

PRIOR AUTHORIZATION POLICY

- POLICY:** Hepatitis C – Harvoni Prior Authorization Policy
- Harvoni® (ledipasvir/sofosbuvir tablets and oral pellets – Gilead)
 - ledipasvir/sofosbuvir tablets (authorized generics to Harvoni 90 mg/400 mg tablets only – Gilead)

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OVERVIEW

Harvoni is a fixed-dose combination of ledipasvir, a hepatitis C virus (HCV) NS5A inhibitor, and sofosbuvir, an HCV nucleotide analog NS5B polymerase inhibitor, indicated for¹:

- The treatment of chronic HCV genotype 1, 4, 5, and 6 infection in adults and pediatric patients ≥ 3 years of age with or without compensated cirrhosis; and
- Adult and pediatric patients ≥ 3 years of age with genotype 1 chronic HCV with decompensated cirrhosis in combination with ribavirin; and
- Adult and pediatric patients ≥ 3 years of age with genotype 1 or 4 chronic HCV who are liver transplant recipients with or without compensated cirrhosis, in combination with ribavirin.

Dosing

In adults, the recommended dosage of Harvoni is one tablet taken orally once daily with or without food.¹ The recommended dose of Harvoni tablets or pellets in pediatric patients ≥ 3 years of age is based on weight. The Harvoni pellets can be taken in pediatric patients who cannot swallow the tablet formulation. Table 1 below provides the recommended duration of therapy with Harvoni. The Harvoni authorized generic is only available as the 90 mg/400 mg strength tablet; Harvoni is additionally available as a lower strength tablet (45 mg/200 mg) as well as oral pellets (45 mg/200 mg and 33.75 mg/150 mg).

Table 1. Recommended Treatment Duration for Harvoni in Patients ≥ 3 Years of Age with Chronic HCV Genotype 1, 4, 5, or 6.¹

Patient Population	Duration of Treatment
Genotype 1 – Treatment-naïve with or without compensated (Child Pugh A) cirrhosis	Harvoni 12 weeks [*]
Genotype 1 – Treatment-experienced ^{**} without cirrhosis	Harvoni 12 weeks
Genotype 1 – Treatment-experienced ^{**} with compensated (Child Pugh A) cirrhosis	Harvoni 24 weeks [†]
Genotype 1 – Treatment-naïve and treatment-experienced ^{**} with decompensated (Child-Pugh B or C) cirrhosis.	Harvoni + ribavirin [‡] 12 weeks
Genotype 1 or 4 – Transplant recipients without cirrhosis, or with compensated (Child-Pugh A) cirrhosis	Harvoni + ribavirin [§] 12 weeks
Genotype 4, 5, or 6 – Treatment-naïve and treatment-experienced ^{**} , with or without compensated (Child-Pugh A) cirrhosis	Harvoni 12 weeks

Hepatitis C virus – Hepatitis C virus; ^{*} Harvoni for 8 weeks can be considered in treatment-naïve patients without cirrhosis who have pretreatment HCV RNA < 6 million IU/mL; ^{**} Treatment-experienced patients who have failed treatment with either peginterferon alfa + ribavirin or a hepatitis C virus protease inhibitor + peginterferon + ribavirin; [†] Harvoni for 12 weeks can be considered in treatment-experienced patients with cirrhosis who are eligible for ribavirin. The daily dose of ribavirin is weight-based (1,000 mg for patients < 75 kg and 1,200 mg for those ≥ 75 kg) administered in two divided doses. [‡] In patients with decompensated cirrhosis, the starting dosage of ribavirin is 600 mg and can be titrated up to 1,000 mg for patients < 75 kg and 1,200 mg for those ≥ 75 kg in two divided doses with food. If the starting dosage of ribavirin is not well tolerated, the dosage should be reduced as clinically indicated based on hemoglobin levels. [§] The daily dosage of ribavirin is weight-based (1,000 mg for patients < 75 kg and 1,200 mg for those ≥ 75 kg) administered orally in two divided doses with food.

Guidelines

For the most up-to-date guideline information always refer to the American Association for the Study of Liver Diseases (AASLD) [guidelines](#). Harvoni is recommended in the circumstances outlined in Table 2.

