

Supplementary Table S3: Multivariable adjusted Odds Ratio (OR) ‡ and 95% confidence interval (CI) of colorectal cancer by red blood cell fatty acid composition (continuous variable), stratified by sex and smoking status

Fatty acids	Men		Women		P het*	Never smoker		Former smoker		Current smoker		P het*
	OR (95%CI)	P-value ^{\$}	OR (95%CI)	P-value ^{\$}		OR (95%CI)	P-value ^{\$}	OR (95%CI)	P-value ^{\$}	OR (95%CI)	P-value ^{\$}	
Saturated fatty acids												
C14:0	2.28 (0.76; 6.87)	0.143	0.61 (0.21; 1.81)	0.374	0.251	1.41 (0.60; 3.29)	0.427	0.82 (0.36; 1.90)	0.651	1.16 (0.43; 3.14)	0.766	0.370
C16:0	1.17 (0.99; 1.38)	0.067	0.91 (0.76; 1.08)	0.265	0.131	0.99 (0.87; 1.13)	0.897	0.94 (0.82; 1.08)	0.397	1.13 (0.99; 1.29)	0.074	0.351
C18:0	1.27 (1.04; 1.55)	0.022	1.21 (0.98; 1.48)	0.074	0.975	1.08 (0.93; 1.25)	0.323	1.08 (0.92; 1.26)	0.356	1.14 (0.95; 1.36)	0.167	0.818
SFA, total	1.17 (1.03; 1.33)	0.018	1.10 (0.96; 1.26)	0.175	0.624	1.03 (0.95; 1.12)	0.426	0.99 (0.90; 1.09)	0.800	1.10 (1.01; 1.19)	0.033	0.307
Odd-chain fatty acids												
C15:0	0.57 (0.14; 2.32)	0.431	1.17 (0.31; 4.43)	0.816	0.714	0.80 (0.37; 1.72)	0.569	1.11 (0.55; 2.26)	0.768	1.09 (0.38; 3.13)	0.876	0.650
C17:0§	0.16 (0.02; 1.22)	0.077	0.08 (0.01; 0.76)	0.028	0.956	0.52 (0.09; 2.94)	0.459	0.53 (0.09; 3.22)	0.490	0.13 (0.01; 1.16)	0.068	0.370
Monounsaturated fatty acids												
C16:1n7c	1.31 (0.67; 2.59)	0.431	0.71 (0.33; 1.55)	0.391	0.294	1.15 (0.64; 2.06)	0.643	0.84 (0.47; 1.48)	0.541	1.21 (0.64; 2.27)	0.561	0.756
C18:1n9c	1.04 (0.93; 1.16)	0.484	0.95 (0.84; 1.07)	0.371	0.578	1.02 (0.93; 1.11)	0.722	0.99 (0.90; 1.09)	0.835	0.98 (0.89; 1.09)	0.758	0.970
MUFA, total	1.01 (0.92; 1.10)	0.864	0.96 (0.87; 1.05)	0.367	0.686	1.00 (0.93; 1.07)	0.990	0.98 (0.91; 1.06)	0.634	1.00 (0.92; 1.08)	0.967	0.394
n-6 Polyunsaturated fatty acids												
C18:2n6c	0.94 (0.86; 1.04)	0.230	1.01 (0.92; 1.11)	0.769	0.440	1.00 (0.93; 1.07)	0.968	0.98 (0.91; 1.06)	0.645	0.99 (0.90; 1.08)	0.739	0.818
C20:3n6	1.18 (0.81; 1.72)	0.399	0.75 (0.51; 1.11)	0.153	0.353	1.01 (0.75; 1.35)	0.954	0.90 (0.66; 1.22)	0.490	1.02 (0.67; 1.56)	0.928	0.710
C20:4n6§	1.05 (0.95; 1.16)	0.347	1.11 (0.98; 1.24)	0.089	0.796	1.03 (0.95; 1.12)	0.432	1.03 (0.95; 1.12)	0.465	1.03 (0.92; 1.14)	0.610	0.891
C22:4n6	1.19 (0.94; 1.51)	0.141	1.26 (0.99; 1.61)	0.062	0.790	1.09 (0.91; 1.31)	0.344	1.01 (0.85; 1.21)	0.895	1.21 (0.94; 1.56)	0.141	0.142
n-6 PUFA, total§	1.01 (0.95; 1.07)	0.756	1.05 (0.98; 1.12)	0.160	0.622	1.01 (0.97; 1.06)	0.531	1.00 (0.95; 1.05)	0.941	1.01 (0.96; 1.07)	0.661	0.903
n-3 Polyunsaturated fatty acids												
C18:3n3	1.15 (0.26; 5.09)	0.855	0.63 (0.08; 5.24)	0.669	0.508	1.63 (0.41; 6.56)	0.491	0.99 (0.26; 3.74)	0.993	0.60 (0.12; 3.01)	0.532	0.095
C20:5n3	0.74 (0.57; 0.97)	0.031	0.74 (0.55; 1.00)	0.049	0.847	0.87 (0.69; 1.11)	0.256	0.99 (0.81; 1.22)	0.922	0.66 (0.48; 0.90)	0.009	0.012
C22:5n3	0.92 (0.63; 1.32)	0.638	0.86 (0.57; 1.31)	0.494	0.757	1.01 (0.75; 1.36)	0.966	0.91 (0.68; 1.22)	0.545	0.79 (0.53; 1.16)	0.227	0.170
C22:6n3§	0.92 (0.82; 1.04)	0.195	0.89 (0.79; 1.02)	0.084	0.799	0.93 (0.84; 1.02)	0.114	1.04 (0.94; 1.14)	0.452	0.91 (0.80; 1.03)	0.121	0.313
n-3 PUFA, total	0.94 (0.86; 1.01)	0.103	0.92 (0.84; 1.00)	0.052	0.718	0.95 (0.89; 1.02)	0.158	1.01 (0.95; 1.08)	0.736	0.91 (0.84; 0.99)	0.034	0.084

^a sum of C14:0, C16:0, C18:0, C20:0; ^b sum of C16:1n7c, C18:1n9c, C18:1n7c, C20:1n9c; ^c sum of C18:2n6c, C18:3n6, C20:2n6, C20:3n6, C20:4n6, C22:4n6; ^d sum of C18:3n3, C20:5n3, C22:5n3, C22:6n3; § log-transformed; \$ Wald test statistics; * P heterogeneity; ‡ conditional logistic regression adjusted for BMI, education, physical activity, alcohol intake, history of diabetes, and season of blood collection