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Sofosbuvir in Combination With Pegylated Interferon and Ribavirin and in Treatment-Naive Hepatitis C-infected Patients

This study has been completed.

Sponsor:

Gilead Sciences

ClinicalTrials.gov Identifier:

NCT01188772

First Posted: August 25, 2010

Last Update Posted: April 21, 2014

⚠ The safety and scientific validity of this study is the responsibility of the study sponsor and investigators. Listing a study does not mean it has been evaluated by the U.S. Federal Government. Read our [disclaimer](#) for details.

Information provided by (Responsible Party):

Gilead Sciences

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▶ Purpose

Genotype 1: Participants with genotype 1 hepatitis C (HCV) infection were randomized to receive **sofosbuvir** (GS-7977; PSI-7977) 200 mg or 400 mg, or matching placebo, plus pegylated interferon alfa 2a (PEG) and ribavirin (RBV) for 12 weeks, followed by PEG+RBV for an up to an additional 36 weeks. Randomization was stratified by IL28B status (CC, CT, TT) and HCV RNA level (< 800,000 IU/ml or ≥ 800,000 IU/ml) at baseline. Participants were randomized in a 2:2:1 manner; those who achieved an extended rapid virologic response (eRVR) (HCV RNA < lower limit of detection [15 IU/ml] from Weeks 4

through 12) received an additional 12 weeks of PEG+RBV. Subjects not achieving eRVR received an additional 36 weeks of PEG+RBV.

Genotype 2 and 3: Participants with genotype 2 or 3 hepatitis C (HCV) received **sofosbuvir** 400 mg plus PEG+RBV for 12 weeks.

<u>Condition</u>	<u>Intervention</u>	<u>Phase</u>
Hepatitis C Virus	Drug: Sofosbuvir Drug: Placebo to match sofosbuvir Drug: PEG Drug: RBV	Phase 2

Study Type: Interventional

Study Design: Allocation: Randomized

Intervention Model: Parallel Assignment

Masking: Quadruple (Participant, Care Provider, Investigator, Outcomes Assessor)

Primary Purpose: Treatment

Official Title: A Multi-center, Placebo-Controlled, Dose Ranging Study to Investigate the Safety, Tolerability, Pharmacokinetics and Pharmacodynamics Following Oral Administration of PSI-7977 in Combination With Pegylated Interferon and Ribavirin in Treatment-Naïve Patients With Chronic HCV Infection Genotype 1, and an Open Label Assessment of PSI-7977 in Patients With HCV Genotypes 2 or 3

Resource links provided by NLM:

[MedlinePlus](#) related topics: [Hepatitis](#) [Hepatitis A](#) [Hepatitis C](#)

[Drug Information](#) available for: [Interferon](#) [Ribavirin](#) [Sofosbuvir](#)

[U.S. FDA Resources](#)

Further study details as provided by Gilead Sciences:

Primary Outcome Measures:

- Percentage of Participants Who Experienced Adverse Events During the **Sofosbuvir** Treatment Period [Time Frame: Baseline to Week 12 plus 30 days]

Adverse events (AEs) occurring during the sofosbuvir treatment period and for 30 days following the

once if they had a qualifying event.

Secondary Outcome Measures:

- Change in HCV RNA From Baseline to Week 12 [Time Frame: Baseline to Week 12]
- Percentage of Participants With Rapid Virologic Response at Week 4 [Time Frame: Week 4]
Rapid virologic response was defined as HCV RNA below the limit of detection (< 15 IU/mL) at Week 4 (Day 29)
- Percentage of Participants With Complete Early Virologic Response at Week 12 [Time Frame: Week 12]
Complete early virologic response was defined as HCV RNA below the limit of detection (< 15 IU/mL) at Week 12
- Percentage of Participants With Extended Rapid Virologic Response [Time Frame: Week 4 to Week 12]
Extended rapid virologic response was defined as HCV RNA below the limit of detection (< 15 IU/mL) at Week 4 (Day 29) which was maintained through Week 12.
- Percentage of Participants With Virologic Response at the End of Treatment [Time Frame: Week 48 (genotype 1) or Week 12 (genotype 2/3)]
End-of-treatment virologic response was defined as HCV RNA below the limit of detection (< 15 IU/mL) at the last on-treatment visit.
- Percentage of Participants With Sustained Virologic Response at Post-treatment Week 12 (SVR12) and 24 (SVR24) [Time Frame: Post-treatment Weeks 12 and 24]
SVR12 and SVR24 were defined as HCV RNA below the limit of detection (< 15 IU/mL) at post-treatment Weeks 12 and 24, respectively.
- Plasma Pharmacokinetics of GS-331007 (Cmax at Day 8) [Time Frame: 1, 2, 4, 8, and 12 hours postdose]
The pharmacokinetics of sofosbuvir metabolite GS-331007 were analyzed as the maximum observed concentration of drug in plasma (Cmax) at Day 8. Blood samples were collected at 1, 2, and 4 hours postdose for all participants, and at 8 and 12 hours postdose for participants enrolled at selected sites.

