



Clinical trial results:

A phase 3 randomised, partially double-blind and placebo-controlled study of BI 207127 in combination with faldaprevir and ribavirin in treatment naïve patients with chronic genotype 1 HCV infection.

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 | 2012-003533-41 |
| Trial protocol | DE PT GB ES IE IT NL HU AT |
| Global end of trial date | 22 January 2015 |

Results information

| | |
|--------------------------------|--------------|
| Result version number | v1 (current) |
| This version publication date | 05 May 2016 |
| First version publication date | 05 May 2016 |

Trial information

Trial identification

| | |
|-----------------------|---------|
| Sponsor protocol code | 1241.20 |
|-----------------------|---------|

Additional study identifiers

| | |
|------------------------------------|-------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT01732796 |
| WHO universal trial number (UTN) | - |

Notes:

Sponsors

| | |
|------------------------------|--|
| Sponsor organisation name | Boehringer Ingelheim |
| Sponsor organisation address | Binger Strasse 173, Ingelheim am Rhein, Germany, 55216 |
| Public contact | QRPE Processes and Systems Coordination Clinical Trial Information Disclosure, Boehringer Ingelheim, 001 8002430127, clintriage.rdg@boehringer-ingelheim.com |
| Scientific contact | QRPE Processes and Systems Coordination Clinical Trial Information Disclosure, Boehringer Ingelheim, 001 8002430127, clintriage.rdg@boehringer-ingelheim.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 | 03 March 2015 |
| Is this the analysis of the primary completion data? | Yes |
| Primary completion date | 21 February 2014 |
| Global end of trial reached? | Yes |
| Global end of trial date | 22 January 2015 |
| Was the trial ended prematurely? | Yes |

Notes:

General information about the trial

Main objective of the trial:

The aim of the study was to confirm efficacy and safety of treatment with 600 milligram (mg) of BID (twice daily) Deleobuvir (DBV) in combination with 120 mg QD (once daily) Faldaprevir (FDV) and Ribavirin (RBV) for 16 or 24 weeks in chronically infected hepatitis C virus (HCV) genotype (GT)1b treatment-naïve patients, including a separate group of patients with compensated cirrhosis who were treated open-label for 24 weeks.

The primary objective was to determine if minimum historical target sustained virologic response at week 12 (SVR12) rates of 71% could be achieved by the combination treatments of DBV, FDV and RBV in GT1b patients, including patients with compensated cirrhosis. The comparison with historical control was framed as a statistical superiority test.

Protection of trial subjects:

Only subjects that met all the study inclusion and none of the exclusion criteria were to be entered in the study. All subjects were free to withdraw from the clinical trial at any time for any reason given. Close monitoring of all subjects was adhered to throughout the trial conduct. Rescue medication was allowed for all patients as required.

Background therapy: -

Evidence for comparator: -

| | |
|---|------------------|
| Actual start date of recruitment | 13 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 | Austria: 1 |
| Country: Number of subjects enrolled | Canada: 65 |
| Country: Number of subjects enrolled | France: 68 |
| Country: Number of subjects enrolled | Germany: 109 |
| Country: Number of subjects enrolled | Hungary: 15 |
| Country: Number of subjects enrolled | Ireland: 13 |
| Country: Number of subjects enrolled | Italy: 104 |
| Country: Number of subjects enrolled | Netherlands: 20 |
| Country: Number of subjects enrolled | Portugal: 20 |
| Country: Number of subjects enrolled | Romania: 38 |
| Country: Number of subjects enrolled | Russian Federation: 8 |
| Country: Number of subjects enrolled | Spain: 84 |
| Country: Number of subjects enrolled | United Kingdom: 21 |
| Country: Number of subjects enrolled | United States: 125 |

| | |
|------------------------------------|-----|
| Worldwide total number of subjects | 691 |
| EEA total number of subjects | 493 |

Notes:

| Subjects enrolled per age group | |
|---|-----|
| In utero | 0 |
| Preterm newborn - gestational age < 37 wk | 0 |
| 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) | 607 |
| From 65 to 84 years | 84 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details:

It was planned that approximately 800 patients would be screened in order to randomize and treat approximately 460 patients (195 in treatment Groups 1 and 2 each, 40-70 in group 3). Treatment-naïve patients with chronic hepatitis C infection of GT1b were included in the trial. Patients with compensated liver cirrhosis were assigned to Group 3.

Pre-assignment

Screening details:

All subjects were screened for eligibility to participate in the trial. Subjects attended specialist sites which would then ensure that the subject met all strictly implemented inclusion/exclusion criteria. Subjects were not to be randomised to trial treatment if any one of the specific entry criteria were violated.

