**Supplementary Table 1. International classification of diseases tenth edition (ICD-10) codes used in the study**

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| **Disease** | **ICD-10** |
| Cirrhosis | K70.3, K72.1, K72.9, K74.0, K74.1, K74.2, K74.3, K74.4, K74.6, K76.6, K76.7, K65, I85.0 |
| ALD | K70.0, K70.1, K70.2, K70.3, K70.4, K70.9 |
| NAFLD | K75.8, K76.0 |
| HCV | B17.1, B18.2 |
| HBV | B16.0, B16.1, B16.2, B16.9, B17.0, B18.0, B18.1 |
| Autoimmune liver disease | K74.3, K75.4, K83.0 |
| Liver-related disease | B15-B19, B94.2, C22, K65, K70-K76, I85.0, R18 |
| Cancer-related disease | C00-C97 [exclude C22] |
| Cardiovascular-related disease | I00-I99, K55 |
| Infection-related disease | A00-B99 [exclude B15-B19], J00-J18, L00-L08, M46.2, M46.3, M46.5, M71.0, M71.1, M72.6, M86, N39.0 |
| Metabolic-related disease | E10-E14, E66, E78 |
| Respiratory-related disease | J09-J18, J20-J22, J40-J47, J80, J84, J96 |
| Renal-related disease | N00-N27 |
| COVID-19 | U07.1 |

ALD, alcohol-associated liver disease; HBV, hepatitis B virus infection; HCV, hepatitis C virus infection; NAFLD, nonalcoholic fatty liver disease.