty Acids to Polyunsaturated Fatty Acids percentage	2497/26	0.9	0.939-	0.30960	0.35182	4564/19	0.9	0.971-	0.92137	0.95670
			3235	79	1.020	742	6613	9790	99	1.027	9041	3477
Fatty acids	Omega_6_pct	Omega-6 Fatty Acids to Total Fatty Acids percentage	2494/26	0.8	0.863-	6.23553	2.89507	4558/19	0.9	0.912-	3.89972	0.00052
			2972	97	0.933	E-08	E-06	9614	39	0.968	E-05	8087
Fatty acids	PUFA	Polyunsaturated Fatty Acids	2497/26	1.0	1.022-	0.00257	0.01000	4564/19	0.9	0.958-	0.42262	0.59203
			3235	64	1.108	9469	9758	9790	88	1.018	2957	6471
Fatty acids	PUFA_by_MUFA	Polyunsaturated Fatty Acids to Monounsaturated Fatty Acids ratio	2497/26	0.8	0.860-	1.88818	3.60976	4562/19	0.9	0.905-	4.62929	0.00060
			3186	99	0.939	E-06	E-05	9761	35	0.966	E-05	1807
Fatty acids	PUFA_pct	Polyunsaturated Fatty Acids to Total Fatty Acids percentage	2494/26	0.8	0.858-	2.77573	1.80422	4558/19	0.9	0.906-	8.25061	0.00022
			2972	93	0.929	E-08	E-06	9614	34	0.962	E-06	3454
Fatty acids	SFA	Saturated Fatty Acids	2498/26	1.1	1.073-	3.50416	1.89809	4568/20	1.0	1.004-	0.02462	0.08167
			3617	15	1.159	E-08	E-06	0085	35	1.066	9217	8526
Fatty acids	SFA_pct	Saturated Fatty Acids to Total Fatty Acids percentage	2494/26	1.1	1.063-	5.58817	1.65105	4558/19	1.0	1.029-	0.00010	0.00095
			2972	06	1.151	E-07	E-05	9614	60	1.092	2687	733
Fatty acids	Total_FA	Total Fatty Acids	2494/26	1.1	1.060-	1.00797	2.72991	4558/19	1.0	0.992-	0.15864	0.28805
			2972	03	1.147	E-06	E-05	9614	22	1.053	9483	0738
Fluid balance	Albumin	Albumin	2499/26	0.9	0.897-	2.3143E	0.00027	4571/19	0.9	0.914-	3.66296	0.00051
			3394	29	0.961	-05	8574	9962	41	0.968	E-05	7593
Fluid balance	Creatinine	Creatinine	2470/26	1.0	1.036-	4.04826	0.00042	4532/19	1.0	0.975-	0.68529	0.79543
			0280	71	1.106	E-05	3305	7614	07	1.039	5043	1747

Free cholesterol	HDL_FC	Free Cholesterol in HDL	2500/26	1.0	1.041-	0.00025	0.00205	4572/20	1.0	0.980-	0.42691	0.59548
			3514	91	1.144	274	3511	0007	14	1.049	8453	7112
Free cholesterol	LDL_FC	Free Cholesterol in LDL	2503/26	1.0	0.989-	0.15650	0.19488	4583/20	0.9	0.938-	0.01664	0.05880
			4107	30	1.073	6778	3919	0436	65	0.994	7232	8156
Free cholesterol	VLDL_FC	Free Cholesterol in VLDL	2500/26	1.0	1.022-	0.00252	0.01000	4584/20	0.9	0.967-	0.84582	0.89162
			4010	65	1.109	3342	105	0364	97	1.027	483	41
Free cholesterol	Total_FC	Total Free Cholesterol	2489/26	1.0	1.025-	0.00179	0.00829	4561/19	0.9	0.950-	0.12537	0.24843
			2806	69	1.114	3804	6235	9471	78	1.006	401	7037
Glycolysis related metabolites	Citrate	Citrate	2510/26	1.0	1.022-	0.00248	0.00996	4589/20	1.0	0.994-	0.12570	0.24843
			4576	65	1.109	4381	8194	0790	23	1.054	0623	7037
Glycolysis related metabolites	Glucose	Glucose	2512/26	1.1	1.082-	8.44848	9.15252	4588/20	1.0	1.026-	0.00016	0.00127
			4596	22	1.164	E-10	E-08	0782	55	1.085	0381	1314
Glycolysis related metabolites	Lactate	Lactate	2521/26	1.0	0.999-	0.05515	0.08038	4611/20	1.0	0.970-	0.99521	0.99758
			5456	40	1.083	3697	0948	1472	00	1.031	2891	1859
Glycolysis related metabolites	Pyruvate	Pyruvate	2520/26	1.0	0.981-	0.34258	0.38393	4593/20	1.0	1.000-	0.04652	0.12042
			4912	18	1.058	7207	8964	0893	29	1.059	9323	8636
Inflammation	GlycA	Glycoprotein Acetyls	2499/26	1.1	1.101-	7.77568	2.18576	4569/19	1.1	1.070-	7.04359	2.28917
			3468	48	1.197	E-11	E-08	9939	04	1.139	E-10	E-07
Ketone bodies	bOHbutyrate	3-Hydroxybutyrate	2472/26	1.1	1.071-	1.34508	2.18576	4523/19	1.0	1.044-	2.40039	2.60042
			0753	04	1.138	E-10	E-08	7705	72	1.100	E-07	E-05
Ketone bodies	Acetate	Acetate	2519/26	1.0	0.986-	0.26031	0.30323	4565/20	1.0	1.003-	0.02658	0.08469
			4148	19	1.054	1931	0744	0302	27	1.051	1611	6311
Ketone bodies	Acetoacetate	Acetoacetate	2526/26	1.0	1.056-	4.11364	3.34233	4617/20	1.0	1.035-	2.08133	0.00011
			6034	84	1.114	E-09	E-07	1877	60	1.086	E-06	478
Ketone bodies	Acetone	Acetone	2528/26	1.0	1.037-	4.36478	1.57617	4617/20	1.0	1.027-	7.85698	0.00082
			5912	60	1.085	E-07	E-05	1744	54	1.082	E-05	3715
Lipoprotein particle concentrations	HDL_P	Concentration of HDL Particles	2496/26	1.0	1.032-	0.00066	0.00440	4563/19	1.0	0.986-	0.28426	0.44953
			3276	77	1.124	3497	0745	9800	17	1.050	7195	7098
Lipoprotein particle concentrations	LDL_P	Concentration of LDL Particles	2503/26	1.0	1.005-	0.02718	0.04775	4590/20	0.9	0.951-	0.14706	0.27311
			4461	46	1.089	5716	869	0618	79	1.008	2656	6362
Lipoprotein particle concentrations	VLDL_P	Concentration of VLDL Particles	2505/26	1.0	1.025-	0.00153	0.00767	4581/20	0.9	0.967-	0.82141	0.88853
			3991	67	1.110	8956	7851	0259	97	1.027	1569	8082

Lipoprotein particle concentrations	Total_P	Total Concentration of Lipoprotein Particles	2485/26	1.0	1.040-	0.00016	0.00146	4548/19	1.0	0.980-	0.47863	0.65359
			2351	86	1.133	7328	9777	9137	11	1.044	3736	6489
Lipoprotein particle sizes	HDL_size	Average Diameter for HDL Particles	2529/26	1.0	1.000-	0.04951	0.07590	4619/20	1.0	0.974-	0.63555	0.75763
			6036	50	1.101	5664	8448	1886	09	1.044	1704	2553
Lipoprotein particle sizes	LDL_size	Average Diameter for LDL Particles	2523/26	0.9	0.930-	0.10953	0.14710	4609/20	0.9	0.945-	0.07854	0.18105
			5598	68	1.007	5307	3202	1465	73	1.003	8088	0557
Lipoprotein particle sizes	VLDL_size	Average Diameter for VLDL Particles	2529/26	1.0	0.992-	0.11176	0.14947	4619/20	1.0	1.008-	0.01524	0.05462
			6052	37	1.084	3	7264	1855	41	1.075	8726	3383
Lipoprotein subclasses	XXL_VLDL_C	Cholesterol in Chylomicrons and Extremely Large VLDL	2524/26	1.0	1.016-	0.00618	0.01744	4615/20	1.0	0.996-	0.08780	0.19177
			5601	57	1.100	8023	4309	1563	27	1.059	6141	1496
Lipoprotein subclasses	IDL_C	Cholesterol in IDL	2501/26	1.0	0.990-	0.13585	0.17661	4582/20	0.9	0.932-	0.00554	0.02468
			3971	33	1.078	4796	1235	0304	60	0.988	4559	4681
Lipoprotein subclasses	L_HDL_C	Cholesterol in Large HDL	2525/26	1.0	1.003-	0.03586	0.05822	4609/20	1.0	0.972-	0.69001	0.79805
			5711	54	1.108	9729	0671	1643	07	1.043	4117	9032
Lipoprotein subclasses	L_LDL_C	Cholesterol in Large LDL	2503/26	1.0	1.003-	0.03368	0.05528	4578/20	0.9	0.943-	0.03984	0.11359
			3983	45	1.089	1976	6072	0318	70	0.999	4419	1546
Lipoprotein subclasses	L_VLDL_C	Cholesterol in Large VLDL	2523/26	1.0	1.007-	0.02116	0.03976	4611/20	1.0	0.973-	0.82332	0.88853
			5670	50	1.094	733	5215	1571	04	1.035	8766	8082
Lipoprotein subclasses	M_HDL_C	Cholesterol in Medium HDL	2503/26	1.0	1.010-	0.01582	0.03275	4583/20	1.0	0.990-	0.18397	0.32673
			4079	56	1.104	4363	7439	0433	22	1.056	8846	8388
Lipoprotein subclasses	M_LDL_C	Cholesterol in Medium LDL	2503/26	1.0	1.006-	0.02372	0.04308	4578/20	0.9	0.952-	0.17142	0.30846
			4025	48	1.091	7141	0004	0344	80	1.009	5672	1651
Lipoprotein subclasses	M_VLDL_C	Cholesterol in Medium VLDL	2506/26	1.0	0.988-	0.17264	0.21415	4592/20	0.9	0.940-	0.02621	0.08466
			4557	29	1.071	5468	9454	0670	68	0.996	1074	1692
Lipoprotein subclasses	S_HDL_C	Cholesterol in Small HDL	2496/26	1.0	1.004-	0.03263	0.05384	4567/19	1.0	0.981-	0.47614	0.65334
			3557	44	1.087	9525	6931	9999	11	1.041	9456	6817
Lipoprotein subclasses	S_LDL_C	Cholesterol in Small LDL	2507/26	1.0	1.004-	0.03198	0.05330	4588/20	0.9	0.953-	0.18829	0.32901
			4422	45	1.088	4839	8066	0640	81	1.010	7734	4859
Lipoprotein subclasses	S_VLDL_C	Cholesterol in Small VLDL	2508/26	1.0	1.002-	0.03989	0.06294	4590/20	0.9	0.949-	0.12796	0.25052
			4500	43	1.086	9105	7618	0701	77	1.007	1996	8005
Lipoprotein subclasses	XL_HDL_C	Cholesterol in Very Large HDL	2527/26	1.0	1.005-	0.02925	0.04926	4613/20	0.9	0.965-	0.92440	0.95679
			5733	55	1.108	5824	0195	1661	98	1.033	8525	2263