Period 1

| | |
|------------------------------|---|
| Period 1 title | Treatment period (overall period) |
| Is this the baseline period? | Yes |
| Allocation method | Randomised - controlled |
| Blinding used | Double blind |
| Roles blinded | Subject, Investigator, Monitor, Data analyst, Carer, Assessor |

Arms

| | |
|------------------------------|----------------------|
| Are arms mutually exclusive? | Yes |
| Arm title | 16 wk NC FDV+DBV+RBV |

Arm description:

600 milligram (mg) of Deleobuvir (DBV) twice daily (BID) combined with 240 mg on the first day followed by 120mg of Faldaprevir (FDV) once daily (QD) and 1000-1200mg Ribavirin BID (RBV) for 16 weeks (wk) followed by DBV placebo, FDV placebo and RBV placebo for 8 weeks. All were administered per os (orally). This group included non-cirrhotic patients (NC).

| | |
|--|---------------|
| Arm type | Experimental |
| Investigational medicinal product name | Faldaprevir |
| Investigational medicinal product code | BI 201335 |
| Other name | |
| Pharmaceutical forms | Capsule, soft |
| Routes of administration | Oral use |

Dosage and administration details:

starting dose of 240 milligram (mg) Faldaprevir (FDV), thereafter 120mg FDV once daily for 16 weeks followed by 8 weeks FDV placebo

| | |
|--|------------|
| Investigational medicinal product name | Deleobuvir |
| Investigational medicinal product code | BI 207127 |
| Other name | |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

total daily dose of 1200mg Deleobuvir (DBV), administered twice daily (BID) 600mg for 16 weeks followed by 8 weeks of DBV placebo

| | |
|--|-------------|
| Investigational medicinal product name | Ribavirin |
| Investigational medicinal product code | Copegus (R) |
| Other name | |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

total daily dose of 1000-1200mg Ribavirin (RBV), administered BID 500-600mg for 16 weeks followed

by 8 weeks RBV placebo

| | |
|--|---------------|
| Investigational medicinal product name | Placebo FDV |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Capsule, soft |
| Routes of administration | Oral use |

Dosage and administration details:

Placebo FDV once daily for 8 weeks after 16 weeks FDV treatment

| | |
|--|-------------|
| Investigational medicinal product name | Placebo DBV |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

BID for 8 weeks after 16 weeks DBV treatment

| | |
|--|-------------|
| Investigational medicinal product name | Placebo RBV |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

BID for 8 weeks after 16 weeks RBV treatment

| | |
|------------------|----------------------|
| Arm title | 24 wk NC FDV+DBV+RBV |
|------------------|----------------------|

Arm description:

600 milligram (mg) of Deleobuvir (DBV) twice daily (BID) combined with 240 mg on the first day followed by 120mg of Faldaprevir (FDV) once daily (QD) and 1000-1200mg Ribavirin (RBV) BID for 24 weeks (wk). All were administered per os (orally). This group included non-cirrhotic patients (NC).

| | |
|--|---------------|
| Arm type | Experimental |
| Investigational medicinal product name | Faldaprevir |
| Investigational medicinal product code | BI 201335 |
| Other name | |
| Pharmaceutical forms | Capsule, soft |
| Routes of administration | Oral use |

Dosage and administration details:

starting dose of 240 milligram (mg) Faldaprevir (FDV), thereafter 120mg FDV once daily for 16 weeks followed by 8 weeks FDV placebo

| | |
|--|------------|
| Investigational medicinal product name | Deleobuvir |
| Investigational medicinal product code | BI 207127 |
| Other name | |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

total daily dose of 1200mg Deleobuvir (DBV), administered twice daily (BID) 600mg for 16 weeks followed by 8 weeks of DBV placebo

| | |
|--|-------------|
| Investigational medicinal product name | Ribavirin |
| Investigational medicinal product code | Copegus (R) |
| Other name | |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

total daily dose of 1000-1200mg Ribavirin (RBV), administered BID 500-600mg for 16 weeks followed by 8 weeks RBV placebo

| | |
|------------------|----------------------|
| Arm title | 24 wk CR FDV+DBV+RBV |
|------------------|----------------------|

Arm description:

600 milligram (mg) of Deleobuvir (DBV) twice daily (BID) combined with 240 mg on the first day followed by 120mg of Faldaprevir (FDV) once daily (QD) and 1000-1200mg Ribavirin (RBV) BID for 24 weeks (wk). All were administered per os (orally). This group comprised patients with compensated cirrhosis (CR) who received open label treatment.

