

Table S1. Criteria for the diagnosis of NAFLD/NASH, HCC and cirrhosis.

First Author, year	Target condition ^a	Diagnostic criteria for steatosis	Diagnostic criteria for NAFLD	Reference standard for HCC	Reference standard for cirrhosis
Ahn, 2020 [10]	NAFLD	histology or radiology (US, CT)	HBV, HCV, alcohol, medications, hereditary liver disorders	histology or radiology according to 2018 AASLD	histology, radiology, biochemistry, endoscopy
Amaddeo, 2021 [11]	NASH	-	-	histology or radiology according to 2018 EASL	-
Bengtsson, 2019 [12]	NAFLD	histology or radiology, BMI \geq 25 kg/m ² and T2DM, or BMI \geq 30 kg/m ²	HBV, HCV, alcohol, autoimmune liver disease, hemochromatosis, alpha-1 antitrypsin deficiency and other possible causes of liver disease	histology or radiology (US, MRI, CT) according to 2018 EASL	histology, radiology, endoscopy
Benhammou, 2020 [13]	NAFLD	-	HBV, HCV, alcohol, autoimmune liver disease, alpha-1 anti-trypsin, Wilson disease and hemochromatosis	histology or radiology (MRI, CT) according to 2018 EASL	histology, radiology, biochemistry, endoscopy
Best, 2020 [14] ^b	NASH	histology or metabolic syndrome	HBV, HCV, alcohol, other possible causes of liver disease	histology or radiology (MRI, CT) according to 2012 EASL	histology or by overt clinical findings as portal hypertension in known chronic liver diseases
Billeter, 2020 [15]	NASH	histology	HBV, HCV, alcohol, hemochromatosis, Wilson disease, or other rare diseases	histology	histology
Canbay, 2020 [16]	NAFLD	diagnosis-specific claims	HAV, HBV, HCV, HDV, HEV, HIV, alcohol, autoimmune liver disease, toxic liver disease, Wilson disease, Gaucher disease, lysosomal acid lipase deficiency, hemochromatosis	diagnosis-specific claims	diagnosis-specific claims
Cotrim, 2016 [17]	NAFLD	risk factors for NAFLD or metabolic syndrome	HBV, HCV, alcohol, hemochromatosis, and autoimmune liver disease	histology	histology
Debes, 2017 [18]	NAFLD	-	HCV, HBV, alcohol, hemochromatosis, autoimmune liver disease, schistosomiasis, medications, and vascular forma	histology or radiology according to 2012 AASLD, 2012 EASL-EORTC or 2014 LAASL	-
Dyson, 2014 [19]	NAFLD	histology or radiology	negative liver screen and alcohol intake	histology or radiology (MRI, CT)	histology or radiology
Gawrieh, 2019 [20]	NAFLD	clinical, histology or radiology	HBV, HCV, alcohol, autoimmune liver disease, haemochromatosis and alpha-1-antitrypsin deficiency	histology or radiology according to 2018 AASLD	histology, radiology, clinical, biochemistry
Hester, 2019 [21]	NASH	histology or radiology	HBV, HCV, alcohol, and other liver diseases	histology or radiology according to 2018 AASLD	histology, radiology, clinical, biochemistry
Kanwal, 2018 [22]	NAFLD	2 or more elevated ALT values and more than 6 months apart	HBV, HCV, alcohol, autoimmune liver disease, hemochromatosis, or a-1 antitrypsin disease	diagnosis-specific claims	diagnosis-specific claims
Kodama, 2019 [23]	NAFLD	histology	HBV, HCV, alcohol, autoimmune liver disease, medications, biliary obstruction, Wilson disease and hemochromatosis	histology or radiology (US, MRI, CT, selective hepatic arteriography)	histology
Koh, 2019 [24]	NAFLD	histology	HBV, HCV, alcohol, autoimmune liver disease	histology	histology

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Leung, 2015 [25]	NAFLD	histology or radiology	HBV, HCV, alcohol, Wilson disease, haemochromatosis, autoimmune liver disease, alpha-1-antitrypsin deficiency, cystic fibrosis, other chronic biliary tract diseases and other hepatic malignancies	histology or radiology according to 2011 AASLD	histology or radiology
Liu, 2014 [26]	NAFLD	histology or radiology	-	histology or radiology according to 2012 EASL-EORTC	histology
Mohamad, 2015 [27]	NAFLD	histology or radiology	alcohol or confounding liver diseases	histology or radiology according to 2011 AASLD	histology or radiology
Pinero, 2018 [28]	NAFLD	histology or radiology (US)	HBV, HCV, alcohol, cryptogenic cirrhosis (CC), autoimmune liver disease, hemochromatosis, Wilson disease, toxic liver disease	histology or radiology according to 2012 EASL-EORTC	histology, radiology, biochemistry, endoscopy
Piscaglia, 2016 [29]	NAFLD	radiology (US)	alcohol, other liver diseases	histology or radiology according to 2012 EASL-EORTC	histology, radiology, biochemistry
Sanyal, 2010 [30]	NAFLD	diagnosis-specific claims	diagnosis-specific claims	diagnosis-specific claims	diagnosis-specific claims
Tateishi, 2015 [31]	NAFLD	histology or radiology	HBV, HCV, alcohol, autoimmune liver disease, Budd-Chiari syndrome, hemochromatosis, Wilson disease, and other liver diseases	histology or radiology (MRI, CT, angiography)	-
Than, 2017 [32]	NAFLD	histology or radiology	HCV, alcohol	radiology (US, MRI)	histology or radiology
Tobari, 2020 [33]	NAFLD	histology or radiology	HBV, HCV, alcohol and other liver diseases	histology or radiology (US, MRI, CT, selective hepatic arteriography)	histology, radiology, endoscopy
Tokushige, 2013 [34]	NAFLD	histology or radiology	HBV, HCV, alcohol and other liver diseases	histology or radiology	histology, radiology, biochemistry, endoscopy
van Meer, 2016 [35]	NAFLD	histology or metabolic syndrome	HBV, HCV, alcohol, hemochromatosis and other liver diseases	histology or radiology according to 2011 AASLD	histology, radiology, biochemistry
Wong, 2017 [36]	NAFLD	diagnosis-specific claims	diagnosis-specific claims	diagnosis-specific claims	diagnosis-specific claims
Yang, 2018 [37]	NAFLD	radiology or metabolic syndrome	HBV, HCV, HEV, alcohol, medications, autoimmune liver diseases, Wilson disease, alpha-1-antitrypsin deficiency, hemochromatosis, and Pompe's syndrome	histology	histology
Yasui, 2019 [38]	NASH	histology	HBV, HCV, alcohol, autoimmune liver diseases, Wilson disease, or hemochromatosis, medications, gastrointestinal bypass surgery	histology or radiology according to 2005 AASLD	histology
Yoon, 2018 [39]	NAFLD	histology or radiology	HBV, HCV, alcohol, medications or hereditary disorders	histology or radiology according to 2011 AASLD	radiology or clinical