Table 2. AASLD Recommendations for Harvoni.²

DAA	Duration	FDA Approved (Y/N)	AASLD Level of Evidence
Genotype 1, 4, 5, and 6 Chronic HCV Treatment-Naïve Adults – Recommended			
Harvoni	12 weeks (± compensated cirrhosis)	Y	Class I, Level A Class IIa, Level B (Genotype 4 compensated cirrhosis, Genotype 5/6 ± compensated cirrhosis)
Harvoni	8 weeks (HIV-uninfected, HCV RNA < 6 million IU/mL, no cirrhosis)	Y	Class I, Level B
Genotype 1, 4, 5, and 6 Chronic HCV Pegylated Interferon/Ribavirin Treatment-Experienced Adults – Recommended			
Harvoni	12 weeks (no cirrhosis)	Y	Class I, Level A (Genotype 1) Class IIa, Level B (Genotype 4, 5, 6)
Harvoni	12 weeks (compensated cirrhosis)	Y	Class IIa, Level B (Genotype 5/6)
Genotype 1 and 4 Chronic HCV Pegylated Interferon/Ribavirin Treatment-Experienced Adults – Alternative			
Harvoni + WBR	12 weeks (compensated cirrhosis)	Y (Genotype 1) N (Genotype 4)	Class I, Level A (Genotype 1) Class IIa, Level B (Genotype 4)
Genotype 1 Chronic HCV NS3/4A + Pegylated Interferon/Ribavirin Treatment-Experienced Adults – Recommended			
Harvoni	12 weeks (no cirrhosis)	Y	Class I, Level A
Genotype 1 Chronic HCV NS3/4A + Pegylated Interferon/Ribavirin Treatment-Experienced Adults – Alternative			
Harvoni + WBR	12 weeks (compensated cirrhosis)	Y	Class I, Level A
Genotype 1 Chronic HCV Non-NS5A Sovaldi-Containing Treatment-Experienced Adults – Alternative			
Harvoni + WBR	12 weeks (no cirrhosis)	N	Class IIa, Level B
Genotype 1, 4, 5, or 6 Chronic HCV, Decompensated Cirrhosis Adults Ribavirin Eligible – Recommended			
Harvoni + ribavirin	12 weeks	Y	Class I, Level A
Genotype 1, 4, 5, or 6 Chronic HCV, Decompensated Cirrhosis Adults Ribavirin Ineligible – Recommended			
Harvoni	24 weeks	N	Class I, Level A
Genotype 1, 4, 5, or 6 Chronic HCV, Decompensated Cirrhosis Adults Prior Sovaldi-Based Failure Only – Recommended			
Harvoni + ribavirin	24 weeks	N	Class II, Level C
Genotype 1, 4, 5, or 6 Recurrent HCV Post-Liver Transplant, No Cirrhosis, Treatment-Naïve or Treatment-Experienced – Recommended			
Harvoni + WBR	12 weeks	Y	Class I, Level B
Genotype 1, 4, 5, or 6 Recurrent HCV Post-Liver Transplant, Compensated Cirrhosis, Treatment-Naïve or Treatment-Experienced – Recommended			
Harvoni + WBR	12 weeks	Y	Class I, Level A
Genotype 1, 4, 5, or 6 Recurrent HCV Post-Liver Transplant, Decompensated Cirrhosis, Treatment-Naïve or Treatment-Experienced – Recommended			
Harvoni + ribavirin	12 to 24 weeks	Y	Class I, Level B
Genotype 1, 4, 5, or 6 Organ Recipients from HCV RNA-Positive Donors, Adults – Recommended			
Harvoni	12 weeks	N	Class I, Level C

Table 2 (continued). AASLD Recommendations for Harvoni.²

DAA	Duration	FDA Approved (Y/N)	AASLD Level of Evidence
Genotype 1, 4, 5, or 6 Kidney Transplant Treatment-Naïve or DAA-Experienced ± Compensated Cirrhosis, Adults – Recommended			
Harvoni	12 weeks	N	Class I, Level A
Genotype 1, 4, 5, or 6 Treatment-Naïve Adolescents ≥ 12 years or ≥ 45 kg, ± Compensated Cirrhosis – Recommended			
Harvoni	12 weeks	Y	Class I, Level B
Genotype 1, 4, 5, or 6 Treatment-Experienced Adolescents ≥ 12 years or ≥ 45 kg, ± Compensated Cirrhosis – Recommended			
Harvoni	24 weeks (GT1 compensated cirrhosis)	Y	Class I, Level B
Harvoni	12 weeks (GT 4, 5, or 6 ± compensated cirrhosis)	Y	Class I, Level B

AASLD – American Association for the Study of Liver Diseases; DAA – Direct-acting antiviral; Y – Yes; N – No; HCV – Hepatitis C virus; HIV – Human immunodeficiency virus.

