

Clinical Policy: Sofosbuvir (Sovaldi)

Reference Number: CP.CPA.176

Effective Date: 11.01.16 Last Review Date: 08.23 Line of Business: Commercial

Revision Log

See <u>Important Reminder</u> at the end of this policy for important regulatory and legal information.

Description

Sofosbuvir (Sovaldi®) is hepatitis C virus (HCV) nucleotide analog NS5B polymerase inhibitor.

FDA Approved Indication(s)

Sovaldi is indicated for the treatment of chronic HCV infection in:

- Adult patients without cirrhosis or with compensated cirrhosis:
 - o Genotype 1 or 4 for use in combination with pegylated interferon and ribavirin (RBV).
 - o Genotype 2 or 3 for use in combination with RBV.
- Pediatric patients 3 years of age and older with genotype 2 or 3 without cirrhosis or with compensated cirrhosis in combination with RBV.

Policy/Criteria

Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.

It is the policy of health plans affiliated with Centene Corporation[®] that Sovaldi is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

A. Chronic Hepatitis C Infection (must meet all):

- 1. Diagnosis of chronic HCV infection as evidenced by detectable serum HCV RNA levels by quantitative assay in the last 6 months;
- 2. Confirmed HCV genotype is one of the following (a or b):
 - a. For adults (age \geq 18 years): Genotypes 1, 2, 3, 4, 5, or 6;
 - b. For pediatrics (age \geq 3 years): Genotypes 2 or 3;
 - *Chart note documentation and copies of lab results are required
- 3. Documentation of treatment status of the member (treatment-naïve or treatment-experienced);
- 4. Documentation of cirrhosis status of the member (no cirrhosis, compensated cirrhosis, or decompensated cirrhosis);
- 5. Prescribed by or in consultation with a gastroenterologist, hepatologist, infectious disease specialist, or provider who has expertise in treating HCV based on a certified training program (*see Appendix F*);
- 6. Member must use **Epclusa**® (*brand preferred*) or **Vosevi**®, unless clinically significant adverse effects are experienced or both are contraindicated (*see Appendix E*);*



*Coadministration with omeprazole up to 20 mg is not considered acceptable medical justification for inability to use Epclusa

- 7. For pediatric patients (age \geq 3 years) with genotype 2 or 3: Use is in combination with RBV:
- 8. Life expectancy \geq 12 months with HCV treatment;
- 9. Prescribed regimen is consistent with an FDA or AASLD-IDSA recommended regimen (see Section V Dosage and Administration for reference);
- 10. Dose does not exceed 400 mg per day.

Approval duration: up to a total of 24 weeks*

(*Approved duration should be consistent with a regimen in Section V Dosage and Administration)

B. Other diagnoses/indications (must meet all):

- 1. Member must use **Epclusa** (*brand preferred*) or **Vosevi**, unless clinically significant adverse effects are experienced or both are contraindicated (*see Appendix E*);*

 *Coadministration with omeprazole up to 20 mg is not considered acceptable medical justification for inability to use Epclusa
- 2. One of the following (a or b):
 - a. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to one of the following policies (i or ii):
 - i. For drugs on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the no coverage criteria policy for the relevant line of business: CP.CPA.190 for commercial; or
 - ii. For drugs NOT on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the non-formulary policy for the relevant line of business: CP.CPA.190 for commercial; or
 - b. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 2a above does not apply, refer to the off-label use policy for the relevant line of business: CP.CPA.09 for commercial.

II. Continued Therapy

A. Chronic Hepatitis C Infection (must meet all):

- 1. Member meets one of the following (a, b, or c):
 - a. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
 - b. Member is currently receiving medication and is enrolled in a state and product with continuity of care regulations (refer to state specific addendums for CC.PHARM.03A and CC.PHARM.03B);
 - c. Must meet both of the following (i and ii):
 - i. Documentation supports that member is currently receiving Sovaldi for chronic HCV infection and has recently completed at least 60 days of treatment with Sovaldi:
 - ii. Confirmed HCV genotype is one of the following (1 or 2):
 - 1) For adults (age \geq 18 years): Genotypes 1, 2, 3, 4, 5, or 6;
 - 2) For pediatrics (age ≥ 3 years): Genotypes 2 or 3;
- 2. Member is responding positively to therapy;



3. Dose does not exceed 400 mg per day.

Approval duration: up to a total of 24 weeks*

(*Approved duration should be consistent with a regimen in Section V Dosage and Administration)

B. Other diagnoses/indications (must meet 1 or 2):

- 1. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to one of the following policies (a or b):
 - a. For drugs on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the no coverage criteria policy for the relevant line of business: CP.CPA.190 for commercial; or
 - b. For drugs NOT on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the non-formulary policy for the relevant line of business: CP.CPA.190 for commercial; or
- 2. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policy for the relevant line of business: CP.CPA.09 for commercial.

