

Supplementary Table 1. Definition of diagnostic and procedural codes and measured variables

Variable	Definition
Exclusion criteria	
Chronic Hepatitis C	ICD-10 diagnosis codes: B18.2
Chronic Hepatitis D	ICD-10 diagnosis codes: B18.0
Human immune deficiency virus	ICD-10 diagnosis codes: B20-B24
Liver transplantation	ICD-10 diagnosis codes: Z94.4, T86.4 Reimbursement benefit extension coverage codes: V013
Previous history of NA therapy	Patients with Antiviral ATC/DDD codes (<i>see below</i>)
Previous history of malignancy	ICD-10 diagnosis codes: C00–C97
Outcomes	
Primary extrahepatic malignancy	ICD-10 diagnosis codes (C00–C97) except malignant neoplasm of liver and intrahepatic bile ducts (C22)
Major primary extrahepatic malignancies	ICD-10 diagnosis codes: Stomach (C16), Colorectal (C18–C20), Lung (C34), Thyroid (C73), Breast (C50), Prostate (C61), Pancreas (C25), Gallbladder and Biliary tract (C23–24), Kidney (C64), Non-Hodgkin lymphoma (C82–C86)
Clinical history or risk factor	
Cirrhosis	ICD-10 diagnosis codes: K74 or patients with Decompensated cirrhosis definition (<i>see below</i>)
Decompensated cirrhosis	Korea health insurance classification codes: Abdominal paracentesis (C8050), Endoscopic treatment of esophageal/gastric varices (Q7631, Q7633) or ATC codes: C03DA01 (Korea drug codes: 231101ATB, 231102ATB, 262700ATB), H01BA04 (Korea drug codes: 236001BIJ, 236003BIJ, 236030BIJ), B02BX (Korea drug codes: 230201BIJ, 230203BIJ), H01CB01 (Korea drug codes: 230202BIJ), K74 (ICD-10 diagnosis codes) and C07AA05 (Korea drug codes: 219901ATB, 219902BIJ, 219904ATB, 219905ACR, 219906ACR)
Ascites	Korea health insurance classification codes: Abdominal paracentesis (C8050) ATC codes: C03DA01 (Korea drug codes: 231101ATB, 231102ATB, 262700ATB)
Varices	ATC codes: C07AA05 (Korea drug codes: 219901ATB, 219902BIJ, 219904ATB, 219905ACR, 219906ACR) or ICD-10 diagnostic codes: Esophageal varices (I85, I98.2, I98.3), Gastric varices (I86.4) or Korea health insurance classification codes: Endoscopic treatment of esophageal/gastric varices (Q7631, Q7633)
Diabetes mellitus	ICD-10 diagnosis codes: E10, E11, E14
Hypertension	ICD-10 diagnosis codes: I10–I15
Antiviral treatment	
Tenofovir disoproxil fumarate	ATC codes: J05AR08, J05AF07, J05AR03, J05AR09 (Korea drug codes: 248100ATB, 493901ATB, 599900ATB, 623400ATB)
Entecavir	ATC codes: J05AF10 (Korea drug codes: 487203ATB, 487203ATD, 487230ASY)
Lamivudine	ATC codes: J05AF05, J05AR01, J05AR02, J05AR13 (Korea drug codes: 180901ASY, 180901ATB, 180902ATB, 180930ASY, 513100ATB, 517300ATB, 641600ATB)
Adefovir	ATC codes: J05AF08 (Korea drug codes: 457501ATB)
Telbivudine	ATC codes: J05AF11 (Korea drug codes: 506001ATB)

Supplementary Table 1. Continued

Variable	Definition
Clevudine	ATC codes: J05AF12 (Korea drug codes: 487801ACH, 487802ACH, 487803ACH)
Measured variables	
Level of healthcare	
Tertiary	healthcare facility which consists at least 20 specialties and able to train resident
Secondary	healthcare facility which has at more than 100 in-patient beds
Primary	healthcare facility which has in-patient treatment facility (at least 30 beds)

ATC, anatomic therapeutic chemical; DDD, defined daily dose; ICD-10, International Classification of Diseases 10th revision; NA, nucleos(t)ide analogue.