



Clinical trial results:

A Randomized, Double-Blind, Controlled Study to Evaluate the Efficacy and Safety of the Combination of ABT-450/Ritonavir/ABT-267 (ABT 450/r/ABT-267) and ABT-333 With and Without Ribavirin (RBV) in Treatment-Naïve Adults with Genotype 1b Chronic Hepatitis C Virus (HCV) Infection (PEARL-III)

Due to the EudraCT – Results system being out of service between 31 July 2015 and 12 January 2016, these results have been published in compliance with revised timelines.

Summary

EudraCT number	2012-003687-52
Trial protocol	PT BE HU AT IT ES PL
Global end of trial date	19 August 2014

Results information

Result version number	v1 (current)
This version publication date	13 May 2016
First version publication date	13 May 2016

Trial information

Trial identification

Sponsor protocol code	M13-961
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Additional study identifiers

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	NCT01767116
WHO universal trial number (UTN)	-

Notes:

Sponsors

Sponsor organisation name	AbbVie Deutschland GmbH & Co. KG
Sponsor organisation address	Abbott House, Vanwall Business Park, Vanwall Road, Maidenhead, Berkshire, United Kingdom, SL6 4XE
Public contact	Global Medical Information, AbbVie, 001 800-633-9110,
Scientific contact	Dan Cohen, MD, AbbVie, daniel.cohen@abbvie.com

Notes:

Paediatric regulatory details

Is trial part of an agreed paediatric investigation plan (PIP)	No
Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial?	No
Does article 46 of REGULATION (EC) No 1901/2006 apply to this trial?	No

Notes:

Results analysis stage

Analysis stage	Final
Date of interim/final analysis	19 August 2014
Is this the analysis of the primary completion data?	No
Global end of trial reached?	Yes
Global end of trial date	19 August 2014
Was the trial ended prematurely?	No

Notes:

General information about the trial

Main objective of the trial:

The purpose of this study is to evaluate the safety and antiviral activity of ABT-450/ritonavir/ABT-267 (ABT-450/r/ABT-267; ABT-450 also known as paritaprevir; ABT-267 also known as ombitasvir) and ABT-333 (also known as dasabuvir) with and without ribavirin (RBV) in patients with chronic hepatitis C virus genotype 1b (HCV GT1b) infection without cirrhosis.

Protection of trial subjects:

Subject read and understood the information provided about the study and gave written permission.

Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	11 December 2012
Long term follow-up planned	No
Independent data monitoring committee (IDMC) involvement?	Yes

Notes:

Population of trial subjects

Subjects enrolled per country

Country: Number of subjects enrolled	Poland: 39
Country: Number of subjects enrolled	Portugal: 16
Country: Number of subjects enrolled	Spain: 31
Country: Number of subjects enrolled	Austria: 21
Country: Number of subjects enrolled	Belgium: 26
Country: Number of subjects enrolled	Hungary: 21
Country: Number of subjects enrolled	Italy: 26
Country: Number of subjects enrolled	Israel: 58
Country: Number of subjects enrolled	Romania: 48
Country: Number of subjects enrolled	Russian Federation: 38
Country: Number of subjects enrolled	United States: 95
Worldwide total number of subjects	419
EEA total number of subjects	228

Notes:

Subjects enrolled per age group

In utero	0
Preterm newborn - gestational age < 37	0

wk	
Newborns (0-27 days)	0
Infants and toddlers (28 days-23 months)	0
Children (2-11 years)	0
Adolescents (12-17 years)	0
Adults (18-64 years)	386
From 65 to 84 years	33
85 years and over	0

Subject disposition

Recruitment

Recruitment details: -

Pre-assignment

Screening details:

The study included a screening period of 35 days.

