

Variable **Subgroup** **Group** **Model1 (Beta (95% CI))** **Model2 (Beta (95% CI))** **Model3 (Beta (95% CI))** **Interaction P**

Docosahexaenoic acid	Age	<53	-0.119 (-0.257 to -0.001)	-0.100 (-0.238 to 0.038)	0.256	0.307	63
Docosahexaenoic acid	Age	≥53	-0.051 (-0.085 to -0.017)	-0.069 (-0.062 to 0.004)	0.117	0.307	66
Docosahexaenoic acid	Sex	Female	-0.043 (-0.082 to 0.007)	-0.062 (-0.009 to 0.013)	0.197	0.289	42
Docosahexaenoic acid	Sex	Male	-0.081 (-0.136 to -0.026)	-0.084 (-0.004 to 0.008)	0.091	0.289	29
Docosahexaenoic acid	Smoking	Non-smoker	0.063 (-0.041 to 0.003)	0.003 (-0.006 to 0.008)	0.111	0.445	45
Docosahexaenoic acid	Smoking	Smoker	-0.037 (-0.092 to 0.018)	-0.076 (-0.007 to 0.032)	0.433	0.445	27
Linoleic acid	Age	<53	-0.051 (-0.162 to 0.060)	-0.035 (-0.035 to 0.046)	0.705	0.731	63
Linoleic acid	Age	≥53	-0.045 (-0.073 to -0.012)	-0.047 (-0.047 to 0.002)	0.574	0.731	66
Linoleic acid	Sex	Female	-0.004 (-0.030 to 0.022)	0.049 (-0.048 to 0.058)	0.540	0.002	42
Linoleic acid	Sex	Male	-0.106 (-0.155 to -0.057)	-0.020 (-0.020 to 0.009)	0.101	0.002	29
Linoleic acid	Smoking	Non-smoker	0.052 (-0.023 to 0.002)	0.002 (-0.053 to 0.003)	0.434	0.499	45
Linoleic acid	Smoking	Smoker	-0.029 (-0.082 to 0.023)	-0.023 (-0.023 to 0.066)	0.686	0.499	27
Monounsaturated fatty acids	Age	<53	0.027 (-0.134 to 0.188)	0.004 (-0.150 to 0.004)	0.502	0.955	63
Monounsaturated fatty acids	Age	≥53	0.010 (-0.026 to 0.039)	0.009 (-0.029 to 0.045)	0.649	0.955	66
Monounsaturated fatty acids	Sex	Female	0.024 (-0.020 to 0.069)	0.029 (-0.029 to 0.056)	0.707	0.107	42
Monounsaturated fatty acids	Sex	Male	0.020 (-0.022 to 0.061)	0.003 (-0.053 to 0.026)	0.826	0.107	29
Monounsaturated fatty acids	Smoking	Non-smoker	0.016 (-0.053 to 0.075)	0.008 (-0.052 to 0.026)	0.422	0.107	45
Monounsaturated fatty acids	Smoking	Smoker	0.041 (-0.043 to 0.094)	0.024 (-0.023 to 0.092)	0.220	0.107	27
Omega 3 fatty acid	Age	<53	-0.108 (-0.229 to -0.009)	-0.028 (-0.028 to 0.002)	0.126	0.271	63
Omega 3 fatty acid	Age	≥53	-0.036 (-0.072 to 0.002)	-0.052 (-0.052 to 0.016)	0.289	0.271	66
Omega 3 fatty acid	Sex	Female	-0.025 (-0.064 to 0.013)	-0.028 (-0.028 to 0.022)	0.394	0.178	42
Omega 3 fatty acid	Sex	Male	-0.071 (-0.126 to -0.016)	-0.021 (-0.021 to 0.009)	0.109	0.178	29
Omega 3 fatty acid	Smoking	Non-smoker	0.053 (-0.043 to 0.003)	0.002 (-0.072 to 0.006)	0.147	0.283	45
Omega 3 fatty acid	Smoking	Smoker	-0.017 (-0.070 to 0.036)	-0.055 (-0.055 to 0.009)	0.649	0.283	27
Omega 6 fatty acid	Age	<53	-0.060 (-0.175 to 0.054)	-0.020 (-0.020 to 0.025)	0.940	0.888	63
Omega 6 fatty acid	Age	≥53	-0.048 (-0.082 to -0.014)	-0.045 (-0.045 to 0.020)	0.453	0.888	66
Omega 6 fatty acid	Sex	Female	-0.008 (-0.052 to 0.036)	0.025 (-0.025 to 0.052)	0.743	0.002	42
Omega 6 fatty acid	Sex	Male	-0.112 (-0.163 to -0.061)	-0.030 (-0.030 to 0.009)	0.077	0.002	29
Omega 6 fatty acid	Smoking	Non-smoker	0.056 (-0.047 to 0.003)	0.003 (-0.063 to 0.022)	0.324	0.477	45
Omega 6 fatty acid	Smoking	Smoker	-0.032 (-0.082 to 0.020)	-0.024 (-0.024 to 0.063)	0.832	0.477	27
Polyunsaturated fatty acids	Age	<53	-0.079 (-0.194 to 0.136)	0.000 (-0.169 to 0.096)	0.739	0.867	63
Polyunsaturated fatty acids	Age	≥53	-0.051 (-0.084 to -0.017)	-0.052 (-0.052 to 0.008)	0.349	0.867	66
Polyunsaturated fatty acids	Sex	Female	-0.015 (-0.059 to 0.029)	0.004 (-0.045 to 0.043)	1.000	0.004	42
Polyunsaturated fatty acids	Sex	Male	-0.115 (-0.166 to -0.063)	-0.000 (-0.000 to 0.000)	0.058	0.004	29
Polyunsaturated fatty acids	Smoking	Non-smoker	0.063 (-0.031 to 0.092)	0.002 (-0.082 to 0.065)	0.217	0.359	45
Polyunsaturated fatty acids	Smoking	Smoker	-0.032 (-0.082 to 0.020)	-0.023 (-0.023 to 0.053)	0.964	0.359	27

