

ashm DECISION MAKING IN HEPATITIS C

Modes of transmission

Strategies for reducing risk



1 When To Test

2 Test/s, Results and Actions

Clinical Indicators

- Abnormal liver function tests (LFTs) (males, ALT ≥ 30 U/L; females, ALT ≥ 19 U/L)
- Jaundice

Presence of Risk Factors

- Injecting drug use (current/ever)
- Sharing of drug use equipment
- Born between 1945-1975
- · Born in high prevalence region^
- Blood transfusions, blood products and organ transplant before 1992 in Canada
- Unsterile tattooing/body piercing
- Unsterile medical/dental procedures/blood transfusions in high prevalence countries
- Time in prison
- · Needlestickinjury
- Mother to child transmission
- Sexual transmission in men who have sex with men (MSM)
- Sexual transmission in those who are HIV positive
- Receiving hemodialysis

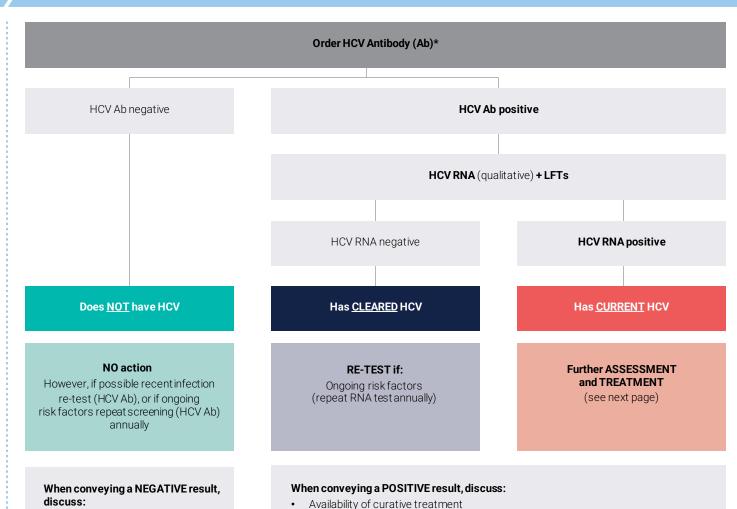
^Africa, the Middle East (in particular Egypt), the Mediterranean, Eastern Europe, and South Asia

Other

- Initiating PrEP
- When someone requests a test

When gaining informed consent before testing, discuss:

- Reason for test
- What a positive antibody result means
- Next steps if antibody positive
- Availability of curative treatment



Modes of transmission and risk reduction

Lifestyle factors e.g. alcohol minimization, diet

Availability of peer support, information and any other support services

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3 Pre-Treatment Assessment

4 Treatment

6 Follow Up

Baseline screening after positive HCV PCR

- ☐ Complete Blood Count (CBC)
- ☐ Urea, electrolytes, creatinine
- ☐ AST. ALT. GGT. ALP. Tbil. Dbil. INR. Alb

Assess liver fibrosis: cirrhotic status

- ☐ Signs of chronic liver disease (spider naevi, palmar erythema, jaundice, encephalopathy, hepatomegaly, splenomegaly, ascites, peripheral oedema)
- ☐ Non-invasive assessment of fibrosis: 😩
- Serum biomarkers such as APRI (<1.0 means cirrhosis unlikely). Calculator available. hepatitisc.uw.edu/page/clinical-calculators/apri
- Elastography assessment e.g. FibroScan® (>12.5 kPa consistent with cirrhosis)
- Ultrasound assessment

Check for other causes of liver disease

- ☐ Check for viral coinfection: <a>В
- HIV Ab
- Hepatitis A check hep A IgG; vaccinate if negative
- Hepatitis B check HBsAq, anti-HBc and anti-HBs; vaccinate if all negative
- ☐ Heavy alcohol intake
- ☐ Fatty liver disease check weight, BMI

Check for other major co-morbidities

☐ Renal impairment (eGFR < 50) 😫

Review previous HCV treatment

 Choice/length of treatment may be influenced by prior HCV treatment experience/response

Consider pregnancy and contraception

 HCV treatment not recommended for use in pregnant or lactating women

Is your patient likely to have cirrhosis? □ No □ Yes Consider discussion with. or referral to experienced HCV treater Has your patient received previous treatment for HCV? □ Yes □ No Consider discussion with. or referral to experienced HCV treater

Treatment		Duration if no cirrhosis present
SOF/VEL~ (Epclusa®)	400/100 mg Once-daily (1 pill, +/- food)	12 weeks
GLE/PIB [~] (Maviret®)	100/40 mg per pill Once-daily (3 pills, + food)	8 weeks

- ☐ Check for drug-drug interactions at hep-druginteractions.org
- ☐ Consult your provincial drug plan for coverage

~SOF/VEL = Sofosbuvir/Velpatasvir; GLE/PIB = Glecaprevir/Pibrentasvir

Disclaimer: Guidance provided on this resource is based on best-practice at the time of publication. This guick-reference guide is not intended to be a comprehensive list of all available options.

Monitoring while on treatment

5 Monitoring

- Generally not required, but approach should be individualized
- Side effects of HCV treatment are generally minimal
- Consider monitoring adherence

12 weeks post 🙎 treatment

- ☐ HCV RNA to confirm cure (sustained virological response SVR12 = cure)
- ☐ Liver enzymes

If your patient has:

No cirrhosis and normal liver enzyme results (males, ALT<30 U/L; females, ALT < 19 U/L)

No clinical follow-up for HCV required

Ongoing risk factors

Annual HCV RNA test. If re-infected offer retreatment. Offer education on harm reduction strategies

Abnormal liver enzyme results



(males, ALT ≥ 30 U/L; females, ALT ≥ 19 Ù/L) Evaluate for other causes of liver disease and refer to specialist for review

Cirrhosis 😫



Refer to specialist. Patients with cirrhosis require long-term monitoring:

- 6-monthly abdominal ultrasound (hepatocellular carcinoma screening)
- Consideration of screening for esophageal varices



CONSULT WITH A SPECIALIST IF:

Pre-treatment

- Coinfected with HIV or HBV

During treatment

Post treatment









This resource was originally developed by the Australasian Society for HIV, Viral Hepatitis and Sexual Health Medicine (ASHM). It has been adapted for Canada by ASHM and the International Network on Health and Hepatitis in Substance Users (INHSU), in partnership with CATIE, CanHepC and the University Health Network