

## **Clinical Policy: Ombitasvir/Paritaprevir/Ritonavir (Technivie)**

Reference Number: OH.PHAR.PPA.07

Effective Date: 01.19

Last Review Date: 12.18

Line of Business: Medicaid

[Revision Log](#)

See [Important Reminder](#) at the end of this policy for important regulatory and legal information.

### **Description**

Ombitasvir/paritaprevir/ritonavir (Technivie<sup>™</sup>) is a combination fixed-dose oral tablet formulation consisting of an NS5A inhibitor (ombitasvir), NS3/4A protease inhibitor (paritaprevir), and CYP3A inhibitor (ritonavir).

### **FDA Approved Indication(s)**

Technivie is indicated in combination with ribavirin for the treatment of patients with genotype 4 chronic hepatitis C virus (HCV) infection without cirrhosis or with compensated cirrhosis.

### **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 Technivie 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 90 days;
2. Confirmed HCV genotype is 4;  
*\*Chart note documentation and copies of lab results are required*
3. If cirrhosis is present, confirmation of Child-Pugh A status;
4. Prescribed by or in consultation with a gastroenterologist, hepatologist, infectious disease specialist or other hepatitis specialist; Consult must be within the past year with documentation of recommended regimen;
5. Age  $\geq$  18 years;
6. Member is contraindicated to treatment with Mavyret due to current treatment with efavirenz or atazanavir;  
*\*See Appendix F for additional details on acceptable contraindications*
7. Prescribed in combination with RBV;
8. Member does not have limited life expectancy (less than 12 months) due to non-liver-related comorbid conditions;
9. Documentation in provider notes (**must be submitted**) showing that member has had no abuse of alcohol and drugs for the previous 6 months. **MUST submit** urine drug screen for members with history of abuse of drugs other than alcohol. Counseling **MUST** be provided and documented regarding non-abuse of alcohol and drugs as well as education on how to prevent HCV transmission;

10. Documentation of Metavir Fibrosis score, documentation of the method used and date fibrosis score was obtained;
11. Prescriber has discussed the importance of adherence to office visits, lab testing, imaging, procedures and to taking requested regimen as prescribed. Prescriber attests that member will be adherent to treatment plan;
12. If prescribed regimen includes ribavirin, the following criteria must be met (must meet all):
  - a. Member or member's partner(s) is NOT pregnant and is NOT planning to become pregnant during treatment or within 6 months of stopping;
  - b. Agreement that member and their partner(s) will use two forms of effective contraception during treatment and for at least 6 months after stopping;
  - c. Verification that monthly pregnancy tests will be performed throughout treatment;
  - d. Members with CrCl <50 ml/min (moderate or severe renal dysfunction, ESRD, HD) should have dosage reduced;
  - e. At the time of request, member does NOT meet any of the following:
    - 1) History of severe or unstable cardiac disease
    - 2) Diagnosis of hemoglobinopathy (e.g., thalassemia major, sickle cell anemia)
    - 3) Hypersensitivity to ribavirin
    - 4) Baseline platelet count <70,000 cells/mm<sup>3</sup>
    - 5) ANC <1500 cells/mm<sup>3</sup>
    - 6) Hb <12 g/dl in women or <13 g/dl in men
13. Prescribed regimen is consistent with an FDA or AASLD-IDSIA recommended regimen (*see Section V Dosage and Administration for reference*);
14. Dose does not exceed ombitasvir/paritaprevir/ritonavir 25 mg/150 mg/100 mg (2 tablets) per day.

**Approval duration: 12 weeks\***

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

**B. Other diagnoses/indications**

1. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): CP.PMN.53 for Medicaid.

**II. Continued Therapy**

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

1. Member meets one of the following (a or b):
  - a. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
  - b. Must meet both of the following (i and ii):
    - i. Documentation supports that member is currently receiving Technivie for chronic HCV infection and has recently completed at least three quarters of the full regimen with Technivie;
    - ii. Confirmed HCV genotype is 4;
2. Member is responding positively to therapy;

- Dose does not exceed ombitasvir/paritaprevir/ritonavir 25 mg/150 mg/100 mg (2 tablets) per day.