Lipoprotein subclasses	XL_VLDL_C	Cholesterol in Very Large VLDL	2524/26	1.0	1.010–	0.01526	0.03225	4612/20	1.0	0.976–	0.70456	0.80912
			5611	52	1.097	145	2936	1551	06	1.037	1813	5757
Lipoprotein subclasses	XS_VLDL_C	Cholesterol in Very Small VLDL	2518/26	1.0	1.008–	0.01975	0.03755	4602/20	0.9	0.933–	0.00849	0.03492
			5128	51	1.095	9795	5166	1167	61	0.990	0246	8227
Lipoprotein subclasses	XXL_VLDL_CE	Cholesteryl Esters in Chylomicrons and Extremely Large VLDL	2526/26	1.0	1.010–	0.01462	0.03190	4618/20	1.0	0.992–	0.14321	0.27003
			5784	51	1.094	6153	2682	1690	23	1.055	4521	6037
Lipoprotein subclasses	IDL_CE	Cholesteryl Esters in IDL	2504/26	1.0	0.990–	0.13447	0.17552	4586/20	0.9	0.933–	0.00691	0.02997
			4251	33	1.078	9044	4857	0555	61	0.989	7466	5686
Lipoprotein subclasses	L_HDL_CE	Cholesteryl Esters in Large HDL	2528/26	1.0	1.000–	0.05153	0.07745	4614/20	1.0	0.973–	0.67779	0.78990
			5856	50	1.104	6856	5828	1727	07	1.043	4951	0066
Lipoprotein subclasses	L_LDL_CE	Cholesteryl Esters in Large LDL	2504/26	1.0	1.009–	0.01627	0.03287	4580/20	0.9	0.947–	0.07961	0.18222
			4022	51	1.095	5788	6908	0367	74	1.003	8219	4796
Lipoprotein subclasses	L_VLDL_CE	Cholesteryl Esters in Large VLDL	2523/26	1.0	0.999–	0.05289	0.07813	4615/20	0.9	0.963–	0.65237	0.76584
			5758	41	1.085	2953	7316	1648	93	1.024	6619	4775
Lipoprotein subclasses	M_HDL_CE	Cholesteryl Esters in Medium HDL	2507/26	1.0	1.005–	0.02788	0.04845	4586/20	1.0	0.989–	0.19492	0.33877
			4269	51	1.099	1734	7559	0579	22	1.055	4016	1685
Lipoprotein subclasses	M_LDL_CE	Cholesteryl Esters in Medium LDL	2505/26	1.0	1.010–	0.01486	0.03221	4585/20	0.9	0.956–	0.30589	0.46451
			4339	51	1.094	7866	371	0591	85	1.014	4939	7918
Lipoprotein subclasses	M_VLDL_CE	Cholesteryl Esters in Medium VLDL	2509/26	1.0	0.972–	0.54158	0.56778	4596/20	0.9	0.933–	0.00547	0.02468
			4811	13	1.055	2995	8624	0903	60	0.988	0738	4681
Lipoprotein subclasses	S_HDL_CE	Cholesteryl Esters in Small HDL	2497/26	1.0	0.987–	0.18308	0.22539	4569/20	1.0	0.980–	0.53076	0.70407
			3646	27	1.069	6354	0398	0067	09	1.040	1729	1681
Lipoprotein subclasses	S_LDL_CE	Cholesteryl Esters in Small LDL	2507/26	1.0	1.010–	0.01528	0.03225	4589/20	0.9	0.957–	0.32101	0.47857
			4477	51	1.094	293	2936	0670	85	1.015	5394	7995
Lipoprotein subclasses	S_VLDL_CE	Cholesteryl Esters in Small VLDL	2514/26	1.0	1.000–	0.05223	0.07751	4604/20	0.9	0.949–	0.14077	0.26913
			5045	41	1.084	0171	0528	1057	78	1.007	9188	6682
Lipoprotein subclasses	XL_HDL_CE	Cholesteryl Esters in Very Large HDL	2529/26	1.0	1.006–	0.02827	0.04888	4617/20	1.0	0.966–	0.98581	0.99499
			5986	56	1.109	8227	5233	1862	00	1.035	4549	9156
Lipoprotein subclasses	XL_VLDL_CE	Cholesteryl Esters in Very Large VLDL	2528/26	1.0	1.000–	0.05169	0.07745	4618/20	0.9	0.965–	0.76490	0.86018
			5907	42	1.086	3878	5828	1767	95	1.026	5693	8063
Lipoprotein subclasses	XS_VLDL_CE	Cholesteryl Esters in Very Small VLDL	2520/26	1.0	1.000–	0.04812	0.07412	4604/20	0.9	0.928–	0.00290	0.01431
			5272	43	1.088	3747	4255	1292	56	0.985	7857	8991

Lipoprotein subclasses	XXL_VLDL_P	Concentration of Chylomicrons and Extremely Large VLDL Particles	2522/26	1.0	1.030–	0.00047	0.00339	4612/20	1.0	1.001–	0.04428	0.11993
			5566	70	1.111	037	7117	1533	31	1.062	4671	7652
Lipoprotein subclasses	IDL_P	Concentration of IDL Particles	2507/26	1.0	0.989–	0.15513	0.19391	4598/20	0.9	0.931–	0.00408	0.01926
			4706	30	1.073	4953	8692	0868	59	0.987	9248	0951
Lipoprotein subclasses	L_HDL_P	Concentration of Large HDL Particles	2525/26	1.0	1.020–	0.00564	0.01637	4608/20	1.0	0.975–	0.58029	0.72097
			5664	71	1.124	2494	3307	1599	10	1.046	184	9854
Lipoprotein subclasses	L_LDL_P	Concentration of Large LDL Particles	2507/26	1.0	1.000–	0.04977	0.07595	4594/20	0.9	0.950–	0.12612	0.24843
			4578	41	1.083	8489	3094	0742	78	1.006	9573	7037
Lipoprotein subclasses	L_VLDL_P	Concentration of Large VLDL Particles	2529/26	1.0	1.020–	0.00336	0.01164	4614/20	1.0	0.988–	0.22379	0.37299
			5899	62	1.106	9152	8663	1738	19	1.051	6554	4256
Lipoprotein subclasses	M_HDL_P	Concentration of Medium HDL Particles	2505/26	1.0	1.024–	0.00241	0.00982	4584/20	1.0	0.993–	0.12905	0.25087
			4183	70	1.117	5899	4276	0509	25	1.059	3494	1663
Lipoprotein subclasses	M_LDL_P	Concentration of Medium LDL Particles	2507/26	1.0	1.009–	0.01741	0.03429	4598/20	0.9	0.952–	0.18653	0.32769
			4863	49	1.092	2868	8073	0894	81	1.010	4113	5063
Lipoprotein subclasses	M_VLDL_P	Concentration of Medium VLDL Particles	2520/26	1.0	1.010–	0.01516	0.03225	4602/20	0.9	0.961–	0.51989	0.69533
			5084	51	1.094	5197	2936	1100	90	1.020	5184	3065
Lipoprotein subclasses	S_HDL_P	Concentration of Small HDL Particles	2496/26	1.0	1.012–	0.01045	0.02479	4566/19	1.0	0.984–	0.36642	0.52774
			3410	53	1.096	2211	5391	9906	14	1.044	1843	9067
Lipoprotein subclasses	S_LDL_P	Concentration of Small LDL Particles	2505/26	1.0	1.018–	0.00476	0.01435	4603/20	0.9	0.957–	0.30872	0.46451
			4844	59	1.102	1509	9865	0929	85	1.014	5755	7918
Lipoprotein subclasses	S_VLDL_P	Concentration of Small VLDL Particles	2515/26	1.0	1.021–	0.00299	0.01104	4599/20	1.0	0.973–	0.84772	0.89162
			5056	63	1.106	0472	4355	1108	03	1.034	876	41
Lipoprotein subclasses	XL_HDL_P	Concentration of Very Large HDL Particles	2529/26	1.0	1.025–	0.00287	0.01075	4618/20	1.0	0.970–	0.85413	0.89546
			6001	74	1.126	9726	7599	1843	03	1.038	3829	2885
Lipoprotein subclasses	XL_VLDL_P	Concentration of Very Large VLDL Particles	2524/26	1.0	1.026–	0.00123	0.00655	4612/20	1.0	0.995–	0.09978	0.20922
			5764	68	1.112	058	6371	1644	26	1.058	2658	1703
Lipoprotein subclasses	XS_VLDL_P	Concentration of Very Small VLDL Particles	2515/26	1.0	1.025–	0.00161	0.00771	4604/20	0.9	0.948–	0.11804	0.23976
			5109	67	1.110	3817	3096	1082	77	1.006	0265	9288
Lipoprotein subclasses	XXL_VLDL_FC	Free Cholesterol in Chylomicrons and Extremely Large VLDL	2527/26	1.0	1.023–	0.00175	0.00826	4618/20	1.0	1.000–	0.04698	0.12042
			5916	64	1.106	5219	7337	1778	31	1.063	0384	8636
Lipoprotein subclasses	IDL_FC	Free Cholesterol in IDL	2505/26	1.0	0.995–	0.08494	0.11798	4593/20	0.9	0.935–	0.00977	0.03874
			4505	38	1.083	769	2903	0679	62	0.991	5184	3107

