

Table S1. Plasma concentration of TMAO, choline and betaine (μM) in first-time myocardial infarction (cases) and controls measured at four time points.

	Cases	Controls	P
TMAO-T1	3.71 (2.42-5.48)	3.29 (1.96-4.74)	0.093
TMAO-T2	3.59 (2.63-6.04)	3.70 (2.55-5.37)	0.503
TMAO-T3	4.00 (2.89-6.16)	4.19 (2.40-6.35)	0.619
TMAO-T4	3.63 (2.74-7.60)	4.16 (2.67-6.31)	0.701
AUC TMAO	13.1 (9.61-19.3)	12.9 (8.93-18.0)	0.519
Choline-T1	8.16 (7.01-9.87)	8.47 (7.15-10.2)	0.596
Choline-T2	9.33 (8.26-11.1)	9.66 (8.27-11.2)	0.727
Choline-T3	9.85 (8.13-12.5)	10.1 (8.55-12.9)	0.424
Choline-T4	10.8 (8.59-11.9)	10.8 (8.89-12.7)	0.773
AUC Choline	29.2 (26.4-34.3)	29.9 (26.7-35.2)	0.556
Betaine-T1	33.7 (27.2-45.2)	38.5 (28.1-47.8)	0.155
Betaine-T2	29.9 (24.2-38.5)	32.2 (25.0-40.3)	0.583
Betaine-T3	29.6 (23.3-37.7)	31.7 (25.5-39.6)	0.113
Betaine-T4	29.9 (22.8-34.8)	32.2 (25.9-40.0)	0.052
AUC Betaine	95.4 (78.4-114)	101 (83.4-121)	0.139

Data as medians (interquartile range), compared with Mann Whitney U test. Time points (T): 1: Before initiation of ART, 2: Three months after initiation of ART, 3: One year before the case's MI or similar time point for controls, and 4: The last sample available (sample collected median 51, range 0-239 days before MI) or similar time point for controls. AUC, area under the curve.