

**Supplementary Table 1.** Basic characteristics of subset 1 (AF Baseline) of the ADVANCE cohort at baseline, patients identified to not have AF and those identified to have AF.

Variable	Variable	All (n=3,772)	Non AF (n=3,368)	AF (n=404)	P-value
<b>Continuous variables, median (Q1, Q3)</b>					
AGE*	Age, years	67 (62, 72)	67 (62,71)	69 (65, 74)	<b>4.42E-08</b>
WEIGHT*	Weight, kg	83 (74, 94)	83 (73, 94)	85 (75, 97)	<b>5.41E-03</b>
BMI	Body mass index	29.4 (26.5, 32.9)	29.4 (26.5, 32.8)	29.7 (26.5, 33.3)	1.89E-01
HEIGHT*	Height, cm	168 (161, 175)	168 (160, 175)	169 (163, 175)	<b>8.67E-03</b>
SBP*	Systolic blood pressure	146 (133, 160)	146 (133, 160)	146 (135, 162)	2.82E-01
DBP*	Diastolic blood pressure	81 (74, 89)	81 (74, 89)	82 (74, 91)	2.20E-01
TOTAL_CHOL*	Total cholesterol (mmol/l)	5.00 (4.30, 5.81)	5.02 (4.30, 5.88)	4.90 (4.20, 5.60)	<b>2.35E-02</b>
HDL_CHOL*	HDL cholesterol (mmol/l)	1.20 (1.00, 1.40)	1.20 (1.00, 1.40)	1.16 (1.00, 1.40)	1.77E-01
LDL_CHOL	LDL cholesterol (mmol/l)	3.00 (2.35, 3.70)	3.00 (2.32, 3.74)	2.90 (2.40, 3.60)	2.72E-01
TRIGLYC*	Triglycerides (mmol/l)	1.70 (1.20, 2.36)	1.70 (1.20, 2.35)	1.60 (1.11, 2.36)	6.74E-02
GLUCOSE	Blood glucose (mmol/l)	7.9 (6.6, 9.8)	7.9 (6.6, 9.7)	7.8 (6.6, 10.0)	7.87E-01
HR	Heart rate (bpm)	72 (64, 80)	72 (64, 80)	72 (62, 81)	9.87E-01
<b>Dichotomous variables, n (%)</b>					
SEX	Sex (males)	2303 (61.1)	2065 (61.3)	238 (58.9)	3.78E-01
Q_WAVES*	Myocardial Infarction	455 (12.1)	394 (11.7)	61 (15.1)	5.71E-02
Antihypertensive*	Antihypertensive medication used	3016 (80.0)	2647 (78.6)	369 (91.3)	<b>2.22E-09</b>
Smoking*	Currently Smoking	563 (14.9)	518 (15.4)	45 (11.1)	<b>2.88E-02</b>
HF*	Hospital admission for heart failure	175 (4.6)	113 (3.4)	62 (15.3)	<b>9.88E-27</b>
CABG	Coronary artery bypass graft or percutaneous transluminal coronary angioplasty	455 (12.1)	405 (12)	50 (12.4)	9.01E-01

\*Covariates used in association studies and multivariable models i.e. age, weight, height, systolic blood pressure (SBP), diastolic blood pressure (DBP), total cholesterol (TOTAL\_CHOL), HDL cholesterol (HDL\_CHOL), triglycerides (TRIGLYC), myocardial infarction (Q\_WAVES), antihypertensive medication used, current smoking status, and hospital admission for heart failure (HF). For continuous variables, Mann Whitney U-test was used. For categorical variables, Chi-squared test was used.

**Supplementary Table 2.** Basic characteristics of subset 2 (AF Future) of the ADVANCE cohort, patients identified to not have AF at baseline and at future follow-up time points, and those identified to not have AF at baseline, but developed AF at a future time point(s).

Variable	Variable	All (n=2,238)	Non AF (n=2,054)	AF Future (n=184)	P-value
<b>Continuous variables, median (Q1, Q3)</b>					
AGE*	Age, years	66 (61, 71)	66 (61,70)	69 (65, 73)	<b>1.56E-09</b>
WEIGHT*	Weight, kg	83 (73, 94)	83 (73, 93)	85 (75, 100)	<b>1.21E-02</b>
BMI	Body mass index	29.4 (26.6, 32.7)	29.4 (26.5, 32.6)	30.0 (27.6, 33.8)	<b>3.73E-03</b>
HEIGHT*	Height, cm	168 (160, 175)	168 (160, 175)	167 (162, 174)	7.39E-01
SBP*	Systolic blood pressure	145 (132, 160)	145 (132, 159)	150 (136, 166)	<b>2.71E-03</b>
DBP*	Diastolic blood pressure	81 (75, 89)	82 (75, 89)	81 (75, 89)	8.12E-01
TOTAL_CHOL*	Total cholesterol (mmol/l)	5.10 (4.40, 5.90)	5.10 (4.40, 5.90)	5.10 (4.32, 5.79)	8.97E-01
HDL_CHOL*	HDL cholesterol (mmol/l)	1.20 (1.00, 1.40)	1.20 (1.00, 1.40)	1.19 (1.00, 1.38)	2.56E-01
LDL_CHOL	LDL cholesterol (mmol/l)	3.00 (2.40, 3.80)	3.00 (2.40, 3.80)	3.00 (2.37, 3.80)	8.95E-01
TRIGLYC*	Triglycerides (mmol/l)	1.70 (1.20, 2.35)	1.70 (1.20, 2.37)	1.67 (1.20, 2.27)	9.41E-01
GLUCOSE	Blood glucose (mmol/l)	7.9 (6.5, 9.6)	7.9 (6.6, 9.6)	7.6 (6.5, 9.4)	2.67E-01
HR	Heart rate (bpm)	72 (64, 80)	72 (64, 80)	70 (61, 77)	<b>1.85E-03</b>
<b>Dichotomous variables, n (%)</b>					
SEX	Sex (males)	1337 (59.7)	1224 (59.6)	113 (61.4)	6.86E-01
Q_WAVES*	Myocardial Infarction	238 (10.6)	213 (10.4)	25 (13.6)	2.18E-01
Antihypertensive*	Antihypertensive medication used	1746 (78.0)	1588 (77.3)	158 (85.9)	<b>9.54E-03</b>
Smoking*	Currently Smoking	317 (14.2)	309 (15.0)	8 (4.3)	<b>1.06E-04</b>
HF*	Hospital admission for heart failure	57 (2.5)	45 (2.2)	12 (6.5)	<b>8.74E-04</b>
CABG	Coronary artery bypass graft or percutaneous transluminal coronary angioplasty	261 (11.7%)	238 (11.6%)	23 (12.5%)	8.03E-01

\*Covariates used in association studies and multivariable models. For continuous variables, Mann Whitney U-test was used. For categorical variables, Chi-squared test was used.

**Supplementary Table 3.** Basic characteristics of Non AF patients from cohort 1 vs patients from cohort 2.

Variable	Variable	Cohort 1 (n=3,368)	Cohort 2 (n=2,238)	P-value
<b>Continuous variables, median (Q1, Q3)</b>				
AGE*	Age, years	67 (62,71)	66 (61, 71)	<b>2.51E-05</b>
WEIGHT*	Weight, kg	83 (73, 94)	83 (73, 94)	9.91E-01
BMI	Body mass index	29.4 (26.5, 32.8)	29.4 (26.6, 32.7)	7.29E-01
HEIGHT*	Height, cm	168 (160, 175)	168 (160, 175)	6.75E-01
SBP*	Systolic blood pressure	146 (133, 160)	145 (132, 160)	3.56E-01
DBP*	Diastolic blood pressure	81 (74, 89)	81 (75, 89)	4.20E-01
TOTAL_CHOL*	Total cholesterol (mmol/l)	5.02 (4.30, 5.88)	5.1 (4.40, 5.90)	2.59E-01
HDL_CHOL*	HDL cholesterol (mmol/l)	1.20 (1.00, 1.40)	1.20 (1.00, 1.40)	4.68E-01
LDL_CHOL	LDL cholesterol (mmol/l)	3.00 (2.32, 3.74)	3.00 (2.40, 3.80)	2.86E-01
TRIGLYC*	Triglycerides (mmol/l)	1.7 (1.20, 2.35)	1.70 (1.20, 2.35)	9.62E-01
GLUCOSE	Blood glucose (mmol/l)	7.9 (6.6, 9.7)	7.9 (6.5, 9.6)	3.58E-01
HR	Heart rate (bpm)	72 (64, 80)	72 (64, 80)	4.21E-01
<b>Dichotomous variables, n (%)</b>				
SEX	Sex (males)	2065 (61.3)	1337 (59.7)	2.49E-01
Q_WAVES*	Myocardial Infarction	394 (11.7)	238 (10.6)	2.34E-01
Antihypertensive*	Antihypertensive medication used	2647 (78.6)	1746 (78.0)	6.31E-01
Smoking*	Currently Smoking	317 (14.2)	835 (14.9)	2.25E-01
HF*	Hospital admission for heart failure	113 (3.4)	57 (2.5)	9.92E-02
CABG	Coronary artery bypass graft or percutaneous transluminal coronary angioplasty	405 (12)	261 (11.7)	7.12E-01

\*Covariates used in association studies and multivariable models. For continuous variables, Mann Whitney U-test was used. For categorical variables, Chi-squared test was used.