Lipoprotein subclasses	L_HDL_FC	Free Cholesterol in Large HDL	2525/26	1.0	1.022–	0.00445	0.01365	4610/20	1.0	0.975–	0.59789	0.73233
			5743	73	1.126	3568	4806	1699	09	1.045	0419	7662
Lipoprotein subclasses	L_LDL_FC	Free Cholesterol in Large LDL	2503/26	1.0	0.989–	0.14674	0.18630	4585/20	0.9	0.937–	0.01366	0.05047
			4210	31	1.075	8157	1372	0507	64	0.993	5891	0619
Lipoprotein subclasses	L_VLDL_FC	Free Cholesterol in Large VLDL	2528/26	1.0	1.015–	0.00821	0.02052	4616/20	1.0	0.982–	0.40097	0.56413
			5949	57	1.102	0956	7391	1784	13	1.045	0247	5628
Lipoprotein subclasses	M_HDL_FC	Free Cholesterol in Medium HDL	2505/26	1.0	1.032–	0.00084	0.00501	4585/20	1.0	0.992–	0.14329	0.27003
			4241	79	1.128	1301	9777	0541	25	1.059	3276	6037
Lipoprotein subclasses	M_LDL_FC	Free Cholesterol in Medium LDL	2504/26	1.0	0.989–	0.15145	0.19078	4584/20	0.9	0.943–	0.04705	0.12042
			4222	30	1.072	0686	0903	0503	71	1.000	9805	8636
Lipoprotein subclasses	M_VLDL_FC	Free Cholesterol in Medium VLDL	2510/26	1.0	1.006–	0.02449	0.04398	4598/20	0.9	0.953–	0.20219	0.34586
			4912	47	1.090	4141	1193	0979	81	1.010	841	5701
Lipoprotein subclasses	S_HDL_FC	Free Cholesterol in Small HDL	2502/26	1.0	1.044–	4.16793	0.00042	4576/20	1.0	0.989–	0.22605	0.37483
			3804	87	1.131	E-05	3305	0216	19	1.050	6359	8351
Lipoprotein subclasses	S_LDL_FC	Free Cholesterol in Small LDL	2510/26	1.0	0.983–	0.25660	0.30033	4599/20	0.9	0.943–	0.04298	0.11738
			4871	23	1.065	4901	1254	0999	71	0.999	0556	3871
Lipoprotein subclasses	S_VLDL_FC	Free Cholesterol in Small VLDL	2511/26	1.0	1.005–	0.02847	0.04896	4593/20	0.9	0.949–	0.12449	0.24843
			4600	46	1.089	5747	6231	0777	77	1.006	8003	7037
Lipoprotein subclasses	XL_HDL_FC	Free Cholesterol in Very Large HDL	2527/26	1.0	1.000–	0.05171	0.07745	4617/20	0.9	0.964–	0.80080	0.88049
			5889	47	1.097	6661	5828	1737	96	1.029	2988	2566
Lipoprotein subclasses	XL_VLDL_FC	Free Cholesterol in Very Large VLDL	2525/26	1.0	1.019–	0.00419	0.01310	4615/20	1.0	0.986–	0.28493	0.44953
			5854	61	1.105	4588	8087	1724	17	1.049	7361	7098
Lipoprotein subclasses	XS_VLDL_FC	Free Cholesterol in Very Small VLDL	2521/26	1.0	1.022–	0.00258	0.01000	4608/20	0.9	0.948–	0.10646	0.22180
			5307	64	1.108	7137	9758	1236	76	1.005	6271	4732
Lipoprotein subclasses	XXL_VLDL_PL	Phospholipids in Chylomicrons and Extremely Large VLDL	2527/26	1.0	1.024–	0.00155	0.00767	4615/20	1.0	1.001–	0.04126	0.11463
			5819	65	1.107	9194	7851	1711	32	1.063	8235	3987
Lipoprotein subclasses	IDL_PL	Phospholipids in IDL	2503/26	1.0	1.009–	0.01725	0.03418	4585/20	0.9	0.938–	0.02306	0.07726
			4211	53	1.098	0423	5289	0507	66	0.995	052	4629
Lipoprotein subclasses	L_HDL_PL	Phospholipids in Large HDL	2515/26	1.0	1.018–	0.00732	0.01936	4603/20	1.0	0.981–	0.36654	0.52774
			5327	68	1.121	9023	5306	1371	16	1.052	9593	9067
Lipoprotein subclasses	L_LDL_PL	Phospholipids in Large LDL	2503/26	1.0	0.998–	0.06533	0.09395	4580/20	0.9	0.942–	0.03348	0.10066
			4008	39	1.082	6821	7818	0359	69	0.998	141	5549

Lipoprotein subclasses	L_VLDL_PL	Phospholipids in Large VLDL	2529/26	1.0	1.014-	0.00844	0.02078	4616/20	1.0	0.985-	0.31237	0.46784
			5993	57	1.102	163	4317	1826	16	1.048	3225	0083
Lipoprotein subclasses	M_HDL_PL	Phospholipids in Medium HDL	2506/26	1.0	1.031-	0.00074	0.00484	4580/20	1.0	0.996-	0.08662	0.19177
			4120	74	1.120	5215	3897	0456	28	1.061	1322	1496
Lipoprotein subclasses	M_LDL_PL	Phospholipids in Medium LDL	2504/26	1.0	1.006-	0.02476	0.04421	4577/20	0.9	0.954-	0.23611	0.38953
			4018	47	1.090	1618	7175	0336	82	1.012	6807	2803
Lipoprotein subclasses	M_VLDL_PL	Phospholipids in Medium VLDL	2510/26	1.0	1.009-	0.01635	0.03287	4603/20	0.9	0.958-	0.35729	0.52306
			5020	51	1.094	6401	6908	1098	86	1.016	397	5497
Lipoprotein subclasses	S_HDL_PL	Phospholipids in Small HDL	2501/26	1.0	1.028-	0.00095	0.00533	4573/20	1.0	0.996-	0.08393	0.18944
			3613	69	1.112	2951	0656	0069	27	1.058	7757	2855
Lipoprotein subclasses	S_LDL_PL	Phospholipids in Small LDL	2512/26	1.0	1.024-	0.00186	0.00831	4607/20	0.9	0.961-	0.46247	0.64232
			5228	65	1.108	8495	8642	1243	89	1.018	2768	3289
Lipoprotein subclasses	S_VLDL_PL	Phospholipids in Small VLDL	2507/26	1.0	1.013-	0.00963	0.02335	4592/20	0.9	0.958-	0.38427	0.54536
			4610	55	1.098	0906	8541	0823	87	1.017	3654	654
Lipoprotein subclasses	XL_HDL_PL	Phospholipids in Very Large HDL	2529/26	1.0	1.006-	0.02612	0.04613	4619/20	1.0	0.969-	0.84453	0.89162
			6106	56	1.107	1441	8416	1903	03	1.039	0005	41
Lipoprotein subclasses	XL_VLDL_PL	Phospholipids in Very Large VLDL	2525/26	1.0	1.021-	0.00317	0.01123	4614/20	1.0	0.989-	0.20118	0.34586
			5811	63	1.107	9051	0342	1687	20	1.052	8594	5701
Lipoprotein subclasses	XS_VLDL_PL	Phospholipids in Very Small VLDL	2519/26	1.0	1.028-	0.00084	0.00501	4609/20	0.9	0.957-	0.35906	0.52330
			5270	70	1.113	241	9777	1212	86	1.016	7158	4154
Lipoprotein subclasses	XXL_VLDL_L	Total Lipids in Chylomicrons and Extremely Large VLDL	2519/26	1.0	1.025-	0.00152	0.00767	4605/20	1.0	1.002-	0.03788	0.10992
			5073	67	1.110	9051	7851	1154	32	1.064	0234	0322
Lipoprotein subclasses	IDL_L	Total Lipids in IDL	2499/26	1.0	1.002-	0.03850	0.06163	4571/20	0.9	0.935-	0.00935	0.03753
			3648	46	1.091	0051	8012	0027	62	0.991	5943	9275
Lipoprotein subclasses	L_HDL_L	Total Lipids in Large HDL	2508/26	1.0	1.011-	0.01636	0.03287	4585/20	1.0	0.973-	0.65273	0.76584
			4565	62	1.115	737	6908	0749	08	1.044	5393	4775
Lipoprotein subclasses	L_LDL_L	Total Lipids in Large LDL	2501/26	1.0	1.009-	0.01782	0.03469	4568/20	0.9	0.943-	0.03966	0.11359
			3680	51	1.095	7202	3658	0097	70	0.999	9168	1546
Lipoprotein subclasses	L_VLDL_L	Total Lipids in Large VLDL	2521/26	1.0	1.015-	0.00780	0.02013	4606/20	1.0	0.988-	0.23774	0.39024
			5465	58	1.104	7514	8429	1431	19	1.051	8727	4122
Lipoprotein subclasses	M_HDL_L	Total Lipids in Medium HDL	2502/26	1.0	1.025-	0.00193	0.00850	4576/20	1.0	0.993-	0.12968	0.25087
			3745	70	1.117	6876	6549	0162	25	1.059	1352	1663

Lipoprotein subclasses	M_LDL_L	Total Lipids in Medium LDL	2502/26	1.0	1.011-	0.01199	0.02745	4570/20	0.9	0.953-	0.20891	0.35368
			3766	53	1.096	4065	1205	0144	81	1.011	2314	4961
Lipoprotein subclasses	M_VLDL_L	Total Lipids in Medium VLDL	2501/26	1.0	1.012-	0.01112	0.02621	4590/20	0.9	0.966-	0.74932	0.84559
			4390	54	1.098	9929	1789	0582	95	1.025	5811	3364
Lipoprotein subclasses	S_HDL_L	Total Lipids in Small HDL	2496/26	1.0	1.025-	0.00148	0.00766	4566/19	1.0	0.992-	0.15454	0.28217
			3444	67	1.110	1799	3734	9927	22	1.053	3304	1763
Lipoprotein subclasses	S_LDL_L	Total Lipids in Small LDL	2506/26	1.0	1.016-	0.00604	0.01722	4579/20	0.9	0.959-	0.36698	0.52774
			4198	58	1.101	2677	6931	0474	87	1.016	8582	9067
Lipoprotein subclasses	S_VLDL_L	Total Lipids in Small VLDL	2506/26	1.0	1.019-	0.00389	0.01254	4585/20	0.9	0.968-	0.89780	0.93822
			4351	62	1.106	8581	4939	0594	98	1.029	5637	1324
Lipoprotein subclasses	XL_HDL_L	Total Lipids in Very Large HDL	2511/26	1.0	1.007-	0.02601	0.04613	4592/20	0.9	0.965-	0.93015	0.95968
			4654	56	1.109	988	8416	0808	98	1.033	2944	1608
Lipoprotein subclasses	XL_VLDL_L	Total Lipids in Very Large VLDL	2524/26	1.0	1.021-	0.00311	0.01118	4609/20	1.0	0.993-	0.12458	0.24843
			5470	64	1.109	2198	5484	1430	25	1.057	398	7037
Lipoprotein subclasses	XS_VLDL_L	Total Lipids in Very Small VLDL	2512/26	1.0	1.027-	0.00119	0.00646	4589/20	0.9	0.950-	0.14813	0.27354
			4665	69	1.113	4028	765	0782	78	1.008	353	2029
Lipoprotein subclasses	XXL_VLDL_TG	Triglycerides in Chylomicrons and Extremely Large VLDL	2522/26	1.0	1.029-	0.00062	0.00421	4611/20	1.0	1.002-	0.03376	0.10066
			5537	70	1.113	2799	687	1471	33	1.064	1676	5549
Lipoprotein subclasses	IDL_TG	Triglycerides in IDL	2506/26	1.0	1.047-	1.33841	0.00020	4582/20	1.0	0.986-	0.28204	0.44934
			4403	87	1.129	E-05	7136	0596	17	1.048	8676	2254
Lipoprotein subclasses	L_HDL_TG	Triglycerides in Large HDL	2514/26	1.0	1.027-	0.00087	0.00501	4593/20	1.0	0.974-	0.77245	0.86568
			4867	68	1.110	5747	9777	0928	05	1.036	8557	6314
Lipoprotein subclasses	L_LDL_TG	Triglycerides in Large LDL	2503/26	1.0	1.056-	1.2733E	3.18325	4575/20	1.0	0.994-	0.11612	0.23887
			4119	97	1.138	-06	E-05	0444	24	1.056	8966	2874
Lipoprotein subclasses	L_VLDL_TG	Triglycerides in Large VLDL	2527/26	1.0	1.020-	0.00372	0.01210	4613/20	1.0	0.996-	0.08796	0.19177
			5907	63	1.107	4266	3864	1753	27	1.059	205	1496
Lipoprotein subclasses	M_HDL_TG	Triglycerides in Medium HDL	2516/26	1.0	1.022-	0.00235	0.00981	4593/20	1.0	0.984-	0.35725	0.52306
			4839	62	1.103	5168	32	0850	14	1.045	1076	5497
Lipoprotein subclasses	M_LDL_TG	Triglycerides in Medium LDL	2504/26	1.0	1.055-	1.79345	3.60976	4579/20	1.0	1.002-	0.03756	0.10992
			4145	95	1.136	E-06	E-05	0481	32	1.063	5632	0322
Lipoprotein subclasses	M_VLDL_TG	Triglycerides in Medium VLDL	2529/26	1.0	1.016-	0.00680	0.01843	4616/20	1.0	0.986-	0.29007	0.45508
			5954	58	1.102	7522	7038	1806	17	1.048	8298	4503

