**Supplementary Table 5. Logistic regression analysis for blood fatty acids associated with sarcopenia in patients with liver cirrhosis and hepatocellular carcinoma**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Plasma fatty acids level [μg/mL] (mean ± S.D.) | Univariate analysis |  |
| 　 | Patients with sarcopenia (n = 247) | Patients without sarcopenia (n = 167) | Odds ratio (95% CI) | *p*-value  | 　 |
| **Saturated fatty acids** | **887.0** | **±** | **179.0** | **954.6** | **±** | **202** | **0.9981 (0.9970-0.9993)** | **0.0011** | \* |
| Lauric acid (C12:0) | 2.0 | ± | 1.8 | 2.1 | ± | 2.1 | 0.9812 (0.8786-1.0959) | 0.7182 |  |
| Myristic acid (C14:0) | 22.8 | ± | 10.2 | 26.0 | ± | 10.8 | 0.9714 (0.9516-0.9917) | 0.0050 | \* |
| Palmitic acid (C16:0) | 637.9 | ± | 133.1 | 692.5 | ± | 157.0 | 0.9974 (0.9959-0.9989) | 0.0005 | \* |
| Stearic acid (C18:0) | 189.0 | ± | 38.0 | 198.9 | ± | 37.4 | 0.9931 (0.9874-0.9987) | 0.0152 | \* |
| Arachidic acid (C20:0) | 6.1 | ± | 1.5 | 6.3 | ± | 1.3 | 0.9399 (0.8057-1.0964) | 0.4667 |  |
| Behenic acid (C22:0) | 14.7 | ± | 3.8 | 14.6 | ± | 3.1 | 1.0032 (0.9448-1.0652) | 0.8943 |  |
| Lignoceric acid (C24:0) | 14.5 | ± | 3.7 | 14.2 | ± | 3.0 | 1.0308 (0.9683-1.0975) | 0.3389 |  |
| **Monosaturated fatty acids** | **651.9** | **±** | **173.2** | **709.7** | **±** | **189.8** | **0.9982 (0.9971-0.9994)** | **0.0033** | \* |
| Myristoleic acid (C14:1) | 1.6 | ± | 1.0 | 1.6 | ± | 0.8 | 0.9938 (0.7872-1.2546) | 0.9618 |  |
| Palmitoleic acid (C16:1) | 65.9 | ± | 28.6 | 71.6 | ± | 33.1 | 0.9940 (0.9871-1.0061) | 0.0907 |  |
| Oleic acid (C18:1) | 579.5 | ± | 154.6 | 631.0 | ± | 168.8 | 0.9980 (0.9967-0.9994) | 0.0033 | \* |
| Eicosenoic acid (C20:1) | 4.9 | ± | 1.5 | 5.5 | ± | 1.8 | 0.7942 (0.6951-0.9073) | 0.0005 | \* |
| Erucic acid (C22:1) | 1.3 | ± | 0.2 | 1.2 | ± | 0.2 | 3.6618 (0.4716-28.4336) | 0.8264 |  |
| Nervonic acid (C24:1) | 37.6 | ± | 7.7 | 35.5 | ± | 6.4 | 1.0423 (1.01055-1.0751) | 0.0071 | \* |
| **n-3 polyunsaturated fatty acids** | **216.3** | **±** | **71.6** | **254.0** | **±** | **92.7** | **0.9944 (0.9917-0.9971)** | **< 0.0001** | \* |
| α-Linolenic acid (C18:3) | 21.6 | ± | 8.6 | 25.6 | ± | 12.8 | 0.9618 (0.9399-0.9842) | 0.0004 | \* |
| Eicosatrienoic acid (C20:3) | 2.7 | ± | 2.2 | 2.8 | ± | 1.8 | 0.9857 (0.8906-1.0910) | 0.7288 |  |
| Eicosapentaenoic acid (C20:5) | 55.8 | ± | 29.4 | 66.7 | ± | 37.1 | 0.9899 (0.9833-0.9965) | 0.0023 | \* |
| Docosapentaenoic acid (C22:5) | 17.6 | ± | 6.3 | 20.8 | ± | 6.8 | 0.9281 (0.8969-0.9603) | < 0.0001 | \* |
| Docosahexaenoic acid (C22:6) | 118.6 | ± | 39.3 | 138.1 | ± | 51.6 | 0.9904 (0.9856-0.9953) | < 0.0001 | \* |
| **n-6 polyunsaturated fatty acids** | **956.1** | **±** | **204.0** | **984.7** | **±** | **193.7** | **0.9993 (0.9982-1.0003)** | **0.1981** |  |
| Linoleic acid (C18:2) | 745.1 | ± | 174.9 | 766.4 | ± | 165.0 | 0.9993 (0.9980-1.0005) | 0.2647 |  |
| γ-Linolenic acid (C18:3) | 7.9 | ± | 4.8 | 8.5 | ± | 5.1 | 0.9727 (0.9331-1.0173) | 0.2213 |  |
| Eicosadienoic acid (C20:2) | 6.3 | ± | 1.7 | 6.7 | ± | 1.5 | 0.8526 (0.7455-0.9750) | 0.0189 | \* |
| Dihomo-γ-linolenic acid (C20:3) | 35.2 | ± | 11.7 | 37.8 | ± | 12.6 | 0.9820 (0.9648-0.9994) | 0.0418 | \* |
| Arachidonic acid (C20:4) | 157.2 | ± | 39.1 | 160.6 | ± | 44.2 | 0.9980 (0.9929-1.0032) | 0.4614 |  |
| Docosatetraenoic acid (C22:4) | 4.4 | ± | 1.5 | 4.6 | ± | 1.7 | 0.9130 (0.7987-1.0436) | 0.1940 | 　 |

S.D., standard deviation, CI, confidence interval, \*: *p*-value < 0.05