

# **Clinical Policy: Sofosbuvir (Sovaldi)**

Reference Number: CP.PHAR.281 Effective Date: 09.16 Last Review Date: 08.22 Line of Business: Medicaid

**Revision Log** 

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

## Description

Sofosbuvir (Sovaldi<sup>®</sup>) 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:
  - Genotype 1 or 4 for use in combination with pegylated interferon and ribavirin (RBV).
  - 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<sup>®</sup> 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. Must meet one of the following (a or b) (*see Appendix E*):
  - a. If member has not experienced treatment failure with Vosevi<sup>®</sup>: Member must use **sofosbuvir/velpatasvir (Epclusa<sup>®</sup>)** (*authorized generic preferred*) or **Mavyret**<sup>®</sup>, unless clinically significant adverse effects are experienced or



both are contraindicated;\*

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

- b. If treatment-experienced with Vosevi: Member must use **Sovaldi in combination with Mavyret and RBV**, unless any individual agent is contraindicated or clinically significant adverse effects are experienced;
- 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. Member agrees to participate in a medication adherence program including both of the following components:
  - a. Medication adherence monitored by pharmacy claims data or member report;
  - b. Member's risk for non-adherence identified by adherence program or member/prescribing physician follow-up at least every 4 weeks;
- 10. Prescribed regimen is consistent with an FDA or AASLD-IDSA recommended regimen (*see Section V Dosage and Administration for reference*);
- 11. 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.PMN.255 for Medicaid; 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.PMN.16 for Medicaid; 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.PMN.53 for Medicaid.

#### **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):
  - 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;
- 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.PMN.255 for Medicaid; 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.PMN.16 for Medicaid; 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.PMN.53 for Medicaid.

#### **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 policies – CP.PMN.53 for Medicaid or evidence of coverage documents.

#### **IV. Appendices/General Information**

Appendix A: Abbreviation/Acronym Key
AASLD: American Association for the Study of Liver Diseases
FDA: Food and Drug Administration
HBV: hepatitis B virus
HCC: hepatocellular carcinoma
HCV: hepatitis C virus
HIV: human immunodeficiency virus

IDSA: Infectious Diseases Society of America NS3/4A, NS5A/B: nonstructural protein PegIFN: pegylated interferon RBV: ribavirin 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	Without cirrhosis or with compensated cirrhosis, treatment naïve or treatment	Adult/Peds $\ge$ 30 kg: sofosbuvir 400 mg

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Drug Name	Dosing Regimen	Dose Limit/
Drug Maine		Maximum Dose
(Epclusa <sup>®</sup> )	experienced*:	/velpatasvir 100 mg
	Genotypes 1 through 6	(one tablet) per day;
	One tablet PO QD for 12 weeks	Peds 17 to < 30 kg: sofosbuvir 200 mg /velpatasvir 50 mg per day;
		Peds < 17 kg: sofosbuvir 150 mg /velpatasvir 37.5 mg per day
Mavyret <sup>®</sup>	Treatment-naïve:	Adults/Peds age $\geq 12$
(glecaprevir /pibrentasvir)	Genotypes 1 through 6	years or with body weight $\ge$ 45 kg:
	Without cirrhosis or with compensated	glecaprevir 300
	cirrhosis:	mg/pibrentasvir 120
	3 tablets PO QD for 8 weeks	mg (3 tablets) per
Mavyret <sup>®</sup>	Treatment-experienced with IFN/pegIFN,	day;
(glecaprevir	RBV and/or sofosbuvir:	
/pibrentasvir)	Genotypes 1, 2, 4, 5, or 6	Peds age 3 years to <
		12 years of age with
	Without cirrhosis:	body weight < 20 kg:
	3 tablets PO QD for 8 weeks	glecaprevir 150 mg/pibrentasvir 60
	With compensated cirrhosis:	mg per day;
	3 tablets PO QD for 12 weeks	81,,,
Mavyret®	Treatment-experienced with IFN/pegIFN,	Peds age 3 years to <
(glecaprevir	RBV and/or sofosbuvir:	12 years of age with
/pibrentasvir)	Genotype 3	body weight 20 kg to
		< 30 kg: glecaprevir
	Without cirrhosis or with compensated	200 mg/pibrentasvir
	cirrhosis:	80 mg per day;
	3 tablets PO QD for 16 weeks	
		Peds age 3 years to <
		12 years of age with
		body weight 30 kg to
		< 45 kg: glecaprevir
		250 mg/pibrentasvir
		100 mg per day

