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## BACKGROUND

- Globally, 130–150 million people are chronically infected with HCV, resulting in up to 350,000 deaths per year<sup>1,2</sup>
- Chronic HCV infection is associated with progressive liver disease that can lead to cirrhosis and hepatocellular carcinoma
- The all-oral combination of daclatasvir, asunaprevir, and beclabuvir achieved sustained virologic response (SVR12) rates of > 92% in genotype (GT) 1 treatment-naive patients and 100% in GT 4 patients with 12 weeks of treatment in Phase 2 studies<sup>3,4</sup>
- Here we present results of the Phase 3 UNITY-1 study evaluating this all-oral, ribavirin-free combination in non-cirrhotic treatment-naive and -experienced patients with HCV GT 1 infection
- Safety and efficacy in GT 1 cirrhotic patients are reported at this congress (Late-Breaker Oral LB-2)

## **ALL-ORAL DCV-TRIO REGIMEN**

#### Daclatasvir (DCV)

- Pangenotypic<sup>a</sup> NS5A inhibitor with low potential for drug–drug interactions
- Safe and well tolerated in > 6000 subjects
- Approved in Europe and Japan; under regulatory review in the US
- Asunaprevir (ASV)
- NS3 protease inhibitor
- Clinical data in GT 1 and 4
- Beclabuvir (BCV; BMS-791325)
- Non-nucleoside NS5B polymerase inhibitor
- Clinical data in GT 1 and 4



<sup>a</sup> Pangenotypic: GT 1–6 in vitro and GT 1–4 in clinical trials.

## METHODS

#### Figure 1. UNITY-1 Study Design (AI443-102) Treatment-naive DCV/ASV/BCV FDC N = 312 Follow-up Treatment-experienced DCV/ASV/BCV FDC N = 103 **Week 12** Week 24 Week 48 Week 0 (SVR12) FDC, fixed-dose combination.

#### Primary Endpoint

- SVR12 in treatment-naive patients
- HCV RNA < lower limit of quantitation (LLOQ) at posttreatment Week 12</li>
- Demonstrate SVR12 is significantly greater than historical threshold of 79% (based on an analysis of sofosbuvir plus peginterferon/ribavirin data)
- Assessed using the Roche HCV COBAS TaqMan<sup>®</sup> test v2.0 (LLOQ, 25 IU/mL)

#### **Treatment Regimen**

- Twice-daily, fixed-dose combination tablet (DCV-TRIO)
- DCV 30 mg / ASV 200 mg / BCV 75 mg

#### **Key Secondary Endpoints**

- SVR12 in treatment-experienced patients
- Demonstrate SVR12 is significantly greater than historical threshold of 48% (based on an analysis of simeprevir plus peginterferon/ribavirin data)
- Safety: assessed by the frequency of serious adverse events (AEs) and discontinuations due to AEs **Patients**
- Non-cirrhotic patients with chronic HCV GT 1 infection
- Aged  $\geq$  18 years with HCV RNA  $\geq$  10,000 IU/mL
- No evidence of HIV or hepatitis B virus coinfection or hepatic decompensation
- Treatment-naive: no prior exposure to interferon alfa, ribavirin or any direct-acting antiviral (DAA) or host-targeted agent
- **Treatment-experienced:** prior exposure to peginterferon/ribavirin and/or select DAAs<sup>a</sup> or host-targeted agents

<sup>a</sup> DAAs excluded: prior exposure to NS5B non-nucleoside thumb-1 inhibitors, NS3 inhibitors or NS5A inhibitors.

# All-Oral, Fixed-Dose Combination Therapy With Daclatasvir/Asunaprevir/Beclabuvir for Non-Cirrhotic Patients With Chronic HCV Genotype 1 Infection: UNITY-1 Phase 3 SVR12 Results

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RESULTS Table 1. Baseline Demographic and Disease Characteristics			
53.5 (19–77)	57.0 (22–69)	55.0 (19–77)	
175 (56)	64 (62)	239 (58)	
270 (87)	91 (88)	361 (87)	
34 (11)	7 (7)	41 (10)	
8 (3)	5 (5)	13 (3)	
68 (22)	10 (10)	78 (19)	
244 (78)	93 (90)	337 (81)	
229 (73)	75 (73)	304 (73)	
83 (27)	28 (27)	111 (27)	
90 (29)	16 (16)	106 (26)	
174 (56)	73 (71)	247 (60)	
47 (15)	14 (14)	61 (15)	
1 (0.3)	0	1 (0.2)	
N/A	93 (90)	93 (22)	
-	39 (38)	39 (9)	
_	25 (24)	25 (6)	
_	12 (12)	12 (3)	
		-2 (3) 7 (7)	
		/ (2)	
-	10 (10)	10 (2)	
	RESULT         Intertment-naive N = 312         S3.5 (19–77)         175 (56)         270 (87)         34 (11)         8 (3)         68 (22)         244 (78)         229 (73)         83 (27)         90 (29)         174 (56)         47 (15)         1 (0.3)         N/A         _	Treatment-naive N = 312         Treatment-experienced N = 103           53.5 (19-77)         57.0 (22-69)           175 (56)         64 (62)           270 (87)         91 (88)           34 (11)         7 (7)           8 (3)         5 (5)           68 (22)         10 (10)           244 (78)         93 (90)           229 (73)         75 (73)           83 (27)         28 (27)           90 (29)         16 (16)           174 (56)         73 (71)           47 (15)         14 (14)           1 (0.3)         0           N/A         93 (90)           -         39 (38)           -         25 (24)           -         12 (12)           -         7 (7)           -         10 (10)	

<sup>a</sup> Null response defined as <2 log<sub>10</sub> decrease in HCV RNA at treatment Week 12 compared with baseline.

<sup>b</sup> Prior treatment response missing or could not be categorized.

The majority of patients (73%) were infected with HCV GT 1a

- Most were male (58%) and white (87%), and the median age was 55 years
- Both treatment-naive and -experienced patients were predominately non-CC IL28B genotype (71% and 84%, respectively)

The majority of patients (97%) completed the treatment period

- 8 patients (6 naive, 2 experienced) discontinued due to lack of efficacy
- 3 patients discontinued due to an AE; all achieved SVR12
- 1 patient discontinued due to pregnancy at Week 6 and achieved SVR12



<sup>a</sup> HCV RNA < LLOQ (25 IU/mL); patients with missing SVR12 data counted as treatment failures. <sup>b</sup> Error bars reflect 95% CI.



- The SVR12 rate in treatment-naive HCV GT 1 patients (92%) was significantly higher than the historical threshold rate (79%)
- The lower bound 95% confidence interval (89%) exceeded the threshold value
- A significantly higher SVR12 rate was observed in treatment-experienced HCV GT 1 patients (89%) compared with the historical threshold rate (48%)
- High SVR12 rates (98–100%) were observed in treatment-naive and treatment-experienced patients infected with HCV GT 1b

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<sup>a</sup> HCV RNA < LLOQ (25 IU/mL); patients with missing SVR12 data counted as treatment failures. <sup>b</sup> Error bars reflect 95% CI.

SVR12 rates were high across patient subgroups based on baseline characteristics

### Table 3. Virologic Outcomes

Outcome, n (%)	Treatment-naive N = 312	Treatment-experienced N = 103
SVR12	287 (92)	92 (89)
On-treatment failures		
Virologic breakthrough	6 (2)	2 (2)
Detectable HCV RNA at EOT	3 (1)	2 (2)
Posttreatment failures <sup>a</sup>		
Relapse	15 (5)	6 (6)
Missing HCV RNA	1 (0.3)	1(1)

(treatment-naive: n = 301; treatment-experienced: n = 98).

Baseline NS5A resistance-associated variants were detected in 34/302 GT 1a patients<sup>b</sup> and 17/106 GT 1b patients with available data

- 25/34 GT 1a patients achieved SVR12
- All 17 GT 1b patients achieved SVR12
- Virologic failure occurred in 34/415 patients

- NS5A-Q30, NS3-R155 and NS5B-P495 were the most frequently observed resistance-associated variants among GT 1a patients<sup>b</sup>

- Only 2 GT 1b patients experienced virologic failure
- 1 patient had GT 2b sequence at virologic failure and 1 had a non-GT 1a/1b at subsequent analysis<sup>c</sup>

<sup>b</sup> Resistance was performed by population-based sequencing on samples with HCV RNA ≥1000 IU/mL. <sup>c</sup> Patients were classified as GT 1b by the commercial Abbott HCV Genotype II or VERSANT<sup>®</sup> HCV genotype 2.0 LiPA assay. **Poster LB-7** 



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Table 5. On-Treatment Safetv Summarv			
Table 5. On-Treatment Safety Summary	All patients		
Parameter, n (%)	N = 415		
Death <sup>a</sup>	1 (0.2)		
Serious AES <sup>~</sup> AFs leading to discontinuation <sup>c</sup>	7 (2) 3 (0 7)		
Any AE	328 (79)		
Most frequent AEs (≥ 10% of patients)			
Headache	107 (26)		
Fatigue	69 (17)		
Diarrhea	58 (14)		
Nausea	56 (13)		
Grade 3/4 laboratory abnormalities	0		
Absolute neutrophils < 0.75 × 10 <sup>9</sup> /L	2 (0.5)		
Absolute lymphocytes < 0.5 × 10 <sup>9</sup> /L	1 (0.2)		
Platelets < 50 × 10 <sup>9</sup> /L	0		
Alanine aminotransferase > 5 × ULN	19 (5)		
Aspartate aminotransterase > $5 \times ULN$ Total bilirubin > 2.5 x LILN	9 (2) N		
Total lipase > 3.0 × ULN	16 (4)		
AE, adverse event; ULN, upper limit of normal.	× /		
<ul> <li>All serious AEs were not considered related to study medication.</li> <li>Patients discontinued due to a treatment-related AE (insomnia, ALT elevation, ALT/AS</li> <li>DCV-TRIO was well tolerated with low rates of serious AEs (2)</li> <li>The most commonly observed AEs were headache, fatigue,</li> <li>Treatment discontinuation due to an ALT elevation occurred <ul> <li>A 43-year-old male whose ALT rose to a maximum of 579 U/L on Day 4 treatment was discontinued on Day 46 and the ALT elevation resolved</li> <li>A 58-year-old male with elevated ALT on Day 56 (188 U/L) and Day 77 was stopped on Day 78; on Day 79, ALT reached maximum of 862 U/L</li> </ul> </li> <li>1 death occurred at posttreatment Week 3 due to a heroin of to be related to study medication by the investigator</li> </ul> Treatment with the all-oral, ribavirin-free, fixed-dose of (DCV-TRIO) for 12 weeks achieved an SVR12 of 91% in SVR12 rates were comparable with respect to gender, and the 200 medication.	T elevation); all achieved SVR12. 2%) and AE discontinuations (0.7%) diarrhea, and nausea 1 in 2 patients: 3; total bilirubin (T <sub>BILI</sub> ) peak was 0.9 mg/dL; at Day 81 (833 U/L). T <sub>BILI</sub> reached 2.3 mg/dL. Treatmer (T <sub>BILI</sub> was 1.6 mg/dL); both resolved on Day 9 overdose and was not considered Dombination of DCV/ASV/BCV non-cirrhotic GT 1 patients age, race, baseline HCV RNA,		
<ul> <li>DCV-TRIO was generally safe and well tolerated</li> <li>Low rates of serious AEs and AEs leading to discontinuation</li> </ul>	on		
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