


## Treatment-Naive Genotype 2 With Compensated Cirrhosis

Recommended regimens listed by evidence level and alphabetically for:

### Treatment-Naive Persons With Genotype 2 Infection With Compensated Cirrhosis<sup>a</sup>

RECOMMENDED	DURATION	RATING 
Daily fixed-dose combination of sofosbuvir (400 mg)/velpatasvir (100 mg)	12 weeks	I, A
Daily fixed-dose combination of glecaprevir (300 mg)/pibrentasvir (120 mg) <sup>b</sup>	8 weeks	I, B

<sup>a</sup> For [decompensated cirrhosis](#), please refer to the appropriate section.

<sup>b</sup> Dosing is 3 coformulated tablets (glecaprevir [100 mg]/pibrentasvir [40 mg]) taken once daily. Please refer to the prescribing information.

## Recommended Regimens

### Sofosbuvir/Velpatasvir

The daily fixed-dose combination of sofosbuvir (400 mg)/velpatasvir (100 mg) for 12 weeks was approved by the FDA for the treatment of genotype 2 infection in persons without cirrhosis or with compensated cirrhosis. ASTRAL-2 compared 12 weeks of sofosbuvir/velpatasvir to 12 weeks of sofosbuvir plus ribavirin in 266 treatment-naive and treatment-experienced persons without cirrhosis or with compensated cirrhosis. The study showed superior efficacy of sofosbuvir/velpatasvir compared with sofosbuvir plus ribavirin (SVR12 rates of 99% versus 94%); ([Foster, 2015a](#)). ASTRAL-1 also included 104 treatment-naive and treatment-experienced participants with genotype 2 infection without cirrhosis or with compensated cirrhosis, all of whom achieved SVR12 ([Feld, 2015](#)).

Pooled analysis of all genotype 2 participants in ASTRAL-1 and ASTRAL-2 demonstrated 100% (29/29) SVR12 rate in those with compensated cirrhosis and 99% (194/195) SVR12 rate in treatment-naive participants. Among participants with genotype 2 infection receiving sofosbuvir/velpatasvir, the presence of baseline NS5A or NS5B RASs was not associated with virologic failure ([Asselah, 2018](#)).

The POLARIS-2 phase 3 study randomized DAA-naive participants to 8 weeks of sofosbuvir (400 mg)/velpatasvir (100 mg)/voxilaprevir (100mg) versus 12 weeks of sofosbuvir/velpatasvir. Fifty-three persons with genotype 2 infection were included in the sofosbuvir/velpatasvir arm and all achieved SVR12 (100%). This study confirms the high efficacy and safety of this 12-week regimen in persons with genotype 2 infection ([Jacobson, 2017](#)). A real-world, pooled analysis of 12 cohort studies demonstrated an SVR rate of 98.5% (266/270) among adults with genotype 2 infection and compensated cirrhosis who were treated with 12 weeks of sofosbuvir/velpatasvir ([Mangia, 2020](#)).

### Glecaprevir/Pibrentasvir

EXPEDITION-1 was a multicenter, open-label, single-arm, phase 3 trial that enrolled 146 treatment-naive or treatment-experienced persons (interferon or peginterferon ± ribavirin, or sofosbuvir plus ribavirin ±

peginterferon) with genotype 1, 2, 4, 5, or 6 infection and compensated cirrhosis. Participants were treated with the daily fixed-dose combination of glecaprevir (300 mg)/pibrentasvir (120 mg) administered as three 100 mg/40 mg fixed-dose combination pills for 12 weeks. Across all genotypes, 99% (145/146) achieved SVR12 ([Forns, 2017](#)). EXPEDITION-1 included 31 treatment-naïve and treatment-experienced persons with genotype 2 infection and compensated cirrhosis; all achieved SVR12. Baseline NS5A RASs were detected (by next-generation sequencing using a 15% detection cutoff) in 40% of 133 tested participants. Baseline NS5A RASs had no effect on SVR rates among treatment-naïve and treatment-experienced persons with genotype 2 infection.

EXPEDITION-8 evaluated glecaprevir/pibrentasvir for a reduced duration of 8 weeks in treatment-naïve participants with compensated cirrhosis and genotype 1, 2 (n=26), 4, 5 or 6 infection. People with a prior history of decompensation, hepatocellular carcinoma, and HIV or HBV coinfection were excluded from this study. SVR12 rate was 100% (26/26) among participants with genotype 2 infection with no virologic failures ([Brown, 2020](#)). Real-world data support the use of an 8-week course of glecaprevir/pibrentasvir in persons with compensated cirrhosis ([Flamm, 2020](#)).

### Related References

Asselah T, Bourgeois S, Pianko S, et al. [Sofosbuvir/velpatasvir in patients with hepatitis C virus genotypes 1-6 and compensated cirrhosis or advanced fibrosis](#). *Liver Int.* 2018;38(3):443-450.

Brown RS Jr, Buti M, Rodrigues L, et al. Glecaprevir/pibrentasvir for 8 weeks in treatment-naïve patients with chronic HCV genotypes 1-6 and compensated cirrhosis: the EXPEDITION-8 trial. *J Hepatol.* 2020;72(3):441-449. doi: 10.1016/j.jhep.2019.10.020.

Feld JJ, Jacobson IM, Hézode C, et al. [Sofosbuvir and velpatasvir for HCV genotype 1, 2, 4, 5, and 6 infection](#). *N Engl J Med.* 2015;373(27):2599-2607.

Flamm SL, Kort J, Marx SE, et al. [Effectiveness of 8-week glecaprevir/pibrentasvir for treatment-naïve, compensated cirrhotic patients with chronic hepatitis C infection](#). *Adv Ther.* 2020;37(5):2267-2274.

Forns X, Lee SS, Valdes J, et al. [Glecaprevir plus pibrentasvir for chronic hepatitis C virus genotype 1, 2, 4, 5, or 6 infection in adults with compensated cirrhosis \(EXPEDITION-1\): a single-arm, open-label, multicentre phase 3 trial](#). *Lancet Infect Dis.* 2017;17(10):1062-1068.

Foster GR, Afdhal NH, Roberts SK. [Sofosbuvir and velpatasvir for HCV genotype 2 and 3 infection](#). *N Engl J Med.* 2015;373(27):2608-2617.

Jacobson IM, Lawitz E, Gane EJ, et al. [Efficacy of 8 weeks of sofosbuvir, velpatasvir, and voxilaprevir in patients with chronic HCV infection: 2 phase 3 randomized trials](#). *Gastroenterology.* 2017;153(1):113-122.

Mangia A, Milligan S, Khalili M, et al. [Global real-world evidence of sofosbuvir/velpatasvir as simple, effective HCV treatment: analysis of 5552 patients from 12 cohorts](#). *Liver Int.* 2020;40(8):1841-1852.

### Additional Reading

- [Persons With HIV/HCV Coinfection](#)
- [Persons With Renal Impairment](#)
- [Management of Acute HCV Infection](#)

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## Treatment-Naive Genotype 3

The following pages include guidance for management of treatment-naive persons with genotype 3 infection.

- [Treatment-Naive Genotype 3 Without Cirrhosis](#)
- [Treatment-Naive Genotype 3 With Compensated Cirrhosis](#)
- [Simplified HCV Treatment for Treatment-Naive Adults Without Cirrhosis](#)

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