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

\*Treatment-experienced refers to previous treatment with NS3/4A protease inhibitor (telaprevir, boceprevir, or simeprevir) and/or peginterferon/RBV unless otherwise stated.

*† Off-label, AASLD-IDSA guideline-supported dosing regimen* 



## 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.

Brand		2	Drug Class		
Name	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	

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

\*Combination drugs

#### Appendix E: General Information

- Acceptable medical justification for inability to use Mavyret (preferred product):
  - Moderate or severe hepatic impairment (Child-Pugh B or C) or those with any history of prior hepatic decompensation: use of Mavyret is not recommended as postmarketing cases of hepatic decompensation/failure have been reported in these patients.
  - Drug-drug interactions with the following agents:
    - Atazanavir
    - Efavirenz
- <u>Unacceptable medical justification for inability to use Epclusa (preferred product):</u>
  - 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	<b>3</b> 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
	Over 35 g/L	28-35 g/L	Less than 28 g/L
INR	Less than 1.7	1.7 - 2.2	Over 2.2
Ascites	None	Mild /	Moderate-severe /
		medically	poorly controlled
Encephalopathy	None	Mild /	Moderate-severe /
		medically	poorly controlled.
		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-liverdisease): 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

	Indication:			
D	Adult patients with chronic H			
Drugs	Dosing Regimen	Maximum Dose	Reference	
Sovaldi + pegIFN + RBV	<b>Genotype 1 or 4</b> Treatment-naïve without cirrhosis or with compensated cirrhosis: Sovaldi 400 mg + pegIFN + weight- based RBV for 12 weeks	Sovaldi 400 mg/day	FDA-approved labeling	
Sovaldi +	Genotype 2	Sovaldi 400	FDA-approved	
RBV	Treatment-naïve and treatment-	mg/day	labeling	



	Indication: Adult patients with chronic HCV infection				
Drugs	Dosing Regimen	Maximum Dose	Reference		
	experienced*, without cirrhosis or with compensated cirrhosis: Sovaldi 400 mg + weight-based RBV				
	for 12 weeks				
Sovaldi + RBV	Genotype 3 Treatment-naïve and treatment- experienced*, without cirrhosis or with compensated cirrhosis: Sovaldi 400 mg + weight-based RBV for 24 weeks	Sovaldi 400 mg/day	FDA-approved labeling		
Sovaldi + Mavyret + RBV	Genotypes 1 through 6 Patients with prior sofosbuvir/ velpatasvir/voxilaprevir treatment failure, with or without compensated cirrhosis Sovaldi 400 mg + Mavyret 300 mg/120 mg + weight-based RBV for 16 weeks	Sovaldi 400 mg/day	AASLD/IDSA (updated September 2021)		

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 peginterferon with or without RBV unless otherwise stated.

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



Indication:Pediatric patients (age $\geq$ 3 years) with chronic HCV infection				
Drugs	Dosing Regimen	Maximum Dose	Reference	
Sovaldi + RBV	<ul> <li>Genotype 3 Treatment-naïve or treatment- experienced*, without cirrhosis or with compensated cirrhosis:</li> <li>≥ 35 kg: Sovaldi 400 mg + weight-based RBV for 24 weeks</li> <li>17 to &lt; 35 kg: Sovaldi 200 mg + weight-based RBV for 24 weeks</li> <li>&lt; 17 kg: Sovaldi 150 mg + weight-based RBV for 24 weeks</li> </ul>	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. \*Treatment-experienced refers to previous treatment with peginterferon with or without RBV unless otherwise stated.