Lipoprotein subclasses	S_HDL_TG	Triglycerides in Small HDL	2523/26	1.0	1.022-	0.00270	0.01020	4606/20	1.0	0.990-	0.18554	0.32769
			5479	65	1.109	0701	9567	1394	21	1.053	6849	5063
Lipoprotein subclasses	S_LDL_TG	Triglycerides in Small LDL	2523/26	1.0	1.045-	1.83526	0.00024	4601/20	1.0	1.001-	0.04027	0.11382
			5240	85	1.127	E-05	8525	1219	32	1.063	8263	9875
Lipoprotein subclasses	S_VLDL_TG	Triglycerides in Small VLDL	2528/26	1.0	1.024-	0.00181	0.00829	4607/20	1.0	0.992-	0.14374	0.27003
			5679	66	1.110	2408	6235	1556	23	1.055	226	6037
Lipoprotein subclasses	XL_HDL_TG	Triglycerides in Very Large HDL	2513/26	1.0	1.046-	1.30103	0.00020	4600/20	1.0	0.988-	0.26023	0.41869
			5044	85	1.125	E-05	7136	1078	17	1.047	3905	3164
Lipoprotein subclasses	XL_VLDL_TG	Triglycerides in Very Large VLDL	2529/26	1.0	1.026-	0.00148	0.00766	4614/20	1.0	1.001-	0.04531	0.12042
			5870	68	1.113	5585	3734	1707	32	1.064	7153	8636
Lipoprotein subclasses	XS_VLDL_TG	Triglycerides in Very Small VLDL	2515/26	1.0	1.041-	5.87185	0.00053	4593/20	1.0	0.991-	0.17178	0.30846
			4915	82	1.124	E-05	0097	0953	21	1.053	9412	1651
Other lipids	Phosphatidylc	Phosphatidylcholines	2503/26	1.0	1.046-	5.3158E	0.00050	4570/20	0.9	0.964-	0.73578	0.83321
			3680	91	1.138	-05	8128	0117	95	1.026	8636	0128
Other lipids	Phosphoglyc	Phosphoglycerides	2501/26	1.0	1.054-	9.04589	0.00015	4570/20	1.0	0.975-	0.72755	0.82676
			3513	99	1.145	E-06	4732	0020	06	1.037	5154	722
Other lipids	Sphingomyelins	Sphingomyelins	2498/26	1.0	1.048-	4.74908	0.00046	4563/19	1.0	0.971-	0.94216	0.96594
			3363	95	1.144	E-05	7712	9900	01	1.033	3848	0854
Other lipids	Cholines	Total Cholines	2500/26	1.0	1.050-	2.77661	0.00032	4568/19	1.0	0.969-	0.99541	0.99758
			3434	95	1.143	E-05	2285	9950	00	1.032	6889	1859
Other lipids	TG_by_PG	Triglycerides to Phosphoglycerides ratio	2487/26	1.0	1.006-	0.02744	0.04794	4543/19	1.0	1.000-	0.05097	0.12843
			2235	51	1.099	1547	894	9072	33	1.067	9443	6582
Phospholipids	HDL_PL	Phospholipids in HDL	2497/26	1.0	1.038-	0.00032	0.00257	4569/19	1.0	0.990-	0.17767	0.31728
			3418	85	1.134	4343	101	9942	23	1.058	8205	2509
Phospholipids	LDL_PL	Phospholipids in LDL	2503/26	1.0	1.005-	0.02940	0.04926	4574/20	0.9	0.947-	0.07707	0.18020
			3846	46	1.089	4547	0195	0209	74	1.003	2158	4685
Phospholipids	VLDL_PL	Phospholipids in VLDL	2501/26	1.0	1.024-	0.00204	0.00885	4581/20	1.0	0.974-	0.80669	0.88049
			3865	66	1.111	343	4862	0274	04	1.035	4811	2566
Phospholipids	Total_PL	Total Phospholipids in Lipoprotein Particles	2495/26	1.1	1.058-	4.80585	8.67723	4557/19	1.0	0.971-	0.93413	0.96074
			2782	03	1.150	E-06	E-05	9479	01	1.032	6451	1603
Relative cholesterol concentrations	HDL_CE_pct_C	Cholesteryl Esters to Cholesterol in HDL percentage	2492/26	0.9	0.900-	1.69964	0.00024	4562/19	0.9	0.965-	0.63869	0.75763
			3163	30	0.961	E-05	0166	9714	93	1.022	531	2553

Relative cholesterol concentrations	LDL_CE_pct_C	Cholesteryl Esters to Cholesterol in LDL percentage	2503/26	1.0	1.016-	0.00627	0.01744	4577/20	1.0	1.014-	0.00367	0.01756
			3942	58	1.102	9951	4309	0270	45	1.077	434	1184
Relative cholesterol concentrations	VLDL_CE_pct_C	Cholesteryl Esters to Cholesterol in VLDL percentage	2490/26	0.9	0.890-	0.00086	0.00501	4572/19	0.9	0.906-	4.82043	0.00016
			3340	29	0.970	933	9777	9837	33	0.961	E-06	7985
Relative cholesterol concentrations	HDL_FC_pct_C	Free Cholesterol to Cholesterol in HDL percentage	2492/26	1.0	1.042-	3.64142	0.00040	4562/19	1.0	0.978-	0.64903	0.76584
			3163	82	1.123	E-05	809	9714	07	1.037	7794	4775
Relative cholesterol concentrations	LDL_FC_pct_C	Free Cholesterol to Cholesterol in LDL percentage	2503/26	0.9	0.930-	0.01441	0.03165	4577/20	0.9	0.941-	0.00903	0.03669
			3942	60	0.992	7098	9167	0270	66	0.991	1752	1493
Relative cholesterol concentrations	VLDL_FC_pct_C	Free Cholesterol to Cholesterol in VLDL percentage	2490/26	1.0	1.026-	0.00185	0.00831	4572/19	1.0	1.042-	5.16878	0.00016
			3340	73	1.121	9408	8642	9837	74	1.108	E-06	7985
Relative cholesterol concentrations	Total_CE_pct_C	Total Esterified Cholesterol to Total Cholesterol percentage	2477/26	0.9	0.908-	0.01236	0.02791	4550/19	1.0	0.977-	0.63264	0.75763
			2125	48	0.988	7495	2748	8977	07	1.039	4988	2553
Relative cholesterol concentrations	Total_FC_pct_C	Total Free Cholesterol to Total Cholesterol percentage	2477/26	1.0	1.010-	0.01511	0.03225	4550/19	0.9	0.961-	0.56944	0.71985
			2125	54	1.100	2757	2936	8977	91	1.022	2633	0561
Relative lipid concentrations	HDL_C_pct	Cholesterol to Total Lipids in HDL percentage	2486/26	0.9	0.915-	0.03600	0.05822	4558/19	0.9	0.950-	0.21003	0.35368
			2848	55	0.997	7246	0671	9491	80	1.011	4454	4961
Relative lipid concentrations	LDL_C_pct	Cholesterol to Total Lipids in LDL percentage	2501/26	0.9	0.964-	0.38420	0.42617	4564/20	0.9	0.970-	0.02842	0.08969
			3558	89	1.014	9315	0742	0004	84	0.998	6824	6288
Relative lipid concentrations	VLDL_C_pct	Cholesterol to Total Lipids in VLDL percentage	2483/26	0.9	0.910-	0.02315	0.04275	4559/19	0.9	0.909-	3.31103	0.00051
			2646	51	0.993	1653	1633	9321	37	0.966	E-05	2422
Relative lipid concentrations	HDL_CE_pct	Cholesteryl Esters to Total Lipids in HDL percentage	2486/26	0.9	0.906-	0.00599	0.01722	4558/19	0.9	0.952-	0.24677	0.39901
			2848	44	0.984	9291	6931	9491	82	1.013	6222	6279
Relative lipid concentrations	LDL_CE_pct	Cholesteryl Esters to Total Lipids in LDL percentage	2501/26	1.0	0.983-	0.17377	0.21473	4564/20	0.9	0.971-	0.82565	0.88853
			3558	40	1.099	3109	8633	0004	97	1.023	6925	8082
Relative lipid concentrations	VLDL_CE_pct	Cholesteryl Esters to Total Lipids in VLDL percentage	2483/26	0.9	0.905-	0.01151	0.02691	4559/19	0.9	0.908-	2.04319	0.00034
			2646	45	0.987	9986	6771	9321	36	0.965	E-05	9493
Relative lipid concentrations	HDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in HDL percentage	2492/26	1.0	1.040-	1.6737E	0.00024	4562/19	1.0	0.978-	0.63874	0.75763
			3163	75	1.111	-05	0166	9714	07	1.037	2521	2553
Relative lipid concentrations	LDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in LDL percentage	2503/26	0.9	0.907-	0.00627	0.01744	4577/20	0.9	0.929-	0.00367	0.01756
			3942	45	0.984	9045	4309	0270	57	0.986	1255	1184
Relative lipid concentrations	VLDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in VLDL percentage	2490/26	1.0	1.031-	0.00086	0.00501	4572/19	1.0	1.040-	4.82751	0.00016
			3340	76	1.124	521	9777	9837	72	1.104	E-06	7985

