**Supplemental Table 2**. Spearman correlations of serum fatty acids (FA) % with cytokine concentrations at the time of dengue fever diagnosis and >1 y post-convalescence.

|  | At the time of dengue fever diagnosis |  | >1 y post-convalescence(n=44) |
| --- | --- | --- | --- |
| Fatty acid1 | Controls (n=245) |  | Cases (n=109) |  |
|  | IFN-γ | IL-10 | IL-6 | TNF-α |  | IFN-γ | IL-10 | IL-6 | TNF-α |  | IFN-γ | IL-10 | IL-6 | TNF-α |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SFAs  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  14:0 myristic acid | -0.02 |  | 0.05 |  | 0.00 |  | 0.00 |  |  | 0.06 |  | 0.11 |  | 0.00 |  | 0.26 | \* |  | 0.06 |  | 0.21 |  | 0.08 |  | -0.01 |  |
|  15:0 pentadecanoic acid | 0.04 |  | 0.03 |  | 0.08 |  | 0.05 |  |  | -0.03 |  | 0.09 |  | -0.10 |  | 0.09 |  |  | 0.01 |  | 0.04 |  | 0.02 |  | 0.19 |  |
|  16:0 palmitic acid | -0.02 |  | 0.20 | \* | -0.03 |  | 0.12 |  |  | 0.07 |  | 0.26 | \* | -0.16 |  | 0.17 |  |  | 0.08 |  | 0.16 |  | -0.08 |  | -0.24 |  |
|  17:0 margaric acid | -0.06 |  | -0.09 |  | -0.01 |  | 0.06 |  |  | -0.30 | \* | 0.04 |  | -0.03 |  | -0.17 |  |  | 0.11 |  | 0.13 |  | 0.16 |  | 0.41 | \* |
|  18:0 stearic acid | -0.09 |  | -0.07 |  | -0.07 |  | -0.02 |  |  | -0.16 |  | -0.14 |  | 0.01 |  | 0.05 |  |  | -0.06 |  | -0.03 |  | -0.10 |  | 0.20 |  |
|  20:0 arachidic acid | 0.04 |  | 0.01 |  | 0.04 |  | -0.14 | \* |  | 0.03 |  | -0.20 | \* | 0.01 |  | 0.13 |  |  | -0.08 |  | 0.01 |  | -0.15 |  | 0.01 |  |
|  22:0 behenic acid | 0.07 |  | -0.02 |  | -0.03 |  | -0.02 |  |  | -0.02 |  | -0.14 |  | -0.15 |  | 0.08 |  |  | -0.25 |  | -0.04 |  | -0.15 |  | -0.18 |  |
|  24:0 lignoceric acid | 0.07 |  | -0.03 |  | -0.03 |  | 0.00 |  |  | 0.17 |  | -0.04 |  | 0.01 |  | 0.02 |  |  | -0.25 |  | -0.11 |  | -0.18 |  | -0.05 |  |
|  Total SFAs | -0.06 |  | 0.12 |  | -0.06 |  | 0.09 |  |  | -0.03 |  | 0.12 |  | -0.10 |  | 0.16 |  |  | 0.06 |  | 0.15 |  | -0.13 |  | -0.16 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MUFAs (%) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  16:1n-7 palmitoleic acid | 0.05 |  | 0.02 |  | 0.09 |  | 0.08 |  |  | -0.07 |  | 0.12 |  | 0.12 |  | 0.22 | \* |  | 0.06 |  | 0.13 |  | 0.02 |  | 0.12 |  |
|  18:1n-9 oleic acid | 0.06 |  | 0.34 | \* | 0.13 |  | 0.25 | \* |  | 0.04 |  | 0.44 | \* | 0.05 |  | -0.07 |  |  | -0.08 |  | 0.00 |  | 0.05 |  | 0.15 |  |
|  18:1n-7 *cis*-vaccenic acid | 0.06 |  | 0.07 |  | 0.07 |  | 0.19 | \* |  | 0.07 |  | 0.24 | \* | -0.14 |  | 0.07 |  |  | -0.14 |  | 0.02 |  | 0.15 |  | 0.06 |  |