III. Diagnoses/Indications for which coverage is NOT authorized:

A. Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off-label use policy – CP.CPA.09 for commercial or evidence of coverage documents.

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key

AASLD: American Association for the Study IDSA: Infectious Diseases Society of

of Liver Diseases America

FDA: Food and Drug Administration NS3/4A, NS5A/B: nonstructural protein

HBV: hepatitis B virus PegIFN: pegylated interferon

HCV: hepatitis C virus RBV: ribavirin

HIV: human immunodeficiency virus RNA: ribonucleic acid

Appendix B: Therapeutic Alternatives

This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may not be a formulary agent for all relevant lines of business and may require prior authorization.

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
sofosbuvir/ velpatasvir (Epclusa®)	Without cirrhosis or with compensated cirrhosis, treatment naïve or treatment experienced*: Genotypes 1 through 6	Adult/Peds ≥ 30 kg: sofosbuvir 400 mg /velpatasvir 100 mg (one tablet) per day;
	One tablet PO QD for 12 weeks	Peds 17 to < 30 kg: sofosbuvir 200 mg



Drug Name	Dosing Regimen	Dose Limit/
		Maximum Dose /velpatasvir 50 mg per day;
		Peds < 17 kg: sofosbuvir 150 mg /velpatasvir 37.5 mg per day
Vosevi® (sofosbuvir/ velpatasvir/ voxilaprevir) + RBV	Treatment-experienced with Vosevi with or without compensated cirrhosis: Genotype 1 through 6	Varies
	Vosevi one tablet PO QD with weight-based RBV for 24 weeks [‡]	
Vosevi® (sofosbuvir/ velpatasvir/ voxilaprevir)	Treatment-experienced with Mavyret without cirrhosis: Genotype 1 through 6	
	Vosevi one tablet PO QD for 12 weeks [‡]	
Vosevi® (sofosbuvir/ velpatasvir/ voxilaprevir) +	Treatment-experienced with Mavyret with compensated cirrhosis: Genotype 1 through 6	
RBV	Vosevi one tablet PO QD with weight-based RBV for 12 weeks [‡]	

Therapeutic alternatives are listed as Brand name® (generic) when the drug is available by brand name only and generic (Brand name®) when the drug is available by both brand and generic.

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s): when used in combination with peginterferon alfa/RBV or RBV alone, all contraindications to peginterferon alfa and/or RBV also apply to Sovaldi combination therapy.
- Boxed warning(s): risk of hepatitis B virus (HBV) reactivation in patients coinfected with HCV and HBV.

^{*}From clinical trials, treatment-experienced refers to previous treatment with NS3/4A protease inhibitor (telaprevir, boceprevir, or simeprevir) and/or peginterferon/RBV unless otherwise stated.

 $[\]dagger$ Off-label, AASLD-IDSA guideline-supported dosing regimen



Appendix D: Direct-Acting Antivirals for Treatment of HCV Infection

Brand Name	ne Drug Class				
	NS5A Inhibitor	Nucleotide Analog NS5B Polymerase Inhibitor	Non-Nucleoside NS5B Palm Polymerase Inhibitor	NS3/4A Protease Inhibitor (PI)	CYP3A Inhibitor
Epclusa*	Velpatasvir	Sofosbuvir			
Harvoni*	Ledipasvir	Sofosbuvir			
Mavyret*	Pibrentasvir			Glecaprevir	
Sovaldi		Sofosbuvir			
Viekira Pak*	Ombitasvir		Dasabuvir	Paritaprevir	Ritonavir
Vosevi*	Velpatasvir	Sofosbuvir		Voxilaprevir	
Zepatier*	Elbasvir			Grazoprevir	

^{*}Combination drugs

Appendix E: General Information

- Unacceptable medical justification for inability to use Epclusa (preferred product):
 - o Coadministration with omeprazole up to 20 mg is not considered acceptable medical justification for inability to use Epclusa.
 - Per the Epclusa Prescribing Information: "If it is considered medically necessary to coadminister, Epclusa should be administered with food and taken 4 hours before omeprazole 20 mg."
- HBV reactivation is a Black Box Warning for all direct-acting antiviral drugs for the
 treatment of HCV. HBV reactivation has been reported when treating HCV for patients
 co-infected with HBV, leading to fulminant hepatitis, hepatic failure, and death, in some
 cases. Patients should be monitored for HBV reactivation and hepatitis flare during
 HCV treatment and post-treatment follow-up, with treatment of HBV infection as
 clinically indicated.
- Child-Pugh Score:

	1 Point	2 Points	3 Points
Bilirubin	Less than 2 mg/dL	2-3 mg/dL	Over 3 mg/dL
	Less than 34 umol/L	34-50 umol/L	Over 50 umol/L
Albumin	Over 3.5 g/dL	2.8-3.5 g/dL	Less than 2.8 g/dL Less
	Over 35 g/L	28-35 g/L	than 28 g/L
INR	Less than 1.7	1.7 - 2.2	Over 2.2
Ascites	None	Mild / medically	Moderate-severe /
		controlled	poorly controlled
Encephalopathy	None	Mild / medically	Moderate-severe /
		controlled Grade I-II	poorly controlled. Grade
			III-IV

Child-Pugh class is determined by the total number of points: A = 5-6 points; B = 7-9 points; C = 10-15 points.



Appendix F: Healthcare Provider HCV Training

Acceptable HCV training programs and/or online courses include, but are not limited to the following:

- Hepatitis C online course (https://www.hepatitisc.uw.edu/): University of Washington is funded by the Division of Viral Hepatitis to develop a comprehensive, online self-study course for medical providers on diagnosis, monitoring, and management of hepatitis C virus infection. Free CME and CNE credit available.
- Fundamentals of Liver Disease (https://liverlearning.aasld.org/fundamentals-of-liver-disease): The AASLD, in collaboration with ECHO, the American College of Physicians (ACP), CDC, and the Department of Veterans Affairs, has developed Fundamentals of Liver Disease, a free, online CME course to improve providers' knowledge and clinical skills in hepatology.
- Clinical Care Options: http://www.clinicaloptions.com/hepatitis.aspx
- CDC training resources: https://www.cdc.gov/hepatitis/resources/professionals/trainingresources.htm

V. Dosage and Administration

- sanga mana	Indication:				
	Adult patients with chronic HCV infection				
Drugs	Dosing Regimen	Maximum Dose	Reference		
Sovaldi +	Genotype 1 or 4	Sovaldi 400	FDA-approved		
pegIFN +	Treatment-naïve without cirrhosis or	mg/day	labeling		
RBV	with compensated cirrhosis:				
	Sovaldi 400 mg + pegIFN + weight- based RBV for 12 weeks				
Sovaldi +	Genotype 2	Sovaldi 400	FDA-approved		
RBV	Treatment-naïve and treatment-	mg/day	labeling		
	experienced*, without cirrhosis or				
	with compensated cirrhosis:				
	Sovaldi 400 mg + weight-based RBV for 12 weeks				
Sovaldi +	Genotype 3	Sovaldi 400	FDA-approved		
RBV	Treatment-naïve and treatment-	mg/day	labeling		
	experienced*, without cirrhosis or				
	with compensated cirrhosis:				
	Sovaldi 400 mg + weight-based RBV				
	for 24 weeks				
Sovaldi +	Genotypes 1 through 6	Sovaldi 400	AASLD/IDSA		
Mavyret +	Patients with prior sofosbuvir/	mg/day	(updated October		
RBV	velpatasvir/voxilaprevir or		2022)		
	glecaprevir/pibrentasvir treatment				
	failure, with or without compensated				
	cirrhosis [‡]				



Indication: Adult patients with chronic HCV infection				
Drugs	Dosing Regimen	Maximum Dose	Reference	
	Sovaldi 400 mg + Mavyret 300 mg/120 mg + weight-based RBV for 16 weeks			

AASLD/IDSA treatment guidelines for chronic hepatitis C infection are updated at irregular intervals; refer to the most updated AASLD/IDSA guideline for most accurate treatment regimen.

^{*}Treatment-experienced refers to previous treatment with pegIFN with or without RBV unless otherwise stated. † Off-label, AASLD-IDSA guideline-supported dosing regimen

Indication: Pediatric patients (age ≥ 3 years) with chronic HCV infection				
Drugs	Dosing Regimen	Maximum Dose	Reference	
Sovaldi + RBV	Genotype 2 Treatment-naïve or treatment-experienced*, without cirrhosis or with compensated cirrhosis: • ≥ 35 kg: Sovaldi 400 mg + weight-based RBV for 12 weeks • 17 to < 35 kg: Sovaldi 200 mg + weight-based RBV for 12 weeks • < 17 kg: Sovaldi 150 mg + weight-based RBV for 12 weeks	Sovaldi 400 mg/day	FDA-approved labeling	
Sovaldi + RBV	Genotype 3 Treatment-naïve or treatment-experienced*, without cirrhosis or with compensated cirrhosis: • ≥ 35 kg: Sovaldi 400 mg + weight-based RBV for 24 weeks • 17 to < 35 kg: Sovaldi 200 mg + weight-based RBV for 24 weeks • < 17 kg: Sovaldi 150 mg + weight-based RBV for 24 weeks	Sovaldi 400 mg/day	FDA-approved labeling	

AASLD/IDSA treatment guidelines for chronic hepatitis C infection are updated at irregular intervals; refer to the most updated AASLD/IDSA guideline for most accurate treatment regimen.