**Supplementary Table 4.** Odds ratios and p-values of plasma lipid species in ADVANCE subset 1 against the prevalence of AF

lipid	Predictors	Odds Ratio	lower CI	upper CI	P-value	Adjusted P-value (BH)
1	dhCer(d18:0/16:0)	1.1510	0.9994	1.3264	5.14E-02	1.67E-01
2	dhCer(d18:0/18:0)	1.0905	0.9383	1.2636	2.54E-01	4.75E-01
3	dhCer(d18:0/20:0)	0.9659	0.822	1.1351	6.74E-01	8.34E-01
4	dhCer(d18:0/22:0)	0.9195	0.7831	1.0806	3.07E-01	5.20E-01
5	dhCer(d18:0/24:0)	0.8564	0.7315	1.0024	5.36E-02	1.68E-01
6	dhCer(d18:0/24:1)	0.7789	0.6756	0.8994	<b>6.15E-04</b>	<b>9.78E-03</b>
7	Cer(d18:1/16:0)	1.2378	1.0572	1.4529	<b>8.52E-03</b>	5.71E-02
8	Cer(d18:1/18:0)	1.1731	1.0024	1.3753	<b>4.79E-02</b>	1.62E-01
9	Cer(d18:1/20:0)	1.1378	0.9711	1.3370	1.14E-01	2.81E-01
10	Cer(d18:1/22:0)	0.9441	0.8107	1.1037	4.65E-01	6.63E-01
11	Cer(d18:1/24:0)	0.8015	0.6967	0.9247	<b>2.18E-03</b>	<b>2.27E-02</b>
12	Cer(d18:1/24:1)	1.3206	1.1276	1.5515	<b>6.38E-04</b>	<b>9.78E-03</b>
13	HexCer(d18:1/16:0)	1.2220	1.0428	1.4347	<b>1.38E-02</b>	8.07E-02
14	HexCer(d18:1/18:0)	1.2939	1.1054	1.5174	<b>1.43E-03</b>	<b>1.70E-02</b>
15	HexCer(d18:1/20:0)	1.3226	1.1257	1.5574	<b>7.33E-04</b>	<b>1.03E-02</b>
16	HexCer(d18:1/22:0)	1.1346	0.9668	1.3333	1.24E-01	3.02E-01
17	HexCer(d18:1/24:0)	1.0982	0.9299	1.2987	2.72E-01	4.94E-01
18	HexCer(d18:1/24:1)	1.4850	1.2601	1.7525	<b>2.60E-06</b>	<b>4.19E-04</b>
19	Hex2Cer(d18:1/16:0)	1.3906	1.1877	1.6307	<b>4.54E-05</b>	<b>1.33E-03</b>
20	Hex2Cer(d18:1/18:0)	1.4067	1.2130	1.6362	<b>7.83E-06</b>	<b>5.26E-04</b>
21	Hex2Cer(d18:1/20:0)	1.3508	1.1722	1.5600	<b>3.72E-05</b>	<b>1.33E-03</b>
22	Hex2Cer(d18:1/22:0)	1.4001	1.2055	1.6273	<b>1.10E-05</b>	<b>5.26E-04</b>
23	Hex2Cer(d18:1/24:0)	1.2636	1.0873	1.4691	<b>2.30E-03</b>	<b>2.31E-02</b>
24	Hex2Cer(d18:1/24:1)	1.4981	1.2785	1.7575	<b>6.35E-07</b>	<b>2.04E-04</b>
25	Hex3Cer(d18:1/16:0)	0.9761	0.9097	1.0436	4.88E-01	6.79E-01
26	Hex3Cer(d18:1/18:0)	1.0395	0.8905	1.2152	6.25E-01	7.93E-01
27	Hex3Cer(d18:1/20:0)	1.1830	1.0218	1.3751	<b>2.65E-02</b>	1.20E-01
28	Hex3Cer(d18:1/22:0)	1.1487	0.9828	1.3453	8.35E-02	2.30E-01
29	Hex3Cer(d18:1/24:0)	1.0338	0.8873	1.2063	6.71E-01	8.34E-01
30	Hex3Cer(d18:1/24:1)	1.3210	1.1212	1.5584	<b>9.19E-04</b>	<b>1.23E-02</b>
31	GM3(d18:1/16:0)	1.2296	1.0432	1.4537	<b>1.46E-02</b>	8.41E-02
32	GM3(d18:1/18:0)	0.9612	0.8451	1.095	5.49E-01	7.27E-01
33	GM3(d18:1/20:0)	0.8715	0.7635	0.9957	<b>4.23E-02</b>	1.53E-01
34	GM3(d18:1/22:0)	0.9418	0.8253	1.0762	3.75E-01	5.80E-01
35	GM3(d18:1/24:0)	0.9287	0.8126	1.0628	2.80E-01	5.02E-01
36	GM3(d18:1/24:1)	0.9662	0.8447	1.1059	6.16E-01	7.87E-01
37	SM(d17:1/14:0)	0.9770	0.8371	1.1424	7.70E-01	8.72E-01
38	SM(d18:0/14:0)	0.9730	0.8317	1.1408	7.35E-01	8.66E-01
39	SM(d18:1/14:0)/SM(d16:1/16:0)	0.9951	0.8495	1.1707	9.53E-01	9.72E-01
40	SM(d18:2/14:0)	0.9922	0.8370	1.1793	9.28E-01	9.60E-01
41	SM(d17:1/16:0)	1.1057	0.9515	1.2891	1.95E-01	4.18E-01
42	SM(d18:0/16:0)	1.0920	0.9356	1.2761	2.67E-01	4.89E-01
43	SM(d18:1/16:0)	1.0542	0.9036	1.2327	5.06E-01	6.93E-01
44	SM(d18:2/16:0)	1.1426	0.9589	1.3698	1.43E-01	3.39E-01
45	SM(34:3)	0.9464	0.8181	1.0984	4.64E-01	6.63E-01
46	SM(35:1)	1.0908	0.9415	1.2676	2.52E-01	4.75E-01
47	SM(35:2)	1.0677	0.9193	1.2464	3.99E-01	6.07E-01
48	SM(d18:1/18:0)/SM(d16:1/20:0)	1.0263	0.8833	1.1945	7.37E-01	8.66E-01
49	SM(d18:2/18:0)	1.0350	0.8841	1.2174	6.73E-01	8.34E-01
50	SM(d18:2/18:1)	0.8945	0.7765	1.0322	1.25E-01	3.02E-01
51	SM(d18:1/20:0)/SM(d16:1/22:0)	0.8805	0.7615	1.0219	8.98E-02	2.41E-01
52	SM(d18:2/20:0)	1.0545	0.9086	1.2286	4.91E-01	6.79E-01
53	SM(d16:1/23:0)/SM(d17:1/22:0)	0.9001	0.7822	1.0384	1.45E-01	3.39E-01
54	SM(41:1)	0.8722	0.7517	1.0138	7.31E-02	2.13E-01
55	SM(41:2)	0.9697	0.8320	1.1337	6.97E-01	8.53E-01
56	SM(d18:1/24:0)	0.7313	0.6287	0.8508	<b>5.01E-05</b>	<b>1.34E-03</b>
57	PC(29:0)	1.2140	1.0483	1.4065	<b>9.71E-03</b>	6.13E-02

