**Supplemental Table 5**. Changes in serum fatty acids (FA) % from the time of consultation for the acute episode to >1 year post-convalescence in 44 participants by case status1

|  | Controls (n=29) |  | Cases (n=15) | *P*4 |
| --- | --- | --- | --- | --- |
| Fatty acid2 | Acute dengue episode | Post-convalescence | *P*3 |  | Acute dengue episode | Post-convalescence | *P*3 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SFAs (%) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  14:0 myristic acid | 0.32 | ± | 0.15 | 0.56 | ± | 0.29 | 0.0001 |  | 0.32 | ± | 0.16 | 0.60 | ± | 0.27 | <0.0001 | 0.71 |
|  15:0 pentadecanoic acid | 0.15 | ± | 0.03 | 0.18 | ± | 0.06 | 0.06 |  | 0.16 | ± | 0.06 | 0.17 | ± | 0.04 | 0.22 | 0.54 |
|  16:0 palmitic acid | 23.26 | ± | 1.97 | 22.31 | ± | 2.26 | 0.07 |  | 23.53 | ± | 2.25 | 22.03 | ± | 1.93 | 0.04 | 0.53 |
|  17:0 margaric acid | 0.34 | ± | 0.04 | 0.33 | ± | 0.07 | 0.93 |  | 0.36 | ± | 0.06 | 0.33 | ± | 0.07 | 0.04 | 0.10 |
|  18:0 stearic acid | 7.82 | ± | 0.81 | 8.15 | ± | 0.96 | 0.13 |  | 8.12 | ± | 0.72 | 8.50 | ± | 1.02 | 0.25 | 0.91 |
|  20:0 arachidic acid | 0.13 | ± | 0.04 | 0.16 | ± | 0.06 | 0.03 |  | 0.15 | ± | 0.03 | 0.21 | ± | 0.09 | 0.01 | 0.33 |
|  22:0 behenic acid | 0.27 | ± | 0.10 | 0.35 | ± | 0.14 | 0.01 |  | 0.32 | ± | 0.12 | 0.36 | ± | 0.10 | 0.29 | 0.40 |
|  24:0 lignoceric acid | 0.19 | ± | 0.15 | 0.25 | ± | 0.18 | 0.22 |  | 0.14 | ± | 0.19 | 0.33 | ± | 0.13 | 0.005 | 0.11 |
|  Total SFAs | 32.49 | ± | 2.32 | 32.12 | ± | 2.49 | 0.53 |  | 33.07 | ± | 2.31 | 32.19 | ± | 2.41 | 0.25 | 0.59 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MUFAs (%) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  16:1n-7 palmitoleic acid | 1.56 | ± | 0.59 | 1.82 | ± | 0.59 | 0.04 |  | 1.77 | ± | 0.38 | 1.88 | ± | 0.60 | 0.42 | 0.43 |
|  18:1n-9 oleic acid | 23.61 | ± | 2.73 | 19.80 | ± | 2.58 | <0.0001 |  | 24.62 | ± | 3.48 | 18.89 | ± | 2.46 | <0.0001 | 0.08 |
|  18:1n-7 *cis*-vaccenic acid | 1.91 | ± | 0.49 | 1.70 | ± | 0.40 | 0.03 |  | 2.08 | ± | 0.49 | 1.99 | ± | 0.43 | 0.52 | 0.45 |
|  20:1n-9 gondoic acid | 0.20 | ± | 0.09 | 0.17 | ± | 0.05 | 0.04 |  | 0.23 | ± | 0.06 | 0.18 | ± | 0.04 | 0.005 | 0.39 |
|  24:1n-9 nervonic acid | 0.30 | ± | 0.19 | 0.23 | ± | 0.22 | 0.14 |  | 0.20 | ± | 0.21 | 0.13 | ± | 0.09 | 0.20 | 0.97 |
|  Total MUFAs | 27.67 | ± | 3.23 | 23.75 | ± | 2.99 | <0.0001 |  | 28.95 | ± | 3.86 | 23.08 | ± | 2.65 | <0.0001 | 0.12 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| n-3 PUFAs (%) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  18:3n-3 α-linolenic acid | 0.37 | ± | 0.13 | 0.47 | ± | 0.17 | 0.005 |  | 0.37 | ± | 0.10 | 0.54 | ± | 0.14 | 0.0003 | 0.27 |
|  20:5n-3 EPA | 0.24 | ± | 0.12 | 0.34 | ± | 0.15 | 0.02 |  | 0.34 | ± | 0.21 | 0.35 | ± | 0.15 | 0.76 | 0.16 |
|  22:5n-3 DPA | 0.37 | ± | 0.13 | 0.46 | ± | 0.12 | 0.01 |  | 0.49 | ± | 0.22 | 0.55 | ± | 0.15 | 0.35 | 0.61 |
|  22:6n-3 DHA | 1.95 | ± | 1.16 | 1.66 | ± | 0.52 | 0.22 |  | 1.87 | ± | 0.66 | 1.67 | ± | 0.44 | 0.37 | 0.79 |
|  Total long chain n-3 PUFAs5 | 2.56 | ± | 1.23 | 2.46 | ± | 0.64 | 0.69 |  | 2.71 | ± | 0.79 | 2.57 | ± | 0.56 | 0.61 | 0.93 |
|  Total n-3 PUFAs | 3.09 | ± | 1.25 | 3.05 | ± | 0.65 | 0.88 |  | 3.18 | ± | 0.77 | 3.20 | ± | 0.57 | 0.94 | 0.88 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| n-6 PUFAs (%) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  18:2n-6 linoleic acid | 27.33 | ± | 4.01 | 29.68 | ± | 4.18 | 0.0004 |  | 25.65 | ± | 4.00 | 28.85 | ± | 4.42 | 0.02 | 0.56 |