**Approval duration: up to a total of 12 weeks\***

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

**B. Other diagnoses/indications:**

- Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): CP.PMN.53 for Medicaid.

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

- 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.
- Patients who have failed to respond to previous protease inhibitor (Olysio, Victrelis, Viekira Pak) based therapy;
- Patients with decompensated cirrhosis (Child-Pugh Class B or C).

**IV. Appendices/General Information**

*Appendix A: Abbreviation/Acronym Key*

AASLD: American Association for the Study of Liver Diseases  
APRI: AST to platelet ratio  
FDA: Food and Drug Administration  
FIB-4: Fibrosis-4 index  
HBV: hepatitis B virus  
HCC: hepatocellular carcinoma  
HCV: hepatitis C virus  
HIV: human immunodeficiency virus

IDSA: Infectious Diseases Society of America  
IQR: interquartile range  
MRE: magnetic resonance elastography  
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
Mavyret <sup>™</sup> (glecaprevir/ pibrentasvir)	Treatment-naïve chronic HCV infection: <b>Genotype 4</b> Without cirrhosis: Three tablets PO QD for 8 weeks  With compensated cirrhosis: Three tablets PO QD for 12 weeks	Mavyret: glecaprevir 300 mg/pibrentasvir 120 mg (3 tablets) per day
Mavyret <sup>™</sup> (glecaprevir/ pibrentasvir)	Treatment-experienced with IFN/pegIFN + RBV +/- sofosbuvir chronic HCV infection: <b>Genotype 4</b>	Mavyret: glecaprevir 300 mg/pibrentasvir

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
	Without cirrhosis: Three tablets PO QD for 8 weeks	120 mg (3 tablets) per day
	With compensated cirrhosis: Three tablets PO QD for 12 weeks	

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.

*Appendix C: Contraindications*

- The contraindications to RBV also apply to this combination regimen. Refer to the RBV prescribing information for a list of contraindications for RBV.
- Technivie is contraindicated:
  - In patients with moderate to severe hepatic impairment (Child-Pugh B and C) due to risk of potential toxicity
  - With drugs that are highly dependent on CYP3A for clearance and for which elevated plasma concentrations are associated with serious and/or life-threatening events.
  - With drugs that are moderate or strong inducers of CYP3A and may lead to reduced efficacy of Technivie.

*Appendix D: Approximate Scoring Equivalencies using METAVIR F3/F4 as Reference*

Fibrosis/ Cirrhosis	Serologic Tests*				Radiologic Tests†		Liver Biopsy‡	
	Fibro Test	FIBRO Spect II	APRI	FIB-4	FibroScan (kPa)	MRE (kPa)	METAVIR	Ishak
Advanced fibrosis	≥0.59	≥42	>1.5	>3.25	≥9.5	≥4.11	F3	F4-5
Cirrhosis	≥0.75	≥42	>1.5	>3.25	≥12.0	≥4.71	F4	F5-6

\*Serologic tests:

- FibroTest (available through Quest as FibroTest or LabCorp as FibroSure)
- FIBROSpect II (available through Prometheus Laboratory)
- APRI (AST to platelet ratio index)
- FIB-4 (Fibrosis-4 index: includes age, AST level, platelet count)

†Radiologic tests:

- FibroScan (transient elastography)
- MRE (magnetic resonance elastography)

‡Liver biopsy (histologic scoring systems):

- METAVIR F3/F4 is equivalent to Knodell, Scheuer, and Batts-Ludwig F3/F4 and Ishak F4-5/F5-6
- METAVIR fibrosis stages: F0 = no fibrosis; F1 = portal fibrosis without septa; F2 = few septa; F3 = numerous septa without cirrhosis; F4 = cirrhosis

*Appendix E: Direct-Acting Antivirals for Treatment of HCV Infection*

Brand Name	Drug Class				
	NS5A Inhibitor	Nucleotide Analog NS5B Polymerase Inhibitor	Non-Nucleoside NS5B Palm Polymerase Inhibitor	NS3/4A Protease Inhibitor (PI)	CYP3A Inhibitor
Daklinza	Daclatasvir				