58	PC(31:0)	1.1027	0.9482	1.2844	2.07E-01	4.22E-01
59	PC (31:1)	1.0677	0.9169	1.2479	4.05E-01	6.10E-01
60	PC(33:0)	1.1650	1.0025	1.3566	<b>4.78E-02</b>	1.62E-01
61	PC(33:1)	1.1373	0.9733	1.3315	1.07E-01	2.73E-01
62	PC(33:2)	0.9513	0.8199	1.1061	5.13E-01	7.01E-01
63	PC (33:3)	1.0246	0.8876	1.1848	7.42E-01	8.66E-01
64	PC (35:0)	1.0746	0.9242	1.2522	3.53E-01	5.65E-01
65	PC(35:1)	0.9939	0.8569	1.1560	9.36E-01	9.60E-01
66	PC(35:2)	1.0164	0.8794	1.1787	8.27E-01	8.94E-01
67	PC(35:3)	1.0179	0.8800	1.1817	8.14E-01	8.93E-01
68	PC(15:0_20:4)	0.8557	0.7470	0.9826	<b>2.58E-02</b>	1.19E-01
69	PC(15-MHDA_20:4)\PC(17:0_20:4)	0.8979	0.7887	1.0269	1.10E-01	2.73E-01
70	PC(37:5)	0.9387	0.8437	1.0527	2.62E-01	4.86E-01
71	PC(15:0_22:6)	0.9285	0.8110	1.0653	2.86E-01	5.06E-01
72	PC(39:5)	0.9053	0.7967	1.0338	1.35E-01	3.23E-01
73	PC(39:6)	0.9215	0.8051	1.0571	2.39E-01	4.55E-01
74	PC(39:7)	0.9301	0.8054	1.0750	3.25E-01	5.37E-01
75	PC(28:0)	0.9799	0.8480	1.1320	7.82E-01	8.73E-01
76	PC(14:0_16:0)	1.0133	0.8678	1.1844	8.67E-01	9.22E-01
77	PC(16:0_16:0)	1.1558	0.9920	1.3494	6.51E-02	1.94E-01
78	PC(32:1)	1.0289	0.8753	1.2110	7.31E-01	8.66E-01
79	PC(32:2)	0.8955	0.7604	1.0594	1.92E-01	4.15E-01
80	PC(32:3)	0.9143	0.8051	1.0443	1.75E-01	3.92E-01
81	PC(16:0_18:0)	1.0466	0.8904	1.2344	5.85E-01	7.66E-01
82	PC(16:0_18:1)	1.0905	0.9305	1.2821	2.89E-01	5.06E-01
83	PC(16:0_18:2)	0.9939	0.8610	1.1518	9.34E-01	9.60E-01
84	PC(16:1_18:2)\PC(16:0_18:3)	0.9778	0.8391	1.1431	7.76E-01	8.73E-01
85	PC(14:0_20:4)	0.8039	0.6971	0.9295	<b>2.93E-03</b>	<b>2.55E-02</b>
86	PC(34:5)	0.9802	0.8519	1.1299	7.81E-01	8.73E-01
87	PC(36:0)	0.9902	0.8518	1.1547	8.99E-01	9.44E-01
88	PC(18:0_18:1)	1.0229	0.8703	1.2059	7.86E-01	8.73E-01
89	PC(36:2)	1.0414	0.8928	1.2215	6.12E-01	7.87E-01
90	PC(18:1_18:2)\PC(16:0_20:3)	0.9041	0.7745	1.0605	2.08E-01	4.22E-01
91	PC(18:2_18:2)\PC(16:0_20_4)	0.7681	0.6365	0.9279	<b>6.03E-03</b>	<b>4.52E-02</b>
92	PC(36:5)	1.1958	0.9775	1.4630	8.21E-02	2.28E-01
93	PC(18:0_20:3)	0.9307	0.7974	1.0901	3.68E-01	5.73E-01
94	PC(38:4)	0.8497	0.7439	0.9742	<b>1.79E-02</b>	9.46E-02
95	PC(38:5)	0.8703	0.7622	0.9973	<b>4.29E-02</b>	1.53E-01
96	PC(38:6)	0.8997	0.7877	1.0297	1.22E-01	2.99E-01
97	PC(38:7)	0.9493	0.8274	1.0915	4.61E-01	6.63E-01
98	PC(18:0_22:4)\PC(20:0_20:4)	0.8490	0.7336	0.9849	<b>2.94E-02</b>	1.26E-01
99	PC(18:0_22:5)	0.8639	0.7524	0.9951	<b>4.01E-02</b>	1.53E-01
100	PC(18:0_22:6)	0.9308	0.8141	1.0667	2.98E-01	5.11E-01
101	PC(40:7)	0.8674	0.7621	0.9898	<b>3.28E-02</b>	1.34E-01
102	PC(40:8)	0.8589	0.7435	0.9950	<b>4.07E-02</b>	1.53E-01
103	PC(O-16:0/16:0)	1.2613	1.0924	1.4583	<b>1.63E-03</b>	<b>1.87E-02</b>
104	PC(O-32:1)	1.3932	1.2036	1.6144	<b>9.54E-06</b>	<b>5.26E-04</b>
105	PC(O-32:2)	1.2077	1.0637	1.3700	<b>3.45E-03</b>	<b>2.92E-02</b>
106	PC(O-34:1)	1.3078	1.1227	1.5270	<b>6.26E-04</b>	<b>9.78E-03</b>
107	PC(O-34:2)	1.0563	0.9151	1.2202	4.56E-01	6.61E-01
108	PC(O-34:3)	1.1498	0.9955	1.3292	5.82E-02	1.77E-01
109	PC(O-34:4)	1.0847	0.9360	1.2576	2.81E-01	5.02E-01
110	PC(O-35:4)	1.0564	0.9066	1.2346	4.86E-01	6.79E-01
111	PC(O-36:0)	1.0845	0.9608	1.2235	1.88E-01	4.09E-01
112	PC(O-36:1)	1.3007	1.1124	1.5243	<b>1.07E-03</b>	<b>1.38E-02</b>
113	PC(O-36:2)	1.1872	1.0222	1.3821	<b>2.57E-02</b>	1.19E-01
114	PC(O-36:3)	1.1040	0.9510	1.2854	1.98E-01	4.21E-01
115	PC(O-36:4)	1.0022	0.8685	1.1591	9.76E-01	9.82E-01
116	PC(O-36:5)	1.1862	1.0323	1.3640	<b>1.63E-02</b>	9.03E-02
117	PC(O-18:0/20:4)	1.0167	0.8823	1.1760	8.21E-01	8.93E-01
118	PC(O-38:5)	1.0438	0.9089	1.2032	5.49E-01	7.27E-01

119	PC(O-40:5)	1.0316	0.8990	1.1886	6.62E-01	8.30E-01
120	PC(O-18:0/22:6)	1.0684	0.9270	1.2361	3.68E-01	5.73E-01
121	PC(O-40:7)	1.0578	0.9198	1.2205	4.36E-01	6.47E-01
122	PC(P-16:0/14:0)	1.2020	1.0264	1.4085	<b>2.27E-02</b>	1.11E-01
123	PC(P-16:0/16:0)	1.2346	1.0607	1.4392	<b>6.79E-03</b>	<b>4.86E-02</b>
124	PC(P-16:0/16:1)	1.2324	1.0589	1.4362	<b>7.16E-03</b>	<b>4.91E-02</b>
125	PC(P-16:0/18:1)	1.4290	1.2049	1.6984	<b>4.56E-05</b>	<b>1.33E-03</b>
126	PC(P-16:0/18:2)	0.9750	0.8327	1.1438	7.55E-01	8.68E-01
127	PC(P-16:0/18:3)	0.9066	0.7777	1.0583	2.12E-01	4.27E-01
128	PC(P-36:2)	1.1153	0.9564	1.3037	1.67E-01	3.80E-01
129	PC(P-16:0/20:4)	0.9756	0.8473	1.1264	7.33E-01	8.66E-01
130	PC(P-16:0/20:5)	1.1287	0.9826	1.2984	8.84E-02	2.39E-01
131	PC(P-18:0/20:4)	0.9569	0.8355	1.1024	5.33E-01	7.15E-01
132	PC(P-38:5)	1.0351	0.9017	1.1927	6.28E-01	7.94E-01
133	PC(P-16:0/22:6)	1.0165	0.8830	1.1730	8.21E-01	8.93E-01
134	PC(P-18:0/22:5)	1.0042	0.8751	1.1567	9.53E-01	9.72E-01
135	PC(P-18:0/22:6)	1.0294	0.8958	1.1868	6.86E-01	8.44E-01
136	LPC(14:0)	0.9325	0.8089	1.0752	3.36E-01	5.46E-01
137	LPC(15:0)	1.0029	0.8689	1.1568	9.69E-01	9.78E-01
138	LPC(16:0)	0.9879	0.8455	1.1529	8.78E-01	9.30E-01
139	LPC(16:1)	1.0319	0.8886	1.1984	6.80E-01	8.39E-01
140	LPC(17:0)	1.0231	0.8816	1.1857	7.62E-01	8.72E-01
141	LPC(17:1)	1.1060	0.9572	1.2773	1.71E-01	3.85E-01
142	LPC(18:0)	1.0188	0.8721	1.1884	8.14E-01	8.93E-01
143	LPC(18:1)	1.0410	0.8957	1.2093	5.99E-01	7.75E-01
144	LPC(18:2)	0.9870	0.8527	1.1428	8.61E-01	9.18E-01
145	LPC(18:3)	1.0945	0.9463	1.2678	2.26E-01	4.34E-01
146	LPC(20:0)	0.9224	0.7908	1.0741	3.01E-01	5.13E-01
147	LPC(20:1)	1.1316	0.9756	1.3110	1.01E-01	2.64E-01
148	LPC(20:2)	1.0828	0.9336	1.2544	2.91E-01	5.06E-01
149	LPC(20:3)	0.9833	0.8467	1.1415	8.25E-01	8.94E-01
150	LPC(20:4)	0.8741	0.7528	1.0145	7.70E-02	2.18E-01
151	LPC(20:5)	1.1371	0.9903	1.3071	6.95E-02	2.05E-01
152	LPC(22:0)	0.8409	0.7275	0.9702	<b>1.83E-02</b>	9.52E-02
153	LPC(22:1)	1.2107	1.0688	1.3679	<b>2.37E-03</b>	<b>2.32E-02</b>
154	LPC(22:5)	0.9575	0.8290	1.1042	5.53E-01	7.27E-01
155	LPC(22:6)	1.0077	0.8733	1.1618	9.16E-01	9.52E-01
156	LPC(24:0)	0.7847	0.6699	0.9175	<b>2.52E-03</b>	<b>2.39E-02</b>
157	LPC(26:0)	0.9003	0.7710	1.0517	1.85E-01	4.08E-01
158	LPC(O-16:0)	1.1840	1.0062	1.3918	<b>4.12E-02</b>	1.53E-01
159	LPC(O-18:0)	1.1642	0.9852	1.3744	7.33E-02	2.13E-01
160	LPC(O-18:1)	1.1995	1.0113	1.4224	<b>3.65E-02</b>	1.45E-01
161	LPC(O-20:0)	0.8906	0.7810	1.0128	8.06E-02	2.26E-01
162	LPC(O-20:1)	1.1361	0.9741	1.3237	1.03E-01	2.67E-01
163	LPC(O-22:0)	1.1555	1.0002	1.3327	<b>4.84E-02</b>	1.62E-01
164	LPC(O-22:1)	1.2058	1.0293	1.4110	<b>2.00E-02</b>	1.02E-01
165	LPC(O-24:0)	1.1384	0.9790	1.3244	9.26E-02	2.46E-01
166	LPC(O-24:1)	1.2545	1.0873	1.4455	<b>1.79E-03</b>	<b>1.99E-02</b>
167	LPC(O-24:2)	1.0379	0.8973	1.1990	6.15E-01	7.87E-01
168	PE(16:0_16:0)	1.1804	1.0046	1.3880	<b>4.42E-02</b>	1.56E-01
169	PE(16:0_16:1)	1.2462	1.0521	1.4771	<b>1.10E-02</b>	6.78E-02
170	PE(16:0_18:1)	1.2097	1.0169	1.4418	<b>3.26E-02</b>	1.34E-01
171	PE(16:0_18:2)	1.1956	1.0159	1.4101	<b>3.26E-02</b>	1.34E-01
172	PE(34:3)	1.2729	1.0805	1.5030	<b>4.14E-03</b>	<b>3.33E-02</b>
173	PE(35:1)	1.2369	1.0502	1.4605	<b>1.15E-02</b>	6.95E-02
174	PE(35:2)	1.2297	1.0484	1.4459	<b>1.17E-02</b>	6.95E-02
175	PE(36:0)	1.0254	0.8807	1.1951	7.47E-01	8.67E-01
176	PE(18:0_18:1)	1.2440	1.0396	1.4925	<b>1.79E-02</b>	9.46E-02
177	PE(36:2)	1.2526	1.0577	1.4879	<b>9.67E-03</b>	6.13E-02
178	PE(36:3)	1.1814	1.0064	1.3899	<b>4.29E-02</b>	1.53E-01
179	PE(16:0_20:4)	1.1091	0.9485	1.3007	1.99E-01	4.21E-01

