


Treatment-Naive Genotype 2 Without Cirrhosis

Recommended regimens listed by evidence level and alphabetically for:

Treatment-Naive Persons With Genotype 2 Infection Without Cirrhosis

| RECOMMENDED | DURATION | RATING  |
|---|----------|--|
| Daily fixed-dose combination of glecaprevir (300 mg)/pibrentasvir (120 mg) ^a | 8 weeks | I, A |
| Daily fixed-dose combination of sofosbuvir (400 mg)/velpatasvir (100 mg) | 12 weeks | I, A |

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

Recommended Regimens

Glecaprevir/Pibrentasvir

ENDURANCE-2 was a randomized, double-blind, placebo-controlled trial of 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 among 302 genotype 2-infected treatment-naive or treatment-experienced participants. Treatment-experienced participants included those previously treated with interferon or peginterferon ± ribavirin, or sofosbuvir plus ribavirin ± peginterferon. Participants randomized to placebo later received open-label treatment with glecaprevir/pibrentasvir for 12 weeks. Among 202 participants randomized to active treatment, 70% (141/202) were treatment naive and none had cirrhosis. The SVR12 rates were 99% and 100% by intention-to-treat and modified intention-to-treat analysis, respectively. There were no virologic failures. One participant who achieved SVR4 was lost to follow-up before the SVR12 evaluation. There was no effect of baseline RASs on SVR12 rate. Overall, therapy was well tolerated and the adverse event profile was not different compared with placebo ([Asselah, 2018b](#)).

A shorter duration of glecaprevir/pibrentasvir for 8 weeks was evaluated in the SURVEYOR-II, part 4 study. This was a single-arm, phase 2 study that evaluated glecaprevir/pibrentasvir for 8 weeks among 203 treatment-naive or treatment-experienced participants (previously treated with interferon or peginterferon ± ribavirin, or sofosbuvir plus ribavirin ± peginterferon) with genotype 2, 4, 5, or 6 infection without cirrhosis. Of the 142 participants with genotype 2 infection, 96% (137/142) were treatment naive. Among the treatment-naive, participants with genotype 2 infection, 99% (135/137) achieved SVR12. The presence of baseline RASs had minimal effect on SVR12 rates. Forty-two percent (53/126) of treatment-naive and treatment-experienced participants with genotype 2 had the L31M RAS within the NS5A gene at baseline. Ninety-six percent (51/53) of these participants achieved SVR12 ([Asselah, 2018b](#)).

While not a head-to-head comparison, the results of ENDURANCE-2 and SURVEYOR-II, part 4 indicate that glecaprevir/pibrentasvir administered for 8 weeks or 12 weeks is highly efficacious among treatment-naive persons with genotype 2 infection without cirrhosis. In an integrated analysis of 297 DAA-naive persons with

genotype 2 infection without cirrhosis treated with 8 weeks of glecaprevir/pibrentasvir in 6 phase 2 or 3 clinical trials, SVR12 rate was 98% (252/257) ([Naganuma, 2019](#)). Additionally, a real-world Italian cohort of treatment-naive persons with genotype 2 infection without cirrhosis treated with glecaprevir/pibrentasvir for 8 weeks achieved an SVR rate of 98% (173/175) ([D'Ambrosio, 2019](#)). A meta-analysis of real-world cohorts that examined glecaprevir/pibrentasvir treatment response among adults demonstrated SVR12 rates of 99.0% (n=274) and 98.0% (n=29) among participants with genotype 2 infection without or with compensated cirrhosis, respectively, with 8 weeks of treatment ([Lampertico, 2020](#)).

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 persons with genotype 2 infection 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 (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 participants with genotype 2 infection in ASTRAL-1 and ASTRAL-2 demonstrated 100% SVR12 rate in participants with compensated cirrhosis (29/29) and 99% SVR12 rate in treatment-naive participants (194/195). 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 persons to 8 weeks of sofosbuvir (400 mg)/velpatasvir (100 mg)/voxilaprevir (100 mg) versus 12 weeks of sofosbuvir/velpatasvir. Fifty-three participants 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](#)).

In a single-arm, phase 3 study from Asia that included 375 treatment-naive and treatment-experienced persons with genotype 1, 2, 3, 4, 5, or 6 infection (18% with cirrhosis) treated with 12 weeks of sofosbuvir/velpatasvir, SVR was achieved in 95% (362/375) ([Wei, 2019](#)). Of the 62 participants with genotype 2 infection, 100% achieved SVR. A real-world, pooled analysis of 12 cohort studies demonstrated an SVR rate of 99.3% (1535/1546) among adults with genotype 2 infection (with or without compensated cirrhosis) who were treated with 12 weeks of sofosbuvir/velpatasvir ([Mangia, 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.

Asselah T, Kowdley KV, Zadeikis N, et al. [Efficacy of glecaprevir/pibrentasvir for 8 or 12 weeks in patients with hepatitis C virus genotype 2, 4, 5, or 6 infection without cirrhosis](#). *Clin Gastroenterol Hepatol*. 2018;16(3):417-426.

D'Ambrosio R, Pasulo L, Puoti M, et al. [Real-world effectiveness and safety of glecaprevir/pibrentasvir in 723 patients with chronic hepatitis C](#). *J Hepatol*. 2019;70(3):379-387. doi:10.1016/j.jhep.2018.11.011.

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.

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.

Lampertico P, Carrión JA, Curry M, et al. [Real-world effectiveness and safety of glecaprevir/pibrentasvir for the treatment of patients with chronic HCV infection: a meta-analysis.](#) *J Hepatol.* 2020;72(6):1112-1121.

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.

Naganuma A, Chayama K, Notsumata K, et al. [Integrated analysis of 8-week glecaprevir/pibrentasvir in Japanese and overseas patients without cirrhosis and with hepatitis C virus genotype 1 or 2 infection.](#) *J Gastroenterol.* 2019;54(8):752-761. doi:10.1007/s00535-019-01569-7.

Wei L, Lim SG, Xie Q, et al. [Sofosbuvir-velpatasvir for treatment of chronic hepatitis C virus infection in Asia: a single-arm, open-label, phase 3 trial.](#) *Lancet Gastroenterol Hepatol.* 2019;4(2):127-134. doi:10.1016/S2468-1253(18)30343-1.

Additional Reading

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

Last Update: October 24, 2022

Last Review: January 15, 2025