

Clinical Policy: Simeprevir (Olysio)

Reference Number: CP.PHAR.280 Effective Date: 09/16 Last Review Date: 09/17 Line of Business: Medicaid

Revision Log

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

Description

Simeprevir (OlysioTM) is an inhibitor of the hepatitis C virus (HCV) nonstructural protein 3/4A (NS3/4A) protease.

FDA-Approved Indication

Olysio is indicated for the treatment of adults with chronic HCV infection:

- In combination with sofosbuvir in patients with HCV genotype 1 without cirrhosis or with compensated cirrhosis
- In combination with peginterferon alfa (Peg-IFN-alfa) and ribavirin (RBV) in patients with HCV genotype 1 or 4 without cirrhosis or with compensated cirrhosis

Limitations of use:

- Efficacy of Olysio in combination with Peg-IFN-alfa and RBV is substantially reduced in patients infected with HCV genotype 1a with an NS3 Q80K polymorphism.
- Olysio is not recommended in patients who have previously failed therapy with a treatment regimen that included Olysio or other HCV protease inhibitors.

Policy/Criteria

Provider <u>must</u> submit documentation (including office chart notes and lab results) supporting that member has met all approval criteria

It is the policy of health plans affiliated with Centene Corporation[®] that Olysio 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 HCV ribonucleic acid (RNA) levels in the last 6 months;
 - 2. Confirmed HCV genotype is 1;
 - 3. Prescribed by or in consultation with a gastroenterologist, hepatologist, or infectious disease specialist;
 - 4. Age \geq 18 years;
 - 5. Life expectancy \geq 12 months with HCV treatment;
 - 6. Documented sobriety from alcohol and illicit IV drugs for \geq 6 months prior to starting therapy, if applicable;
 - 7. Advanced liver disease defined as a or b:
 - a. Advanced fibrosis indicated by i or ii:



- i. Liver biopsy showing a METAVIR score of F3 or equivalent (Knodell, Scheuer, Batts-Ludwig F3; Ishak F4/5);
- ii. One serologic test and one radiologic test showing an equivalent score to METAVIR F3 per Appendix C;
- b. Cirrhosis indicated by i, ii or iii:
 - i. Hepatocellular carcinoma (HCC) and the HCC is amenable to resection, ablation or transplant;
 - ii. Liver biopsy showing a METAVIR score of F4 or equivalent (Knodell, Scheuer, Batts-Ludwig F4; Ishak F5/6);
 - iii. Both of the following:
 - a) One serologic test showing an equivalent score to METAVIR F4 per Appendix C;
 - b) One radiologic test showing an equivalent score to METAVIR F4 per Appendix C or other radiologic test showing evidence of cirrhosis (e.g., portal hypertension);
- 8. Prescribed regimen is consistent with an FDA or AASLD-IDSA recommended regimen (*see Section V Dosage and Administration for reference*);
- 9. If member is without cirrhosis or with compensated cirrhosis (Child-Pugh A): contraindication or intolerance to Mavyret;
- 10. Member agrees to participate in a medication adherence program meeting 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;
- 11. Member is hepatitis B virus (HBV) negative, or if positive, documentation that concurrent HBV infection is being treated (e.g., tenofovir alafenamide, adefovir, entecavir), unless contraindicated or clinically significant adverse effects are experienced (*see Appendix B*);
- 12. If prescribed with ribavirin, at the time of request, member has none of the following contraindications:
 - a. Pregnancy;
 - b. For Rebetol: creatinine clearance < 50 mL/min;
- 13. Dose does not exceed 150 mg (1 capsule) per day.

Approval duration: up to 24 weeks*

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

B. Other diagnoses/indications

1. Refer to CP.PHAR.57 if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized).

II. Continued Therapy

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



- 1. Currently receiving medication via Centene benefit, or documentation supports that member is currently receiving Olysio for chronic hepatitis C virus infection and has received this medication for at least 30 days;
- 2. Member is responding positively to therapy (e.g. decreased HCV RNA level, no unacceptable toxicity);
- 3. Dose does not exceed 150mg (1 capsule) 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

1. Refer to CP.PHAR.57 if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized).

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.PHAR.57 or evidence of coverage documents.