VI. Product Availability

Tablets: 400 mg, 200 mgOral pellets: 200 mg, 150 mg

^{*}Treatment-experienced refers to previous treatment with peginterferon with or without RBV unless otherwise stated.



VII. References

- 1. Sovaldi Prescribing Information. Foster City, CA: Gilead Sciences, Inc.; March 2020. Available at:
 - https://www.accessdata.fda.gov/drugsatfda_docs/label/2020/204671s017,212480s002lbl.pdf. Accessed April 17, 2023.
- 2. American Association for the Study of Liver Diseases/ Infectious Disease Society of America (AASLD-IDSA). HCV guidance: recommendations for testing, managing, and treating hepatitis C. Last updated October 22, 2022. Available at: https://www.hcvguidelines.org/. Accessed May 5, 2023.
- 3. CDC. Viral hepatitis: Q&As for health professionals. Last updated August 7, 2020. Available at: https://www.cdc.gov/hepatitis/hcv/hcvfaq.htm. Accessed May 5, 2023.

Reviews, Revisions, and Approvals	Date	P&T Approval Date
3Q 2019 annual review: revised redirection to Mavyret with its newly FDA-approved age (12 years) and weight limit (45 kg); references reviewed and updated.	05.13.19	08.19
Via CP.PCH.20: CP.CPA.176 retired and combined with HIM to CP.PCH.20; added requirement that life expectancy ≥ 12 months with HCV treatment and participation in a medication adherence program; added new prescriber requirement to include a "provider who has expertise in treating HCV based on a certified training program"; Appendix F (Healthcare Provider HCV Training) added. RT4: updated dosing recommendations to 8 weeks total duration of therapy for treatment naive HCV with compensated cirrhosis across all genotypes (1-6).	12.03.19	02.20
Via CP.PCH.20: RT4: updated redirection for pediatric patients with genotype 2 or 3 to reflect the pediatric extension for Epclusa to age 6 years of weight ≥ 17 kg.	04.02.20	
3Q 2020 annual review: CP.PCH.20 retired and CP.CPA.176 unretired per June SDC and prior clinical guidance; removed coverage for Sovaldi + Daklinza as off-label combination is no longer recommended and added coverage for the combination of Sovaldi + Mavyret + ribavirin for patients experiencing treatment failure with Vosevi per updated AASLD/IDSA HCV guideline; references reviewed and updated.	06.10.20	08.20
Per June SDC and prior clinical guidance revised redirection to only include Epclusa authorized generic and Mavyret (Harvoni AG 8 weeks and Zepatier no longer preferred); Harvoni AG redirection retained only for age between 3 to 6 years with genotype 1 as Epclusa and Mavyret are not approvable in this population. Per September SDC and prior clinical guidance for 1/1/21 effective, revised redirection to require brand Epclusa or Vosevi.	07.14.20	
3Q 2021: updated criteria for age requirement of Epclusa use due to Epclusa's pediatric age expansion; added clarification that the brand	07.23.21	08.21



Reviews, Revisions, and Approvals	Date	P&T
		Approval Date
version of Eplcusa is the preferred alternative; included reference to Appendix E with the addition of unacceptable rationale for bypassing preferred agents; updated Appendix B therapeutic alternatives; references reviewed and updated.		
3Q 2022 annual review: no significant changes; added omeprazole coadministration as unacceptable rationale for not using preferred Epclusa in criteria and Appendix E; removed redundant rationale in Appendix E references; references reviewed and updated.	07.20.22	08.22
Template changes applied to other diagnoses/indications and continued therapy section.	09.22.22	
3Q 2023 annual review: eliminated adherence program participation criterion since member is already being managed by an HCV-trained specialist and due to competitor analysis; added redirections to other diagnoses initial criteria section; references reviewed and updated.	04.17.23	08.23

Important Reminder

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. The Health Plan makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. "Health Plan" means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan's affiliates, as applicable.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable Health Plan-level administrative policies and procedures.

This clinical policy is effective as of the date determined by the Health Plan. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal and regulatory requirements relating to provider notification. If there is a discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. The Health Plan retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.



This clinical policy does not constitute medical advice, medical treatment or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care, and are solely responsible for the medical advice and treatment of members. This clinical policy is not intended to recommend treatment for members. Members should consult with their treating physician in connection with diagnosis and treatment decisions.

Providers referred to in this clinical policy are independent contractors who exercise independent judgment and over whom the Health Plan has no control or right of control. Providers are not agents or employees of the Health Plan.

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