180	PE(36:5)	1.2178	1.0503	1.4150	<b>9.54E-03</b>	6.13E-02
181	PE(18:0_20:3)	1.1101	0.9341	1.3234	2.40E-01	4.55E-01
182	PE(18:0_20:4)	1.0908	0.9278	1.2870	2.98E-01	5.11E-01
183	PE(38:5)	1.0639	0.9104	1.2468	4.40E-01	6.47E-01
184	PE(16:0_22:6)	1.0887	0.9358	1.2703	2.75E-01	4.98E-01
185	PE(40:4)	0.9647	0.8232	1.1324	6.58E-01	8.28E-01
186	PE(40:5)	0.9713	0.8249	1.1471	7.29E-01	8.66E-01
187	PE(18:0_22:6)	1.0896	0.9314	1.2793	2.89E-01	5.06E-01
188	PE(40:7)	1.0284	0.8924	1.1885	7.01E-01	8.55E-01
189	PE(O-18:0/22:5)	1.0127	0.8803	1.1686	8.61E-01	9.18E-01
190	PE(O-36:3)	1.0248	0.8874	1.1846	7.39E-01	8.66E-01
191	PE(O-38:4)	0.9871	0.8567	1.1398	8.59E-01	9.18E-01
192	PE(O-16:0/20:4)	1.0529	0.9141	1.2141	4.76E-01	6.70E-01
193	PE(O-38:5)	1.0455	0.9099	1.2037	5.33E-01	7.15E-01
194	PE(O-18:1/22:6)	0.9798	0.8570	1.1236	7.68E-01	8.72E-01
195	PE(O-34:1)	1.1593	0.9993	1.3470	5.22E-02	1.67E-01
196	PE(O-16:0/18:2)	1.1842	1.0248	1.3697	<b>2.23E-02</b>	1.11E-01
197	PE(O-36:2)	1.0696	0.9255	1.2380	3.64E-01	5.73E-01
198	PE(O-36:5)	1.1558	1.0015	1.3362	<b>4.90E-02</b>	1.63E-01
199	PE(O-36:6)	1.0945	0.9519	1.2607	2.08E-01	4.22E-01
200	PE(O-18:0/22:6)	1.0156	0.8904	1.1639	8.21E-01	8.93E-01
201	PE(P-34:1)	1.0469	0.9040	1.2144	5.43E-01	7.26E-01
202	PE(P-34:2)	1.0176	0.8829	1.1744	8.10E-01	8.93E-01
203	PE(P-36:4)	0.9386	0.8160	1.0810	3.77E-01	5.80E-01
204	PE(P-38:5)	1.0085	0.8769	1.1630	9.06E-01	9.45E-01
205	PE(P-38:6)	0.9872	0.8587	1.1379	8.58E-01	9.18E-01
206	PE(P-36:1)	1.0761	0.9324	1.2444	3.19E-01	5.29E-01
207	PE(P-36:2)	1.0000	0.8670	1.1555	1.00E+00	1.00E+00
208	PE(P-38:4)	0.9102	0.7923	1.0483	1.88E-01	4.09E-01
209	PE(P-40:5)	0.9592	0.8371	1.1030	5.53E-01	7.27E-01
210	PE(P-40:6)	0.9630	0.8405	1.1067	5.91E-01	7.71E-01
211	PE(P-40:4)	0.9273	0.8074	1.0668	2.88E-01	5.06E-01
212	PE(16:0/0:0)	1.1818	1.0057	1.3884	<b>4.22E-02</b>	1.53E-01
213	PE(18:0/0:0)	1.1675	0.9985	1.3643	5.17E-02	1.67E-01
214	PE(18:1/0:0)	1.1011	0.9458	1.2822	2.15E-01	4.29E-01
215	PE(18:2/0:0)	1.0225	0.9047	1.1594	7.25E-01	8.66E-01
216	PE(20:4/0:0)	0.9791	0.8607	1.1173	7.51E-01	8.67E-01
217	PE(22:6/0:0)	1.0820	0.9423	1.2451	2.67E-01	4.89E-01
218	PI(16:0/16:0)	1.1962	1.0204	1.4027	<b>2.73E-02</b>	1.22E-01
219	PI(16:0_16:1)	1.1121	0.9423	1.3123	2.09E-01	4.22E-01
220	PI(34:0)	1.0931	0.9601	1.2488	1.84E-01	4.08E-01
221	PI(34:1)	1.1510	0.9811	1.3506	8.45E-02	2.31E-01
222	PI(18:0_18:1)	1.1644	0.9976	1.3606	5.45E-02	1.69E-01
223	PI(36:2)	1.0244	0.8754	1.2004	7.65E-01	8.72E-01
224	PI(36:3)	0.9900	0.8468	1.1586	9.00E-01	9.44E-01
225	PI(16:0_20:4)	0.9577	0.8157	1.1261	5.99E-01	7.75E-01
226	PI(18:0_20:2)	1.1020	0.9439	1.2887	2.21E-01	4.30E-01
227	PI(18:0_20:3)	0.9957	0.8496	1.1702	9.58E-01	9.73E-01
228	PI(18:0_20:4)	1.0239	0.8864	1.1869	7.51E-01	8.67E-01
229	PI(38:5)	0.9258	0.8021	1.0701	2.94E-01	5.09E-01
230	PI(38:6)	0.9906	0.8617	1.1401	8.95E-01	9.44E-01
231	PI(40:4)	0.8745	0.7545	1.0154	7.68E-02	2.18E-01
232	PI(18:0_22:5)	0.9461	0.8216	1.0912	4.44E-01	6.47E-01
233	PI(18:0_22:6)	1.0753	0.9295	1.2456	3.31E-01	5.41E-01
234	LPI(18:0)	1.1494	0.9469	1.3944	1.58E-01	3.61E-01
235	LPI(18:1)	1.3924	1.1988	1.6178	<b>1.49E-05</b>	<b>5.98E-04</b>
236	LPI(18:2)	1.4249	1.2236	1.6603	<b>5.37E-06</b>	<b>5.26E-04</b>
237	LPI(20:4)	1.3010	1.1175	1.5147	<b>6.92E-04</b>	<b>1.01E-02</b>
238	PG(34:1)	1.1786	0.9984	1.3936	5.32E-02	1.68E-01
239	PG(36:1)	1.4605	1.2112	1.7666	<b>8.35E-05</b>	<b>2.07E-03</b>
240	PG(36:2)	1.1563	0.9692	1.383	1.09E-01	2.73E-01