Relative lipid concentrations	HDL_FC_pct	Free Cholesterol to Total Lipids in HDL percentage	2486/26	1.0	1.015-	0.00929	0.02270	4558/19	0.9	0.955-	0.35379	0.52264
			2848	62	1.111	2179	6453	9491	85	1.017	3316	9217
Relative lipid concentrations	LDL_FC_pct	Free Cholesterol to Total Lipids in LDL percentage	2501/26	0.9	0.925-	0.01340	0.02963	4564/20	0.9	0.936-	0.00219	0.01099
			3558	58	0.991	3154	2824	0004	60	0.986	9034	5172
Relative lipid concentrations	VLDL_FC_pct	Free Cholesterol to Total Lipids in VLDL percentage	2483/26	0.9	0.925-	0.11331	0.15030	4559/19	0.9	0.915-	0.00016	0.00131
			2646	66	1.008	0035	923	9321	43	0.972	9323	0237
Relative lipid concentrations	HDL_PL_pct	Phospholipids to Total Lipids in HDL percentage	2486/26	1.0	0.989-	0.14553	0.18548	4558/19	1.0	1.001-	0.04528	0.12042
			2848	33	1.078	8121	9762	9491	32	1.065	0933	8636
Relative lipid concentrations	LDL_PL_pct	Phospholipids to Total Lipids in LDL percentage	2501/26	0.9	0.893-	0.00041	0.00312	4564/20	0.9	0.962-	0.55404	0.71171
			3558	30	0.968	3478	5124	0004	91	1.021	4043	7575
Relative lipid concentrations	VLDL_PL_pct	Phospholipids to Total Lipids in VLDL percentage	2483/26	0.9	0.925-	0.10170	0.13772	4559/19	0.9	0.917-	0.00030	0.00217
			2646	65	1.007	4611	4995	9321	45	0.975	855	9973
Relative lipid concentrations	Total_C_pct	Total Cholesterol to Total Lipids percentage	2469/26	0.9	0.907-	0.00774	0.02013	4532/19	0.9	0.921-	0.00041	0.00283
			1243	46	0.985	8797	8429	8325	49	0.977	8117	1002
Relative lipid concentrations	Total_CE_pct	Total Esterified Cholesterol to Total Lipids percentage	2469/26	0.9	0.903-	0.00416	0.01310	4532/19	0.9	0.924-	0.00101	0.00568
			1243	41	0.981	4435	8087	8325	51	0.980	4509	4747
Relative lipid concentrations	Total_FC_by_CE	Total Free Cholesterol to Total Esterified Cholesterol ratio	2477/26	1.0	1.012-	0.01235	0.02791	4550/19	0.9	0.963-	0.63289	0.75763
			2125	55	1.101	7396	2748	8977	93	1.023	7073	2553
Relative lipid concentrations	Total_FC_pct	Total Free Cholesterol to Total Lipids percentage	2469/26	0.9	0.925-	0.07180	0.10173	4532/19	0.9	0.919-	9.77163	0.00095
			1243	63	1.003	8325	2542	8325	45	0.972	E-05	733
Relative lipid concentrations	Total_PL_pct	Total Phospholipids to Total Lipids percentage	2469/26	0.9	0.935-	0.27199	0.31236	4532/19	1.0	0.985-	0.30306	0.46269
			1243	76	1.019	5056	1814	8325	17	1.049	662	3561
Relative lipid concentrations	Total_TG_pct	Total Triglycerides to Total Lipids percentage	2469/26	1.0	0.997-	0.06525	0.09395	4532/19	1.0	1.008-	0.01529	0.05462
			1243	43	1.092	5599	7818	8325	42	1.077	4547	3383
Relative lipid concentrations	HDL_TG_pct	Triglycerides to Total Lipids in HDL percentage	2486/26	1.0	0.988-	0.15316	0.19219	4558/19	1.0	0.975-	0.67809	0.78990
			2848	32	1.078	7066	8056	9491	07	1.040	8826	0066
Relative lipid concentrations	LDL_TG_pct	Triglycerides to Total Lipids in LDL percentage	2501/26	1.0	1.020-	0.00341	0.01166	4564/20	1.0	1.029-	0.00010	0.00095
			3558	61	1.103	2423	1387	0004	60	1.091	3097	733
Relative lipid concentrations	VLDL_TG_pct	Triglycerides to Total Lipids in VLDL percentage	2483/26	1.0	0.988-	0.14761	0.18666	4559/19	1.0	1.028-	0.00027	0.00199
			2646	33	1.080	1573	8332	9321	62	1.097	4645	4617
Relative lipoprotein cholesterol concentrations	XXL_VLDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Chylomicrons and Extremely Large VLDL percentage	2524/26	0.9	0.933-	0.14408	0.18435	4615/20	0.9	0.936-	0.01037	0.04062
			5601	71	1.010	374	9116	1563	63	0.991	5598	7341

Relative lipoprotein cholesterol concentrations	IDL_CE_pct_C	Cholesteryl Esters to Cholesterol in IDL percentage	2501/26	0.9	0.945-	0.39626	0.43528	4582/20	0.9	0.967-	0.71625	0.81677
			3971	83	1.023	6207	3314	0304	95	1.023	0626	703
Relative lipoprotein cholesterol concentrations	L_HDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Large HDL percentage	2525/26	0.9	0.951-	0.00772	0.02013	4609/20	0.9	0.968-	0.57588	0.71985
			5711	71	0.992	0123	8429	1643	93	1.018	0449	0561
Relative lipoprotein cholesterol concentrations	L_LDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Large LDL percentage	2503/26	1.0	1.022-	0.00370	0.01210	4578/20	1.0	1.024-	0.00072	0.00438
			3983	70	1.120	5325	3864	0318	57	1.092	0145	2779
Relative lipoprotein cholesterol concentrations	L_VLDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Large VLDL percentage	2523/26	0.9	0.906-	0.01638	0.03287	4611/20	0.9	0.904-	2.98773	0.00013
			5670	47	0.990	7874	6908	1571	31	0.960	E-06	8716
Relative lipoprotein cholesterol concentrations	M_HDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Medium HDL percentage	2503/26	0.9	0.977-	0.00088	0.00501	4583/20	0.9	0.959-	0.58310	0.72097
			4079	86	0.994	0392	9777	0433	91	1.024	6927	9854
Relative lipoprotein cholesterol concentrations	M_LDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Medium LDL percentage	2503/26	1.0	1.010-	0.01545	0.03227	4578/20	1.0	1.004-	0.02630	0.08466
			4025	55	1.102	6616	2531	0344	38	1.073	9578	1692
Relative lipoprotein cholesterol concentrations	M_VLDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Medium VLDL percentage	2506/26	0.9	0.935-	0.09561	0.13111	4592/20	0.9	0.948-	0.00833	0.03492
			4557	70	1.005	0634	1629	0670	70	0.992	4082	8227
Relative lipoprotein cholesterol concentrations	S_HDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Small HDL percentage	2496/26	0.9	0.961-	5.51687	0.00051	4567/19	0.9	0.957-	0.51105	0.68970
			3557	74	0.986	E-05	2281	9999	89	1.022	0867	5558
Relative lipoprotein cholesterol concentrations	S_LDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Small LDL percentage	2507/26	1.0	1.002-	0.03900	0.06184	4588/20	1.0	0.998-	0.06281	0.15236
			4422	42	1.084	9656	4576	0640	29	1.060	8103	1942
Relative lipoprotein cholesterol concentrations	S_VLDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Small VLDL percentage	2508/26	0.9	0.947-	0.62372	0.64811	4590/20	1.0	0.976-	0.59906	0.73233
			4500	89	1.033	6684	0722	0701	09	1.042	9596	7662
Relative lipoprotein cholesterol concentrations	XL_HDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Very Large HDL percentage	2527/26	0.9	0.957-	0.77712	0.79174	4613/20	0.9	0.972-	0.79087	0.87725
			5733	94	1.034	4009	0761	1661	97	1.022	5127	0567
Relative lipoprotein cholesterol concentrations	XL_VLDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Very Large VLDL percentage	2524/26	0.9	0.907-	0.00827	0.02053	4612/20	0.9	0.921-	0.00072	0.00438
			5611	46	0.986	7987	6992	1551	49	0.978	3697	2779
Relative lipoprotein cholesterol concentrations	XS_VLDL_CE_pct_C	Cholesteryl Esters to Cholesterol in Very Small VLDL percentage	2518/26	0.9	0.899-	0.00212	0.00895	4602/20	0.9	0.914-	1.98289	0.00034
			5128	37	0.977	0504	0178	1167	41	0.967	E-05	9493
Relative lipoprotein cholesterol concentrations	XXL_VLDL_FC_pct_C	Free Cholesterol to Cholesterol in Chylomicrons and Extremely Large VLDL percentage	2524/26	1.0	0.976-	0.44143	0.48028	4615/20	1.0	1.009-	0.01239	0.04683
			5601	16	1.056	1241	5884	1563	43	1.079	2778	3171
Relative lipoprotein cholesterol concentrations	IDL_FC_pct_C	Free Cholesterol to Cholesterol in IDL percentage	2501/26	1.0	0.980-	0.34259	0.38393	4582/20	1.0	0.975-	0.80734	0.88049
			3971	19	1.061	1691	8964	0304	04	1.032	3953	2566
Relative lipoprotein cholesterol concentrations	L_HDL_FC_pct_C	Free Cholesterol to Cholesterol in Large HDL percentage	2525/26	1.0	1.017-	0.00554	0.01636	4609/20	1.0	0.982-	0.50210	0.68278
			5711	58	1.101	0887	6136	1643	10	1.038	7844	2634