- Plasma Pharmacokinetics of GS-331007 (Cmax at Day 15) [Time Frame: 1, 2, 4, 8, and 12 hours postdose]

The pharmacokinetics of sofosbuvir metabolite GS-331007 were analyzed as the Cmax at Day 15. Blood samples were collected at 1, 2, and 4 hours postdose for all participants, and at 8 and 12 hours postdose for participants enrolled at selected sites.

- Plasma Pharmacokinetics of GS-331007 (Cmax at Day 29) [Time Frame: 1, 2, 4, 8, and 12 hours postdose]

The pharmacokinetics of sofosbuvir metabolite GS-331007 were analyzed as the Cmax at Day 29. Blood samples were collected at 1, 2, and 4 hours postdose for all participants, and at 8 and 12 hours postdose for participants enrolled at selected sites.

- Plasma Pharmacokinetics of GS-331007 (AUCtau at Day 8) [Time Frame: 1, 2, 4, 8, and 12 hours postdose]

The pharmacokinetics of sofosbuvir metabolite GS-331007 were analyzed as the the area under the plasma concentration versus time curve over the dosing interval (AUCtau) at Day 8. Blood samples were collected at 1, 2, and 4 hours postdose for all participants, and at 8 and 12 hours postdose for participants enrolled at selected sites.

- Plasma Pharmacokinetics of GS-331007 (AUCtau at Day 15) [Time Frame: 1, 2, 4, 8, and 12 hours postdose]

The pharmacokinetics of sofosbuvir metabolite GS-331007 were analyzed as the the area under the plasma concentration versus time curve over the dosing interval (AUCtau) at Day 15. Blood samples were collected at 1, 2, and 4 hours postdose for all participants, and at 8 and 12 hours postdose for participants enrolled at selected sites.

- Plasma Pharmacokinetics of GS-331007 (AUCtau at Day 29) [Time Frame: 1, 2, 4, 8, and 12 hours postdose]

The pharmacokinetics of sofosbuvir metabolite GS-331007 were analyzed as the the area under the plasma concentration versus time curve over the dosing interval (AUCtau) at Day 29. Blood samples were collected at 1, 2, and 4 hours postdose for all participants, and at 8 and 12 hours postdose for participants enrolled at selected sites.

- Percentage of Participants Who Developed Resistance to **Sofosbuvir** [Time Frame: Baseline to Week 12]

Resistance monitoring was completed in all subjects who received sofosbuvir and who had non-

Enrollment: 147
 Study Start Date: August 2010
 Study Completion Date: May 2012
 Primary Completion Date: April 2011 (Final data collection date for primary outcome measure)

Arms	Assigned Interventions
<p>Experimental: Sofosbuvir 200 mg (Genotype 1)</p> <p>Participants with genotype 1 HCV infection were randomized to receive sofosbuvir 200 mg (2 x 100 mg tablets)+placebo to match sofosbuvir (2 tablets)+PEG+RBV for 12 weeks followed by PEG+RBV for up to an additional 36 weeks.</p>	<p>Drug: Sofosbuvir</p> <p>Sofosbuvir tablets were administered orally once daily.</p> <p>Other Names:</p> <ul style="list-style-type: none"> • Sovaldi® • GS-7977 • PSI-7977 <p>Drug: Placebo to match sofosbuvir</p> <p>Placebo tablets to match sofosbuvir were administered orally once daily.</p> <p>Drug: PEG</p> <p>Pegylated interferon alfa-2a (PEG) 180 µg was administered once weekly by subcutaneous injection.</p> <p>Other Name: Pegasys®</p> <p>Drug: RBV</p> <p>Ribavirin (RBV) was administered as a tablet orally according to package insert dosing recommendations (Genotype 1: < 75kg = 1000 mg and ≥ 75 kg = 1200 mg; Genotype 2/3: 800 mg).</p> <p>Other Name: Copegus®</p>
<p>Experimental: Sofosbuvir 400 mg (Genotype 1)</p> <p>Participants with genotype 1 HCV infection were randomized to receive sofosbuvir 400 mg (4 x 100 mg tablets)+PEG+RBV for 12 weeks followed by PEG+RBV for up to an additional 36 weeks.</p>	<p>Drug: PEG</p> <p>Pegylated interferon alfa-2a (PEG) 180 µg was administered once weekly by subcutaneous injection.</p> <p>Other Name: Pegasys®</p> <p>Drug: RBV</p>

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