241	COH	1.0674	0.9059	1.2649	4.44E-01	6.47E-01
242	CE(14:0)	1.2081	1.0219	1.4321	<b>2.81E-02</b>	1.24E-01
243	CE(15:0)	1.3318	1.1446	1.5528	<b>2.31E-04</b>	<b>4.95E-03</b>
244	CE(16:0)	1.2743	1.0749	1.5164	<b>5.77E-03</b>	<b>4.42E-02</b>
245	CE(16:1)	1.1832	1.0040	1.3969	<b>4.58E-02</b>	1.59E-01
246	CE(16:2)	0.9963	0.8479	1.1754	9.65E-01	9.77E-01
247	CE(17:0)	1.1904	1.0225	1.3884	<b>2.55E-02</b>	1.19E-01
248	CE(17:1)	1.2720	1.0881	1.4919	<b>2.81E-03</b>	<b>2.51E-02</b>
249	CE(18:0)	1.0759	0.9121	1.2740	3.91E-01	5.97E-01
250	CE(18:1)	1.2720	1.0881	1.4919	<b>2.81E-03</b>	<b>2.51E-02</b>
251	CE(18:2)	1.0558	0.8957	1.2538	5.27E-01	7.13E-01
252	CE(18:3)	1.0828	0.9195	1.2826	3.49E-01	5.62E-01
253	CE(20:1)	1.3243	1.1356	1.5443	<b>3.41E-04</b>	<b>6.61E-03</b>
254	CE(20:2)	1.2169	1.0362	1.4336	<b>1.78E-02</b>	9.46E-02
255	CE(20:3)	1.0265	0.8831	1.1983	7.37E-01	8.66E-01
256	CE(20:4)	0.9209	0.8006	1.0661	2.59E-01	4.82E-01
257	CE(20:5)	1.0733	0.9364	1.2349	3.17E-01	5.28E-01
258	CE(22:0)	1.0584	0.8984	1.2493	5.00E-01	6.88E-01
259	CE(22:1)	1.2909	1.1221	1.4846	<b>3.49E-04</b>	<b>6.61E-03</b>
260	CE(22:4)	0.9728	0.8434	1.1269	7.09E-01	8.61E-01
261	CE(22:5)	0.9118	0.7918	1.0553	2.07E-01	4.22E-01
262	CE(22:6)	0.9395	0.8221	1.0785	3.67E-01	5.73E-01
263	CE(24:0)	1.0263	0.8618	1.2233	7.72E-01	8.72E-01
264	CE(24:1)	1.2637	1.0727	1.4918	<b>5.40E-03</b>	<b>4.24E-02</b>
265	CE(24:4)	1.0736	0.9284	1.2443	3.42E-01	5.53E-01
266	CE(24:5)	1.0479	0.9087	1.2107	5.23E-01	7.10E-01
267	CE(24:6)	0.9805	0.8509	1.1318	7.86E-01	8.73E-01
268	DG(14:0/16:0)	1.0524	0.9153	1.2059	4.68E-01	6.63E-01
269	DG(16:0/16:0)	1.0547	0.9297	1.1931	4.02E-01	6.08E-01
270	DG(14:0/18:1)	0.9918	0.8187	1.2033	9.33E-01	9.60E-01
271	DG(14:0/18:2)	0.8354	0.7011	0.9963	<b>4.47E-02</b>	1.56E-01
272	DG(16:0/18:0)	1.0377	0.9376	1.1445	4.66E-01	6.63E-01
273	DG(16:0/18:1)	1.2265	0.9956	1.5157	5.68E-02	1.74E-01
274	DG(16:1/18:0)	1.2445	1.0240	1.5146	<b>2.85E-02</b>	1.24E-01
275	DG(16:1/18:1)	1.1016	0.9077	1.3407	3.31E-01	5.41E-01
276	DG(16:0/18:2)	0.9361	0.7759	1.1305	4.91E-01	6.79E-01
277	DG(18:0/18:0)	1.0578	0.9318	1.2006	3.84E-01	5.89E-01
278	DG(18:0/18:1)	1.3787	1.1236	1.6944	<b>2.18E-03</b>	<b>2.27E-02</b>
279	DG(18:1/18:1)	1.1612	0.9513	1.4224	1.45E-01	3.39E-01
280	DG(18:0/18:2)	1.0850	0.8925	1.3209	4.15E-01	6.20E-01
281	DG(18:1/18:2)	0.8639	0.7230	1.0343	1.09E-01	2.73E-01
282	DG(16:0/20:3)	0.9980	0.8294	1.2033	9.83E-01	9.86E-01
283	DG(18:2/18:2)	0.8014	0.6817	0.9411	<b>7.11E-03</b>	<b>4.91E-02</b>
284	DG(18:1/18:3)	0.8991	0.7595	1.0660	2.19E-01	4.30E-01
285	DG(16:0/20:4)	0.8969	0.7546	1.0680	2.20E-01	4.30E-01
286	DG(18:1/20:0)	1.0842	0.9503	1.2351	2.27E-01	4.34E-01
287	DG(18:1/20:3)	0.9188	0.7802	1.0841	3.13E-01	5.24E-01
288	DG(18:0/20:4)	0.9719	0.8288	1.1410	7.27E-01	8.66E-01
289	DG(18:1/20:4)	0.8291	0.7054	0.9760	<b>2.36E-02</b>	1.14E-01
290	DG(16:0/22:5)	0.9347	0.8098	1.0843	3.65E-01	5.73E-01
291	DG(16:0/22:6)	0.9911	0.8565	1.1497	9.05E-01	9.45E-01
292	TG(48:0)	1.1732	0.9842	1.3984	7.46E-02	2.14E-01
293	TG(48:1)	1.0304	0.8638	1.2317	7.41E-01	8.66E-01
294	TG(48:2)	0.9297	0.7808	1.1095	4.16E-01	6.20E-01
295	TG(48:3)	0.8688	0.7354	1.0278	9.93E-02	2.62E-01
296	TG(49:1)	1.0916	0.9224	1.2945	3.10E-01	5.23E-01
297	TG(50:0)	1.2508	1.0424	1.501	<b>1.61E-02</b>	9.03E-02
298	TG(50:1)	1.1193	0.9411	1.3348	2.06E-01	4.22E-01
299	TG(50:2)	1.0388	0.8979	1.2206	6.23E-01	7.93E-01
300	TG(50:3)	0.8501	0.7191	1.0099	6.07E-02	1.83E-01
301	TG(50:4)	0.7943	0.6799	0.9314	<b>4.11E-03</b>	<b>3.33E-02</b>



302	TG(51:1)	1.1396	0.9576	1.3605	1.45E-01	3.39E-01
303	TG(51:2)	1.0663	0.9068	1.2585	4.43E-01	6.47E-01
304	TG(52:1)	1.1286	0.9377	1.3635	2.05E-01	4.22E-01
305	TG(52:2)	1.0601	0.9058	1.2468	4.74E-01	6.69E-01
306	TG(52:3)	0.8848	0.7649	1.0275	1.04E-01	2.67E-01
307	TG(52:4)	0.8386	0.7228	0.9762	<b>2.17E-02</b>	1.09E-01
308	TG(53:2)	1.1075	0.9421	1.3069	2.21E-01	4.30E-01
309	TG(54:0)	1.1045	0.9649	1.2664	1.52E-01	3.49E-01
310	TG(54:1)	1.2153	1.0109	1.4624	<b>3.84E-02</b>	1.49E-01
311	TG(54:2)	1.1921	1.0002	1.4261	5.22E-02	1.67E-01
312	TG(54:3)	1.0699	0.9247	1.2406	3.67E-01	5.73E-01
313	TG(54:4)	0.9104	0.7853	1.0574	2.16E-01	4.29E-01
314	TG(54:5)	0.8927	0.7663	1.0416	1.47E-01	3.41E-01
315	TG(54:6)	0.8453	0.7257	0.9858	<b>3.13E-02</b>	1.33E-01
316	TG(56:6)	0.8537	0.739	0.989	<b>3.33E-02</b>	1.34E-01

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**Supplementary Table 5.** Odds ratios and p-values of plasma lipid species in ADVANCE subset 2 against the future incidence of AF

lipid	Predictors	Odds Ratio	lower CI	upper CI	P-value	Adjusted P-value (BH)
1	dhCer(d18:0/16:0)	1.1468	0.9294	1.4171	2.03E-01	8.91E-01
2	dhCer(d18:0/18:0)	1.0589	0.8521	1.3070	5.99E-01	8.95E-01
3	dhCer(d18:0/20:0)	1.1196	0.9023	1.3892	3.05E-01	8.95E-01
4	dhCer(d18:0/22:0)	1.0684	0.8512	1.3434	5.70E-01	8.95E-01
5	dhCer(d18:0/24:0)	1.0852	0.8684	1.3565	4.72E-01	8.95E-01
6	dhCer(d18:0/24:1)	1.0536	0.8530	1.3065	6.31E-01	8.95E-01
7	Cer(d18:1/16:0)	1.1406	0.9121	1.4321	2.53E-01	8.95E-01
8	Cer(d18:1/18:0)	1.1353	0.9097	1.4217	2.65E-01	8.95E-01
9	Cer(d18:1/20:0)	1.1092	0.8838	1.4007	3.78E-01	8.95E-01
10	Cer(d18:1/22:0)	1.1319	0.9058	1.4258	2.85E-01	8.95E-01
11	Cer(d18:1/24:0)	1.0629	0.8553	1.3312	5.89E-01	8.95E-01
12	Cer(d18:1/24:1)	1.2586	1.0035	1.5898	5.02E-02	6.34E-01
13	HexCer(d18:1/16:0)	0.9691	0.7763	1.2165	7.84E-01	9.54E-01
14	HexCer(d18:1/18:0)	1.2674	1.0020	1.6117	5.06E-02	6.34E-01
15	HexCer(d18:1/20:0)	1.2934	1.0284	1.6372	<b>3.01E-02</b>	6.34E-01
16	HexCer(d18:1/22:0)	1.1188	0.8929	1.4087	3.34E-01	8.95E-01
17	HexCer(d18:1/24:0)	1.1015	0.8702	1.4007	4.26E-01	8.95E-01
18	HexCer(d18:1/24:1)	1.1379	0.9025	1.4401	2.78E-01	8.95E-01
19	Hex2Cer(d18:1/16:0)	0.9924	0.7944	1.2443	9.47E-01	9.87E-01
20	Hex2Cer(d18:1/18:0)	1.1390	0.9252	1.4120	2.27E-01	8.95E-01
21	Hex2Cer(d18:1/20:0)	1.0805	0.8840	1.3269	4.55E-01	8.95E-01
22	Hex2Cer(d18:1/22:0)	1.3722	1.1040	1.7086	<b>4.52E-03</b>	1.62E-01
23	Hex2Cer(d18:1/24:0)	1.3149	1.0469	1.6544	<b>1.90E-02</b>	4.71E-01
24	Hex2Cer(d18:1/24:1)	1.0922	0.8710	1.3738	4.48E-01	8.95E-01
25	Hex3Cer(d18:1/16:0)	0.9982	0.9055	1.0932	9.70E-01	9.97E-01
26	Hex3Cer(d18:1/18:0)	1.0789	0.8662	1.3482	5.01E-01	8.95E-01
27	Hex3Cer(d18:1/20:0)	1.2094	0.9776	1.5079	8.54E-02	6.74E-01
28	Hex3Cer(d18:1/22:0)	1.2044	0.9628	1.5141	1.07E-01	7.85E-01
29	Hex3Cer(d18:1/24:0)	1.1821	0.9461	1.4831	1.44E-01	8.78E-01
30	Hex3Cer(d18:1/24:1)	1.2400	0.9745	1.5846	8.28E-02	6.74E-01
31	GM3(d18:1/16:0)	1.2562	0.9868	1.6115	6.84E-02	6.34E-01
32	GM3(d18:1/18:0)	0.6836	0.5603	0.8339	<b>1.76E-04</b>	<b>1.41E-02</b>
33	GM3(d18:1/20:0)	0.7388	0.6063	0.9003	<b>2.67E-03</b>	1.23E-01
34	GM3(d18:1/22:0)	0.7754	0.6397	0.9411	<b>9.76E-03</b>	3.14E-01
35	GM3(d18:1/24:0)	0.8130	0.6689	0.9902	<b>3.84E-02</b>	6.34E-01
36	GM3(d18:1/24:1)	0.6378	0.5199	0.7813	<b>1.49E-05</b>	<b>4.80E-03</b>
37	SM(d17:1/14:0)	0.8420	0.6718	1.0590	1.38E-01	8.74E-01
38	SM(d18:0/14:0)	0.8844	0.7068	1.1101	2.86E-01	8.95E-01
39	SM(d18:1/14:0)/SM(d16:1/16:0)	0.9387	0.7519	1.1820	5.84E-01	8.95E-01
40	SM(d18:2/14:0)	0.8991	0.7026	1.1567	4.03E-01	8.95E-01
41	SM(d17:1/16:0)	0.9511	0.7705	1.1835	6.47E-01	9.01E-01
42	SM(d18:0/16:0)	1.1285	0.8996	1.4200	2.99E-01	8.95E-01
43	SM(d18:1/16:0)	1.0691	0.8587	1.3367	5.54E-01	8.95E-01
44	SM(d18:2/16:0)	1.1279	0.8818	1.4618	3.51E-01	8.95E-01
45	SM(34:3)	0.9103	0.7340	1.1379	4.01E-01	8.95E-01
46	SM(35:1)	0.9420	0.7681	1.1630	5.72E-01	8.95E-01
47	SM(35:2)	0.9121	0.7456	1.1290	3.84E-01	8.95E-01
48	SM(d18:1/18:0)/SM(d16:1/20:0)	1.0933	0.8804	1.3619	4.23E-01	8.95E-01
49	SM(d18:2/18:0)	1.0592	0.8452	1.3413	6.26E-01	8.95E-01
50	SM(d18:2/18:1)	0.9974	0.8133	1.2284	9.80E-01	9.97E-01
51	SM(d18:1/20:0)/SM(d16:1/22:0)	1.0784	0.8640	1.3581	5.13E-01	8.95E-01
52	SM(d18:2/20:0)	1.1682	0.9287	1.4847	1.94E-01	8.91E-01
53	SM(d16:1/23:0)/SM(d17:1/22:0)	0.9234	0.7502	1.1436	4.59E-01	8.95E-01
54	SM(41:1)	0.9264	0.7477	1.1528	4.89E-01	8.95E-01
55	SM(41:2)	0.9028	0.7250	1.1320	3.69E-01	8.95E-01
56	SM(d18:1/24:0)	0.9719	0.7864	1.2032	7.93E-01	9.54E-01
57	PC(29:0)	1.0017	0.8116	1.2373	9.87E-01	9.97E-01

