• LFTs, HCV PCR (qualitative)

• Pre-treatment blood tests, including LFTs, HCV PCR

On-treatment and post-treatment monitoring for virological response

 More intensive monitoring may be required in certain populations (see Australian recommendations for the management of hepatitis C virus infection: a consensus

Ongoing monitoring of people after successful hepatitis C treatment

SVR, no cirrhosis and normal LFT results (males, ALT \leq 30U/L; females, ALT \leq 19U/L):

HCV = hepatitis C virus; INR = international normalised ratio; LFT = liver function test; PCR = polymerase chain

Four key questions before commencing pan-genotypic treatment for hepatitis C virus (HCV) infection

• Is cirrhosis present?

Is HBV–HCV or HIV–HCV coinfection present?

Is the patient treatment-naive?

Are there potential drug–drug interactions?

Checklist for pre-treatment assessment for people with hepatitis C virus (HCV) infection						
	HCV virology:					
	 Anti-HCV (serology) 	Indicates HCV exposure				
	HCV PCR	Confirms current HCV infection				
	• HCV genotype (where possible)	 May influence choice and duration of treatment regimen 				
	HCV treatment history — previous	Determines treatment regimen and duration				
	regimen and response					
	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	Baseline haemoglobin level				
		 Low platelets — suspect portal hypertension 				
	LFTs and INR	Low albumin, raised bilirubin, raised INR suggest advanced cirrhosis				
	U&Es and eGFR	 Patients with comorbidities or with advanced liver disease are at risk of chronic kidney disease 				
		 Rarely, chronic HCV infection is associated with kidney disease 				
	HBV (HBsAg, anti-HBc, anti-HBs),	Specialist referral is recommended for people with HBV or HIV coinfection				
	HIV, HAV serology	• If seronegative, vaccinate against HAV, HBV				
	Cirrhosis assessment	Thresholds consistent with no cirrhosis:				
	• e.g. FibroScan®	 Liver stiffness < 12.5 kPa 				
	• e.g. APRI	• 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; eGFR = estimated glomerular filtration rate; FBE = full blood examination; HAV = hepatitis A virus; HBsAg = hepatitis B surface antigen; HBV=hepatitis B virus; HCC = hepatocellular carcinoma; INR = international normalised ratio; LFT = liver function test; MELD = Model for End-Stage Liver Disease; U&E = urea and electrolyte.

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

Support for people living with hepatitis C

People living with hepatitis C can receive information, support and referral from community services, including:

- Hepatitis Australia: http://www.hepatitisaustralia.com
- Hepatitis Information Line: 1800 437 222
- Australian Injecting & Illicit Drug Users League: http://www.aivl.org.au



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	SVR and abnormal LFT results (males, ALT $>$ 30 U/L; females, ALT $>$ 19 U/L):
	Patients with persistently abnormal LFT results require evaluation for other liver
	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
-	

Routine monitoring for an 8–12-week treatment regimen:

reaction; SVR = sustained virological response at least 12 weeks after treatment (cure).

• People who are cured do not require clinical follow-up for hepatitis C

statement (May 2020), http://www.gesa.org.au).

SVR and cirrhosis:

outcome (SVR)

Week 0

Week 12 post-treatment (SVR)

- Patients with cirrhosis require long-term monitoring and should be enrolled in screening programs for:
 - hepatocellular carcinoma
 - oesophageal varices

osteoporosis

SVR and risk of reinfection:

- 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).

People who do not respond to hepatitis C treatment

• Specialist referral recommended

Recommended pan-genotypic treatment protocols for treatment-naive people with hepatitis C virus (HCV) infection and compensated liver disease, including people with HCV–HIV coinfection

			Treatment duration			
Regimen*	HCV genotype	Pill burden	No cirrhosis	Cirrhosis		
Sofosbuvir 400 mg, orally, daily						
+	1, 2, 3, 4, 5, 6	1 pill daily	12 weeks	12 weeks [†]		
Velpatasvir 100 mg, orally, daily						
Glecaprevir 300 mg, orally, daily						
+	1, 2, 3, 4, 5, 6	Once daily (3 pills)	8 weeks	12 weeks		
Pibrentasvir 120 mg, orally, daily						

HIV = human immunodeficiency virus. * Dose reduction or dose interruption of direct-acting antiviral therapy is not recommended.

† Addition of ribavirin may be considered for patients with genotype 3 HCV and compensated cirrhosis. Ribavirin dosing is weight-based; recommended dose is 1000 mg for people weighing < 75 kg and 1200 mg for people weighing ≥ 75 kg.







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