**Supplementary table 3:** binary logistic regression analyses of factors associated with NASH-related cirrhosis compared to non-cirrhotic NAFLD (Model A), with alcoholic cirrhosis compared to non-cirrhotic alcoholic liver disease (Model B), with non-cirrhotic NAFLD compared to non-cirrhotic alcoholic liver disease (Model C), with NASH-related cirrhosis compared to alcoholic cirrhosis (Model D).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Model A** | **Model B** | **Model C** | **Model D** |
|  | **CIR-NASH vs****non-cirrhotic NAFLD****OR [95% of CI]** | **p** | **CIR-ALD vs****non-cirrhotic ALD****OR [95% of CI]** | **p** | **non-cirrhotic NAFLD vs****non-cirrhotic ALD****OR [95% of CI]** | **p** | **CIR-NASH vs****CIR-ALD****OR [95% of CI]** | **p** |
| **Blood total Total LAL (nanomoles/spot/h)** | 0.059[0.008–0.404] | **0.004** | 0.080[0.010–0.666] | **0.020** | 0.089[0.017–0.452] | **0.004** | 0.174[0.033–0.923] | **0.013** |
| **Male sex** |  |  |  |  | 0.004[0.000–0.088] | **<0.001** | 0.111[0.024–0.523] | **0.005** |
| **Age (years)** | 1.137[1.073–1.205] | **<0.001** | 1.153[1.047–1.270] | **0.004** |  |  | 1.078[1.020–1.140] | **0.008** |
| **BMI** |  |  | 1.133[0.831–1.544] | 0.429 | 1.549[1.178–2.038] | **0.002** | 1.157[0.996–1.345] | 0.057 |
| **Diabetes** | 3.171[1.035–9.710] | **0.043** | 1.056+10 [0.000-] | 0.998 | 647176366.5[0.000– ] | 0.998 | 3.008[1.143–7.919] | **0.026** |
| **Arterial Hypertension** |  |  |  |  | 1.110[0.242-5.098] | 0.893 | 1.474[0.545–3.989] | 0.445 |
| **Dylipidemia** | 0.889[0.288–2.747] | 0.838 | 0.013[0.001-0.119] | **<0.001** |  |  | 1.755[0.647–4.760] | 0.269 |
| **Statin use** | 0.109[0.015–0.781] | **0.027** |  |  | 2.380[0.333–16.997] | 0.387 |  |  |
| **Years of at risk alcohol intake** |  |  | 1.138[1.053–1.229] | **0.001** |  |  |  |  |

CIR-ALD, patients with alcoholic cirrhosis; CIR-NASH, patients with NASH-related cirrhosis; non-cirrhoticALD, non-cirrhotics with alcoholic liver disease; non-cirrhoticNAFLD, non-cirrhotics with NAFLD; LAL, Lysosomal acid lipase; BMI, body mass index.