

Online Supplement

Supplementary Table 1. Ascertainment of patient diagnoses, procedures, and drugs.

Diagnosis, drug, or procedure	Definition
<i>Diagnoses</i>	
Pulmonary hypertension	ICD-9-CM: 416.0, 416.8, 416.9 ICD-10-CM: I27.0, I27.2, I27.89, I27.9
Portal hypertension	ICD-9-CM: 572.3 ICD-10-CM: K76.6
Alcoholic cirrhosis	ICD-9-CM: 571.2 ICD-10-CM: K70.3x
Autoimmune hepatitis	ICD-9-CM: 571.42 ICD-10-CM: K75.4
Biliary cirrhosis	ICD-9-CM: 571.6 ICD-10-CM: K74.3–.5
Cirrhosis	ICD-9-CM: 571.2, 571.5 ICD-10-CM: K70.30, K74.0, K74.60, K74.69
Hepatitis B	ICD-9-CM: 070.2x–.3x, V02.61 ICD-10-CM: B16.x, B18.0, B18.1, B19.10, B19.11, Z22.51
Hepatitis C	ICD-9-CM: 070.41, 070.44, 070.51, 070.54, 070.70, 070.71, V02.62 ICD-10-CM: B17.1x, B18.2, B19.2x, Z22.52
Non-alcoholic fatty liver disease	ICD-9-CM: 571.8, 571.9 ICD-10-CM: K74.1, K76.0, K76.89, K76.9
Non-alcoholic steatohepatitis*	ICD-10-CM K75.81
Viral hepatitis	ICD-9-CM: 070.0–.59, 070.7x ICD-10-CM: B15–19
<i>Procedures</i>	
Liver transplant	ICD-9-CM: V42.7, 50.51, 50.59 ICD-10-CM: Z94.4, 0FY00Z0, 0FY00Z1, 0FY00Z2 CPT: 47135
<i>PAH-specific drugs</i>	
Ambrisentan (Letairis [®])	NDC: 61958080101, 61958080102, 61958080103, 61958080105, 61958080201, 61958080202, 61958080203, 61958080205
Bosentan (Tracleer [®])	NDC: 66215010103, 66215010106, 66215010203, 66215010206
Macitentan (Opsumit [®])	NDC: 66215050115, 66215050130
Sildenafil citrate (Revatio [®])	NDC: 00069033621, 00069033801, 00069419068, 00093551798, 00378165777, 00591378019, 13668018505, 13668018590,

Diagnosis, drug, or procedure	Definition
Tadalafil (Adcirca [®])	16714033801, 31722077690, 33342012110, 42291073090, 42291074990, 42543000590, 43063055010, 43063055030, 43063066830, 43063067610, 50268071715, 55111037290, 55150016613, 59762003301, 60505340405, 60505340409, 65162035109, 65862068890, 68001017605, 68084062221, 68084086921 NDC: 66302046760
Epoprostenol sodium (Veletri [®] , Flolan [®])	NDC: 00173051700, 00173051900, 00703198501, 00703199501, 20694011101, 20694011201, 66215040101, 66215040201, 66215040301 HCPCS: J1325
Iloprost (Ventavis [®])	NDC: 10148010100, 10148010101, 10148010130, 10148010200, 10148010230, 66215030200, 66215030230, 66215030330 HCPCS: Q4080, Q4074
Oral treprostinil (Orenitram [®])	NDC: 66302030001, 66302030201, 66302031001, 66302032501
Inhaled treprostinil (Tyvaso [®])	NDC: 66302020601, 66302020602, 66302020603, 66302020604 HCPCS: J7686
Parental treprostinil (Remodulin [®])	NDC: 66302010101, 66302010201, 66302010501, 66302011001 HCPCS: J3285, Q4077, S0114
Selexipag (Uptravi [®])	NDC: 66215060206, 66215060406, 66215060606, 66215060806, 66215061006, 66215061206, 66215061406, 66215061606, 66215062820
Riociguat (Adempas [®])	NDC: 50419025001, 50419025003, 50419025091, 50419025101, 50419025103, 50419025191, 50419025201, 50419025203, 50419025291, 50419025301, 50419025303, 50419025391, 50419025401

CPT: Current Procedural Terminology; HCPCS: Healthcare Common Procedure Coding System; ICD-9-CM: International Classification of Diseases, Ninth Revision, Clinical Modification; ICD-10-CM: International Classification of Diseases, Tenth Revision, Clinical Modification; NDC: National Drug Code.

*The ICD-10-CM code for non-alcoholic steatohepatitis was not available in the US until October 2015 (i.e., 3 months after the start of the study period).