58	PC(31:0)	0.9556	0.7676	1.1927	6.86E-01	9.24E-01
59	PC (31:1)	0.9345	0.7545	1.1671	5.43E-01	8.95E-01
60	PC(33:0)	0.9923	0.7967	1.2409	9.45E-01	9.87E-01
61	PC(33:1)	1.0059	0.7999	1.2693	9.60E-01	9.97E-01
62	PC(33:2)	0.9896	0.7904	1.2455	9.28E-01	9.87E-01
63	PC (33:3)	0.9431	0.7555	1.1816	6.08E-01	8.95E-01
64	PC (35:0)	0.9461	0.7631	1.1781	6.17E-01	8.95E-01
65	PC(35:1)	0.9406	0.7603	1.1709	5.78E-01	8.95E-01
66	PC(35:2)	1.0726	0.8619	1.3449	5.37E-01	8.95E-01
67	PC(35:3)	0.9892	0.7933	1.2430	9.25E-01	9.87E-01
68	PC(15:0_20:4)	0.9671	0.7849	1.1976	7.56E-01	9.46E-01
69	PC(15-MHDA_20:4)\PC(17:0_20:4)	1.0383	0.8488	1.2819	7.21E-01	9.33E-01
70	PC(37:5)	0.9424	0.8136	1.1107	4.53E-01	8.95E-01
71	PC(15:0_22:6)	0.9442	0.7664	1.1694	5.94E-01	8.95E-01
72	PC(39:5)	1.0375	0.8461	1.2849	7.30E-01	9.40E-01
73	PC(39:6)	1.0016	0.8156	1.2372	9.88E-01	9.97E-01
74	PC(39:7)	0.9591	0.7850	1.1746	6.85E-01	9.24E-01
75	PC(28:0)	0.8729	0.7083	1.0747	2.01E-01	8.91E-01
76	PC(14:0_16:0)	0.9805	0.7802	1.2339	8.67E-01	9.71E-01
77	PC(16:0_16:0)	1.2741	1.0069	1.6200	<b>4.59E-02</b>	6.34E-01
78	PC(32:1)	1.1370	0.8952	1.4476	2.95E-01	8.95E-01
79	PC(32:2)	1.0157	0.7920	1.3153	9.04E-01	9.82E-01
80	PC(32:3)	0.9477	0.7827	1.1664	5.96E-01	8.95E-01
81	PC(16:0_18:0)	1.1147	0.8803	1.4235	3.76E-01	8.95E-01
82	PC(16:0_18:1)	1.2688	0.9925	1.6342	6.12E-02	6.34E-01
83	PC(16:0_18:2)	1.2748	1.0131	1.6207	<b>4.28E-02</b>	6.34E-01
84	PC(16:1_18:2)\PC(16:0_18:3)	1.1320	0.8967	1.4392	3.04E-01	8.95E-01
85	PC(14:0_20:4)	0.9540	0.7618	1.2023	6.86E-01	9.24E-01
86	PC(34:5)	0.8996	0.7344	1.1060	3.11E-01	8.95E-01
87	PC(36:0)	0.9783	0.7908	1.2198	8.43E-01	9.71E-01
88	PC(18:0_18:1)	1.0230	0.8073	1.3040	8.52E-01	9.71E-01
89	PC(36:2)	1.1790	0.9295	1.5167	1.88E-01	8.91E-01
90	PC(18:1_18:2)\PC(16:0_20:3)	1.1131	0.8763	1.4283	3.90E-01	8.95E-01
91	PC(18:2_18:2)\PC(16:0_20_4)	0.9752	0.7385	1.2943	8.60E-01	9.71E-01
92	PC(36:5)	1.0745	0.8012	1.4398	6.30E-01	8.95E-01
93	PC(18:0_20:3)	0.9012	0.7194	1.1357	3.72E-01	8.95E-01
94	PC(38:4)	1.0725	0.8661	1.3388	5.29E-01	8.95E-01
95	PC(38:5)	1.0356	0.8402	1.2870	7.48E-01	9.42E-01
96	PC(38:6)	1.0272	0.8409	1.2622	7.95E-01	9.54E-01
97	PC(38:7)	0.9823	0.8052	1.2050	8.62E-01	9.71E-01
98	PC(18:0_22:4)\PC(20:0_20:4)	1.0798	0.8570	1.3676	5.20E-01	8.95E-01
99	PC(18:0_22:5)	1.0431	0.8412	1.3031	7.06E-01	9.29E-01
100	PC(18:0_22:6)	0.9966	0.8172	1.2221	9.74E-01	9.97E-01
101	PC(40:7)	1.0114	0.8245	1.2499	9.15E-01	9.82E-01
102	PC(40:8)	0.9793	0.7857	1.2294	8.55E-01	9.71E-01
103	PC(O-16:0/16:0)	1.1127	0.9051	1.3725	3.15E-01	8.95E-01
104	PC(O-32:1)	1.1519	0.9364	1.4202	1.83E-01	8.91E-01
105	PC(O-32:2)	1.0614	0.8807	1.2753	5.28E-01	8.95E-01
106	PC(O-34:1)	1.2603	1.0076	1.5854	<b>4.55E-02</b>	6.34E-01
107	PC(O-34:2)	1.1105	0.8966	1.3778	3.39E-01	8.95E-01
108	PC(O-34:3)	1.0084	0.8180	1.2451	9.38E-01	9.87E-01
109	PC(O-34:4)	1.0515	0.8521	1.2981	6.40E-01	9.01E-01
110	PC(O-35:4)	1.0627	0.8508	1.3351	5.97E-01	8.95E-01
111	PC(O-36:0)	1.1849	0.9498	1.4756	1.31E-01	8.74E-01
112	PC(O-36:1)	1.1436	0.9189	1.4311	2.35E-01	8.95E-01
113	PC(O-36:2)	1.1420	0.9167	1.4300	2.42E-01	8.95E-01
114	PC(O-36:3)	1.0696	0.8624	1.3352	5.46E-01	8.95E-01
115	PC(O-36:4)	1.0965	0.8888	1.3578	3.94E-01	8.95E-01
116	PC(O-36:5)	1.0125	0.8227	1.2475	9.07E-01	9.82E-01
117	PC(O-18:0/20:4)	1.1126	0.9004	1.3843	3.31E-01	8.95E-01
118	PC(O-38:5)	1.0859	0.8846	1.3419	4.39E-01	8.95E-01

