Treatment Naïve and Treatment Experienced, Phase 3

## Sofosbuvir-Velpatasvir versus Sofosbuvir-Velpatasvir-Voxilaprevir in GT 3 and Cirrhosis POLARIS-3

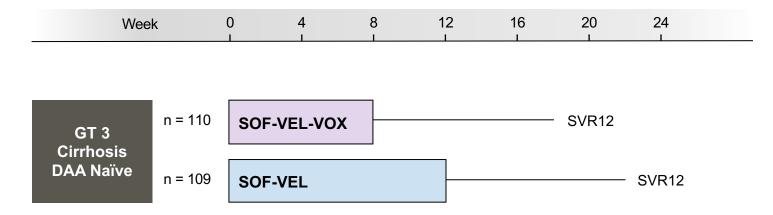


# SOF-VEL-VOX versus SOF-VEL in GT 3 and Cirrhosis POLARIS-3: Study Features

- Design: Open-label, randomized, phase 3 trial to compare efficacy of a fixed-dose combination of sofosbuvir-velpatasvir-voxilaprevir (SOF-VEL-VOX) for 8 weeks versus sofosbuvir-velpatasvir (SOF-VEL) for 12 weeks in patients with HCV genotype 3 and cirrhosis who were DAA-naïve
- Setting: 84 sites in United States, Canada, New Zealand, Australia, France, Germany, and United Kingdom
- Entry Criteria
  - Age ≥18 years
  - Chronic HCV GT 3 with compensated cirrhosis
  - HCV RNA ≥10,000 IU/mL at screening
  - No prior treatment with DAA; prior peginterferon plus ribavirin allowed
- Primary End Point: SVR12



### SOF-VEL-VOX versus SOF-VEL in GT 3 and Cirrhosis POLARIS-3: Study Design



**Abbreviations**: SOF = sofosbuvir; VEL = velpatasvir; VOX = voxilaprevir

#### Drug Dosing

SOF-VEL-VOX (400/100/100 mg): fixed dose combination; one pill once daily SOF-VEL (400/100 mg): fixed dose combination; one pill once daily



## SOF-VEL-VOX versus SOF-VEL in GT 3 and Cirrhosis POLARIS-3: Baseline Characteristics

Baseline Characteristic	<b>SOF-VEL-VOX</b> x 8 weeks (n = 110)	<b>SOF-VEL x</b> 12 weeks (n = 109)
Age, mean (range)	54 (25-75)	55 (31-69)
Male, n (%)	74 (67)	100 (92)
White, n (%)	100 (91)	97 (89)
Cirrhosis Features Platelets <100 x 10 <sup>3</sup> /µL, n (%) Mean FibroScan (range), kPa	30 (29) 23 (13-75)	21 (19) 22 (13-75)
Body mass index, mean, kg/m <sup>2</sup> (range)	28 (20-50)	27 (18-46)
Mean HCV RNA, log <sub>10</sub> IU/mL (range)	6.0 (1.6-7.6)	6.3 (4.1-7.5)
IL28B CC, n (%)	41 (37)	52 (48)

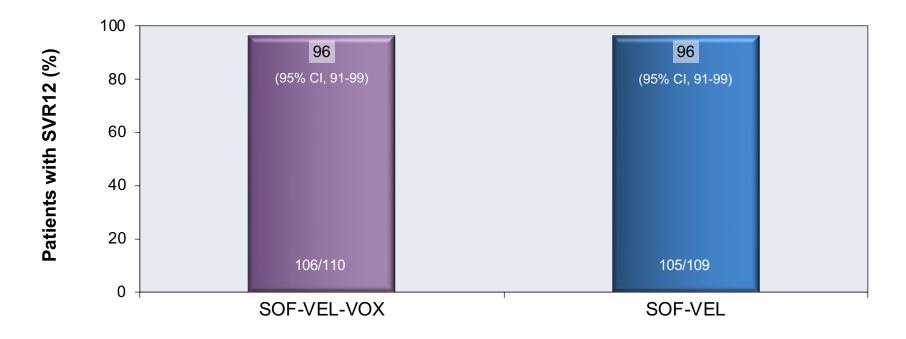


## SOF-VEL-VOX versus SOF-VEL in GT 3 and Cirrhosis POLARIS-3: Baseline Characteristics

Information on Prior Treatment	<b>SOF-VEL-VOX</b> x 8 weeks (n = 110)	<b>SOF-VEL</b> x 12 weeks (n = 109)
Treatment-Naïve	75 (68)	77 (71)
Treatment-Experienced	35 (32)	32 (29)
Peginterferon + Ribavirin	31 (89)	30 (94)
Other	4 (11)	2 (6)
Most Recent Treatment Response		
Nonresponder	16 (46)	8 (25)
Relapse	16 (46)	20 (63)
Other	3 (9)	4 (13)

