

Table 2**Useful blood and urine tests in the investigation of liver cirrhosis**

Test	Disease
Antimitochondrial antibody	Primary biliary cholangitis
Antinuclear, smooth muscle (actin), liver/kidney microsomal antibody	Autoimmune hepatitis
Raised serum immunoglobulins:	
● IgG	Autoimmune hepatitis
● IgG4	Autoimmune hepatitis/cholangiopathy and pancreatitis
● IgM	Primary biliary cholangitis
Viral markers	Hepatitis A, B and C
Alpha-fetoprotein	Hepatocellular carcinoma
Serum iron, transferrin saturation, serum ferritin	Hereditary haemochromatosis
Serum and urinary copper, serum caeruloplasmin	Wilson's disease
Alpha-1 antitrypsin	Alpha-1 antitrypsin deficiency
Antinuclear cytoplasmic antibodies (ANCA)	Primary sclerosing cholangitis
Enhanced liver fibrosis test (ELF) - serological marker of liver fibrosis	All
Genetic analyses	HFE gene (hereditary haemochromatosis) Alpha-1 antitrypsin deficiency