



Gain informed consent in a culturally appropriate manner

Discuss:

- Reason for test
- Risk factors
- Meaning of a positive antibody test
- Availability of treatment if HCV PCR positive
- Mechanism for communicating test results

Convey test result

If positive, results should always be provided in person and explain:

- Natural history
- Modes of transmission and risk reduction
- Availability of treatment
- Need for ongoing, potentially lifelong monitoring
- Life style factors e.g. alcohol minimisation, diet
- Availability of peer support services, information and support services
- Refer to Hepatitis Australia National Infoline 1800 437 222

* Check Medicare schedule rebates for HCV RNA testing

| Primary Care Provider | | Specialist review if: |
|--|---|---------------------------------------|
| Testing and Diagnosis | | |
| Confirm chronic HCV infection | <ul style="list-style-type: none"> Anti-HCV +ve indicates exposure to HCV virus HCV RNA +ve confirms current infection | |
| Check HCV genotype, viral load and baseline screening | <ul style="list-style-type: none"> HCV genotype determines treatment choice and is a PBS requirement Quantitative HCV RNA test. If viral load <6 million IU/mL, consider shorter duration of therapy if prescribing sofosbuvir/ledipasvir Full Blood Evaluation (FBE) Urea, electrolytes, creatinine (UEC) Liver function test (LFT) and INR | |
| Pre-treatment Assessment | | |
| Assess liver fibrosis: could they have cirrhosis? | <ul style="list-style-type: none"> Cirrhotic status determines treatment regimen and length (and is a PBS requirement) Detect signs of chronic liver disease: spider naevi, palmar erythema, jaundice, asterixis, hepatomegaly, splenomegaly, ascites, peripheral oedema Undertake non-invasive assessment of fibrosis: <ul style="list-style-type: none"> FibroScan assessment if available (>12.5 kPa consistent with cirrhosis) Serum bio markers such as APRI (if score >1.0, significant risk of cirrhosis), FIB-4, HepaScore A low albumin and/or a low platelet count suggests cirrhosis Liver ultrasound if cirrhosis suspected to detect portal hypertension (splenomegaly, dilated portal vein, ascites, varices) and HCC screening | Cirrhosis is present |
| Detect other causes of liver disease | <ul style="list-style-type: none"> Check for viral coinfection: <ul style="list-style-type: none"> HIV Ab Hepatitis A – check hep A IgG; vaccinate if -ve Hepatitis B – check HBsAg, anti-HBc and anti-HBs; vaccinate if all –ve Heavy alcohol intake Fatty liver disease Further investigations (e.g. iron studies) if indicated or abnormal LFT post treatment | Coinfected with HIV, HBV |
| Detect other major co-morbidities | <ul style="list-style-type: none"> Renal disease Mental health Drug and alcohol use Heart disease- may not be able to use ribavirin (causes anaemia); perform ECG if ribavirin prescribed and patient has risk factors for IHD | Renal impairment (eGFR <50) |
| Review previous HCV treatment | <ul style="list-style-type: none"> Choice and length of treatment is influenced by genotype and prior HCV treatment experience / response | Treatment failure of DAAs |
| Consider contraception, pregnancy | <ul style="list-style-type: none"> DAAs are not recommended for use in pregnant or lactating women Ribavirin is a Category X drug. Dual forms of contraception are required during treatment and for 6 months post-treatment if ribavirin is prescribed | |
| Assess adherence | <ul style="list-style-type: none"> Determine likelihood of adherence with medication, readiness to have treatment and the need for adherence support | |

| Primary Care Provider | | Specialist review if: |
|---|--|---|
| Treatment, Monitoring and Follow-up | | |
| Review drug interactions | <ul style="list-style-type: none"> Check for potential drug interactions with current medications (including over the counter, recreational drugs and supplements) at www.hep-druginteractions.org. DAA selection and dose may need to be modified or current medication may need to be reviewed prior to treatment | Complex drug interactions |
| Select treatment regimen² | <ul style="list-style-type: none"> Refer to the General Statement for Drugs for the Treatment of Hepatitis C¹ and the Australian recommendations for the management of hepatitis C virus infection: a consensus statement² | |
| [Consult with a specialist] | <ul style="list-style-type: none"> If not experienced in hepatitis C treatment, consult with a specialist by phone, email or complete a Remote Consultation Request for Initiation of Hepatitis C Treatment^{2,3} or use the online portal at www.reach-C.ashm.org.au | [Specialist approval is required] |
| Treat and monitor | <ul style="list-style-type: none"> Call the PBS Authority Script Line for approval Monitoring should be individualised, see Table 1 Side effects of DAA therapy are generally mild | Major adverse events |
| Post treatment follow-up (Table 1) | <ul style="list-style-type: none"> SVR (cured), normal LFT, no cirrhosis – no further follow-up needed SVR (cured) but persistently elevated LFTs – require evaluation for other liver diseases and specialist referral No SVR (not cured, HCV detectable 12 weeks post-treatment) need specialist referral Cirrhosis – lifelong monitoring and specialist care <ul style="list-style-type: none"> 6-monthly abdominal ultrasound (hepatocellular carcinoma screening) Endoscopic surveillance for oesophageal varices Osteoporosis; 2-yearly DEXA scans and monitor serum vitamin D | Treatment failure of DAAs Persistently abnormal LFTs |
| <p>PBS: Pharmaceutical Benefits Scheme; INR: International Normalised Ratio; IHD: Ischaemic Heart Disease; DAAs: Direct Acting Antivirals; APRI: AST to Platelet Ratio Index; FIB-4: Fibrosis 4; SVR12: undetectable plasma HCV RNA 12 weeks post treatment</p> | | |

APRI SCORE CALCULATOR

$$APRI = \left(\frac{\text{AST Level (IU/L)}}{\text{AST (Upper Limit of Normal) (IU/L)}} \right) \times \left(\frac{100}{\text{Platelet count (10}^9\text{/L)}} \right)$$

Online calculator at:
www.hepatitisc.uw.edu/page/clinical-calculators/apri

Table 1: Monitoring on-treatment and post-treatment

| Routine monitoring for an 8–12 week treatment regimen | | |
|--|-----------------|------------------------|
| | Blood tests | HCV virology |
| Week 0 | FBE, U&Es, LFTs | HCV RNA (quantitative) |
| [Week 8]* | [LFTs]* | |
| Week 12 after End of Treatment (SVR) | LFTs | HCV RNA (qualitative) |
| <p>*LFTs at week 8 to assess for hepatotoxicity if prescribing elbasvir + grazoprevir</p> <p>Note: Some people will require more frequent monitoring* e.g. to assess for medication adherence, treatment adverse events and drug-drug interactions</p> | | |