| | |
|--|---------------|
| Arm type | Experimental |
| Investigational medicinal product name | Faldaprevir |
| Investigational medicinal product code | BI 201335 |
| Other name | |
| Pharmaceutical forms | Capsule, soft |
| Routes of administration | Oral use |

Dosage and administration details:

starting dose of 240 milligram (mg) Faldaprevir (FDV), thereafter 120mg FDV once daily for 16 weeks followed by 8 weeks FDV placebo

| | |
|--|------------|
| Investigational medicinal product name | Deleobuvir |
| Investigational medicinal product code | BI 207127 |
| Other name | |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

total daily dose of 1200mg Deleobuvir (DBV), administered twice daily (BID) 600mg for 16 weeks followed by 8 weeks of DBV placebo

| | |
|--|-------------|
| Investigational medicinal product name | Ribavirin |
| Investigational medicinal product code | Copegus (R) |
| Other name | |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |

Dosage and administration details:

total daily dose of 1000-1200mg Ribavirin (RBV), administered BID 500-600mg for 16 weeks followed by 8 weeks RBV placebo

| Number of subjects in period 1^[1] | 16 wk NC FDV+DBV+RBV | 24 wk NC FDV+DBV+RBV | 24 wk CR FDV+DBV+RBV |
|---|-------------------------|-------------------------|-------------------------|
| Started | 208 | 211 | 51 |
| Completed | 162 | 169 | 38 |
| Not completed | 46 | 42 | 13 |
| Consent withdrawn by subject | 6 | 8 | 2 |
| Adverse event, non-fatal | 16 | 16 | 4 |
| other reason, not defined above | 1 | - | 2 |
| Lost to follow-up | 2 | - | - |
| Lack of efficacy | 21 | 18 | 5 |

Notes:

[1] - The number of subjects reported to be in the baseline period are not the same as the worldwide number enrolled in the trial. It is expected that these numbers will be the same.

Justification: Baseline characteristics are based on patients who were randomised after successfully completing the screening period and received at least one of the trial medication.

Baseline characteristics

Reporting groups

| | |
|---|----------------------|
| Reporting group title | 16 wk NC FDV+DBV+RBV |
| Reporting group description: 600 milligram (mg) of Deleobuvir (DBV) twice daily (BID) combined with 240 mg on the first day followed by 120mg of Faldaprevir (FDV) once daily (QD) and 1000-1200mg Ribavirin BID (RBV) for 16 weeks (wk) followed by DBV placebo, FDV placebo and RBV placebo for 8 weeks. All were administered per os (orally). This group included non-cirrhotic patients (NC). | |
| Reporting group title | 24 wk NC FDV+DBV+RBV |
| Reporting group description: 600 milligram (mg) of Deleobuvir (DBV) twice daily (BID) combined with 240 mg on the first day followed by 120mg of Faldaprevir (FDV) once daily (QD) and 1000-1200mg Ribavirin (RBV) BID for 24 weeks (wk). All were administered per os (orally). This group included non-cirrhotic patients (NC). | |
| Reporting group title | 24 wk CR FDV+DBV+RBV |
| Reporting group description: 600 milligram (mg) of Deleobuvir (DBV) twice daily (BID) combined with 240 mg on the first day followed by 120mg of Faldaprevir (FDV) once daily (QD) and 1000-1200mg Ribavirin (RBV) BID for 24 weeks (wk). All were administered per os (orally). This group comprised patients with compensated cirrhosis (CR) who received open label treatment. | |

| Reporting group values | 16 wk NC FDV+DBV+RBV | 24 wk NC FDV+DBV+RBV | 24 wk CR FDV+DBV+RBV |
|--|-------------------------|-------------------------|-------------------------|
| Number of subjects | 208 | 211 | 51 |
| Age categorical | | | |
| The baseline characteristics were carried out on an intent-to-treat basis including all randomized patients who were dispensed study medication and were documented to have taken at least one dose of study medication (FAS). | | | |
| Units: Subjects | | | |

| | | | |
|---|----------------|----------------|---------------|
| Age Continuous Units: years arithmetic mean standard deviation | 50.1 ± 12.7 | 51.1 ± 12.9 | 57.9 ± 8.8 |
| Gender, Male/Female | | | |
| FAS | | | |
| Units: Participants | | | |
| Female | 122 | 114 | 18 |
| Male | 86 | 97 | 33 |

| Reporting group values | Total | | |
|--|-------|--|--|
| Number of subjects | 470 | | |
| Age categorical | | | |
| The baseline characteristics were carried out on an intent-to-treat basis including all randomized patients who were dispensed study medication and were documented to have taken at least one dose of study medication (FAS). | | | |
| Units: Subjects | | | |

| | | | |
|---|---|--|--|
| Age Continuous Units: years arithmetic mean standard deviation | - | | |
|---|---|--|--|

| | | | |
|---------------------|-----|--|--|
| Gender, Male/Female | | | |
| FAS | | | |
| Units: Participants | | | |
| Female | 254 | | |
| Male | 216 | | |