Period 1

Period 1 title	Overall Study (overall period)
Is this the baseline period?	Yes
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

Arms

Are arms mutually exclusive?	Yes
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Arm title	ABT-450/r/ABT-267 and ABT-333, Plus RBV
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Arm description:

ABT-450/r/ABT-267 (150 mg/ 100 mg/ 25 mg once daily) and ABT-333 (250 mg twice daily), plus weight-based RBV (dosed 1,000 or 1,200 mg daily divided twice a day) for 12 weeks

Arm type	Experimental
Investigational medicinal product name	ABT-450/r/ABT-267
Investigational medicinal product code	
Other name	ABT-267 also known as ombitasvir, ABT-450 also known as paritaprevir, Viekirax
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

ABT-450 (150 mg) coformulated with ritonavir (100 mg) and ABT-267 (25 mg)

Investigational medicinal product name	ABT-333
Investigational medicinal product code	
Other name	dasabuvir, Exviera
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

250 mg twice daily

Investigational medicinal product name	Ribavirin
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Capsule
Routes of administration	Oral use

Dosage and administration details:

Weight-based (dosed 1,000 or 1,200 mg daily divided twice a day)

Arm title	ABT-450/r/ABT-267 and ABT-333, Plus Placebo RBV
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Arm description:

ABT-450/r/ABT-267 (150 mg/ 100 mg/ 25 mg once daily) and ABT-333 (250 mg twice daily) for 12 weeks plus placebo RBV (twice daily) for 12 weeks

Arm type	Experimental
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Investigational medicinal product name	ABT-450/r/ABT-267
Investigational medicinal product code	
Other name	ABT-267 also known as ombitasvir, ABT-450 also known as paritaprevir, Viekirax
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

ABT-450 (150 mg) coformulated with ritonavir (100 mg) and ABT-267 (25 mg)

Investigational medicinal product name	ABT-333
Investigational medicinal product code	
Other name	dasabuvir, Exviera
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

250 mg twice daily

Investigational medicinal product name	Placebo for Ribavirin
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Capsule
Routes of administration	Oral use

Dosage and administration details:

Twice daily

Number of subjects in period 1	ABT-450/r/ABT-267 and ABT-333, Plus RBV	ABT-450/r/ABT-267 and ABT-333, Plus Placebo RBV
Started	210	209
Completed	208	207
Not completed	2	2
Lost to follow-up	2	2

Baseline characteristics

Reporting groups

Reporting group title	ABT-450/r/ABT-267 and ABT-333, Plus RBV
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Reporting group description:

ABT-450/r/ABT-267 (150 mg/ 100 mg/ 25 mg once daily) and ABT-333 (250 mg twice daily), plus weight-based RBV (dosed 1,000 or 1,200 mg daily divided twice a day) for 12 weeks

Reporting group title	ABT-450/r/ABT-267 and ABT-333, Plus Placebo RBV
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Reporting group description:

ABT-450/r/ABT-267 (150 mg/ 100 mg/ 25 mg once daily) and ABT-333 (250 mg twice daily) for 12 weeks plus placebo RBV (twice daily) for 12 weeks

Reporting group values	ABT-450/r/ABT-267 and ABT-333, Plus RBV	ABT-450/r/ABT-267 and ABT-333, Plus Placebo RBV	Total
Number of subjects	210	209	419
Age categorical Units: Subjects			

Age continuous Units: years arithmetic mean standard deviation	48.4 ± 11.94	49.2 ± 12.03	-
Gender categorical Units: Subjects			
Female	104	123	227
Male	106	86	192

End points

End points reporting groups

Reporting group title	ABT-450/r/ABT-267 and ABT-333, Plus RBV
Reporting group description: ABT-450/r/ABT-267 (150 mg/ 100 mg/ 25 mg once daily) and ABT-333 (250 mg twice daily), plus weight-based RBV (dosed 1,000 or 1,200 mg daily divided twice a day) for 12 weeks	
Reporting group title	ABT-450/r/ABT-267 and ABT-333, Plus Placebo RBV
Reporting group description: ABT-450/r/ABT-267 (150 mg/ 100 mg/ 25 mg once daily) and ABT-333 (250 mg twice daily) for 12 weeks plus placebo RBV (twice daily) for 12 weeks	

Primary: Percentage of Subjects With Sustained Virologic Response 12 Weeks After Treatment; Noninferiority Analyses of Each Treatment Arm Compared to Historical Rate

