

Four key questions before commencing pan-genotypic treatment for hepatitis C virus (HCV) infection	
<ul style="list-style-type: none"> Is HCV RNA detectable? Is cirrhosis present? 	<ul style="list-style-type: none"> Is HBV–HCV or HIV–HCV coinfection present? Are there potential drug–drug interactions?

Checklist for pre-treatment assessment for people with hepatitis C virus (HCV) infection	
HCV virology: <ul style="list-style-type: none"> Anti-HCV (serology) HCV PCR HCV genotype (may be considered) 	<ul style="list-style-type: none"> Indicates HCV exposure Confirms current HCV infection May influence choice and duration of treatment regimen
HCV treatment history — previous regimen and response	Determines treatment regimen and duration
Potential for non-adherence?	Consider medical and social issues that may be barriers to medication adherence
Alcohol intake history	Cofactor for cirrhosis
Check for drug–drug interactions	www.hep-druginteractions.org Includes prescribed, over-the-counter, herbal, illicit drugs
Pregnancy discussion*	
Weight and body mass index	Non-alcoholic fatty liver disease is a cofactor for cirrhosis
Signs of chronic liver disease	
FBE	<ul style="list-style-type: none"> Baseline haemoglobin level Low platelets — suspect portal hypertension
<ul style="list-style-type: none"> LFTs and INR eGFR 	<ul style="list-style-type: none"> Low albumin, raised bilirubin, raised INR suggest advanced cirrhosis Patients with severe renal impairment (eGFR < 30 mL/min/1.73 m² or haemodialysis) should be in specialist care
HBV (HBsAg, anti-HBc, anti-HBs), HIV, [†] HAV serology	<ul style="list-style-type: none"> Specialist referral is recommended for people with HBV or HIV coinfection If seronegative, vaccinate against HAV, HBV
Cirrhosis assessment [‡] <ul style="list-style-type: none"> e.g. FibroScan[®] e.g. APRI 	Thresholds consistent with no cirrhosis: <ul style="list-style-type: none"> Liver stiffness < 12.5 kPa APRI < 1.0 Specialist referral is recommended for people with cirrhosis

anti-HBc = hepatitis B core antibody; anti-HBs = hepatitis B surface antibody; APRI = aspartate aminotransferase to platelet ratio index; DAA = direct-acting antiviral; eGFR = estimated glomerular filtration rate; FBE = full blood examination; HAV = hepatitis A virus; HBsAg = hepatitis B surface antigen; HBV = hepatitis B virus; INR = international normalised ratio; LFT = liver function test; PCR = polymerase chain reaction.

* As there are no safety data for the use of any DAA regimen during pregnancy, treatment of pregnant women is not recommended.

† If testing for HBV and HIV cannot be performed before starting DAA therapy, especially in high-prevalence clinics where people are being screened for HCV using point-of-care tests, HBV and HIV testing should be performed within 4 weeks of starting DAAs.

‡ If cirrhosis assessment cannot be organised in a timely fashion, people should immediately start hepatitis C treatment, especially when there is concern about loss to follow-up.

Support for people living with hepatitis C
People living with hepatitis C can receive information, support and referral from community services, including: <ul style="list-style-type: none"> Hepatitis Australia: http://www.hepatitisaustralia.com Hepatitis Information Line: 1800 437 222 Australian Injecting & Illicit Drug Users League: http://www.aivl.org.au

On-treatment and post-treatment monitoring for virological response	
Routine monitoring for an 8–12-week treatment regimen: [*]	
Week 0	<ul style="list-style-type: none"> Pre-treatment blood tests, including LFTs, HCV PCR
Week 12 [†] post-treatment (SVR12)	<ul style="list-style-type: none"> LFTs, HCV PCR (qualitative)
[*] For more intensive monitoring that may be required in certain populations and for management of treatment interruption, see <i>Australian recommendations for the management of hepatitis C virus infection: a consensus statement (2022)</i> , http://www.gesa.org.au .	
[†] Opportunistic testing of HCV RNA to check for SVR at any time beyond 4 weeks after treatment completion (SVR4) is adequate, especially when there is concern about subsequent loss to follow-up.	
HCV = hepatitis C virus; LFT = liver function test; PCR = polymerase chain reaction; SVR12 = sustained virological response at least 12 weeks after treatment (cure).	

Ongoing monitoring of people after successful hepatitis C treatment outcome (SVR)
SVR, no cirrhosis and normal LFT results (male, ALT ≤ 30 U/L; female, ALT ≤ 19 U/L): <ul style="list-style-type: none"> People who are cured do not require clinical follow-up for hepatitis C
SVR and abnormal LFT results (male, ALT > 30 U/L; female, ALT > 19 U/L): <ul style="list-style-type: none"> Patients with persistently abnormal LFT results require evaluation for other liver diseases and should be referred for gastroenterology review. Investigations to consider include: fasting glucose level, fasting lipid levels, iron studies, ANA, ASMA, anti-LKM antibodies, total IgG and IgM, AMA, coeliac serology, copper level, caeruloplasmin level and α-1-antitrypsin level
SVR and cirrhosis: <ul style="list-style-type: none"> Patients with cirrhosis require long-term monitoring and should be enrolled in screening programs for: <ul style="list-style-type: none"> hepatocellular carcinoma clinically significant portal hypertension osteoporosis
SVR and risk of reinfection: <ul style="list-style-type: none"> Patients with ongoing risk of HCV infection should have at least annual HCV RNA testing Anti-HCV antibodies will remain positive in all people with prior exposure, and this does not require repeated testing
ALT = alanine aminotransferase; AMA = anti-mitochondrial antibody; ANA = anti-nuclear antibodies; ASMA = anti-smooth muscle antibodies; LFT = liver function test; LKM = liver–kidney microsome; SVR = sustained virological response at least 12 weeks after treatment (cure).



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Recommended pan-genotypic treatment protocols for people with hepatitis C virus (HCV) infection and compensated liver disease, including people with HCV-HIV coinfection				
Regimen	HCV genotype	Pill number	Treatment duration	
			No cirrhosis	Cirrhosis
First-line regimens for people who are treatment-naïve				
Sofosbuvir 400 mg, orally, daily + Velpatasvir 100 mg, orally, daily	1–6	1 pill daily	12 weeks	12 weeks
Glecaprevir 300 mg, orally, daily + Pibrentasvir 120 mg, orally, daily	1–6	Once daily (3 pills)	8 weeks	8 weeks*
Regimen for people who do not respond to first-line therapy due to virological failure				
Sofosbuvir 400 mg, orally, daily + Velpatasvir 100 mg, orally, daily + Voxilaprevir 100 mg, orally, daily	1–6	1 pill daily	12 weeks	12 weeks
HIV = human immunodeficiency virus. * A treatment duration of 12 weeks may be considered for patients with compensated cirrhosis, at the discretion of the prescriber.				