

Treatment Experienced

Prior Sofosbuvir Failure

Ledipasvir-Sofosbuvir + RBV in Sofosbuvir-Experienced HCV GT1 Retreatment of Sofosbuvir Failures

Source: Wyles D, et al. Hepatology. 2015;61:1793-7.

LDV-SOF + RBV in Sofosbuvir-Experienced GT 1 HCV Study Features

Retreatment of Sofosbuvir Failures

- **Design:** Open-label, phase 2 retreatment study examining the efficacy of ledipasvir-sofosbuvir plus ribavirin in patients who did not achieve SVR with sofosbuvir-based therapy in one of 5 clinical trials.
- **Setting:** 24 study locations in United States
- **Entry Criteria**
 - Chronic HCV genotype 1
 - Failed prior combination therapy with sofosbuvir in phase 2/3 clinical trials
 - Compensated cirrhosis allowed
 - Cirrhosis defined as FibroTest >0.75 and APRI >2
- **Primary End-Point:** SVR12
- **Secondary End-Points:** Treatment

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Week

0

12

24

n = 51

Ledipasvir-Sofosbuvir + RBV

SVR12

Abbreviations: LDV = ledipasvir; SOF = sofosbuvir; PEG = peginterferon; RBV = ribavirin

Drug Dosing

Ledipasvir-sofosbuvir (90/400 mg): fixed-dose combination; one pill once daily

Ribavirin (weight-based and divided bid): 1000 mg/day if <75 kg or 1200 mg/day if ≥75 kg

LDV-SOF + RBV in Sofosbuvir-Experienced GT 1 HCV Baseline Characteristics

Patient Characteristics	Ledipasvir-Sofosbuvir + RBV x 12 weeks (n = 51)
Mean age, years (SD)	54 (8.7)
Male sex, n (%)	31 (61)
Race, n (%)	
White	43 (84)
Black	8 (16)
Mean body mass index, kg/m ² (SD)	30.4 (5.4)
Cirrhosis	14 (27)
Genotype, n (%)	
1a	30 (59)
1b	20 (39)
3a	1 (2)
IL28b, n (%)	
CC	4 (8)
CT	33 (65)
TT	14 (27)

