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| S3 Table: Regression results between HAZ, WAZ, and fatty acids (model: HAZ= fatty acid + hemoglobin; WAZ= fatty acid + hemoglobin; HAZ= ratio + hemoglobin; WAZ= ratio + hemoglobin).a |
|  |  | **HAZ** | **WAZ** |
| **Class** | **Fatty acid** | **Beta ± SE** | **p-value** | **Beta ± SE** | **p-value** |
| SFA | Myristic | -0.47 ± 0.56 | 0.41 | -0.16 ± 0.43 | 0.71 |
|  | Palmitic | -0.01 ± 0.04 | 0.72 | -0.05 ± 0.03 | 0.08 |
|  | Stearic | 0.05 ± 0.04 | 0.25 | 0.07 ± 0.03 | **≤0.05** |
|  | Arachidic | -0.86 ± 0.96 | 0.37 | 0.48 ± 0.74 | 0.52 |
|  | Behenic | 0.01 ± 0.35 | 0.98 | 0.22 ± 0.27 | 0.40 |
|  | Lignoceric | -0.06 ± 0.20 | 0.76 | 0.02 ± 0.15 | 0.89 |
|  | Total SFAb | 0.03 ± 0.05 | 0.54 | 0.01 ± 0.04 | 0.84 |
|  |  |  |  |  |  |
| n-9  | Oleic | -0.04 ± 0.02 | 0.10 | -0.03 ± 0.02 | 0.14 |
|  | Elaidic | -0.02 ± 0.33 | 0.94 | -0.04 ± 0.25 | 0.87 |
|  | Eicosenoic | -0.35 ± 0.60 | 0.56 | -0.01 ± 0.46 | 0.98 |
|  | Mead | 2.48 ± 1.21 | **≤0.05** | 2.08 ± 0.93 | **≤0.05** |
|  | Nervonic | 0.13 ± 0.29 | 0.65 | 0.14 ± 0.23 | 0.53 |
|  | Palmitoleic | -0.37 ± 0.32 | 0.25 | -0.40 ± 0.24 | 0.10 |
|  | Total n-9c | -0.04 ± 0.02 | 0.10 | -0.03 ± 0.02 | 0.15 |
|  |  |  |  |  |  |
| n-7  | Palmitelaidic | 3.13 ± 2.47 | 0.21 | 2.15 ± 1.90 | 0.26 |
|  |  |  |  |  |  |
| n-3 | ALA | -0.67 ± 0.56 | 0.23 | -0.32 ± 0.43 | 0.45 |
|  | EPA | 0.07 ± 0.25 | 0.77 | 0.17 ± 0.19 | 0.36 |
|  | DPA n-3 | 0.03 ± 0.37 | 0.93 | 0.20 ± 0.28 | 0.48 |
|  | DHA | 0.08 ± 0.10 | 0.43 | 0.09 ± 0.08 | 0.26 |
|  | Total n-3d | 0.04 ± 0.07 | 0.62 | 0.06 ± 0.06 | 0.27 |
|  | O3I | 0.06 ± 0.08 | 0.47 | 0.08 ± 0.06 | 0.23 |
|  |  |  |  |  |  |
| n-6  | LA | -0.06 ± 0.03 | 0.07 | -0.04 ± 0.03 | 0.11 |
|  | Linoelaidic | 1.44 ± 0.99 | 0.15 | 0.16 ± 0.76 | 0.83 |
|  | GLA | -0.19 ± 0.95 | 0.84 | -0.21± 0.73 | 0.78 |
|  | EDA | -1.48 ± 0.94 | 0.12 | -0.80 ± 0.72 | 0.27 |
|  | DGLA | 0.51 ± 0.25 | **≤0.05** | 0.39 ± 0.19 | **≤0.05** |
|  | AA | 0.12 ± 0.04 | **≤0.01** | 0.08 ± 0.03 | **≤0.01** |
|  | DTA | 0.50 ± 0.17 | **≤0.01** | 0.39 ± 0.13 | **≤0.01** |
|  | DPA n-6 | 0.56 ± 0.38 | 0.14 | 0.18 ± 0.29 | 0.54 |
|  | Total n-6e | 0.03 ± 0.03 | 0.18 | 0.02 ± 0.02 | 0.26 |
|  |  |  |  |  |  |
| Ratios | GLA/LA | 4.19 ± 17.7 | 0.81 | 0.54 ± 13.6 | 0.97 |
|  | EDA/LA | -13.8 ± 18.3 | 0.45 | -6.52 ± 14.0 | 0.64 |
|  | DGLA/LA | 11.7 ± 4.39 | **≤0.01** | 8.34 ± 3.38 | **≤0.01** |
|  | AA/DGLA | 0.02 ± 0.04 | 0.68 | 0.00 ± 0.03 | 0.92 |
|  | T/T | 11.3 ± 12.1 | 0.35 | 9.75 ± 9.28 | 0.29 |
| aModel is not adjusted for sex as there were few significantly different FAs between sexes and regression values were essentially unaffected when evaluated with sex adjustment. HAZ, height-for-age z-score; WAZ, weight-for-age z-score; SFA, saturated fatty acid; n-9, omega-9; n-7, omega-7; n-3, omega-3; ALA, alpha-linolenic acid; EPA, eicosapentaenoic acid; DPA n-3, omega-3 docosapentaenoic acid; DHA, docosahexaenoic acid; O3I, omega-3 index; n-6, omega-6; LA, linoleic acid; GLA, gamma-linolenic acid; EDA, eicosadienoic acid; DGLA, dihomo-gamma-linolenic acid; AA, arachidonic acid; DTA, docosatetraenoic acid; DPA n-6, omega-6 docosapentaenoic acid; T/T, triene to tetraene ratio.  bTotal SFA includes myristic, palmitic, arachidic, behenic, and lignoceric. cTotal n-9 includes oleic, elaidic, eicosenoic, Mead, and Nervonic. dTotal n-3 includes ALA, EPA, DPA n-3, and DHA. eTotal n-6 includes LA, linoelaidic, GLA, EDA, DGLA, AA, DTA, and DPA n-6. |