

Table S1. The frequency of patients who received vaccine

	Total	Vaccine
HCC (-)	339	327 (96.5%)
HCC (+)	92	89 (96.7%)
Liver cirrhosis (-)	277	267 (96.4%)
Liver cirrhosis (+)	154	149 (96.7%)
AID (-)	323	314 (97.2%)
AID (+)	108	102 (94.2%)
HBV	80	78 (97.5%)
HCV	84	82 (97.6%)
AIH	42	40 (95.2%)
PBC	36	33 (91.7%)
NAFLD	87	94 (96.9%)
Alcohol	48	47 (97.9%)
Others	30	29 (96.7%)
unknown	14	13 (92.9%)

HCC; Hepatocellular carcinoma, AID; Autoimmune disease, HBV; Hepatitis B virus, HCV; Hepatitis C virus, AIH; Autoimmune hepatitis, PBC; Primary biliary cirrhosis, NAFLD; Non-alcoholic fatty liver disease