End point title	Percentage of Subjects With Sustained Virologic Response 12 Weeks After Treatment; Noninferiority Analyses of Each Treatment Arm Compared to Historical Rate ^[1]
End point description: The percentage of subjects with sustained virologic response (plasma Hepatitis C virus ribonucleic acid [HCV RNA] level less than the lower limit of quantitation [$< \text{LLOQ}$]) 12 weeks after the last dose of study drug. The LLOQ for the assay was 25 IU/mL. Subjects with missing data were counted as non-responders. The primary endpoints were noninferiority of the percentage of subjects who achieved sustained virologic response 12 weeks after treatment in each treatment arm compared with the historical control rate for noncirrhotic, treatment-naïve subjects with HCV GT1b infection treated with telaprevir and peginterferon/RBV (pegIFN). Based on a 2-sided significance level of 0.05 and an underlying rate of $\geq 92\%$ in each arm, a sample size of 200 subjects per treatment arm provides $>95\%$ power to demonstrate noninferiority of each regimen to the historical rate (84%) (based on the normal approximation of a single binomial proportion in a one-sample test for superiority)	
End point type	Primary
End point timeframe: 12 weeks after last dose of study drug	

Notes:

[1] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: The lower confidence bound of the 2-sided 95% CI must exceed 73% to achieve noninferiority.

ABT-450/r/ABT-267 and ABT-333, Plus Placebo RBV: 95% CI calculated using the Wilson score method for the single proportion; ABT-450/r/ABT-267 and ABT-333, Plus RBV: 95% CI calculated using the normal approximation to the binomial distribution.

End point values	ABT-450/r/ABT-267 and ABT-333, Plus RBV	ABT-450/r/ABT-267 and ABT-333, Plus Placebo RBV		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	210 ^[2]	209 ^[3]		
Units: percentage of subjects				
number (confidence interval 95%)	99.5 (98.6 to 100)	100 (98.2 to 100)		

Notes:

[2] - All randomized subjects who received at least 1 dose of study drug (intent-to-treat [ITT])

[3] - All randomized subjects who received at least 1 dose of study drug (intent-to-treat [ITT])

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Subjects With Sustained Virologic Response 12 Weeks After Treatment; Noninferiority Analysis of ABT-450/r/ABT-267 and ABT-333, Plus Placebo RBV Compared With ABT-450/r/ABT-267 and ABT-333, Plus RBV

End point title	Percentage of Subjects With Sustained Virologic Response 12 Weeks After Treatment; Noninferiority Analysis of ABT-450/r/ABT-267 and ABT-333, Plus Placebo RBV Compared With ABT-450/r/ABT-267 and ABT-333, Plus RBV
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End point description:

The percentage of subjects with sustained virologic response (plasma Hepatitis C virus ribonucleic acid [HCV RNA] level less than the lower limit of quantitation [$< \text{LLOQ}$]) 12 weeks after the last dose of study drug. Subjects with missing data were counted as non-responders.

The secondary endpoint was the noninferiority of the percentage of subjects who achieved sustained virologic response 12 weeks after treatment who received ABT-450/r/ABT-267 and ABT-333, plus placebo RBV compared with those who received ABT-450/r/ABT-267 and ABT-333, plus RBV.

End point type	Secondary
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End point timeframe:

12 weeks after last dose of study drug

End point values	ABT-450/r/ABT-267 and ABT-333, Plus RBV	ABT-450/r/ABT-267 and ABT-333, Plus Placebo RBV		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	210 ^[4]	209 ^[5]		
Units: percentage of subjects				
number (not applicable)	99.5	100		

Notes:

[4] - ITT population

[5] - ITT population

Statistical analyses

Statistical analysis title	Statistical Analysis 1
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Statistical analysis description:

For the secondary efficacy endpoint of sustained virologic response at 12 weeks after treatment, based on a -10% margin, a 2-sided significance level of 0.05 and an underlying rate of 92% or higher in each arm, a sample size of 200 subjects per arm provides >95% power to demonstrate noninferiority of ABT-450/r/ABT-267 and ABT-333, plus Placebo RBV compared with ABT-450/r/ABT-267 and ABT-333, plus RBV (normal approximation of a single binomial proportion in a 1-sample test for superiority).

