**Supplementary table 1:** binary logistic regression analyses of factors associated with non-cirrhotic NAFLD (Model A), with NASH-related cirrhosis (Model B), with alcoholic cirrhosis (Model C) and with HCV-related cirrhosis (panel D), compared to controls with normal liver.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Model A** | | **Model B** | | **Model C** | | **Model D** | |
|  | **non-cirrhotic NAFLD vs CTRL**  **OR [95% of CI]** | **p** | **CIR-NASH vs CTRL**  **OR [95% of CI]** | **p** | **CIR-ALD vs**  **CTRL**  **OR [95% of CI]** | **p** | **CIR-HCV vs CTRL**  **OR [95% of CI]** | **p** |
| **Blood total LAL (nanomoles/spot/h)** | 0.196  [0.068–0.568] | **0.003** | 0.003  [0.000–0.058] | **<0.001** | 0.227  [0.070–0.735] | **0.013** | 0.181  [0.040–0.827] | **0.027** |
| **Male sex** |  |  | 2.076  [0.482–8.934] | 0.327 | 21.434  [5.054–90.900] | **<0.001** |  |  |
| **Age (years)** |  |  | 1.049  [0.998–1.104] | 0.061 | 1.046  [1.009–1.085] | **0.014** | 1.059  [1.026–1.093] | **<0.000** |
| **BMI** | 1.273  [1.146–1.413] | **<0.001** | 1.268  [1.063–1.511] | **0.008** | 1.260  [1.074–1.478] | **0.005** |  |  |
| **Diabetes** | 3.794  [1.161–12.402] | **0.027** | 194.687  [8.414–0.4504.604] | **0.001** | 11.074  [2.220–55.246] | **0.003** |  |  |
| **Arterial Hypertension** |  |  | 0.196  [0.068–0.568] | **0.003** |  |  |  |  |
| **Dyslipidemia** | 1.039  [0.465–2.322] | 0.927 |  |  | 0.085  [0.024–0.302] | **<0.001** | 0.318  [0.110–0.917] | **0.034** |
| **Statin use** |  |  | 0.009  [0.000–0.316] | **0.010** | 0.263  [0.045–1.546] | 0.998 | 0  [0–] | 0.998 |

CIR-ALD, patients with alcoholic cirrhosis; CIR-HCV, patients with HCV-related cirrhosis; CIR-NASH, patients with NASH-related cirrhosis; CTRL, controls with normal liver; non-cirrhoticNAFLD, non-cirrhotics with NAFLD.