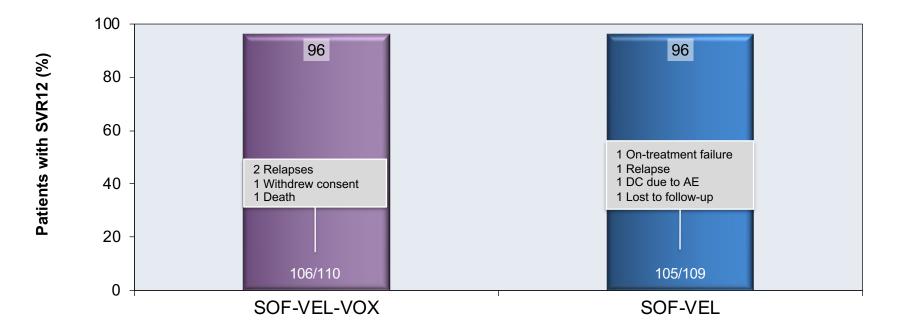


#### POLARIS-3: Overall SVR12 by Treatment Arm



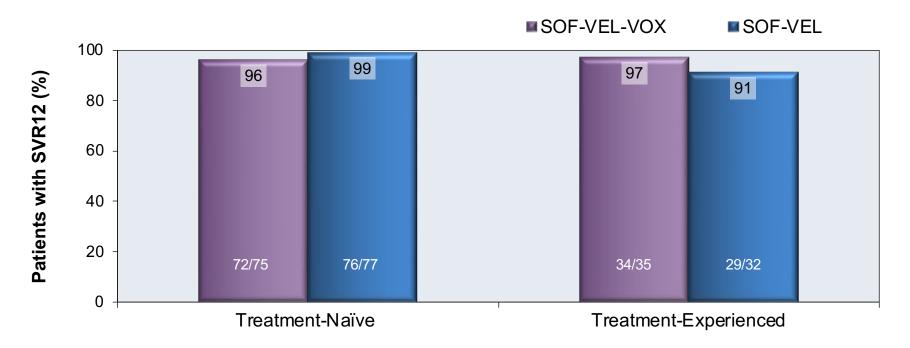


#### POLARIS-3: Overall SVR12 by Treatment Arm





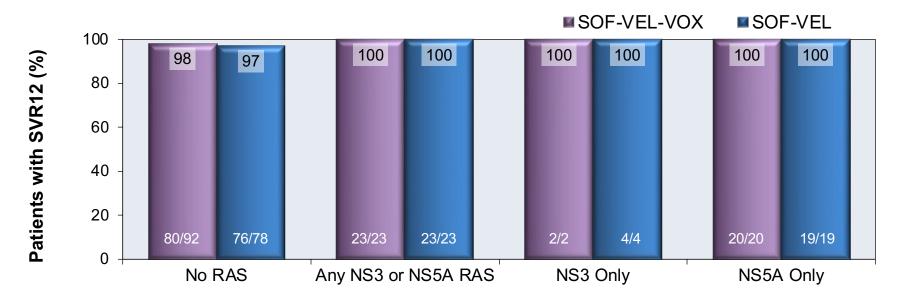
### POLARIS-3: SVR12 by Treatment Experience







#### POLARIS-3: SVR12 by Baseline RAS



Y93H: 6 patients in SOF-VEL-VOX group and 4 in SOF-VEL group; all achieved SVR. No treatment-emergent RASs in SOF-VEL-VOX group. Both virologic failures in SOF-VEL group had Y93H.



Adverse Event (AE), n (%)	SOF-VEL-VOX x 8 weeks (n = 110)	<b>SOF-VEL</b> x 12 weeks (n = 109)
Discontinuation due to AE	0	1 (1)
Serious AE	2 (2)	3 (3)
Serious Related AE	0	0
Deaths	1 (1) <sup>§</sup>	0
Common AE		
Headache	27 (25)	32 (29)
Fatigue	28 (25)	31 (28)
Nausea	23 (21)	10 (9)
Diarrhea	17 (15)	5 (5)
Laboratory AEs (Grade 3-4)	14 (13)	9 (8)



### SOF-VEL-VOX versus SOF-VEL in GT 3 and Cirrhosis POLARIS-3: Conclusions

**Conclusions**: "In phase 3 trials of patients with HCV infection, we did not establish that sofosbuvir-velpatasvir-voxilaprevir for 8 weeks was noninferior to sofosbuvir-velpatasvir for 12 weeks, but the 2 regimens had similar rates of SVR in patients with HCV genotype 3 and cirrhosis. Mild gastrointestinal adverse events were associated with treatment regimens that included voxilaprevir."



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