Comparison groups	ABT-450/r/ABT-267 and ABT-333, Plus Placebo RBV v ABT-450/r/ABT-267 and ABT-333, Plus RBV
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Number of subjects included in analysis	419
Analysis specification	Pre-specified
Analysis type	non-inferiority ^[6]
Parameter estimate	difference in percentage of subjects
Point estimate	0.5
Confidence interval	
level	95 %
sides	2-sided
lower limit	-0.5
upper limit	1.4

Notes:

[6] - Noninferiority of the rate of sustained virologic response at 12 weeks after treatment for the ABT-450/r/ABT-267 and ABT-333, plus placebo RBV treatment group as compared with the ABT-450/r/ABT-267 and ABT-333, plus RBV treatment group was analyzed using a noninferiority margin of -10.5%. The lower confidence bound of the 2-sided 95% CI for the difference in percentage of subjects with sustained virologic response at 12 weeks after treatment must exceed -10.5% to achieve noninferiority.

Secondary: Percentage of Subjects With Hemoglobin Decrease to Below the Lower Limit of Normal (LLN) At End of Treatment

End point title	Percentage of Subjects With Hemoglobin Decrease to Below the Lower Limit of Normal (LLN) At End of Treatment
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End point description:

The percentage of subjects with a decrease in hemoglobin from greater than or equal to the lower limit of normal (\geq LLN) at baseline to $<$ LLN at the end of treatment.

End point type	Secondary
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End point timeframe:

Baseline (Day 1) and Week 12 (End of Treatment)

End point values	ABT-450/r/ABT-267 and ABT-333, Plus RBV	ABT-450/r/ABT-267 and ABT-333, Plus Placebo RBV		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	207 ^[7]	205 ^[8]		
Units: percentage of subjects				
number (not applicable)	51.2	3.4		

Notes:

[7] - Subjects in ITT population who had hemoglobin \geq LLN reference range at baseline

[8] - Subjects in ITT population who had hemoglobin \geq LLN reference range at baseline

Statistical analyses

Statistical analysis title	Statistical Analysis 1
Comparison groups	ABT-450/r/ABT-267 and ABT-333, Plus RBV v ABT-450/r/ABT-267 and ABT-333, Plus Placebo RBV
Number of subjects included in analysis	412
Analysis specification	Pre-specified
Analysis type	other
P-value	< 0.001
Method	Fisher exact

Secondary: Percentage of Subjects With Sustained Virologic Response 12 Weeks After Treatment; Superiority Analyses of Each Treatment Arm Compared to Historical Rate

End point title	Percentage of Subjects With Sustained Virologic Response 12 Weeks After Treatment; Superiority Analyses of Each Treatment Arm Compared to Historical Rate
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End point description:

The percentage of subjects with sustained virologic response (plasma HCV RNA less than the lower limit of quantitation [$<LLOQ$]) 12 weeks after the last dose of study drug. Subjects with missing data were counted as non-responders.

The secondary endpoints were superiority of the percentage of subjects who achieved sustained virologic response 12 weeks after treatment in each treatment arm compared with the historical control rate for noncirrhotic, treatment-naïve subjects with HCV GT1b treated with telaprevir and pegIFN/RBV. 95% CI (plus RBV arm: calculated using the normal approximation to the binomial distribution; plus placebo RBV arm: calculated using the Wilson score method for the single proportion); the lower confidence bound for the percentage of subjects with sustained virologic response at 12 weeks after treatment must exceed 84% to achieve superiority.