|  18:3n-6 γ-linolenic acid | 0.10 | ± | 0.06 | 0.26 | ± | 0.23 | 0.0006 |  | 0.12 | ± | 0.09 | 0.32 | ± | 0.30 | 0.005 | 0.65 |
|  20:2n-6 EDA | 0.21 | ± | 0.13 | 0.22 | ± | 0.12 | 0.78 |  | 0.20 | ± | 0.07 | 0.25 | ± | 0.09 | 0.18 | 0.44 |
|  20:3n-6 dihomo-γ-linolenic acid | 1.24 | ± | 0.38 | 1.80 | ± | 0.41 | <0.0001 |  | 1.24 | ± | 0.34 | 1.78 | ± | 0.48 | <0.0001 | 0.90 |
|  20:4n-6 arachidonic acid | 6.11 | ± | 1.32 | 6.77 | ± | 1.47 | 0.04 |  | 6.04 | ± | 1.34 | 6.99 | ± | 1.06 | 0.01 | 0.53 |
|  22:4n-6 adrenic acid | 0.35 | ± | 0.23 | 1.15 | ± | 1.18 | 0.0007 |  | 0.56 | ± | 0.71 | 1.84 | ± | 1.24 | 0.0005 | 0.23 |
|  Total long chain n-6 PUFAs6 | 7.92 | ± | 1.42 | 9.93 | ± | 2.29 | 0.0002 |  | 8.03 | ± | 1.61 | 10.86 | ± | 2.15 | <0.0001 | 0.22 |
|  Total n-6 PUFAs | 35.35 | ± | 4.65 | 39.88 | ± | 4.48 | <0.0001 |  | 33.8 | ± | 4.83 | 40.03 | ± | 3.72 | 0.0001 | 0.32 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18:2n-7*ct* CLA (%) | 0.07 | ± | 0.07 | 0.07 | ± | 0.07 | 0.68 |  | 0.05 | ± | 0.03 | 0.14 | ± | 0.25 | 0.14 | 0.18 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *trans*-FA (%) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  16:1n-7 *trans* | 0.29 | ± | 0.36 | 0.20 | ± | 0.06 | 0.21 |  | 0.19 | ± | 0.11 | 0.22 | ± | 0.09 | 0.36 | 0.12 |
|  18:1 *trans* | 0.59 | ± | 0.70 | 0.48 | ± | 0.19 | 0.40 |  | 0.41 | ± | 0.18 | 0.62 | ± | 0.70 | 0.26 | 0.16 |
|  18:2 *trans* | 0.46 | ± | 0.44 | 0.44 | ± | 0.12 | 0.87 |  | 0.34 | ± | 0.13 | 0.52 | ± | 0.30 | 0.05 | 0.13 |
|  Total *trans*-FA | 1.34 | ± | 1.20 | 1.13 | ± | 0.28 | 0.34 |  | 0.94 | ± | 0.33 | 1.36 | ± | 1.05 | 0.15 | 0.09 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Enzyme activity indices |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  Stearoyl-coA-desaturase 18:1n-9/18:0 | 3.05 | ± | 0.47 | 2.47 | ± | 0.48 | <0.0001 |  | 3.06 | ± | 0.54 | 2.26 | ± | 0.40 | <0.0001 | 0.25 |
|  Elongase 18:1n-7/16:1n-7 | 1.57 | ± | 1.25 | 1.01 | ± | 0.38 | 0.01 |  | 1.21 | ± | 0.30 | 1.13 | ± | 0.32 | 0.37 | 0.04 |
|  Δ6-desaturase 18:3n-6/18:2n-6 | 0.004 | ± | 0.002 | 0.009 | ± | 0.009 | 0.003 |  | 0.005 | ± | 0.003 | 0.012 | ± | 0.012 | 0.01 | 0.59 |
|  Δ5-desaturase 20:4n-6/20:3n-6 | 5.27 | ± | 2.39 | 3.90 | ± | 1.05 | 0.003 |  | 5.08 | ± | 1.24 | 4.16 | ± | 1.06 | 0.0002 | 0.36 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Footnotes to Supplemental Table 5**

1 Mean ± SD.

2 SFA, saturated fatty acid; MUFA, monounsaturated fatty acid; PUFA, polyunsaturated fatty acid; EPA, eicosapentaenoic acid; DPA, docosapentaenoic acid; DHA, docosahexaenoic acid; EDA, eicosadienoic acid; CLA, conjugated linoleic acid.

3 Wald test for the mean change in FA percentage weight concentrations from the acute episode to post-convalescence, from a repeated measurements linear regression model with an independent covariance matrix to account for the intra-subject correlation of measurements.

4 Wald test for case-control differences in mean change in FA percentage weight concentrations from the acute episode to post-convalescence.

5 Sum of 20:5n-3 EPA, 22:5n-3 DPA, and 22:6n-3 DHA.

6 Sum of 20:2n-6 EDA, 20:3n-6 dihomo-γ-linolenic acid, 20:4n-6 arachidonic acid, and 22:4n-6 adrenic acid.