**Supplementary Table 1.** Univariable unadjusted hazard ratios and 95% confidence intervals of covariates and all-cause mortality

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| --- | --- | --- | --- |
|  | **Hazard ratio (HR)** | **95% Confidence interval (CI) of HR** | ***p*-value** |
| *Histologic covariates* |  | | |
| Fibrosis stage  0-1  2  3  4 | Reference  1.28  1.10  4.54 | Reference  0.43-3.82  0.30-4.07  4.54-2.04 | 0.66  0.88  <0.01 |
| Lobular inflammation  0  1  2  3 | Reference  1.72  1.77  0.65 | Reference  0.57-5.16  0.58-5.39  0.07-5.85 | 0.33  0.32  0.70 |
| Portal inflammation  0  1  2 | Reference  1.29  3.24 | Reference  0.61-2.74  1.28-8.18 | 0.50  0.01 |
| Steatosis  0  1  2  3 | Reference  0.61  0.40  0.56 | Reference  0.14-2.73  0.09-1.78  0.12-2.54 | 0.52  0.23  0.45 |
| Ballooning  0  1  2 | Reference  2.81  4.16 | Reference  1.29-6.13  1.39-12.41 | 0.01  0.01 |
| Acidophils  0  1 | Reference  1.39 | Reference  0.43-4.56 | 0.58 |
| Mallory bodies  0  1  2 | Reference  1.44  1.64 | Reference  0.65-3.19  0.22-12.14 | 0.36  0.62 |
| Microvesicular fat | 3.60 | 1.49-8.70 | <0.01 |
| NAFLD activity score | 1.07 | 0.87-1.32 | 0.51 |
| *Clinical covariates* |  | | |
| Age | 1.06 | 1.03-1.08 | <0.01 |
| BMI  Underweight/Normal  Overweight  Obese | Reference  0.56  0.58 | Reference  0.17-1.84  0.20-1.67 | 0.34  0.31 |
| Gender  Male  Female | Reference  0.81 | Reference  0.42-1.57 | 0.53 |
| Race  White  Asian  Black | Reference  1.47  0.62 | Reference  0.20-10.82  0.08-4.54 | 0.71  0.64 |
| Ethnicity  Non-Hispanic  Hispanic | Reference  1.16 | Reference  0.54-2.48 | 0.70 |
| Smoker  Never smoker  Former smoker  Current smoker | Reference  3.74  1.04 | Reference  1.83-7.64  0.23-4.66 | <0.01  0.96 |
| Hypertension | 2.74 | 1.28-5.88 | 0.01 |
| Type 2 diabetes mellitus | 3.12 | 1.52-6.42 | <0.01 |
| Coronary artery disease | 1.84 | 0.71-4.74 | 0.21 |
| Chronic kidney disease | 0.98 | 0.23-4.08 | 0.97 |
| Congestive heart failure | 0.91 | 0.12-6.66 | 0.92 |
| Obstructive sleep apnea | 0.35 | 0.08-1.47 | 0.15 |
| *Medications* |  |  |  |
| DPP-4 inhibitor | 2.04 | 0.28-14.88 | 0.48 |
| GLP-1 agonist | 0.97 | 0.13-7.05 | 0.97 |
| Metformin | 1.79 | 0.69-4.62 | 0.23 |
| Statin | 1.09 | 0.46-1.79 | 0.17 |