119	PC(O-40:5)	1.0790	0.8791	1.3345	4.76E-01	8.95E-01
120	PC(O-18:0/22:6)	1.0864	0.8821	1.3497	4.45E-01	8.95E-01
121	PC(O-40:7)	1.0295	0.8414	1.2685	7.81E-01	9.54E-01
122	PC(P-16:0/14:0)	1.0773	0.8543	1.3601	5.30E-01	8.95E-01
123	PC(P-16:0/16:0)	1.2483	1.0009	1.5639	5.14E-02	6.34E-01
124	PC(P-16:0/16:1)	1.1364	0.9142	1.4166	2.52E-01	8.95E-01
125	PC(P-16:0/18:1)	1.4755	1.1404	1.9166	<b>3.31E-03</b>	1.33E-01
126	PC(P-16:0/18:2)	1.2370	0.9725	1.5800	8.58E-02	6.74E-01
127	PC(P-16:0/18:3)	1.2439	0.9877	1.5705	6.50E-02	6.34E-01
128	PC(P-36:2)	1.1669	0.9300	1.4701	1.87E-01	8.91E-01
129	PC(P-16:0/20:4)	1.1597	0.9342	1.4473	1.85E-01	8.91E-01
130	PC(P-16:0/20:5)	1.0146	0.8275	1.2474	8.89E-01	9.81E-01
131	PC(P-18:0/20:4)	1.0650	0.8672	1.3225	5.60E-01	8.95E-01
132	PC(P-38:5)	1.0537	0.8622	1.2973	6.16E-01	8.95E-01
133	PC(P-16:0/22:6)	1.0709	0.8718	1.3219	5.19E-01	8.95E-01
134	PC(P-18:0/22:5)	1.0198	0.8311	1.2621	8.54E-01	9.71E-01
135	PC(P-18:0/22:6)	1.0669	0.8682	1.3198	5.44E-01	8.95E-01
136	LPC(14:0)	0.8379	0.6828	1.0285	9.05E-02	6.94E-01
137	LPC(15:0)	0.9154	0.7426	1.1267	4.06E-01	8.95E-01
138	LPC(16:0)	1.0697	0.8580	1.3301	5.47E-01	8.95E-01
139	LPC(16:1)	1.0163	0.8166	1.2647	8.85E-01	9.79E-01
140	LPC(17:0)	0.9544	0.7690	1.1806	6.70E-01	9.18E-01
141	LPC(17:1)	0.9317	0.7524	1.1516	5.15E-01	8.95E-01
142	LPC(18:0)	1.0032	0.8064	1.2443	9.77E-01	9.97E-01
143	LPC(18:1)	1.0951	0.8819	1.3572	4.09E-01	8.95E-01
144	LPC(18:2)	1.0482	0.8429	1.3042	6.73E-01	9.18E-01
145	LPC(18:3)	0.9387	0.7588	1.1643	5.62E-01	8.95E-01
146	LPC(20:0)	1.0905	0.8839	1.3412	4.15E-01	8.95E-01
147	LPC(20:1)	1.0736	0.8636	1.3304	5.19E-01	8.95E-01
148	LPC(20:2)	1.0478	0.8471	1.2919	6.64E-01	9.17E-01
149	LPC(20:3)	0.9707	0.7811	1.2049	7.88E-01	9.54E-01
150	LPC(20:4)	0.9997	0.8077	1.2363	9.97E-01	9.98E-01
151	LPC(20:5)	0.9671	0.7913	1.1838	7.45E-01	9.42E-01
152	LPC(22:0)	1.1350	0.9066	1.4166	2.66E-01	8.95E-01
153	LPC(22:1)	1.1005	0.9084	1.3235	3.18E-01	8.95E-01
154	LPC(22:5)	1.0514	0.8555	1.2870	6.31E-01	8.95E-01
155	LPC(22:6)	1.0003	0.8164	1.2227	9.98E-01	9.98E-01
156	LPC(24:0)	1.0916	0.8699	1.3654	4.46E-01	8.95E-01
157	LPC(26:0)	1.0137	0.8052	1.2774	9.08E-01	9.82E-01
158	LPC(O-16:0)	1.0166	0.7983	1.2902	8.93E-01	9.81E-01
159	LPC(O-18:0)	1.0329	0.8060	1.3201	7.97E-01	9.54E-01
160	LPC(O-18:1)	1.0320	0.8013	1.3268	8.06E-01	9.62E-01
161	LPC(O-20:0)	0.9186	0.7608	1.1024	3.69E-01	8.95E-01
162	LPC(O-20:1)	0.9021	0.7190	1.1280	3.70E-01	8.95E-01
163	LPC(O-22:0)	1.0417	0.8459	1.2775	6.98E-01	9.28E-01
164	LPC(O-22:1)	1.0101	0.7973	1.2753	9.33E-01	9.87E-01
165	LPC(O-24:0)	1.0572	0.8537	1.3100	6.10E-01	8.95E-01
166	LPC(O-24:1)	1.0520	0.8475	1.3007	6.43E-01	9.01E-01
167	LPC(O-24:2)	1.0036	0.8105	1.2389	9.74E-01	9.97E-01
168	PE(16:0_16:0)	1.2609	0.9996	1.5914	5.06E-02	6.34E-01
169	PE(16:0_16:1)	1.0916	0.8493	1.4036	4.94E-01	8.95E-01
170	PE(16:0_18:1)	1.3155	1.0137	1.7142	<b>4.07E-02</b>	6.34E-01
171	PE(16:0_18:2)	1.2657	0.9924	1.6213	5.98E-02	6.34E-01
172	PE(34:3)	1.1260	0.8862	1.4361	3.35E-01	8.95E-01
173	PE(35:1)	1.1719	0.9243	1.4938	1.95E-01	8.91E-01
174	PE(35:2)	1.1837	0.9410	1.4972	1.55E-01	8.91E-01
175	PE(36:0)	1.0358	0.8289	1.2961	7.58E-01	9.46E-01
176	PE(18:0_18:1)	1.2939	0.9855	1.7092	6.66E-02	6.34E-01
177	PE(36:2)	1.2303	0.9574	1.5912	1.10E-01	7.85E-01
178	PE(36:3)	1.1690	0.9258	1.4822	1.93E-01	8.91E-01
179	PE(16:0_20:4)	1.1627	0.9249	1.4717	2.03E-01	8.91E-01

180	PE(36:5)	1.1054	0.8915	1.3766	3.66E-01	8.95E-01
181	PE(18:0_20:3)	1.0606	0.8256	1.3710	6.49E-01	9.01E-01
182	PE(18:0_20:4)	1.1950	0.9380	1.5348	1.56E-01	8.91E-01
183	PE(38:5)	1.1327	0.9012	1.4326	2.92E-01	8.95E-01
184	PE(16:0_22:6)	1.1170	0.8927	1.4070	3.40E-01	8.95E-01
185	PE(40:4)	1.1527	0.9131	1.4616	2.36E-01	8.95E-01
186	PE(40:5)	1.0245	0.8059	1.3122	8.46E-01	9.71E-01
187	PE(18:0_22:6)	1.0993	0.8744	1.3944	4.26E-01	8.95E-01
188	PE(40:7)	1.1083	0.9001	1.3748	3.41E-01	8.95E-01
189	PE(O-18:0/22:5)	1.0463	0.8515	1.2939	6.72E-01	9.18E-01
190	PE(O-36:3)	1.1319	0.9130	1.4067	2.61E-01	8.95E-01
191	PE(O-38:4)	1.0920	0.8827	1.3567	4.22E-01	8.95E-01
192	PE(O-16:0/20:4)	1.0251	0.8345	1.2614	8.14E-01	9.65E-01
193	PE(O-38:5)	1.0534	0.8582	1.2983	6.22E-01	8.95E-01
194	PE(O-18:1/22:6)	1.0615	0.8679	1.3087	5.69E-01	8.95E-01
195	PE(O-34:1)	1.2709	1.0183	1.5908	<b>3.52E-02</b>	6.34E-01
196	PE(O-16:0/18:2)	1.0079	0.8202	1.2405	9.41E-01	9.87E-01
197	PE(O-36:2)	1.2049	0.9759	1.4933	8.57E-02	6.74E-01
198	PE(O-36:5)	0.9600	0.7765	1.1912	7.09E-01	9.29E-01
199	PE(O-36:6)	0.9729	0.7927	1.1977	7.94E-01	9.54E-01
200	PE(O-18:0/22:6)	1.0644	0.8746	1.3069	5.43E-01	8.95E-01
201	PE(P-34:1)	1.1724	0.9384	1.4705	1.65E-01	8.91E-01
202	PE(P-34:2)	1.0943	0.8881	1.3534	4.02E-01	8.95E-01
203	PE(P-36:4)	1.0786	0.8778	1.3303	4.75E-01	8.95E-01
204	PE(P-38:5)	1.0300	0.8411	1.2691	7.78E-01	9.54E-01
205	PE(P-38:6)	1.0714	0.8762	1.3182	5.08E-01	8.95E-01
206	PE(P-36:1)	1.2151	0.9871	1.5023	6.90E-02	6.34E-01
207	PE(P-36:2)	1.1813	0.9570	1.4646	1.25E-01	8.55E-01
208	PE(P-38:4)	1.1084	0.9014	1.3705	3.35E-01	8.95E-01
209	PE(P-40:5)	1.1193	0.9116	1.3870	2.92E-01	8.95E-01
210	PE(P-40:6)	1.0861	0.8877	1.3386	4.30E-01	8.95E-01
211	PE(P-40:4)	1.1430	0.9326	1.4070	2.03E-01	8.91E-01
212	PE(16:0/0:0)	1.1381	0.8961	1.4445	2.88E-01	8.95E-01
213	PE(18:0/0:0)	1.1173	0.8900	1.4000	3.37E-01	8.95E-01
214	PE(18:1/0:0)	1.1497	0.9181	1.4404	2.24E-01	8.95E-01
215	PE(18:2/0:0)	1.0830	0.8968	1.3183	4.17E-01	8.95E-01
216	PE(20:4/0:0)	1.0472	0.8617	1.2813	6.48E-01	9.01E-01
217	PE(22:6/0:0)	1.0172	0.8289	1.2531	8.72E-01	9.71E-01
218	PI(16:0/16:0)	0.9755	0.7729	1.2308	8.34E-01	9.71E-01
219	PI(16:0_16:1)	1.0042	0.7859	1.2819	9.73E-01	9.97E-01
220	PI(34:0)	1.0368	0.8591	1.2605	7.11E-01	9.29E-01
221	PI(34:1)	1.0477	0.8293	1.3238	6.96E-01	9.28E-01
222	PI(18:0_18:1)	1.1599	0.9236	1.4610	2.05E-01	8.91E-01
223	PI(36:2)	1.0759	0.8550	1.3585	5.36E-01	8.95E-01
224	PI(36:3)	1.1066	0.8713	1.4082	4.08E-01	8.95E-01
225	PI(16:0_20:4)	1.0650	0.8323	1.3669	6.19E-01	8.95E-01
226	PI(18:0_20:2)	1.1971	0.9478	1.5198	1.35E-01	8.74E-01
227	PI(18:0_20:3)	1.2796	0.9980	1.6521	5.51E-02	6.34E-01
228	PI(18:0_20:4)	1.2303	0.9901	1.5431	6.69E-02	6.34E-01
229	PI(38:5)	1.0093	0.8128	1.2572	9.34E-01	9.87E-01
230	PI(38:6)	0.9602	0.7794	1.1859	7.04E-01	9.29E-01
231	PI (40:4)	1.2260	0.9749	1.5488	8.44E-02	6.74E-01
232	PI(18:0_22:5)	1.0252	0.8313	1.2691	8.17E-01	9.65E-01
233	PI(18:0_22:6)	1.1154	0.8995	1.3877	3.23E-01	8.95E-01
234	LPI(18:0)	1.0397	0.7830	1.3780	7.87E-01	9.54E-01
235	LPI(18:1)	1.1745	0.9464	1.4567	1.44E-01	8.78E-01
236	LPI(18:2)	1.1258	0.9053	1.3992	2.86E-01	8.95E-01
237	LPI(20:4)	1.2351	0.9954	1.5301	5.40E-02	6.34E-01
238	PG(34:1)	1.0186	0.7959	1.3035	8.84E-01	9.79E-01
239	PG(36:1)	1.2304	0.9488	1.6061	1.23E-01	8.55E-01
240	PG(36:2)	0.9537	0.7422	1.2297	7.13E-01	9.29E-01