|  20:1n-9 gondoic acid | 0.06 |  | 0.26 | \* | 0.17 | \* | 0.07 |  |  | -0.03 |  | 0.23 | \* | -0.05 |  | 0.07 |  |  | -0.11 |  | 0.20 |  | 0.00 |  | 0.12 |  |
|  24:1n-9 nervonic acid | 0.05 |  | -0.01 |  | 0.04 |  | 0.02 |  |  | 0.13 |  | -0.03 |  | 0.02 |  | 0.08 |  |  | -0.17 |  | -0.07 |  | -0.25 |  | 0.10 |  |
|  Total MUFAs | 0.06 |  | 0.30 | \* | 0.13 | \* | 0.25 | \* |  | 0.06 |  | 0.46 | \* | 0.05 |  | 0.00 |  |  | -0.05 |  | 0.05 |  | 0.08 |  | 0.15 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| n-3 PUFAs (%) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  18:3n-3 α-linolenic acid | -0.16 | \* | -0.02 |  | -0.09 |  | -0.13 |  |  | -0.10 |  | -0.09 |  | 0.18 |  | 0.04 |  |  | 0.02 |  | -0.13 |  | 0.09 |  | 0.19 |  |
|  20:5n-3 EPA | -0.05 |  | -0.19 | \* | 0.06 |  | 0.01 |  |  | -0.24 | \* | -0.41 | \* | -0.04 |  | -0.01 |  |  | 0.01 |  | 0.17 |  | -0.22 |  | 0.16 |  |
|  22:5n-3 DPA | -0.04 |  | -0.14 | \* | -0.05 |  | -0.05 |  |  | -0.15 |  | -0.18 |  | -0.10 |  | -0.05 |  |  | -0.03 |  | -0.04 |  | 0.01 |  | 0.37 | \* |
|  22:6n-3 DHA | -0.01 |  | 0.02 |  | -0.02 |  | -0.04 |  |  | -0.02 |  | -0.15 |  | 0.07 |  | -0.03 |  |  | 0.06 |  | 0.09 |  | -0.22 |  | 0.04 |  |
|  Total long chain n-3 PUFAs2 | -0.02 |  | -0.04 |  | -0.02 |  | -0.05 |  |  | -0.10 |  | -0.21 | \* | 0.03 |  | -0.06 |  |  | 0.06 |  | 0.13 |  | -0.24 |  | 0.14 |  |
|  Total n-3 PUFAs | -0.06 |  | -0.04 |  | -0.04 |  | -0.08 |  |  | -0.12 |  | -0.21 | \* | 0.10 |  | -0.09 |  |  | 0.10 |  | 0.15 |  | -0.22 |  | 0.24 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| n-6 PUFAs (%) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  18:2n-6 linoleic acid | -0.04 |  | -0.24 | \* | -0.08 |  | -0.21 | \* |  | 0.02 |  | -0.30 | \* | -0.02 |  | -0.03 |  |  | 0.03 |  | -0.20 |  | 0.16 |  | -0.08 |  |
|  18:3n-6 γ-linolenic acid | 0.19 | \* | -0.06 |  | 0.12 |  | 0.17 |  |  | 0.10 |  | -0.02 |  | -0.25 | \* | 0.15 |  |  | -0.04 |  | 0.39 | \* | -0.01 |  | 0.04 |  |
|  20:2n-6 EDA | 0.08 |  | 0.03 |  | 0.06 |  | 0.09 |  |  | 0.09 |  | 0.16 |  | 0.00 |  | 0.13 |  |  | -0.18 |  | -0.06 |  | -0.01 |  | 0.03 |  |
|  20:3n-6 dihomo-γ-linolenic acid | -0.05 |  | -0.17 | \* | 0.01 |  | -0.03 |  |  | -0.08 |  | -0.23 | \* | 0.13 |  | 0.16 |  |  | -0.05 |  | 0.04 |  | -0.10 |  | 0.22 |  |
|  20:4n-6 arachidonic acid | -0.03 |  | -0.17 | \* | -0.02 |  | -0.13 |  |  | -0.05 |  | -0.34 | \* | 0.04 |  | -0.04 |  |  | 0.01 |  | 0.12 |  | -0.22 |  | 0.05 |  |
