**Supplementary Table 3. Characteristics of matched liver cirrhosis patients with and without hepatocellular carcinoma**

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| --- | --- | --- | --- |
|  | Cirrhosis with HCC | Cirrhosis without HCC |  |
| Mean ± S.D. | N = 21 | N = 21 | *p*-value | 　 |
| Age, years  | 63.2 | ± | 14.9 | 60.6 | ± | 9.05 | 0.4946 |  |
| Gender, N | 13/8 | 9/12 | 0.2151 |  |
| F/M (%) | (62/38) | (43/57) |  |  |
| Etiology, N | 8/2/2/6/3 | 10/1/1/5/4 | 0.8914 |  |
| HCV/HBV/alcohol/MASLD/others (%) | (38/10/10/29/13) | (48/5/5/24/18) |  |  |
| Child-Pugh grade, N | 16/5/0 | 17/4/0 | 0.7066 |  |
| A/B/C (%) | (76/24/0) | (81/19/0) |  |  |
| ALBI score | -2.1 | ± | 0.5 | -2.1 | ± | 0.6 | 0.7849 |  |
| FIB-4 index | 6.6 | ± | 4.4 | 6.9 | ± | 5.3 | 0.8536 |  |
| MELD-Na | 8.5 | ± | 2.0 | 8.3 | ± | 1.6 | 0.8249 |  |
| Total FAs, μg/mL | 2835.8 | ± | 659.7 | 2964.3 | ± | 727.2 | 0.5520 |  |
| SFAs, μg/mL | 928.4 | ± | 209.8 | 999.3 | ± | 250.3 | 0.3254 |  |
| Relative amount, % | 32.8 | ± | 1.4 | 33.7 | ± | 1.8 | 0.0958 |  |
| MUFAs, μg/mL | 712.3 | ± | 171.2 | 788.7 | ± | 203.9 | 0.1961 |  |
| Relative amount, % | 25.1 | ± | 2.0 | 26.6 | ± | 1.8 | 0.0171 | \* |
| n-3 PUFAs, μg/mL | 179.8 | ± | 91.2 | 205.3 | ± | 92.4 | 0.3733 |  |
| Relative amount, % | 6.3 | ± | 2.2 | 7.0 | ± | 2.4 | 0.2959 |  |
| n-6 PUFAs, μg/mL | 978.2 | ± | 250.3 | 971.0 | ± | 261.6 | 0.9280 |  |
| Relative amount, % | 34.4 | ± | 3.2 | 32.7 | ± | 3.5 | 0.1046 |  |
| SMI, cm2/m2 | 38.9 | ± | 7.9 | 36.2 | ± | 10.9 | 0.3669 |  |
| Presence of Sarcopenia, N | 14/7 | 15/6 | 0.7385 |  |
| sarcopenia/non-sarcopenia (%) | (67/23) | (71/29) |  |  |

S.D., standard deviation; HCV, hepatitis C virus; HBV, hepatitis B virus; MASLD, metabolic dysfunction-associated steatotic liver disease; BCLC, Barcelona Clinical Liver Cancer; ALBI, albumin-bilirubin; FIB-4, fibrosis-4 score; MELD, the model of end-stage liver disease; FA, fatty acid; SFA, saturated fatty acid; MUFA, monounsaturated fatty acid; PUFA, polyunsaturated fatty acid; CRP, C-reactive protein; SMI, skeletal muscle mass index.

\*: *p*-value < 0.05