

Supplementary Table 1. AA/EPA according to FIB-4 risk categories

FIB-4 category ^a	Participant (n)	AA/EPA	AA/EPA
<1.3	201	11.98±6.54	9.99 (7.10–15.70)
1.3–2.67	171	9.25±6.40	7.48 (4.89–11.50)
≥2.67	20	8.44±4.37	7.00 (5.96–8.54)

Values are presented as number only, mean±standard deviation, or median (interquartile range).

AA/EPA, arachidonic acid-to-eicosapentaenoic acid ratio; FIB-4, fibrosis-4 index.

^aFIB-4 categories were defined as low risk (<1.3), intermediate risk (1.3–2.67), and high risk (≥2.67). Overall group difference was assessed using the Kruskal-Wallis test ($P=7.13\times10^{-7}$), and trend across ordered FIB-4 categories was assessed using Spearman correlation ($\rho=-0.265$, $P=9.70\times10^{-8}$). Pairwise comparisons were performed using Wilcoxon rank-sum tests with Holm adjustment; adjusted P -values were 1.22×10^{-6} for <1.3 vs. 1.3–2.67, 0.0159 for <1.3 vs. ≥2.67, and 0.993 for 1.3–2.67 vs. ≥2.67.