Relative lipoprotein cholesterol concentrations	L_LDL_FC_pct_C	Free Cholesterol to Cholesterol in Large LDL percentage	2503/26	0.9	0.935-	0.00704	0.01891	4578/20	0.9	0.938-	0.00131	0.00711
			3983	62	0.989	1809	3949	0318	61	0.985	4076	791
Relative lipoprotein cholesterol concentrations	L_VLDL_FC_pct_C	Free Cholesterol to Cholesterol in Large VLDL percentage	2523/26	1.0	0.999-	0.05485	0.08038	4611/20	1.0	1.036-	6.09023	0.00071
			5670	46	1.096	3353	0948	1571	72	1.110	E-05	3139
Relative lipoprotein cholesterol concentrations	M_HDL_FC_pct_C	Free Cholesterol to Cholesterol in Medium HDL percentage	2503/26	1.1	1.058-	1.78801	3.60976	4583/20	1.0	0.979-	0.54535	0.70896
			4079	00	1.143	E-06	E-05	0433	09	1.041	5111	1645
Relative lipoprotein cholesterol concentrations	M_LDL_FC_pct_C	Free Cholesterol to Cholesterol in Medium LDL percentage	2503/26	0.9	0.926-	0.02876	0.04914	4578/20	0.9	0.944-	0.04576	0.12042
			4025	60	0.996	5089	7633	0344	71	0.999	3886	8636
Relative lipoprotein cholesterol concentrations	M_VLDL_FC_pct_C	Free Cholesterol to Cholesterol in Medium VLDL percentage	2506/26	1.0	1.018-	0.00543	0.01620	4592/20	1.0	1.032-	3.55041	0.00051
			4557	62	1.107	5082	552	0670	61	1.091	E-05	7593
Relative lipoprotein cholesterol concentrations	S_HDL_FC_pct_C	Free Cholesterol to Cholesterol in Small HDL percentage	2496/26	1.0	1.046-	1.9426E	0.00025	4567/19	1.0	0.981-	0.46633	0.64493
			3557	86	1.128	-05	2538	9999	11	1.043	5905	2634
Relative lipoprotein cholesterol concentrations	S_LDL_FC_pct_C	Free Cholesterol to Cholesterol in Small LDL percentage	2507/26	0.9	0.938-	0.11770	0.15541	4588/20	0.9	0.950-	0.09895	0.20882
			4422	72	1.007	8521	2865	0640	77	1.004	1666	6569
Relative lipoprotein cholesterol concentrations	S_VLDL_FC_pct_C	Free Cholesterol to Cholesterol in Small VLDL percentage	2508/26	1.0	0.965-	0.71172	0.73199	4590/20	0.9	0.959-	0.54801	0.70958
			4500	08	1.053	6407	7096	0701	90	1.022	7728	4708
Relative lipoprotein cholesterol concentrations	XL_HDL_FC_pct_C	Free Cholesterol to Cholesterol in Very Large HDL percentage	2527/26	0.9	0.937-	0.44426	0.48128	4613/20	1.0	0.970-	0.95873	0.97676
			5733	82	1.029	6424	8625	1661	01	1.033	2145	4724
Relative lipoprotein cholesterol concentrations	XL_VLDL_FC_pct_C	Free Cholesterol to Cholesterol in Very Large VLDL percentage	2524/26	1.0	0.997-	0.06745	0.09657	4612/20	1.0	1.015-	0.00515	0.02358
			5611	42	1.088	5503	7262	1551	52	1.090	2419	5016
Relative lipoprotein cholesterol concentrations	XS_VLDL_FC_pct_C	Free Cholesterol to Cholesterol in Very Small VLDL percentage	2518/26	1.0	1.020-	0.00442	0.01365	4602/20	1.0	1.039-	7.76956	0.00022
			5128	65	1.113	1008	4806	1167	70	1.102	E-06	3454
Relative lipoprotein lipid concentrations	XXL_VLDL_C_pct	Cholesterol to Total Lipids in Chylomicrons and Extremely Large VLDL percentage	2519/26	0.9	0.930-	0.13873	0.17821	4605/20	0.9	0.942-	0.09010	0.19177
			5073	69	1.010	1194	2008	1154	73	1.004	4633	1496
Relative lipoprotein lipid concentrations	IDL_C_pct	Cholesterol to Total Lipids in IDL percentage	2499/26	0.9	0.909-	0.00558	0.01636	4571/20	0.9	0.929-	0.00118	0.00654
			3648	45	0.984	9665	6136	0027	55	0.982	8195	5143
Relative lipoprotein lipid concentrations	L_HDL_C_pct	Cholesterol to Total Lipids in Large HDL percentage	2508/26	0.9	0.932-	0.07713	0.10805	4585/20	0.9	0.963-	0.37523	0.53683
			4565	67	1.004	6829	8058	0749	88	1.014	0635	513
Relative lipoprotein lipid concentrations	L_LDL_C_pct	Cholesterol to Total Lipids in Large LDL percentage	2501/26	0.9	0.963-	0.83920	0.85232	4568/20	0.9	0.971-	0.20168	0.34586
			3680	97	1.031	8019	0644	0097	88	1.006	93	5701
Relative lipoprotein lipid concentrations	L_VLDL_C_pct	Cholesterol to Total Lipids in Large VLDL percentage	2521/26	0.9	0.928-	0.09275	0.12773	4606/20	0.9	0.923-	0.00082	0.00486
			5465	66	1.006	4299	3674	1431	51	0.979	281	2059

Relative lipoprotein lipid concentrations	M_HDL_C_pct	Cholesterol to Total Lipids in Medium HDL percentage	2502/26	0.9	0.931–	0.07792	0.10869	4576/20	0.9	0.961–	0.57134	0.71985
			3745	67	1.004	3924	2169	0162	91	1.022	4845	0561
Relative lipoprotein lipid concentrations	M_LDL_C_pct	Cholesterol to Total Lipids in Medium LDL percentage	2502/26	0.9	0.964–	0.51838	0.54700	4570/20	0.9	0.969–	0.04783	0.12146
			3766	91	1.019	9855	2283	0144	84	1.000	766	281
Relative lipoprotein lipid concentrations	M_VLDL_C_pct	Cholesterol to Total Lipids in Medium VLDL percentage	2501/26	0.9	0.921–	0.07199	0.10173	4590/20	0.9	0.917–	4.88085	0.00061
			4390	61	1.004	5337	2542	0582	43	0.970	E-05	0106
Relative lipoprotein lipid concentrations	S_HDL_C_pct	Cholesterol to Total Lipids in Small HDL percentage	2496/26	0.9	0.916–	0.00270	0.01020	4566/19	0.9	0.941–	0.04278	0.11738
			3444	49	0.982	1608	9567	9927	70	0.999	3989	3871
Relative lipoprotein lipid concentrations	S_LDL_C_pct	Cholesterol to Total Lipids in Small LDL percentage	2506/26	0.9	0.961–	0.01006	0.02423	4579/20	0.9	0.965–	0.00015	0.00127
			4198	77	0.995	8912	9974	0474	77	0.989	6364	0455
Relative lipoprotein lipid concentrations	S_VLDL_C_pct	Cholesterol to Total Lipids in Small VLDL percentage	2506/26	0.9	0.927–	0.08641	0.11950	4585/20	0.9	0.912–	1.06323	0.00024
			4351	65	1.005	2426	6546	0594	38	0.965	E-05	6822
Relative lipoprotein lipid concentrations	XL_HDL_C_pct	Cholesterol to Total Lipids in Very Large HDL percentage	2511/26	0.9	0.940–	0.20617	0.25028	4592/20	0.9	0.964–	0.53944	0.70657
			4654	76	1.013	6384	372	0808	91	1.019	5951	9727
Relative lipoprotein lipid concentrations	XL_VLDL_C_pct	Cholesterol to Total Lipids in Very Large VLDL percentage	2524/26	0.9	0.919–	0.07137	0.10173	4609/20	0.9	0.923–	0.00493	0.02292
			5470	61	1.004	6479	2542	1430	54	0.986	7747	5254
Relative lipoprotein lipid concentrations	XS_VLDL_C_pct	Cholesterol to Total Lipids in Very Small VLDL percentage	2512/26	0.9	0.909–	0.01159	0.02691	4589/20	0.9	0.913–	1.98941	0.00034
			4665	48	0.988	4917	6771	0782	40	0.967	E-05	9493
Relative lipoprotein lipid concentrations	XXL_VLDL_CE_pct	Cholesteryl Esters to Total Lipids in Chylomicrons and Extremely Large VLDL percentage	2519/26	0.9	0.928–	0.09842	0.13384	4605/20	0.9	0.933–	0.02256	0.07637
			5073	67	1.006	8747	6623	1154	64	0.995	0071	5239
Relative lipoprotein lipid concentrations	IDL_CE_pct	Cholesteryl Esters to Total Lipids in IDL percentage	2499/26	0.9	0.907–	0.00477	0.01435	4571/20	0.9	0.930–	0.00206	0.01067
			3648	44	0.983	1894	9865	0027	57	0.984	8533	1002
Relative lipoprotein lipid concentrations	L_HDL_CE_pct	Cholesteryl Esters to Total Lipids in Large HDL percentage	2508/26	0.9	0.922–	0.01834	0.03549	4585/20	0.9	0.961–	0.33601	0.49865
			4565	57	0.993	8134	4902	0749	87	1.014	6838	5125
Relative lipoprotein lipid concentrations	L_LDL_CE_pct	Cholesteryl Esters to Total Lipids in Large LDL percentage	2501/26	1.0	0.976–	0.20715	0.25028	4568/20	1.0	0.972–	0.84122	0.89162
			3680	45	1.120	791	372	0097	03	1.035	1956	41
Relative lipoprotein lipid concentrations	L_VLDL_CE_pct	Cholesteryl Esters to Total Lipids in Large VLDL percentage	2521/26	0.9	0.918–	0.04231	0.06579	4606/20	0.9	0.912–	6.3567E	0.00071
			5465	57	0.998	4403	9909	1431	40	0.969	-05	3139
Relative lipoprotein lipid concentrations	M_HDL_CE_pct	Cholesteryl Esters to Total Lipids in Medium HDL percentage	2502/26	0.9	0.924–	0.00811	0.02045	4576/20	0.9	0.961–	0.52670	0.70155
			3745	55	0.988	7959	2222	0162	90	1.021	7173	6685
Relative lipoprotein lipid concentrations	M_LDL_CE_pct	Cholesteryl Esters to Total Lipids in Medium LDL percentage	2502/26	1.0	0.988–	0.13773	0.17763	4570/20	1.0	0.971–	0.84234	0.89162
			3766	37	1.088	5375	4908	0144	03	1.036	3472	41

Relative lipoprotein lipid concentrations	M_VLDL_CE_pct	Cholesteryl Esters to Total Lipids in Medium VLDL percentage	2501/26	0.9	0.917-	0.03487	0.05696	4590/20	0.9	0.922-	8.87187	0.00090
			4390	56	0.997	7408	0591	0582	47	0.973	E-05	1049
Relative lipoprotein lipid concentrations	S_HDL_CE_pct	Cholesteryl Esters to Total Lipids in Small HDL percentage	2496/26	0.9	0.910-	0.00019	0.00163	4566/19	0.9	0.945-	0.08651	0.19177
			3444	40	0.971	6389	6577	9927	74	1.004	2398	1496
Relative lipoprotein lipid concentrations	S_LDL_CE_pct	Cholesteryl Esters to Total Lipids in Small LDL percentage	2506/26	0.9	0.958-	0.86375	0.87180	4579/20	0.9	0.959-	0.13441	0.25849
			4198	97	1.037	9591	704	0474	82	1.006	868	7462
Relative lipoprotein lipid concentrations	S_VLDL_CE_pct	Cholesteryl Esters to Total Lipids in Small VLDL percentage	2506/26	0.9	0.925-	0.05757	0.08354	4585/20	0.9	0.913-	9.9613E	0.00024
			4351	62	1.001	9089	109	0594	39	0.965	-06	6822
Relative lipoprotein lipid concentrations	XL_HDL_CE_pct	Cholesteryl Esters to Total Lipids in Very Large HDL percentage	2511/26	0.9	0.948-	0.26962	0.31073	4592/20	0.9	0.968-	0.53403	0.70552
			4654	81	1.015	006	2338	0808	92	1.017	0987	8743
Relative lipoprotein lipid concentrations	XL_VLDL_CE_pct	Cholesteryl Esters to Total Lipids in Very Large VLDL percentage	2524/26	0.9	0.915-	0.04099	0.06435	4609/20	0.9	0.920-	0.00218	0.01099
			5470	56	0.998	135	84	1430	50	0.982	7466	5172
Relative lipoprotein lipid concentrations	XS_VLDL_CE_pct	Cholesteryl Esters to Total Lipids in Very Small VLDL percentage	2512/26	0.9	0.905-	0.00638	0.01758	4589/20	0.9	0.913-	1.61402	0.00034
			4665	43	0.984	3094	0555	0782	39	0.966	E-05	9493
Relative lipoprotein lipid concentrations	XXL_VLDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Chylomicrons and Extremely Large VLDL ratio	2524/26	1.0	0.990-	0.13722	0.17763	4615/20	1.0	1.010-	0.00841	0.03492
			5601	30	1.072	202	4908	1563	38	1.068	3304	8227
Relative lipoprotein lipid concentrations	IDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in IDL percentage	2501/26	1.0	0.978-	0.39644	0.43528	4582/20	1.0	0.977-	0.71587	0.81677
			3971	17	1.059	2649	3314	0304	05	1.034	2493	703
Relative lipoprotein lipid concentrations	L_HDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Large HDL ratio	2525/26	1.0	1.003-	0.02029	0.03835	4609/20	1.0	0.982-	0.63152	0.75763
			5711	21	1.040	9522	6655	1643	06	1.031	7494	2553
Relative lipoprotein lipid concentrations	L_LDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Large LDL ratio	2503/26	0.9	0.896-	0.00370	0.01210	4578/20	0.9	0.918-	0.00071	0.00438
			3982	37	0.979	8445	3864	0318	47	0.978	9565	2779
Relative lipoprotein lipid concentrations	L_VLDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Large VLDL ratio	2523/26	1.0	1.010-	0.01612	0.03287	4611/20	1.0	1.042-	2.11901	0.00011
			5670	56	1.104	1878	6908	1571	72	1.103	E-06	478
Relative lipoprotein lipid concentrations	M_HDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Medium HDL ratio	2503/26	1.0	1.000-	0.03789	0.06096	4583/20	1.0	0.971-	0.58343	0.72097
			4079	08	1.015	0238	2017	0433	11	1.053	9082	9854
Relative lipoprotein lipid concentrations	M_LDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Medium LDL ratio	2503/26	0.9	0.896-	0.01549	0.03227	4578/20	0.9	0.924-	0.02631	0.08466
			4025	41	0.989	0815	2531	0344	59	0.995	0249	1692
Relative lipoprotein lipid concentrations	M_VLDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Medium VLDL ratio	2506/26	1.0	0.988-	0.20536	0.25028	4592/20	1.0	1.001-	0.04087	0.11450
			4557	23	1.059	1437	372	0670	23	1.045	126	9995
Relative lipoprotein lipid concentrations	S_HDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Small HDL ratio	2496/26	1.0	1.002-	0.01853	0.03563	4567/19	1.0	0.975-	0.51144	0.68970
			3557	10	1.019	0498	5573	9999	13	1.053	3198	5558

