

S6 Table. Associations between fatty liver diseases and hepatocellular carcinoma among individuals with follow-up duration of at least 2 years (n=28,650)

| Factor | Incident cases | Sample size | Person-years | Incidence (per 100,000 person-years) | Crude HR (95% CI) | Adjusted HR (95% CI) |
|----------------------------|----------------|-------------|--------------|--------------------------------------|-------------------|----------------------|
| Fatty liver disease | | | | | | |
| Absence | 76 | 18,555 | 264,076 | 28.78 | 1.00 (reference) | 1.00 (reference) |
| Presence | 49 | 10,095 | 144,949 | 33.80 | 1.17 (0.82-1.67) | 1.43 (0.97-2.09) |
| NAFLD | | | | | | |
| Absence | 110 | 22,614 | 321,694 | 34.19 | 1.00 (reference) | 1.00 (reference) |
| Presence | 12 | 5,547 | 80,376 | 14.93 | 0.43 (0.24-0.79) | 1.17 (0.60-2.27) |
| MAFLD | | | | | | |
| Absence | 80 | 19,369 | 276,080 | 28.98 | 1.00 (reference) | 1.00 (reference) |
| Presence | 45 | 9,261 | 132,636 | 33.93 | 1.17 (0.81-1.68) | 1.40 (0.95-2.06) |
| MASLD | | | | | | |
| Absence | 108 | 22,713 | 322,805 | 33.46 | 1.00 (reference) | 1.00 (reference) |
| Presence | 13 | 5,251 | 75,882 | 17.13 | 0.51 (0.29-0.90) | 1.41 (0.74-2.69) |
| MetALD | | | | | | |
| Absence | 114 | 27,295 | 389,221 | 29.29 | 1.00 (reference) | 1.00 (reference) |
| Presence | 5 | 928 | 13,110 | 38.14 | 1.32 (0.54-3.22) | 1.49 (0.60-3.69) |
| ALD | | | | | | |
| Absence | 117 | 27,264 | 389,742 | 30.02 | 1.00 (reference) | 1.00 (reference) |
| Presence | 2 | 978 | 12,907 | 15.50 | 0.54 (0.13-2.20) | 0.63 (0.15-2.57) |

Multivariable models were adjusted for age, sex, chronic liver disease, chronic viral hepatitis, cirrhosis, and fibrosis-4. ALD, alcohol-related liver disease; CI, confidence interval; HR, hazard ratio; MAFLD, metabolic dysfunction-associated fatty liver disease; MASLD, metabolic dysfunction-associated steatotic liver disease; MetALD, metabolic dysfunction-associated steatotic liver disease with increased alcohol intake; NAFLD, nonalcoholic fatty liver disease.