POLICY STATEMENT

Prior Authorization is recommended for prescription benefit coverage of Harvoni (brand or generic). All approvals are provided for the duration noted below. Because of the specialized skills required for evaluation and diagnosis of patients treated with Harvoni (brand or generic) as well as the monitoring required for adverse events and long-term efficacy, approval requires Harvoni (brand or generic) to be prescribed by or in consultation with a physician who specializes in the condition being treated.

Automation: None.

RECOMMENDED AUTHORIZATION CRITERIA

Coverage of Harvoni (brand or generic) is recommended in those who meet the following criteria:

FDA-Approved Indications

1. Chronic Hepatitis C Virus (HCV) Genotype 1. Approve for the duration noted if the patient meets all of the following criteria (A, B, and C):

A) Patient is ≥ 3 years of age; AND

B) Patient meets ONE of the following criteria (i, ii or iii):

i. Approve for 8 weeks if the patient meets all of the following criteria (a, b, c, d, and e):

a) Patient is treatment-naïve; AND

b) Patient does not have cirrhosis; AND

c) Patient does not have human immunodeficiency virus (HIV)² (patients with HIV should be reviewed the same as patients without HIV using *Criteria ii or iii below*); AND

d) Patient is not awaiting liver transplantation (patients awaiting liver transplantation should be reviewed using *Criteria ii or iii below*); AND

e) Baseline hepatitis C virus (HCV) RNA is < 6 million IU/mL; OR

ii. Approve for 12 weeks if the patient meets ONE the following criteria (a, b, or c):

a) Patient is treatment-naïve AND does not meet criterion *Bi* above; OR

Note: Treatment-naïve includes patients with or without HIV who are treatment-naïve with compensated [Child-Pugh A] cirrhosis regardless of baseline HCV RNA, or treatment-naïve patients with or without HIV without cirrhosis and baseline HCV RNA ≥ 6 million IU/mL. This would also include treatment-naïve patients awaiting transplant with compensated [Child-Pugh A] cirrhosis regardless of baseline HCV RNA or treatment-

naïve patients awaiting transplant without cirrhosis and baseline HCV RNA \geq 6 million IU/mL).

- b) Patient has previously been treated for hepatitis C virus (HCV) and does not have cirrhosis; OR

Note: For patients with compensated cirrhosis [Child-Pugh A] see criterion *Biii* below, for patients with decompensated cirrhosis [Child-Pugh B or C] see criterion *Biiic* below.

- c) Patient is treatment-naïve or has previously been treated for hepatitis C virus (HCV) and meets all of the following criteria ([1], [2], and [3]):

(1) Patient has decompensated (Child-Pugh B or C) cirrhosis; AND

(2) Patient is ribavirin eligible; AND

Note: For ribavirin ineligible patients with decompensated cirrhosis, see criterion *Biiib* below

(3) Harvoni (brand or generic) will be prescribed in combination with ribavirin; OR

- iii. Approve for 24 weeks in patients who meet ONE of the following (a or b):

- a) Patient has previously been treated for hepatitis C virus (HCV) and has compensated (Child-Pugh A) cirrhosis; OR

- b) Patient is treatment-naïve or has previously been treated for hepatitis C virus (HCV) and the patient meets both of the following criteria ([1] and [2]):

(1) Patient has decompensated (Child-Pugh B or C) cirrhosis; AND

(2) Patient is ribavirin ineligible, according to the prescriber; AND

- C) Harvoni (brand or generic) is prescribed by or in consultation with a gastroenterologist, hepatologist, infectious diseases physician, or a liver transplant physician.

2. **Chronic Hepatitis C Virus (HCV) – Genotype 4, 5, OR 6.** Approve for 12 weeks if the patient meets the following criteria (A and B):

A) Patient is \geq 3 years of age; AND

B) Harvoni (brand or generic) is prescribed by or in consultation with a gastroenterologist, hepatologist, infectious diseases physician, or a liver transplant physician.

3. **Recurrent Hepatitis C Virus (HCV) Post-Liver Transplantation, Genotypes 1 OR 4.** Approve for 12 weeks if the patient meets the following criteria (A, B, C and D):

A) Patient is \geq 3 years of age; AND

B) Patient has recurrent hepatitis C virus (HCV) after a liver transplantation; AND

C) Harvoni (brand or generic) will be prescribed in combination with ribavirin; AND

D) Harvoni (brand or generic) is prescribed by or in consultation with one of the following prescribers who is affiliated with a transplant center²: a gastroenterologist, hepatologist, infectious diseases physician, or a liver transplant physician.