|  22:4n-6 adrenic acid | 0.14 | \* | 0.02 |  | 0.07 |  | 0.14 | \* |  | 0.04 |  | -0.09 |  | -0.07 |  | 0.07 |  |  | -0.13 |  | 0.03 |  | -0.04 |  | 0.10 |  |
|  Total long chain n-6 PUFAs3 | -0.03 |  | -0.21 | \* | 0.00 |  | -0.08 |  |  | -0.10 |  | -0.37 | \* | 0.04 |  | -0.03 |  |  | -0.09 |  | 0.07 |  | -0.18 |  | 0.09 |  |
|  Total n-6 PUFAs | -0.03 |  | -0.28 | \* | -0.05 |  | -0.21 | \* |  | -0.06 |  | -0.41 | \* | 0.00 |  | -0.09 |  |  | -0.01 |  | -0.17 |  | 0.09 |  | -0.05 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18:2n-7*ct* CLA (%) | -0.11 |  | -0.09 |  | -0.11 |  | -0.12 |  |  | -0.15 |  | -0.03 |  | -0.04 |  | -0.16 |  |  | -0.08 |  | 0.03 |  | -0.07 |  | 0.22 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *trans*-FA (%) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  16:1n-7 *trans* | 0.02 |  | 0.03 |  | 0.01 |  | 0.09 |  |  | 0.02 |  | 0.03 |  | 0.00 |  | 0.25 | \* |  | 0.01 |  | 0.37 | \* | 0.00 |  | 0.20 |  |
|  18:1 *trans* | 0.06 |  | -0.03 |  | 0.08 |  | 0.02 |  |  | 0.12 |  | 0.02 |  | 0.02 |  | 0.05 |  |  | -0.07 |  | 0.19 |  | -0.04 |  | 0.17 |  |
|  18:2 *trans* | 0.05 |  | 0.01 |  | 0.07 |  | -0.03 |  |  | -0.10 |  | -0.20 | \* | 0.02 |  | -0.05 |  |  | 0.08 |  | 0.14 |  | 0.10 |  | -0.11 |  |
|  Total *trans*-FA | 0.01 |  | -0.05 |  | 0.09 |  | 0.02 |  |  | 0.04 |  | -0.08 |  | 0.00 |  | 0.05 |  |  | -0.02 |  | 0.21 |  | 0.01 |  | 0.10 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Enzyme activity indices |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  Stearoyl-coA-desaturase 18:0/18:1n-9 | 0.09 |  | 0.28 | \* | 0.13 | \* | 0.16 | \* |  | 0.12 |  | 0.39 | \* | 0.02 |  | -0.05 |  |  | -0.03 |  | 0.08 |  | 0.09 |  | 0.00 |  |
|  Elongase 18:1n-7/16:1n-7 | 0.02 |  | 0.05 |  | -0.01 |  | 0.08 |  |  | 0.07 |  | 0.01 |  | -0.27 | \* | -0.12 |  |  | -0.18 |  | -0.10 |  | 0.11 |  | -0.10 |  |
|  Δ6-desaturase 18:3n-6/18:2n-6 | 0.20 | \* | 0.00 |  | 0.13 |  | 0.21 | \* |  | 0.10 |  | 0.04 |  | -0.25 | \* | 0.16 |  |  | -0.07 |  | 0.41 | \* | -0.05 |  | 0.05 |  |
|  Δ5-desaturase 20:4n-6/20:3n-6 | 0.00 |  | 0.02 |  | -0.02 |  | -0.09 |  |  | 0.03 |  | -0.04 |  | -0.07 |  | -0.18 |  |  | 0.07 |  | 0.07 |  | -0.07 |  | -0.21 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Footnotes to Supplemental Table 2**

1 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.

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

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

\* *P*<0.05.