

**Supplementary Table 1.** Identification of etiologies and comorbid conditions

	ICD code for diagnosis	Antiviral treatment
<b>Etiologies</b>		
Chronic hepatitis B	Z22.51, B18.0, B18.1, B18.10, or B18.18	lamivudine, adefovir, entecavir, tenofovir alafenamide, tenofovir fumarate, telbivudine, clevudine, or besifovir
Chronic hepatitis C	B18.2 or Z22.52	Pegylated interferon and ribavirin, or oral antiviral agents (daclatasvir, asunaprevir, sofosbuvir/ledipasvir, elbasvir/grazoprevir, ombitasvir/paritaprevir/ritonavir, dasabuvir, sofosbuvir, or glecaprevir/pibrentasvir)
Alcoholic liver disease	K70.0, K70.1, K70.2, K70.3, K70.4, or K70.9	
Non-alcoholic fatty liver disease	NAFLD (K76.0, K76.0A, or K75.8B) or diabetes mellitus (E10, E11, E12, E13, E14, or E15), and not assigned with ICD codes for chronic hepatitis B, chronic hepatitis C, alcoholic liver disease, Wilson's disease, autoimmune hepatitis, or primary biliary cholangitis	
<b>Comorbid conditions</b>		
Liver cirrhosis	Liver cirrhosis (K74, K70.2, or K70.3) or cirrhosis-related complications (K76.6, I85, I86.4, K70.43, K71.11, K72.01, or K72.91)	
Diabetes mellitus	E10, E11, E12, E13, E14, or E15	
Hypertension	I10, I11, I12, or I13	
Chronic kidney disease	N18 or N19	
Other malignancies	All cancer codes beginning with C	
Cardiovascular diseases	I20, I21, I22, I23, I24, or I25	
Cerebrovascular diseases	I60, I61, I62, I63, I64, I65, I66, or I69	

NAFLD, non-alcoholic fatty liver disease; ICD, International Classification of Diseases.