End point type	Secondary
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End point timeframe:

12 weeks after last dose of study drug

End point values	ABT-450/r/ABT-267 and ABT-333, Plus RBV	ABT-450/r/ABT-267 and ABT-333, Plus Placebo RBV		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	210 ^[9]	209 ^[10]		
Units: percentage of subjects				
number (confidence interval 95%)	99.5 (98.6 to 100)	100 (98.2 to 100)		

Notes:

[9] - ITT population

[10] - ITT population

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Subjects With Virologic Failure During Treatment

End point title	Percentage of Subjects With Virologic Failure During Treatment
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End point description:

Virologic failure during treatment was defined as rebound (confirmed HCV RNA greater than or equal to the lower limit of quantitation [$\geq LLOQ$] after HCV RNA $< LLOQ$ during treatment, or confirmed increase from the lowest value post baseline in HCV RNA [2 consecutive HCV RNA measurements $> 1 \log_{10}$ IU/mL above the lowest value post baseline] at any time point during treatment), or failure to suppress (HCV RNA $\geq LLOQ$ persistently during treatment with at least 6 weeks [≥ 36 days] of treatment).

End point type	Secondary
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End point timeframe:

Baseline (Day 1), and Treatment Weeks 1, 2, 4, 6, 8, 10, and 12

End point values	ABT-450/r/ABT-267 and ABT-333, Plus RBV	ABT-450/r/ABT-267 and ABT-333, Plus Placebo RBV		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	210 ^[11]	209 ^[12]		
Units: percentage of subjects				
number (not applicable)				
Rebound	0.5	0		
Failure to suppress	0	0		

Notes:

[11] - ITT population

[12] - ITT population

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Subjects With Virologic Relapse After Treatment

End point title	Percentage of Subjects With Virologic Relapse After Treatment
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End point description:

Subjects who completed treatment with plasma HCV RNA less than the lower limit of quantification (<LLOQ) at the end of treatment were considered to have virologic relapse if they had confirmed HCV RNA \geq LLOQ during the post-treatment period.

End point type	Secondary
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End point timeframe:

Between End of Treatment (Week 12) and Post-treatment (up to Week 12 Post-treatment)

End point values	ABT-450/r/ABT-267 and ABT-333, Plus RBV	ABT-450/r/ABT-267 and ABT-333, Plus Placebo RBV		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	208 ^[13]	207 ^[14]		
Units: percentage of subjects				
number (not applicable)	0	0		

Notes:

[13] - ITT population with HCV RNA < LLOQ at the final treatment visit and completed treatment

[14] - ITT population with HCV RNA < LLOQ at the final treatment visit and completed treatment

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

AEs were collected from the time of study drug administration to 30 days after last dose of study drug (16 weeks); SAEs were also collected from the time that informed consent was obtained until the end of participation in the study (up to 65 weeks)

Assessment type	Systematic
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Dictionary used

Dictionary name	MedDRA
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Dictionary version	16.0
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Reporting groups

Reporting group title	ABT-450/r/ABT-267 and ABT-333, Plus RBV
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Reporting group description:

ABT-450/r/ABT-267 (150 mg/ 100 mg/ 25 mg once daily) and ABT-333 (250 mg twice daily), plus weight-based RBV (dosed 1,000 or 1,200 mg daily divided twice a day) for 12 weeks

Reporting group title	ABT-450/r/ABT-267 and ABT-333, Plus Placebo RBV
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Reporting group description:

ABT-450/r/ABT-267 (150 mg/ 100 mg/ 25 mg once daily) and ABT-333 (250 mg twice daily) for 12 weeks plus placebo RBV (twice daily) for 12 weeks

Serious adverse events	ABT-450/r/ABT-267 and ABT-333, Plus RBV	ABT-450/r/ABT-267 and ABT-333, Plus Placebo RBV	
Total subjects affected by serious adverse events			
subjects affected / exposed	4 / 210 (1.90%)	4 / 209 (1.91%)	
number of deaths (all causes)	0	0	
number of deaths resulting from adverse events			
Neoplasms benign, malignant and unspecified (incl cysts and polyps)			
Intraductal proliferative breast lesion			
subjects affected / exposed	0 / 210 (0.00%)	1 / 209 (0.48%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Cardiac disorders			
Atrial fibrillation			
subjects affected / exposed	1 / 210 (0.48%)	0 / 209 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Coronary artery disease			