Brand Name	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	
Olysio				Simeprevir	
Sovaldi		Sofosbuvir			
Technivie*	Ombitasvir			Paritaprevir	Ritonavir
Viekira XR/PAK*	Ombitasvir		Dasabuvir	Paritaprevir	Ritonavir
Vosevi*	Velpatasvir	Sofosbuvir		Voxilaprevir	
Zepatier*	Elbasvir			Grazoprevir	

\*Combination drugs

*Appendix F: General Information*

- Hepatitis B Virus Reactivation (HBV) 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.
- For patients with HCV/HIV-1 (human immunodeficiency virus type-1) co-infection, the patient should be on a suppressive antiretroviral drug regimen to reduce the risk of HIV-1 protease inhibitor drug resistance.
- Acceptable medical justification for inability to use Mavyret (preferred product):
  - Severe hepatic disease (Child-Pugh C): use of Mavyret is not recommended due to higher exposures of glecaprevir and pibrentasvir.
  - Moderate hepatic disease (Child-Pugh B): although not an absolute contraindication, use of Mavyret is not recommended in patients with moderate hepatic disease (Child-Pugh B) due to lack of safety and efficacy data.
    - Following administration of Mavyret in HCV infected subjects with *compensated* cirrhosis (Child-Pugh A), exposure of glecaprevir was approximately 2-fold and pibrentasvir exposure was similar to non-cirrhotic *HCV infected* subjects.
    - At the clinical dose, compared to *non-HCV infected* subjects with *normal hepatic function*, glecaprevir AUC was 100% higher in Child-Pugh B subjects, and increased to 11-fold in Child-Pugh C subjects. Pibrentasvir AUC was 26% higher in Child-Pugh B subjects, and 114% higher in Child-Pugh C subjects.
  - Drug-drug interactions with one or more the following agents:
    - Atazanavir
    - Efavirenz
- Unacceptable medical justification for inability to use Mavyret (preferred product):

- Black Box Warning (BBW): currently or previously infected with hepatitis B virus. This BBW is not unique to Mavyret, and it applies across the entire therapeutic class of direct-acting antivirals for treatment of HCV infection. Therefore it is not a valid clinical reason not to use Mavyret.
- Concurrent anticoagulant therapy: Fluctuations in International Normalized Ratio (INR) have been observed in warfarin recipients who were also receiving treatment for HCV infections. This BBW is not unique to Mavyret, and it applies across the entire therapeutic class of direct-acting antivirals for treatment of HCV infection. Although caution is advised when using Mavyret while receiving concurrent anticoagulant therapy, specifically warfarin, this is not an absolute contraindication as long as patient is adequately monitored and educated during therapy.
- Drug-drug interactions with one or more of the following agents:
  - Rifampin, carbamazepine, or St. John’s wort:
  - These drug-drug interactions are not unique to Mavyret, and they apply across the entire therapeutic class of direct-acting antivirals for treatment of HCV infection.

**V. Dosage and Administration**

Indication	Dosing Regimen	Maximum Dose	Reference
Genotype 4: Treatment-naïve or treatment-experienced with pegIFN/RBV with or without compensated cirrhosis	Technivie 2 tablets PO qAM plus weight-based RBV for 12 weeks	Two tablets (paritaprevir 150 mg, ritonavir 100 mg, ombitasvir 25 mg) per day	1) FDA-approved labeling 2) AASLD-IDSA (updated September 2017)

*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**

Tablet: paritaprevir 75 mg, ritonavir 50 mg, ombitasvir 12.5 mg

**VII. References**

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10. Hsieh YY, Tung SY, Lee K, et al. Routine blood tests to predict liver fibrosis in chronic hepatitis C. *World J Gastroenterol*. February 28, 2012; 18(8): 746-53. doi: 10.3748/wjg.v18.i8.746.

Reviews, Revisions, and Approvals	Date	P&T Approval Date
New policy created.	12.18	N/A

**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.

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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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