Treatment Naïve and Treatment Experienced

**HIV** Coinfection

# 3D (Ombitasvir-Paritaprevir-Ritonavir + Dasabuvir) + RBV in GT1 TURQUOISE-I



## 3D + Ribavirin for HCV-HIV Coinfection and GT1 TURQUOISE-I: Part 1a Study Design

#### **TURQUOISE-I:** Features

- Design: Multipart, phase 2/3, randomized, open-label trial evaluating safety and efficacy of 3D (ombitasvir-paritaprevir-ritonavir and dasabuvir) plus ribavirin for 12 or 24 weeks in treatment-naïve and experienced patients with chronic HCV GT 1 and HIV coinfection, including patients with cirrhosis
- Setting: Multicenter study in United States and Puerto Rico

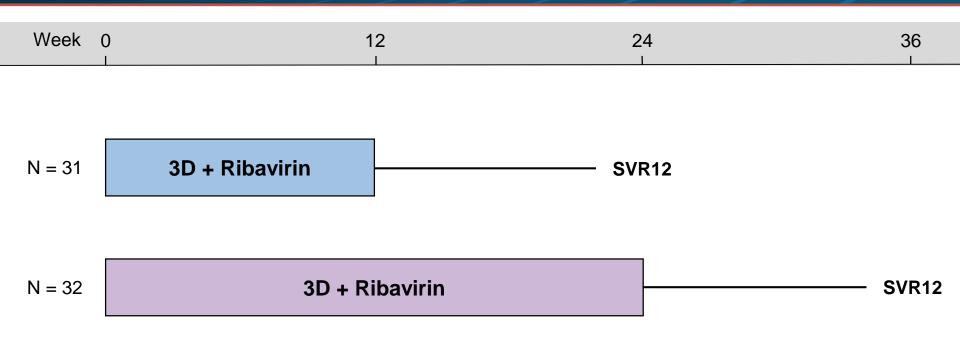
#### Entry Criteria

- Chronic HCV infection with genotype 1 and HIV coinfection
- Treatment-naïve or previously treated with peginterferon + ribavirin
- Age 18-70
- Plasma HCV RNA greater than 10,000 IU/mL
- Child-Pugh A cirrhosis permitted
- CD4 count ≥200 cells/mm<sup>3</sup> (or CD4% ≥14) and HIV RNA level <40 copies/ml
- Receiving atazanavir- or raltegravir-based regimen
- Primary End-Point: SVR12





### 3D + Ribavirin for HCV-HIV Coinfection and GT1 TURQUOISE-I: Part 1a Study Regimens



3D = Ombitasvir-Paritaprevir-Ritonavir and Dasabuvir

#### **Drug Dosing**

Ombitasvir-Paritaprevir-Ritonavir (25/150/100 mg once daily) and Dasabuvir: 250 mg twice daily Ribavirin (RBV): weight-based and divided bid (1000 mg/day if < 75kg or 1200 mg/day if  $\ge$  75kg)



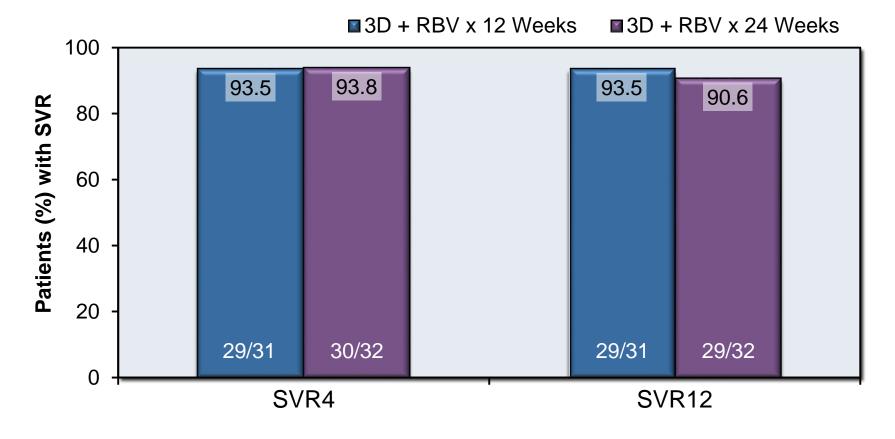
## 3D + Ribavirin for HCV-HIV Coinfection and GT 1 TURQUOISE-I: Patient Population

Baseline Characteristic	<b>12-Week Arm</b> (n=31)	<b>24-Week Arm</b> (n=32)
Age (years), Mean	50.9	50.9
Male sex %	94	91
Black Race (%)	23	25
Cirrhosis (%)	19	19
HCV genotype (%) 1a 1b	87 13	91 9
HCV RNA, log <sub>10</sub> IU/ml (mean)	6.54	6.60
IL28B non-CC genotype, (%)	84	78
Previous Response to PEG + RBV Naïve Relapse Partial response Null response	65 3 16 16	69 9 6 16
CD4 Count, cells/mm <sup>3</sup> (mean)	633	625



### 3D + Ribavirin for HCV-HIV Coinfection and GT 1 TURQUOISE-I: Part 1a Results

#### TURQUOISE-I: SVR Rates (to date)



**3D =** Ombitasvir-Paritaprevir-Ritonavir and Dasabuvir; **RBV** = Ribavirin



## 3D + Ribavirin for HCV-HIV Coinfection and GT 1 TURQUOISE-I: Part 1a Results

#### Details of Five Patients NOT Achieving SVR 12

- One patient in 12-week arm withdrew consent prior to finishing treatment; had undetectable HCV RNA at week 10
- One patient in 12-week arm had virologic relapse at week 4 post treatment; had new resistant HCV variants at 3 viral targets (D168V in NS3/4A, M28T in NS5A, and S556G in NS5B)
- One patient in 24-week arm had virologic breakthrough during treatment; had new resistant HCV variants at 3 viral targets (R155K in NS3/4A, Q30R in NS5A, and S556G in NS5B)
- Two patients in 24-week arm achieved early SVR but appeared to be reinfected with GT1a isolate distinct from baseline HCV isolate; both patients had engaged in high-risk sexual activity post treatment



### 3D + Ribavirin for HCV-HIV Coinfection and GT 1 TURQUOISE-I: Part 1a Conclusions and Relevance

**Conclusions and Relevance**: "In this open-label, randomized uncontrolled study, treatment with the all-oral, interferon-free 3D-plusribavirin regimen resulted in high SVR rates among patients co-infected with HCV genotype 1 and HIV-1 whether treated for 12 or 24 weeks. Further phase 3 studies of this regimen are warranted in patients with coinfection."



This slide deck is from the University of Washington's *Hepatitis C Online* and *Hepatitis Web Study* projects.

Hepatitis C Online www.hepatitisc.uw.edu

Hepatitis Web Study http://depts.washington.edu/hepstudy/

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