Other Uses with Supportive Evidence

4. **Recurrent Hepatitis C Virus (HCV) Post-Liver Transplantation, Genotypes 5 OR 6.** Approve for 12 weeks if the patient meets the following criteria (A, B, C and D):

C) Patient is \geq 18 years of age; AND

D) Patient has recurrent hepatitis C virus (HCV) after a liver transplantation; AND

E) Harvoni (brand or generic) will be prescribed in combination with ribavirin; AND

F) Harvoni (brand or generic) is prescribed by or in consultation with one of the following prescribers who is affiliated with a transplant center²: a gastroenterologist, hepatologist, infectious diseases physician, or a liver transplant physician.

5. **Hepatitis C Virus (HCV) Kidney Transplant Recipients, Genotype 1 or 4.** Approve for 12 weeks if the patient meets the following criteria (A, B, and C):

- A) Patient is ≥ 18 years of age; AND
- B) Patient is a kidney transplant recipient with hepatitis C virus (HCV); AND
- C) Harvoni (brand or generic) is prescribed by or in consultation with one of the following prescribers who is affiliated with a transplant center²: a gastroenterologist, hepatologist, infectious diseases physician, nephrologist, liver transplant physician, or a renal transplant physician.

- 6. Patient Has Been Started on Harvoni (brand or generic).** Approve Harvoni (brand or generic) for an indication or condition addressed as an approval in the Recommended Authorization Criteria section (FDA-Approved Indications or Other Uses with Supportive Evidence). Approve the duration described above to complete a course of therapy (e.g., a patient who should receive 12 weeks, and has received 3 weeks should be approved for 9 weeks to complete their 12-week course).

CONDITIONS NOT RECOMMENDED FOR APPROVAL

Coverage of Harvoni is not recommended in the following situations:

- 1. Hepatitis C Virus (HCV) [any genotype], Combination with Any Other Direct-Acting Antivirals (DAAs) Not Including Ribavirin.** Harvoni (brand or generic) provides a complete antiviral regimen for patients with genotype 1 HCV. Harvoni (brand or generic) is not recommended to be used with other products containing sofosbuvir.
- 2. Life Expectancy Less Than 12 Months Due to Non-Liver Related Comorbidities.** Patients with limited life expectancy for whom HCV therapy would not improve symptoms or prognosis do not require treatment.² According to AASLD guidance, the panel recommends treatment for all patients with chronic HCV infection, except those with short life expectancies that cannot be remediated by treating HCV, by transplantation, or by other directed therapy. For these patients, the benefits of HCV treatment are unlikely to be realized, and palliative care strategies should take precedence.
- 3. Pediatric Patients (Age < 3 years).** The safety and efficacy of Harvoni (brand or generic) have not been established in pediatric patients < 3 years of age.¹
- 4. Retreatment with Harvoni (brand or generic) in Patients Who Have Previously Received Harvoni (brand or generic) (e.g., retreatment in prior null responders, prior partial responders, prior relapse patients, patients who have not completed a course of therapy due to an adverse reaction or for other reasons).** There are other direct-acting antivirals indicated for patients who have previously been treated with Harvoni (brand or generic).
- 5. Coverage is not recommended for circumstances not listed in the Recommended Authorization Criteria.** Criteria will be updated as new published data are available.

REFERENCES

1. Harvoni[®] tablets and oral pellets [prescribing information]. Foster City, CA: Gilead; March 2020.
2. American Association for the Study of Liver Diseases and the Infectious Diseases Society of America. Testing, managing, and treating hepatitis C. Available at: <http://www.hcvguidelines.org>. Updated November 6, 2019. Accessed on August 18, 2020.
3. Charlton M, Everson GT, Flamm SL, et al; for the SOLAR-1 Investigators. *Gastroenterology*. 2015;149:649-659.
4. Naggie, Cooper C, Saag M, et al; for the ION-4 Investigators. Ledipasvir and sofosbuvir for HCV in patients coinfecting with HIV-1. *N Engl J Med*. 2015;373:705-713.
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6. Balistreri WF, Murray KF, Rosenthal P, et al. The safety and effectiveness of ledipasvir-sofosbuvir in adolescents 12 to 17 years old with hepatitis C virus genotype 1 infection. *Hepatology*. 2017;66(2):371-378.
7. Data on file. Gilead, Foster City CA. April 10, 2017.