Simplified HCV Treatment Algorithm for Treatment-Naive Adults With Compensated Cirrhosis

WHO IS ELIGIBLE FOR SIMPLIFIED TREATMENT WHO IS NOT ELIGIBLE FOR SIMPLIFIED TREATMENT Patients who have any of the following characteristics: · Adults with chronic hepatitis C (any genotype) who have compensated Current or prior episode of decompensated cirrhosis, cirrhosis (Child-Pugh A) and have not previously received hepatitis C treatment defined as Child-Turcotte-Pugh (CTP) score ≥7 (ascites, Liver biopsy is not required. For the purpose of this guidance, a patient is hepatic encephalopathy, total bilirubin >2.0 mg/dL, presumed to have cirrhosis if they have a FIB-4 score >3.25 or any of the albumin ≤ 3.5 g/dL, or INR ≥ 1.7) following findings from a previously performed test. Prior hepatitis C treatment Transient elastography indicating cirrhosis (eq, FibroScan stiffness >12.5 kPa) End-stage renal disease (ie, eGFR <30 mL/min/m²) • (see Patients with Renal Impairment section) Noninvasive serologic tests above proprietary cutoffs indicating cirrhosis (eg, FibroSure, Enhanced Liver Fibrosis Test, etc) HIV or HBsAg positive > Clinical evidence of cirrhosis (eg, liver nodularity and/or splenomegaly Current pregnancy on imaging, platelet count <150,000/mm³, etc) • Known or suspected hepatocellular carcinoma Prior liver biopsy showing cirrhosis Prior liver transplantation (See HCV guidance for treatment recommendations for these patients.) **PRETREATMENT ASSESSMENT*** Calculate FIB-4 score. Within 3 months of initiating treatment Complete blood count (CBC) Calculate CTP score: Patients with a CTP score ≥7 (ie, CTP B or C) have decompensated cirrhosis and this International normalized ratio (INR) simplified treatment approach is not recommended. Hepatic function panel (ie, albumin, total and direct bilirubin, alanine aminotransferase [ALT], and aspartate aminotransferase [AST]) • Ultrasound of the liver (conducted within the prior 6 months): Evaluate to exclude HCC and subclinical ascites. Calculated glomerular filtration rate (eGFR) Any time prior to starting antiviral therapy Medication reconciliation: Record current medications. including over-the-counter drugs and herbal/dietary supplements. Quantitative HCV RNA (HCV viral load) HIV antigen/antibody test · Potential drug-drug interaction assessment: Drug-drug interactions can be assessed using the AASLD/IDSA Hepatitis B surface antigen guidance or the University of Liverpool drug interaction checker. HCV genotype (if treating with sofosbuvir/velpatasvir) · Education: Educate the patient about proper administration of Before initiating antiviral therapy medications, adherence, and prevention of reinfection. Serum pregnancy testing and counseling about pregnancy risks of Pretreatment laboratory testing (see next column) HCV medication should be offered to women of childbearing age. **ON-TREATMENT MONITORING RECOMMENDED REGIMENS*** Providers may order blood tests to monitor for liver injury during treatment because hepatic Genotype 1-6: decompensation (eg, jaundice, etc) occurs rarely among patients with cirrhosis receiving HCV Glecaprevir (300 mg)/pibrentasvir (120 mg) antiviral treatment. taken with food for a duration of 8 weeks Patients should see a specialist if they develop worsening liver blood tests (eq, bilirubin, AST, ALT, etc); jaundice, ascites, or encephalopathy; or new liver-related symptoms. Genotype 1, 2, 4, 5, or 6: Sofosbuvir (400 mg)/velpatasvir (100 mg) Inform patients taking diabetes medication of the potential for symptomatic hypoglycemia. for a duration of 12 weeks Monitoring for hypoglycemia is recommended. NOTE: Patients with genotype 3 require baseline

NOTE: Patients with genotype 3 require baseline NS5A resistance-associated substitution (RAS) testing. Those <u>without</u> Y93H can be treated with 12 weeks of sofosbuvir/velpatasvir. If Y93H is present, see HCV guidance for treatment recommendations.

POST-TREATMENT ASSESSMENT OF CURE (SVR)

- Assessment of quantitative HCV RNA and a hepatic function panel are recommended 12 weeks or later following completion of therapy to confirm HCV RNA is undetectable (virologic cure) and transaminase normalization.
- Assessment for other causes of liver disease is recommended for patients with elevated transaminase levels after achieving SVR.

- Inform patients taking warfarin of the potential for changes in their anticoagulation status.
 Monitoring INR for subtherapeutic anticoagulation is recommended.
- An in-person or telehealth/phone visit may be scheduled, if needed, for patient support, assessment of symptoms, and/or new medications.

FOLLOW-UP AFTER ACHIEVING VIROLOGIC CURE (SVR)

- Ultrasound surveillance for HCC (with or without alpha-fetoprotein testing) every 6 months is recommended for patients with cirrhosis in accordance with AASLD guidance.
- Upper endoscopic surveillance for esophageal varices is recommended in accordance with AASLD guidance on portal hypertensive bleeding in cirrhosis
- Patients with ongoing risk for HCV infection (eg, IV drug use or MSM engaging in unprotected sex) should be counseled about risk reduction, and tested for HCV RNA annually and whenever they develop elevated ALT, AST, or bilirubin.
- Patients should abstain from alcohol to avoid progression of liver disease.

FOLLOW-UP FOR PATIENTS WHO DO NOT ACHIEVE A VIROLOGIC CURE

- Patients in whom initial HCV treatment fails to achieve cure (SVR) should be evaluated for retreatment by a specialist, in accordance with AASLD/IDSA guidance.
- Ultrasound surveillance for hepatocellular carcinoma (with or without alpha-fetoprotein testing) every 6 months is recommended for patients with cirrhosis, in accordance with AASLD guidance.
- Assessment for disease progression every 6 to 12 months with a hepatic function panel, CBC, and INR is recommended.
- Patients should abstain from alcohol to avoid progression of liver disease.



* More detailed descriptions of the patient evaluation process and antivirals used for HCV treatment can be found at www.hcvguidelines.org. Updated: December 10, 2019 © 2019 American Association for the Study of Liver Diseases and the Infectious Diseases Society of America.