Relative lipoprotein lipid concentrations	S_LDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Small LDL ratio	2507/26	0.9	0.922-	0.03898	0.06184	4588/20	0.9	0.944-	0.06282	0.15236
			4422	59	0.998	5762	4576	0640	72	1.002	0001	1942
Relative lipoprotein lipid concentrations	S_VLDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Small VLDL ratio	2508/26	1.0	0.968-	0.62418	0.64811	4590/20	0.9	0.959-	0.59939	0.73233
			4500	11	1.056	048	0722	0701	91	1.024	021	7662
Relative lipoprotein lipid concentrations	XL_HDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Very Large HDL ratio	2527/26	1.0	0.972-	0.71523	0.73328	4613/20	1.0	0.980-	0.79024	0.87725
			5733	07	1.042	3117	3165	1661	03	1.027	2272	0567
Relative lipoprotein lipid concentrations	XL_VLDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Very Large VLDL ratio	2524/26	1.0	1.015-	0.00807	0.02045	4612/20	1.0	1.022-	0.00072	0.00438
			5611	57	1.102	7966	2222	1551	53	1.085	8216	2779
Relative lipoprotein lipid concentrations	XS_VLDL_FC_by_CE	Free Cholesterol to Cholesteryl Esters in Very Small VLDL ratio	2518/26	1.0	1.024-	0.00211	0.00895	4602/20	1.0	1.034-	1.99855	0.00034
			5128	67	1.113	606	0178	1167	63	1.094	E-05	9493
Relative lipoprotein lipid concentrations	XXL_VLDL_FC_pct	Free Cholesterol to Total Lipids in Chylomicrons and Extremely Large VLDL percentage	2519/26	0.9	0.934-	0.22630	0.27139	4605/20	0.9	0.960-	0.57199	0.71985
			5073	74	1.016	243	5904	1154	91	1.023	6863	0561
Relative lipoprotein lipid concentrations	IDL_FC_pct	Free Cholesterol to Total Lipids in IDL percentage	2499/26	0.9	0.939-	0.24356	0.28996	4571/20	0.9	0.944-	0.03622	0.10704
			3648	77	1.016	904	3143	0027	71	0.998	9939	3001
Relative lipoprotein lipid concentrations	L_HDL_FC_pct	Free Cholesterol to Total Lipids in Large HDL percentage	2508/26	1.0	0.973-	0.49087	0.52305	4585/20	0.9	0.967-	0.57486	0.71985
			4565	15	1.059	0148	8355	0749	93	1.019	8435	0561
Relative lipoprotein lipid concentrations	L_LDL_FC_pct	Free Cholesterol to Total Lipids in Large LDL percentage	2501/26	0.9	0.931-	0.01756	0.03439	4568/20	0.9	0.938-	0.00087	0.00510
			3680	62	0.993	5401	0092	0097	61	0.984	9999	7139
Relative lipoprotein lipid concentrations	L_VLDL_FC_pct	Free Cholesterol to Total Lipids in Large VLDL percentage	2521/26	0.9	0.947-	0.48090	0.51581	4606/20	0.9	0.949-	0.20961	0.35368
			5465	86	1.026	1094	8005	1431	80	1.011	3482	4961
Relative lipoprotein lipid concentrations	M_HDL_FC_pct	Free Cholesterol to Total Lipids in Medium HDL percentage	2502/26	1.0	1.025-	0.00313	0.01118	4576/20	1.0	0.968-	0.98394	0.99499
			3745	75	1.128	1936	5484	0162	00	1.034	8664	9156
Relative lipoprotein lipid concentrations	M_LDL_FC_pct	Free Cholesterol to Total Lipids in Medium LDL percentage	2502/26	0.9	0.925-	0.02181	0.04074	4570/20	0.9	0.938-	0.01082	0.04187
			3766	59	0.994	4283	5068	0144	64	0.992	2392	2352
Relative lipoprotein lipid concentrations	M_VLDL_FC_pct	Free Cholesterol to Total Lipids in Medium VLDL percentage	2501/26	0.9	0.943-	0.47321	0.50925	4590/20	0.9	0.920-	0.00015	0.00125
			4390	84	1.028	4423	3932	0582	47	0.974	0214	1782
Relative lipoprotein lipid concentrations	S_HDL_FC_pct	Free Cholesterol to Total Lipids in Small HDL percentage	2496/26	1.0	1.022-	0.00344	0.01166	4566/19	0.9	0.953-	0.30324	0.46269
			3444	67	1.114	4594	1387	9927	83	1.015	2241	3561
Relative lipoprotein lipid concentrations	S_LDL_FC_pct	Free Cholesterol to Total Lipids in Small LDL percentage	2506/26	0.9	0.929-	0.02900	0.04914	4579/20	0.9	0.941-	0.01312	0.04901
			4198	62	0.996	7047	7633	0474	66	0.993	1156	5814
Relative lipoprotein lipid concentrations	S_VLDL_FC_pct	Free Cholesterol to Total Lipids in Small VLDL percentage	2506/26	0.9	0.933-	0.19955	0.24473	4585/20	0.9	0.916-	0.00011	0.00097
			4351	73	1.015	207	3671	0594	43	0.972	3526	0944

Relative lipoprotein lipid concentrations	XL_HDL_FC_pct	Free Cholesterol to Total Lipids in Very Large HDL percentage	2511/26	0.9	0.931–	0.26689	0.30915	4592/20	0.9	0.965–	0.83765	0.89162
			4654	74	1.020	7442	4398	0808	97	1.029	6903	41
Relative lipoprotein lipid concentrations	XL_VLDL_FC_pct	Free Cholesterol to Total Lipids in Very Large VLDL percentage	2524/26	0.9	0.942–	0.39261	0.43401	4609/20	0.9	0.943–	0.11729	0.23976
			5470	82	1.024	845	6994	1430	74	1.007	9024	2156
Relative lipoprotein lipid concentrations	XS_VLDL_FC_pct	Free Cholesterol to Total Lipids in Very Small VLDL percentage	2512/26	0.9	0.944–	0.30643	0.34944	4589/20	0.9	0.937–	0.00806	0.03447
			4665	80	1.018	771	6511	0782	63	0.990	155	3733
Relative lipoprotein lipid concentrations	XXL_VLDL_PL_pct	Phospholipids to Total Lipids in Chylomicrons and Extremely Large VLDL percentage	2519/26	1.0	0.960–	0.99539	0.99539	4605/20	1.0	0.976–	0.56443	0.71985
			5073	00	1.042	1971	1971	1154	10	1.046	0219	0561
Relative lipoprotein lipid concentrations	IDL_PL_pct	Phospholipids to Total Lipids in IDL percentage	2499/26	1.0	0.975–	0.47145	0.50904	4571/20	1.0	0.993–	0.14555	0.27187
			3648	15	1.056	2259	3137	0027	22	1.051	6838	3404
Relative lipoprotein lipid concentrations	L_HDL_PL_pct	Phospholipids to Total Lipids in Large HDL percentage	2508/26	1.0	0.990–	0.12438	0.16300	4585/20	1.0	1.003–	0.03258	0.09898
			4565	38	1.088	7769	8165	0749	36	1.071	8101	255
Relative lipoprotein lipid concentrations	L_LDL_PL_pct	Phospholipids to Total Lipids in Large LDL percentage	2501/26	0.9	0.882–	4.07341	0.00042	4568/20	0.9	0.946–	0.07797	0.18101
			3680	19	0.957	E-05	3305	0097	74	1.003	4009	1093
Relative lipoprotein lipid concentrations	L_VLDL_PL_pct	Phospholipids to Total Lipids in Large VLDL percentage	2521/26	0.9	0.956–	0.90528	0.91088	4606/20	1.0	0.971–	0.77517	0.86574
			5465	97	1.041	1441	6899	1431	05	1.041	3052	31
Relative lipoprotein lipid concentrations	M_HDL_PL_pct	Phospholipids to Total Lipids in Medium HDL percentage	2502/26	1.0	0.981–	0.26729	0.30915	4576/20	1.0	0.985–	0.29719	0.45994
			3745	26	1.073	9649	4398	0162	18	1.051	6618	7147
Relative lipoprotein lipid concentrations	M_LDL_PL_pct	Phospholipids to Total Lipids in Medium LDL percentage	2502/26	0.9	0.911–	0.00794	0.02031	4570/20	0.9	0.960–	0.47644	0.65334
			3766	48	0.986	0264	9573	0144	89	1.019	0602	6817
Relative lipoprotein lipid concentrations	M_VLDL_PL_pct	Phospholipids to Total Lipids in Medium VLDL percentage	2501/26	0.9	0.947–	0.55854	0.58368	4590/20	0.9	0.927–	0.00010	0.00096
			4390	88	1.030	0141	3427	0582	51	0.975	6612	2472
Relative lipoprotein lipid concentrations	S_HDL_PL_pct	Phospholipids to Total Lipids in Small HDL percentage	2496/26	1.0	1.002–	0.04156	0.06493	4566/19	1.0	1.000–	0.04696	0.12042
			3444	42	1.085	099	9047	9927	32	1.064	0934	8636
Relative lipoprotein lipid concentrations	S_LDL_PL_pct	Phospholipids to Total Lipids in Small LDL percentage	2506/26	1.0	0.972–	0.52544	0.55265	4579/20	1.0	0.996–	0.08853	0.19177
			4198	14	1.056	471	2203	0474	27	1.058	5123	1496
Relative lipoprotein lipid concentrations	S_VLDL_PL_pct	Phospholipids to Total Lipids in Small VLDL percentage	2506/26	0.9	0.935–	0.24091	0.28786	4585/20	0.9	0.917–	0.00027	0.00199
			4351	75	1.017	8387	2043	0594	45	0.974	6178	4617
Relative lipoprotein lipid concentrations	XL_HDL_PL_pct	Phospholipids to Total Lipids in Very Large HDL percentage	2511/26	0.9	0.939–	0.11316	0.15030	4592/20	0.9	0.961–	0.30189	0.46269
			4654	72	1.007	5231	923	0808	86	1.012	0773	3561
Relative lipoprotein lipid concentrations	XL_VLDL_PL_pct	Phospholipids to Total Lipids in Very Large VLDL percentage	2524/26	1.0	0.965–	0.76833	0.78525	4609/20	1.0	0.966–	0.99758	0.99758
			5470	06	1.049	9103	2228	1430	00	1.035	1859	1859