241	COH	1.1117	0.8769	1.4289	3.95E-01	8.95E-01
242	CE(14:0)	0.9858	0.7800	1.2518	9.06E-01	9.82E-01
243	CE(15:0)	0.9793	0.7924	1.2149	8.48E-01	9.71E-01
244	CE(16:0)	1.1630	0.9085	1.5033	2.40E-01	8.95E-01
245	CE(16:1)	1.1432	0.9012	1.4551	2.73E-01	8.95E-01
246	CE(16:2)	1.0876	0.8594	1.3884	4.93E-01	8.95E-01
247	CE(17:0)	0.8357	0.6728	1.0413	1.07E-01	7.85E-01
248	CE(17:1)	1.0983	0.8790	1.3837	4.18E-01	8.95E-01
249	CE(18:0)	0.9315	0.7426	1.1786	5.47E-01	8.95E-01
250	CE(18:1)	1.0983	0.8790	1.3837	4.18E-01	8.95E-01
251	CE(18:2)	1.1798	0.9292	1.5219	1.90E-01	8.91E-01
252	CE(18:3)	1.0630	0.8370	1.3660	6.25E-01	8.95E-01
253	CE(20:1)	1.0184	0.8230	1.2629	8.68E-01	9.71E-01
254	CE(20:2)	1.0759	0.8575	1.3605	5.35E-01	8.95E-01
255	CE(20:3)	1.0076	0.8078	1.2683	9.48E-01	9.87E-01
256	CE(20:4)	1.0990	0.8822	1.3871	4.14E-01	8.95E-01
257	CE(20:5)	1.0562	0.8644	1.3019	6.01E-01	8.95E-01
258	CE(22:0)	1.0985	0.8656	1.3998	4.43E-01	8.95E-01
259	CE(22:1)	1.1462	0.9343	1.4064	1.91E-01	8.91E-01
260	CE(22:4)	1.2284	0.9840	1.5459	7.44E-02	6.66E-01
261	CE(22:5)	1.1166	0.8898	1.4182	3.54E-01	8.95E-01
262	CE(22:6)	1.0804	0.8788	1.3431	4.75E-01	8.95E-01
263	CE(24:0)	1.2100	0.9359	1.5693	1.48E-01	8.84E-01
264	CE(24:1)	1.1784	0.9291	1.5040	1.82E-01	8.91E-01
265	CE(24:4)	1.1330	0.9142	1.4126	2.61E-01	8.95E-01
266	CE(24:5)	1.3033	1.0525	1.6220	<b>1.64E-02</b>	4.39E-01
267	CE(24:6)	1.0681	0.8625	1.3283	5.50E-01	8.95E-01
268	DG(14:0/16:0)	0.9598	0.7784	1.1731	6.95E-01	9.28E-01
269	DG(16:0/16:0)	1.0002	0.8249	1.2043	9.98E-01	9.98E-01
270	DG(14:0/18:1)	1.0287	0.7770	1.3660	8.44E-01	9.71E-01
271	DG(14:0/18:2)	0.9243	0.7152	1.1971	5.49E-01	8.95E-01
272	DG(16:0/18:0)	0.9782	0.8390	1.1322	7.73E-01	9.54E-01
273	DG(16:0/18:1)	1.2575	0.9335	1.7055	1.36E-01	8.74E-01
274	DG(16:1/18:0)	1.0887	0.8245	1.4388	5.50E-01	8.95E-01
275	DG(16:1/18:1)	1.1550	0.8688	1.5445	3.26E-01	8.95E-01
276	DG(16:0/18:2)	1.1686	0.8794	1.5563	2.85E-01	8.95E-01
277	DG(18:0/18:0)	0.9512	0.7912	1.1439	5.95E-01	8.95E-01
278	DG(18:0/18:1)	1.0766	0.8098	1.4342	6.13E-01	8.95E-01
279	DG(18:1/18:1)	1.2378	0.9230	1.6739	1.60E-01	8.91E-01
280	DG(18:0/18:2)	1.0841	0.8138	1.4467	5.82E-01	8.95E-01
281	DG(18:1/18:2)	1.1394	0.8674	1.5056	3.53E-01	8.95E-01
282	DG(16:0/20:3)	1.1015	0.8309	1.4668	5.05E-01	8.95E-01
283	DG(18:2/18:2)	1.0136	0.7958	1.2899	9.13E-01	9.82E-01
284	DG(18:1/18:3)	1.0729	0.8295	1.3932	5.95E-01	8.95E-01
285	DG(16:0/20:4)	1.0795	0.8313	1.4075	5.69E-01	8.95E-01
286	DG(18:1/20:0)	1.0316	0.8509	1.2456	7.49E-01	9.42E-01
287	DG(18:1/20:3)	1.0983	0.8616	1.4063	4.53E-01	8.95E-01
288	DG(18:0/20:4)	1.1129	0.8772	1.4134	3.80E-01	8.95E-01
289	DG(18:1/20:4)	1.0358	0.8174	1.3190	7.73E-01	9.54E-01
290	DG(16:0/22:5)	1.0957	0.8829	1.3771	4.20E-01	8.95E-01
291	DG(16:0/22:6)	1.0717	0.8578	1.3431	5.45E-01	8.95E-01
292	TG(48:0)	1.0492	0.8092	1.3587	7.16E-01	9.30E-01
293	TG(48:1)	1.0029	0.7782	1.2987	9.82E-01	9.97E-01
294	TG(48:2)	1.0230	0.7905	1.3313	8.64E-01	9.71E-01
295	TG(48:3)	1.0139	0.7902	1.3062	9.14E-01	9.82E-01
296	TG(49:1)	0.9594	0.7556	1.2227	7.35E-01	9.42E-01
297	TG(50:0)	1.0232	0.7793	1.3420	8.69E-01	9.71E-01
298	TG(50:1)	1.1047	0.8573	1.4322	4.47E-01	8.95E-01
299	TG(50:2)	1.1750	0.9122	1.5288	2.21E-01	8.95E-01
300	TG(50:3)	1.0852	0.8437	1.4140	5.35E-01	8.95E-01
301	TG(50:4)	1.0657	0.8336	1.3779	6.19E-01	8.95E-01

302	TG(51:1)	1.0286	0.8004	1.3303	8.28E-01	9.71E-01
303	TG(51:2)	1.0415	0.8206	1.3328	7.42E-01	9.42E-01
304	TG(52:1)	1.1304	0.8605	1.4981	3.86E-01	8.95E-01
305	TG(52:2)	1.1771	0.9274	1.5128	1.92E-01	8.91E-01
306	TG(52:3)	1.1170	0.8877	1.4211	3.57E-01	8.95E-01
307	TG(52:4)	1.1682	0.9197	1.4975	2.11E-01	8.95E-01
308	TG(53:2)	1.0410	0.8239	1.3272	7.41E-01	9.42E-01
309	TG(54:0)	0.9776	0.8073	1.1879	8.18E-01	9.65E-01
310	TG(54:1)	1.1567	0.8874	1.5107	2.83E-01	8.95E-01
311	TG(54:2)	1.2817	0.9876	1.6781	6.66E-02	6.34E-01
312	TG(54:3)	1.1407	0.9162	1.4274	2.44E-01	8.95E-01
313	TG(54:4)	1.1583	0.9221	1.4633	2.12E-01	8.95E-01
314	TG(54:5)	1.1604	0.9199	1.4726	2.15E-01	8.95E-01
315	TG(54:6)	1.1032	0.8738	1.4005	4.14E-01	8.95E-01
316	TG(56:6)	1.0968	0.8776	1.3824	4.25E-01	8.95E-01

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**Supplementary Table 6.** Coefficients and p-values of a logistic regression model to detect AF

	<b>Coefficient</b>	<b>Odds Ratio</b>	<b>lower CI</b>	<b>upper CI</b>	<b>P-value</b>
(Intercept)	-9.155	0.0001	0.00001	0.00147	1.12E-11
Q_WAVES	0.061	1.0634	0.77524	1.43692	6.96E-01
Antihypertensive	0.920	2.5099	1.76694	3.67343	7.66E-07
SBP	-0.003	0.9968	0.99025	1.00321	3.26E-01
DBP	0.010	1.0097	0.99692	1.02265	1.36E-01
HF	1.489	4.4325	3.13331	6.22546	1.67E-17
smoking	-0.175	0.8397	0.59119	1.16828	3.14E-01
AGE	0.050	1.0510	1.03252	1.06981	3.93E-08
WEIGHT	0.008	1.0081	1.00052	1.01557	3.40E-02
HEIGHT	0.013	1.0127	0.99971	1.02600	5.59E-02
<b>TRIGLYC</b>	-0.084	0.9193	0.81818	1.02296	<b>1.40E-01</b>
<b>HDL_CHOL</b>	-0.239	0.7875	0.54236	1.08592	<b>1.87E-01</b>
<b>TOTAL_CHOL</b>	0.020	1.0199	0.91415	1.13266	<b>7.20E-01</b>