subjects affected / exposed	1 / 210 (0.48%)	0 / 209 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Reproductive system and breast disorders			
Epididymitis			
subjects affected / exposed	1 / 210 (0.48%)	0 / 209 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Uterine polyp			
subjects affected / exposed	0 / 210 (0.00%)	1 / 209 (0.48%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Renal and urinary disorders			
Nephrolithiasis			
subjects affected / exposed	1 / 210 (0.48%)	0 / 209 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Musculoskeletal and connective tissue disorders			
Arthritis			
subjects affected / exposed	0 / 210 (0.00%)	1 / 209 (0.48%)	
occurrences causally related to treatment / all	0 / 0	1 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Myalgia			
subjects affected / exposed	0 / 210 (0.00%)	1 / 209 (0.48%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	

Frequency threshold for reporting non-serious adverse events: 5 %

Non-serious adverse events	ABT-450/r/ABT-267 and ABT-333, Plus RBV	ABT-450/r/ABT-267 and ABT-333, Plus Placebo RBV	
Total subjects affected by non-serious adverse events			
subjects affected / exposed	133 / 210 (63.33%)	97 / 209 (46.41%)	

Nervous system disorders Headache subjects affected / exposed occurrences (all)	51 / 210 (24.29%) 61	49 / 209 (23.44%) 58	
Blood and lymphatic system disorders Anaemia subjects affected / exposed occurrences (all)	14 / 210 (6.67%) 15	1 / 209 (0.48%) 1	
General disorders and administration site conditions Asthenia subjects affected / exposed occurrences (all) Fatigue subjects affected / exposed occurrences (all)	22 / 210 (10.48%) 26 45 / 210 (21.43%) 48	12 / 209 (5.74%) 13 49 / 209 (23.44%) 52	
Gastrointestinal disorders Abdominal pain upper subjects affected / exposed occurrences (all) Diarrhoea subjects affected / exposed occurrences (all) Dyspepsia subjects affected / exposed occurrences (all) Nausea subjects affected / exposed occurrences (all)	11 / 210 (5.24%) 12 9 / 210 (4.29%) 9 14 / 210 (6.67%) 14 23 / 210 (10.95%) 23	6 / 209 (2.87%) 7 13 / 209 (6.22%) 15 9 / 209 (4.31%) 9 9 / 209 (4.31%) 11	
Respiratory, thoracic and mediastinal disorders Cough subjects affected / exposed occurrences (all)	19 / 210 (9.05%) 19	5 / 209 (2.39%) 5	
Skin and subcutaneous tissue disorders Pruritus subjects affected / exposed occurrences (all) Rash	25 / 210 (11.90%) 28	11 / 209 (5.26%) 14	

subjects affected / exposed occurrences (all)	12 / 210 (5.71%) 12	8 / 209 (3.83%) 11	
Psychiatric disorders Insomnia subjects affected / exposed occurrences (all)	19 / 210 (9.05%) 21	7 / 209 (3.35%) 7	

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

Date	Amendment
12 November 2012	<p>The purpose of the amendment is to</p> <ul style="list-style-type: none">• update the introduction to provide more current data from ongoing clinical trials.• update the thresholds for the primary and secondary endpoints to be based on historical sustained virologic response (SVR) rates from telaprevir plus pegIFN and RBV therapy.• update primary and secondary endpoints to remove rapid virologic response (RVR) and end of treatment response (EOTR), which are irrelevant in the absence of SVR, and to include rebound and relapse rates, which are relevant in clinical practice when using direct-acting antiviral agent (DAAs).• clarify inclusion/exclusion criteria to ensure the appropriate subject population was enrolled.• update plan for resistance analysis throughout the protocol to clarify and more accurately reflect plans for assessing resistance development.• update RBV toxicity management to align better with the RBV label.• address inconsistencies throughout the protocol.
08 April 2013	<p>The purpose of the amendment is to prohibit the use of hormonal contraceptives during study drug administration.</p>

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported