Treatment Naïve and Treatment Experienced

HIV Coinfection

Sofosbuvir in HCV-HIV Coinfection & HCV GT 1,2,3 PHOTON-1 Trial



Sofosbuvir and Ribavirin for HCV-HIV Coinfection PHOTON-1 Trial: Study Features

PHOTON-1 Trial: Features

- Design: Open-label, nonrandomized, uncontrolled, phase 3 trial using sofosbuvir + ribavirin in HCV-HIV coinfection and HCV GT 1, 2, or 3
- Setting: 34 treatment centers in United States and Puerto Rico
- Entry Criteria
 - HIV coinfection; HCV Genotype 1, 2, or 3
 - Treatment naïve (GT 1,2,3) or treatment experienced (GT 2,3)
 - On antiretroviral therapy with HIV RNA ≤ 50 copies/ml and CD4 ≥ 200 or not on antiretroviral therapy and CD4 ≥ 500
 - Compensated cirrhosis permitted (<20% total patients)

Patient Characteristics

- N = 223 HCV-HIV coinfected patients
- On ARV Rx: GT1 (98%); GT 2/3 naive (90%); GT 2/3 experienced (95%)
- Primary End-Points
 - Efficacy (SVR12), safety, and impact on HIV



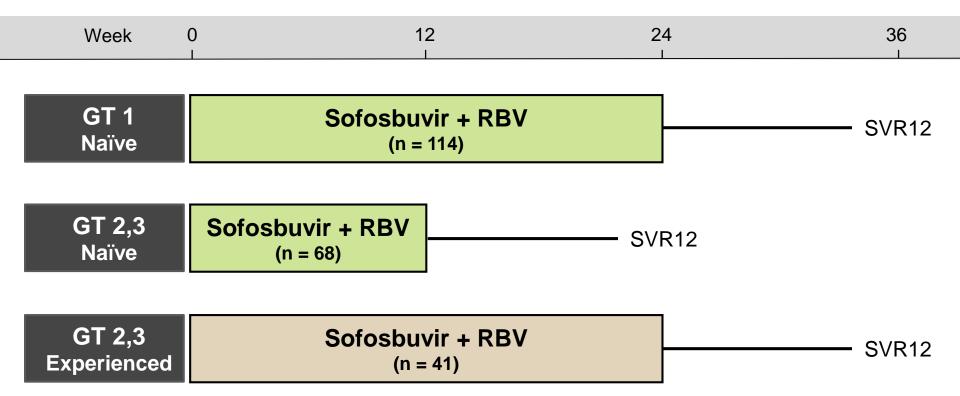
Sofosbuvir and Ribavirin for HCV-HIV Coinfection PHOTON-1 Trial: Participants

	Treatment Naive		Treatment Experienced
	GT 1 (n=114)	GT 2 or 3 (n=68)	GT 2 or 3 (n=41)
Age, mean (range)	48 (25-70)	49 (24-71)	54 (34-68)
Male, %	82%	81%	90%
Black, %	32%	12%	17%
IL28B CC genotype, %	27%	37%	49%
Cirrhosis, %	4%	10%	24%
On ART§, %	98%	90%	95%
CD4 count, cells/mm³, median	581	562	579

[§]Tenofovir-emtricitabine plus [efavirenz, r-atazanavir, r-darunavir, raltegravir, rilpivirine, or other]



Sofosbuvir and Ribavirin for HCV-HIV Coinfection PHOTON-1 Trial: Treatment Arms



Drug Dosing

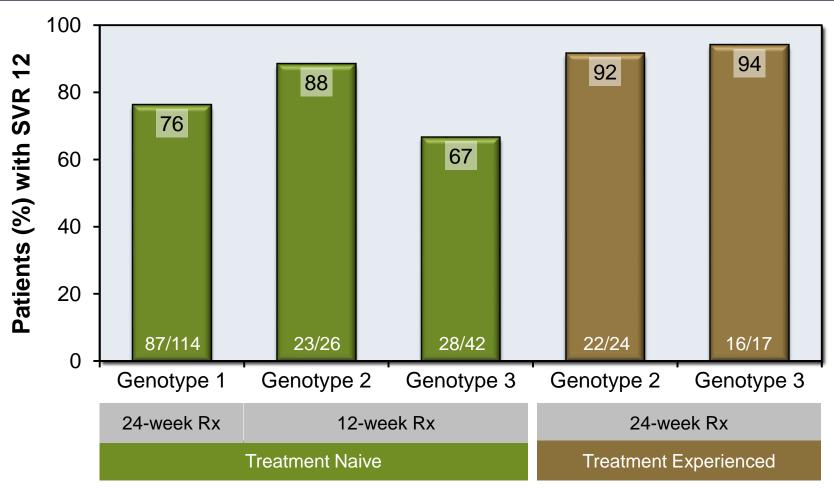
Sofosbuvir: 400 mg once daily

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



Sofosbuvir and Ribavirin for HCV-HIV Coinfection PHOTON-1 Trial: Results

PHOTON-1: SVR 12 with Sofosbuvir + RBV x 12-24 weeks





Sofosbuvir and Ribavirin for HCV-HIV Coinfection PHOTON-1 Trial: Conclusions

Conclusions and Relevance: "In this open-label, nonrandomized, uncontrolled study, patients with HIV who were coinfected with HCV genotype 1, 2, or 3 who received the oral, interferon-free combination of sofosbuvir and ribavirin for 12 or 24 weeks had high rates of SVR12. Further studies of this oral regimen in diverse populations of coinfected patients are warranted."



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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