IV. Appendices/General Information

HCV: hepatitis C virus IDSA: Infectious Diseases Society of America MRE: magnetic resonance elastography NS3/4A, NS5A/B: nonstructural protein Peg-IFN: pegylated interferon PI: protease inhibitor RBV: ribavirin RNA: ribonucleic acid

Appendix B: General Information

- Hepatitis B Reactivation is a black box warning for all direct-acting antiviral drugs for the treatment of HCV. The provider must provide either:
 - Documentation of absence of concurrent HBV infection as evidenced by laboratory values showing absence of hepatitis B virus envelope antigen (HBeAg) and HBV DNA;
 - Documentation that HBV co-infected patient may not be candidates for therapy as evidenced by one of the following:
 - Absence of HBeAg, HBV DNA less than 2,000 international units/mL, and alanine aminotransferase (ALT) level within 1 to 2 times the upper limit of normal;
 - HBeAg-positive and HBV DNA greater than 1,000,000 international units/mL and ALT level within 1 to 2 times the upper limit of normal;



- Documentation that concurrent HBV infection is being treated (e.g., tenofovir alafenamide, adefovir, entecavir), unless contraindicated or clinically significant adverse effects are experienced
- The 2016 AASLD/IDSA treatment guideline for HBV consider ALT levels <30 U/L for men and <19 U/L for women as upper limits of normal.
- The 2016 AASLD/IDSA treatment guideline for HBV recommend adults with compensated cirrhosis, even with low levels of viremia (<2,000 IU/mL) be treated with antiviral therapy to reduce the risk of decompensation, regardless of ALT level. The recommendation extends to adults with decompensated cirrhosis be treated with antiviral therapy indefinitely regardless of HBV DNA level, HBeAg status, or ALT level to decrease the risk of worsening liver-related complications.
- The 2017 AASLD/IDSA treatment guideline for HCV no longer recommend use of simeprevir in treatment of chronic HCV genotype 4.

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

| Fibrosis/ | Serologic Tests* | | | Radiologic | Tests† | Liver Biopsy‡ | | |
|-------------------|------------------|-------------------|------|---------------|--------------------|---------------|---------|-------|
| Cirrhosis | Fibro Test | FIBRO Spect II | APRI | FI B- 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 D: Direct-Acting Antivirals for Treatment of HCV Infection

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



| Brand Name | Drug Class | | | | | | |
|--------------------|-------------------|--|--|--------------------------------------|--------------------|--|--|
| | NS5A Inhibitor | Nucleotide Analog NS5B Polymerase Inhibitor | Non-Nucleotide NS5B Palm Polymerase Inhibitor | NS3/4A Protease Inhibitor (PI) | CYP3A Inhibitor | | |
| Harvoni* | Ledipasvir | Sofosbuvir | | | | | |
| Olysio | | | | Simeprevir | | | |
| Sovaldi | | Sofosbuvir | | | | | |
| Technivie* | Ombitasvir | | | Paritaprevir | Ritonavir | | |
| Viekira XR/PAK* | Ombitasvir | | Dasabuvir | Paritaprevir | Ritonavir | | |
| Zepatier* | Elbasvir | | | Grazoprevir | | | |

*Combination drugs

IV. Dosage and Administration

| Indication | Dosing Regimen | Maximum Dose | Reference |
|--------------------|---|--------------|-----------------|
| Genotype 1 CHC: | Sovaldi 400 mg by mouth daily | Olysio: | 1) FDA- |
| Treatment-naive or | plus Olysio150 mg by mouth daily | 150mg/day | approved |
| treatment- | for 12 weeks | | labeling |
| experienced with | | | 2) AASLD- |
| peg-IFN/RBV | | | IDSA (updated |
| patients without | | | April, 2017) |
| cirrhosis | | | |
| Genotype 1 CHC: | Sovaldi 400 mg by mouth daily | Olysio: | 1) FDA- |
| Treatment-naive or | plus Olysio150 mg by mouth daily | 150mg/day | approved |
| treatment- | with ⁺ or without weight-based | | labeling |
| experienced with | RBV (1000 mg [<75 kg] to 1200 | | 2) AASLD- |
| peg-IFN/RBV | mg [>75 kg]) for 24 weeks | | IDSA (updated |
| patients with | | | April, 2017) |
| compensated | | | |
| cirrhosis: | | | |
| Genotype 1 CHC: | Sovaldi 400 mg by mouth daily | Olysio: | AASLD-IDSA |
| Liver transplant | plus Olysio150 mg by mouth daily | 150mg/day | (updated April, |
| patients including | with or without weight-based RBV | | 2017) |
| those with | (1000 mg [<75 kg] to 1200 mg | | |
| compensated | [>75 kg]) for 12 weeks | | |
| cirrhosis | | | |

*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.