#### VI. Product Availability

- Tablets: 400 mg, 200 mg
- Oral pellets: 200 mg, 150 mg

#### VII. References

- 1. Sovaldi Prescribing Information. Foster City, CA: Gilead Sciences, Inc.; March 2020. Available at: http://www.sovaldi.com/. Accessed May 5, 2022.
- 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 September 29, 2021. Available at: https://www.hcvguidelines.org/. Accessed May 5, 2022.
- 3. CDC. Hepatitis C Q&As for health professionals. Last updated August 7, 2020. Available at: https://www.cdc.gov/hepatitis/hcv/hcvfaq.htm. Accessed May 5, 2022.

Reviews, Revisions, and Approvals	Date	P&T Approval Date
3Q 2018 annual review: removed requirement for HBV verification; added requirement for documentation of previous treatment and cirrhosis status; expanded duration of tx required for COC from 30 days to 60 days; required verification of genotype for COC; removed conditional requirement for RBV CI; references reviewed and updated.	05.22.18	08.18
Removed advanced liver disease requirement to align with 2018 AASLD/IDSA hepatitis C treatment guidelines.	04.18.19	05.19



Reviews, Revisions, and Approvals	Date	P&T Approval Date
3Q 2019 annual review: removed documented sobriety from alcohol and illicit IV drugs for $\geq 6$ months prior to starting therapy; references reviewed and updated.	06.26.19	08.19
RT4: updated Sovaldi FDA-approved age (3 years), dosage forms, and pediatric dosing information; updated Mavyret dosing recommendations to 8 weeks total duration of therapy for treatment-naïve HCV with compensated cirrhosis across all genotypes (1-6).	10.03.19	
2020 SDC decisions implemented added preferencing for AG Epclusa, Mavyret, or AG Harvoni (8 weeks only); removed redirection to Mavyret based on contraindications criteria; added new prescriber requirement to include a "provider who has expertise in treating HCV based on a certified training programAppendix F (Healthcare Provider HCV Training) added.	12.17.19	02.20
Removed redirection to Harvoni AG for patients age 6 years or weight at least 17 kg per March SDC and prior clinical guidance.	03.03.20	
3Q 2020 annual review: removed coverage for Sovaldi + Daklinza as off-label combination is no longer recommended and added coverage for the combination of Sovaldi with Mavyret and ribavirin for patients experiencing treatment failure with Vosevi per updated AASLD/IDSA HCV guideline; references reviewed and updated.	05.20.20	08.20
3Q 2021 annual review: updated criteria for age requirement of Epclusa & Mavyret use due to their pediatric age expansions; removed Harvoni redirection for genotype 1 ages 3-6 as Sovaldi is not indicated for genotype 1 in this population; included reference to Appendix E with the addition of un/acceptable rationale for bypassing preferred agents; updated Appendix B therapeutic alternatives and section V dosing tables; references reviewed and updated.	07.22.21	08.21
Fixed typo in Section I.A.6. from "(a, b, or c)" to "(a or b)"	01.11.22	
3Q 2022 annual review: no significant changes; added omeprazole coadministration as unacceptable rationale for not using preferred Epclusa to criteria and Appendix E; removed redundant rationale from Appendix E; reviewed and updated.	07.20.22	08.22
Template changes applied to continued therapy section.	09.20.22	

#### 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

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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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#### Note:

**For Medicaid members**, when state Medicaid coverage provisions conflict with the coverage provisions in this clinical policy, state Medicaid coverage provisions take precedence. Please refer to the state Medicaid manual for any coverage provisions pertaining to this clinical policy.

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