Relative lipoprotein lipid concentrations	XS_VLDL_PL_pct	Phospholipids to Total Lipids in Very Small VLDL percentage	2512/26	1.0	0.982–	0.25686	0.30033	4589/20	1.0	1.021–	0.00099	0.00564
			4665	25	1.068	8809	1254	0782	52	1.085	0816	939
Relative lipoprotein lipid concentrations	XXL_VLDL_TG_pct	Triglycerides to Total Lipids in Chylomicrons and Extremely Large VLDL percentage	2519/26	1.0	0.969–	0.65093	0.67159	4605/20	1.0	0.977–	0.63187	0.75763
			5073	09	1.052	296	7498	1154	08	1.039	6283	2553
Relative lipoprotein lipid concentrations	IDL_TG_pct	Triglycerides to Total Lipids in IDL percentage	2499/26	1.0	1.015–	0.00732	0.01936	4571/20	1.0	1.026–	0.00023	0.00178
			3648	58	1.102	3387	5306	0027	57	1.089	6379	6587
Relative lipoprotein lipid concentrations	L_HDL_TG_pct	Triglycerides to Total Lipids in Large HDL percentage	2508/26	1.0	0.983–	0.25197	0.29779	4585/20	0.9	0.967–	0.90871	0.94657
			4565	25	1.069	9171	3566	0749	98	1.030	5712	8867
Relative lipoprotein lipid concentrations	L_LDL_TG_pct	Triglycerides to Total Lipids in Large LDL percentage	2501/26	1.0	1.019–	0.00369	0.01210	4568/20	1.0	1.029–	0.00011	0.00096
			3680	60	1.103	4421	3864	0097	60	1.091	0347	9261
Relative lipoprotein lipid concentrations	L_VLDL_TG_pct	Triglycerides to Total Lipids in Large VLDL percentage	2521/26	1.0	0.982–	0.25689	0.30033	4606/20	1.0	1.007–	0.01711	0.05981
			5465	25	1.070	8734	1254	1431	42	1.078	5609	2611
Relative lipoprotein lipid concentrations	M_HDL_TG_pct	Triglycerides to Total Lipids in Medium HDL percentage	2502/26	1.0	0.985–	0.20676	0.25028	4576/20	1.0	0.971–	0.84712	0.89162
			3745	28	1.073	5131	372	0162	03	1.036	128	41
Relative lipoprotein lipid concentrations	M_LDL_TG_pct	Triglycerides to Total Lipids in Medium LDL percentage	2502/26	1.0	1.020–	0.00312	0.01118	4570/20	1.0	1.031–	6.3634E	0.00071
			3766	60	1.103	5718	5484	0144	61	1.092	-05	3139
Relative lipoprotein lipid concentrations	M_VLDL_TG_pct	Triglycerides to Total Lipids in Medium VLDL percentage	2501/26	1.0	0.978–	0.32886	0.37111	4590/20	1.0	1.026–	0.00032	0.00226
			4390	22	1.069	8888	9404	0582	59	1.092	7096	1836
Relative lipoprotein lipid concentrations	S_HDL_TG_pct	Triglycerides to Total Lipids in Small HDL percentage	2496/26	1.0	0.993–	0.10403	0.14029	4566/19	1.0	0.985–	0.29676	0.45994
			3444	37	1.084	6397	8046	9927	18	1.052	7729	7147
Relative lipoprotein lipid concentrations	S_LDL_TG_pct	Triglycerides to Total Lipids in Small LDL percentage	2506/26	1.0	1.013–	0.01016	0.02428	4579/20	1.0	1.022–	0.00063	0.00413
			4198	54	1.097	1473	2931	0474	54	1.086	6685	8451
Relative lipoprotein lipid concentrations	S_VLDL_TG_pct	Triglycerides to Total Lipids in Small VLDL percentage	2506/26	1.0	0.981–	0.29080	0.33278	4585/20	1.0	1.032–	7.14705	0.00077
			4351	23	1.066	31	5238	0594	65	1.098	E-05	4264
Relative lipoprotein lipid concentrations	XL_HDL_TG_pct	Triglycerides to Total Lipids in Very Large HDL percentage	2511/26	1.0	1.007–	0.02368	0.04308	4592/20	1.0	0.988–	0.24275	0.39448
			4654	51	1.097	49	0004	0808	19	1.051	8612	2745
Relative lipoprotein lipid concentrations	XL_VLDL_TG_pct	Triglycerides to Total Lipids in Very Large VLDL percentage	2524/26	1.0	0.973–	0.43911	0.48028	4609/20	1.0	0.974–	0.62635	0.75763
			5470	18	1.064	0559	5884	1430	09	1.044	3145	2553
Relative lipoprotein lipid concentrations	XS_VLDL_TG_pct	Triglycerides to Total Lipids in Very Small VLDL percentage	2512/26	1.0	1.000–	0.05207	0.07751	4589/20	1.0	1.036–	2.62242	0.00042
			4665	43	1.088	0021	0528	0782	68	1.101	E-05	6144
Total lipids	HDL_L	Total Lipids in HDL	2486/26	1.0	1.037–	0.00043	0.00320	4558/19	1.0	0.985–	0.29125	0.45508
			2848	86	1.136	4228	7365	9491	18	1.053	4082	4503

Total lipids	LDL_L	Total Lipids in LDL	2501/26	1.0	1.011-	0.01293	0.02899	4564/20	0.9	0.946-	0.06350	0.15287
			3558	53	1.097	6848	6384	0004	73	1.002	2588	6602
Total lipids	Total_L	Total Lipids in Lipoprotein Particles	2469/26	1.0	1.049-	2.17274	0.00027	4532/19	0.9	0.965-	0.69839	0.80488
			1243	93	1.139	E-05	1592	8325	94	1.024	2557	5039
Total lipids	VLDL_L	Total Lipids in VLDL	2483/26	1.0	1.023-	0.00241	0.00982	4559/19	1.0	0.979-	0.51861	0.69533
			2646	67	1.113	8283	4276	9321	10	1.042	6135	3065
Triglycerides	Total_TG	Total Triglycerides	2491/26	1.0	1.034-	0.00040	0.00310	4553/19	1.0	0.998-	0.06995	0.16716
			2915	77	1.123	1653	8028	9537	29	1.062	3441	8149
Triglycerides	HDL_TG	Triglycerides in HDL	2512/26	1.0	1.029-	0.00060	0.00416	4586/20	1.0	0.987-	0.27601	0.44189
			4475	69	1.111	2057	3158	0627	17	1.048	1616	0519
Triglycerides	LDL_TG	Triglycerides in LDL	2502/26	1.0	1.056-	1.41286	3.27985	4572/20	1.0	0.998-	0.07089	0.16818
			3972	96	1.138	E-06	E-05	0334	28	1.059	4384	0109
Triglycerides	VLDL_TG	Triglycerides in VLDL	2506/26	1.0	1.026-	0.00160	0.00771	4577/20	1.0	0.997-	0.07249	0.17073
			3999	69	1.115	6066	3096	0272	29	1.061	5881	3053

Supplementary Table 6 Candidate hyperparameter grid and selected hyperparameters for the final LightGBM model

Hyperparameter	Candidate values	Selected value
Learning rate	0.003, 0.005, 0.01, 0.02, 0.05	0.005
Maximum number of leaves	6, 10, 15, 20, 30, 50	6
Maximum tree depth	5, 8, 10, 12, 15, -1	10
Bagging fraction	0.5, 0.6, 0.7, 0.8, 0.9	0.6
Feature fraction	0.5, 0.6, 0.7, 0.8, 0.9	0.7
Bagging frequency	1, 5, 10	5
Number of boosting iterations	100, 300, 500, 1000	500

Supplementary Table 7 Association between MetRS and incident colorectal cancer after excluding participants with less than 2 years of follow-up

Exposure	Category / Contrast	Events/Total	HR (95% CI)	P value
MetRS group	Low	1355/155566	Ref.	
	Middle	2005/155270	1.21 (1.13–1.30)	<0.001
	High	2952/154358	1.51 (1.41–1.62)	<0.001
MetRS, per 1 SD increment	Per 1 SD increment	6312/465194	1.21 (1.18–1.25)	<0.001

Supplementary Table 8 Stability of the seven MetRS metabolites across IECV folds

Metabolite (Abbreviations)	Metabolite	Selection frequency across 10 IECV folds
LA_pct	Linoleic acid to total fatty acids percentage	10/10
bOHbutyrate	3-hydroxybutyrate	10/10
Albumin	Albumin	10/10
Glucose	Glucose	10/10
XS_VLDL_CE_pct_ C	Cholesteryl esters to cholesterol in very small VLDL percentage	8/10
His	Histidine	9/10
Omega_6_pct	Omega-6 fatty acids to total fatty acids percentage	8/10

Supplementary Table 9 Absolute risk estimates of incident CRC across MetRS tertiles

MetRS tertile	Events/Total	5-year risk, % (95% CI)	10-year risk, % (95% CI)	15-year risk, % (95% CI)
Low	1498/156031	0.29 (0.27–0.32)	0.65 (0.61–0.69)	0.98 (0.93–1.03)
Middle	2276/156032	0.46 (0.43–0.50)	1.04 (0.99–1.09)	1.50 (1.44–1.57)
High	3376/156032	0.74 (0.70–0.78)	1.59 (1.53–1.66)	2.29 (2.22–2.37)

Supplementary Table 10 Paired regional differences in Harrell's C-index between QCancer+PRS+MetRS and QCancer+PRS

Geographical region	Paired difference in Harrell's C-index
East Midlands	0.005
London	0.006
North East	0.007
North West	0.005
Scotland	0.008
South East	0.007
South West	0.003
Wales	0.014
West Midlands	0.003
Yorkshire and Humber	0.004
Overall mean paired difference	0.006 (95% CI: 0.004–0.009)