*The use of Olysio in combination with peginterferon and ribavirin for the treatment of chronic HCV GT1 or 4 is no longer recommended by the AASLD/IDSA guidelines.

V. Product Availability

Capsule: 150 mg

VI. References



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- 2. American Association for the Study of Liver Diseases/ Infectious Disease Society of America (AASLD-IDSA). Recommendations for testing, managing, and treating hepatitis C. http://www.hcvguidelines.org. Accessed May 11, 2017.
- 3. Bonder A, Afdhal N. Utilization of FibroScan in clinical practice. *Curr Gastroenterol Rep.* 2014; 16(372): 1-7. DOI 10.1007/s11894-014-0372-6.
- 4. Halfon P, Bourliere M, Deydier R, et al. Independent prospective multicenter validation of biochemical markers (Fibrotest–Actitest) for the prediction of liver fibrosis and activity in patients with chronic hepatitis C: The Fibropaca study. Am J Gastroenterol. 2006; 101: 547-555. DOI: 10.1111/j.1572-0241.2006.0411.x
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- Hepatitis C Virus (HCV) FIBROSpect II. Prometheus Therapeutics and Diagnostics. Available at <u>http://www.prometheuslabs.com/Resources/Fibrospect/Fibrospect_II_Product_Detail_Sheet_FIB16005_04-16.pdf</u>. April 2016. Accessed July 15, 2016.
- 8. 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.
- PegIntron Prescribing Information. Whitehouse Station, NJ: Merck Sharp and Dohme Corp.; February 2016. Available at <u>https://www.merck.com/product/usa/pi_circulars/p/pegintron/pegintron_pi.pdf</u>. Accessed July 25, 2016.
- 10. Terrault NA, Bzowej NH, Chang KM, et al. AASLD Guidelines for Treatment of Chronic Hepatitis B. Hepatology 2016; 62(1): 261-283.

| Reviews, Revisions, and Approvals | Date | Approval Date |
|---|-------|------------------|
| New policy created, split from CP.PHAR.17 Hepatitis C Therapies. HCV RNA levels over six-month period added to confirm infection is chronic.Life expectancy "≥12 months if HCC and awaiting transplant" is modified to indicate "≥12 months with HCV therapy." Testing criteria reorganized by "no cirrhosis"/"cirrhosis" consistent with the regimen tables; HCC population is included under "cirrhosis" and broadened to incorporate HCC amenable to curative measures (resection, ablation, transplant). | 08/16 | 09/16 |
| Methods to diagnose fibrosis/cirrhosis are modified to require presence of HCC, liver biopsy or a combination of one serologic and one radiologic test. Serologic and radiologic tests are updated and correlated with METAVIR per Appendix B. Removed creatinine clearance | | |



| Reviews, Revisions, and Approvals | Date | Approval Date |
|--|-------|------------------|
| restriction. Criteria added excluding post-liver transplantation unless regimens specifically designate. | | |
| Dosing regimens are presented in Appendix D and E per AASLD | | |
| guidelines and FDA-approved indications. The initial approval is shortened to 8 weeks. | | |
| Policy converted to new template. Deleted references to peg-IFN as | 08/17 | 09/17 |
| Olysio/RBV/peg-IFN is not recommended by AASLD; added | | |
| requirement for prevention of HBV reactivation. Consolidated appendix | | |
| D and E into dosing and administration in section V; added maximum | | |
| dose requirement; initial approval duration expanded to full 24 weeks, | | |
| limited continued therapy approval duration to 24 weeks, deleted viral | | |
| load and adherence requirement in continued, added documentation of | | |
| positive response to therapy and continuity of care, and removed CIs in | | |
| section II, added reference column in section V. Added preferencing | | |
| information requiring Mavyret for FDA-approved indications. | | |
| Safety criteria was applied according to the safety guidance discussed at | | |
| CPAC and endorsed by Centene Medical Affairs. Exception made to | | |
| require Hep B screening. | 00/17 | |
| Removed the following language: "If a lower cost alternative regimen | 09/17 | |
| carries an equal or higher AASLD-IDSA rating, a clinical | | |
| contraindication or intolerance must be present for the alternative | | |
| regimen prior to approval." | | |

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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