Abbreviation: SD, standard deviation

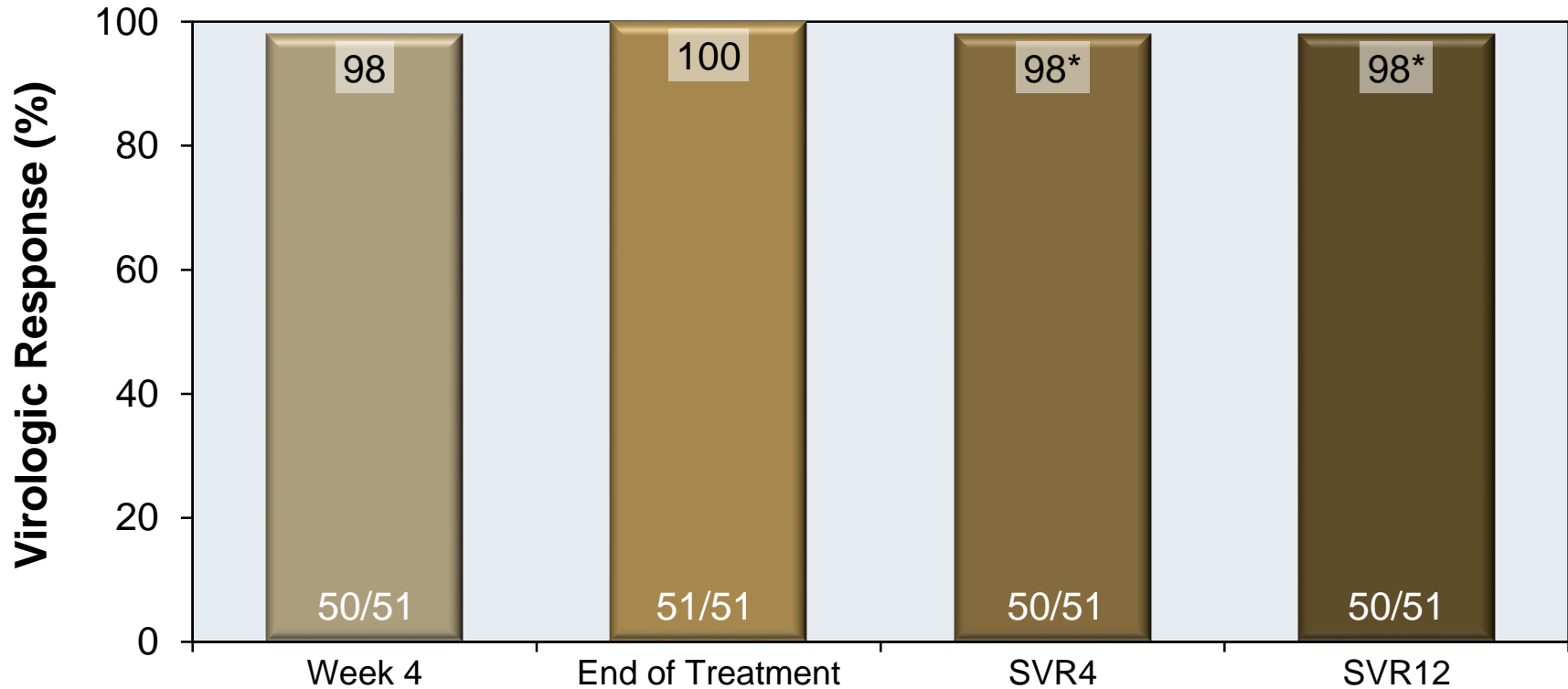
LDV-SOF + RBV in Sofosbuvir-Experienced GT 1 HCV Baseline Characteristics

Patient Characteristics	Ledipasvir-Sofosbuvir + RBV x 12 weeks (n = 51)
Previous HCV treatment regimen (by Sofosbuvir exposure in weeks), n (%)	
Sofosbuvir + Peginterferon + Ribavirin	1 (2)
For 4 weeks	22 (43)
For 12 weeks	2 (4)
For 24 weeks	
Sofosbuvir + Ribavirin	
For 12 weeks	6 (12)
For 24 weeks	14 (27)
Without Sofosbuvir	6 (12)
Outcome with previous treatment	
Virologic failure	47 (92)
Discontinuation from adverse events	2 (4)
Study terminated by sponsor	2 (4)

Source: Wyles D, et al. *Hepatology*. 2015;61:1793-7.

LDV-SOF + RBV in Sofosbuvir-Experienced GT 1 HCV Study Results

Virologic Response at Week 4, End-of-Treatment and SVR12, 24



Abbreviations: LDV= ledipasvir; SOF = sofosbuvir; RBV = ribavirin

*The one patient who relapsed found to have genotype 3a infection and was enrolled erroneously.

LDV-SOF + RBV in Sofosbuvir-Experienced GT 1 HCV Adverse Events

Event	Ledipasvir-Sofosbuvir + Ribavirin (n = 51)
Discontinuation due to adverse event	1 (2%)
Serious adverse event	2 (4%)
Fatigue	13 (25%)
Headache	11 (22%)
Diarrhea	7 (14%)
Rash	6 (12%)
Insomnia	6 (12%)
Nausea	5 (10%)
Constipation	4 (8%)

LDV-SOF + RBV in Sofosbuvir-Experienced GT 1 HCV

Conclusions

Conclusions: “Twelve weeks of ledipasvir-sofosbuvir plus ribavirin was an effective and safe treatment for patients who have not achieved SVR with earlier regimens that included sofosbuvir.”