

Table S3 Multiple linear regression analysis for IMT and PS in men.

| Variables | IMT | | | | | | PS | | | | | |
|-------------|---------|-------|------------------|--------|---------|-------|---------|-------|------------------|--------|---------|-------|
| | β | SE | Standard β | t | p-value | VIF | β | SE | Standard β | t | p-value | VIF |
| Carnitine | -0.007 | 0.009 | -0.075 | -0.825 | 0.411 | 1.221 | -0.078 | 0.043 | -0.159 | -1.796 | 0.075 | 1.221 |
| γ BB | 0.281 | 0.432 | 0.062 | 0.650 | 0.517 | 1.325 | 2.091 | 2.080 | 0.093 | 1.006 | 0.316 | 1.325 |
| TMAO | 0.009 | 0.007 | 0.125 | 1.267 | 0.207 | 1.424 | 0.060 | 0.036 | 0.159 | 1.668 | 0.098 | 1.424 |
| TML | -0.547 | 0.313 | -0.163 | -1.746 | 0.083 | 1.293 | -3.145 | 1.508 | -0.190 | -2.086 | 0.040 | 1.293 |
| Age | 0.029 | 0.010 | 0.268 | 2.832 | 0.005 | 1.319 | 0.138 | 0.049 | 0.257 | 2.793 | 0.006 | 1.319 |
| BMI | -0.024 | 0.026 | -0.084 | -0.921 | 0.359 | 1.221 | -0.187 | 0.127 | -0.130 | -1.465 | 0.145 | 1.221 |
| DL | 0.176 | 0.191 | 0.085 | 0.922 | 0.358 | 1.252 | 1.587 | 0.920 | 0.155 | 1.725 | 0.087 | 1.252 |
| DM | 0.073 | 0.221 | 0.031 | 0.329 | 0.743 | 1.276 | -0.119 | 1.063 | -0.010 | -0.112 | 0.911 | 1.276 |
| HT | 0.153 | 0.179 | 0.079 | 0.857 | 0.393 | 1.261 | 1.078 | 0.860 | 0.113 | 1.254 | 0.212 | 1.261 |
| Drinker | 0.112 | 0.163 | 0.061 | 0.685 | 0.495 | 1.151 | -0.107 | 0.786 | -0.012 | -0.136 | 0.892 | 1.151 |
| Smoker | 0.020 | 0.288 | 0.006 | 0.068 | 0.946 | 1.123 | -0.199 | 1.387 | -0.012 | -0.144 | 0.886 | 1.123 |
| Area #1 | 0.019 | 0.171 | 0.010 | 0.108 | 0.914 | 1.283 | -0.238 | 0.825 | -0.026 | -0.289 | 0.773 | 1.283 |

#1. 0=Kakeya and 1=Oki island