End points

End points reporting groups

| | |
|---|----------------------|
| Reporting group title | 16 wk NC FDV+DBV+RBV |
| Reporting group description: 600 milligram (mg) of Deleobuvir (DBV) twice daily (BID) combined with 240 mg on the first day followed by 120mg of Faldaprevir (FDV) once daily (QD) and 1000-1200mg Ribavirin BID (RBV) for 16 weeks (wk) followed by DBV placebo, FDV placebo and RBV placebo for 8 weeks. All were administered per os (orally). This group included non-cirrhotic patients (NC). | |
| Reporting group title | 24 wk NC FDV+DBV+RBV |
| Reporting group description: 600 milligram (mg) of Deleobuvir (DBV) twice daily (BID) combined with 240 mg on the first day followed by 120mg of Faldaprevir (FDV) once daily (QD) and 1000-1200mg Ribavirin (RBV) BID for 24 weeks (wk). All were administered per os (orally). This group included non-cirrhotic patients (NC). | |
| Reporting group title | 24 wk CR FDV+DBV+RBV |
| Reporting group description: 600 milligram (mg) of Deleobuvir (DBV) twice daily (BID) combined with 240 mg on the first day followed by 120mg of Faldaprevir (FDV) once daily (QD) and 1000-1200mg Ribavirin (RBV) BID for 24 weeks (wk). All were administered per os (orally). This group comprised patients with compensated cirrhosis (CR) who received open label treatment. | |
| Subject analysis set title | 24 wk FDV+DBV+RBV |
| Subject analysis set type | Full analysis |
| Subject analysis set description: 600 mg DBV (BID) + 120mg FDV (QD) + 1000-1200mg RBV (BID) for 24wk (orally) in cirrhotic and non-cirrhotic patients. | |
| Subject analysis set title | 16 wk FDV+DBV+RBV |
| Subject analysis set type | Full analysis |
| Subject analysis set description: 600 mg DBV (BID) + 120mg FDV (QD) + 1000-1200mg RBV (BID), orally. This is the combination of non-cirrhotic patients in the 16 week treatment group and cirrhosis patients in the 24-week treatment group. | |

Primary: SVR12 rates with historical control

| | |
|--|--|
| End point title | SVR12 rates with historical control ^[1] |
| End point description: Sustained Virologic Response at Week 12 post-treatment (SVR12): Plasma Hepatitis C Virus ribonucleic acid (HCV RNA) level <25 international units/millilitre (IU/mL) at 12 weeks after End of Treatment (EoT). SVR12, was assessed based on the observed HCV RNA result taken at least 10 weeks after treatment discontinuation. This definition was also applied to patients who discontinued treatment early: if the patient had HCV RNA undetected at least 10 weeks after stopping all treatment, they were considered a responder in the primary analysis. This is the primary analyses of the primary endpoint. The primary analyses of efficacy were carried out on an intent-to-treat basis including all randomized patients who were dispensed study medication and were documented to have taken at least one dose of study medication (FAS). | |
| End point type | Primary |
| End point timeframe: 12 Week (post-treatment) | |

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: This Primary outcome measure reporting statistical analysis for one group are defined and analysed for trial 1241.20, however due to the platform limitations those could not be provided. Results can be found on CT.gov study number: NCT01732796.

| End point values | 24 wk FDV+DBV+RBV | 16 wk FDV+DBV+RBV | | |
|-----------------------------------|----------------------|----------------------|--|--|
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 262 ^[2] | 259 ^[3] | | |
| Units: Percentage of participants | | | | |
| number (not applicable) | | | | |
| non-cirrhotic | 82.5 | 71.6 | | |
| cirrhotic | 72.5 | 72.5 | | |

Notes:

[2] - FAS

[3] - FAS

Statistical analyses

No statistical analyses for this end point

Primary: Comparisons of SVR12 rates across treatment arms

| | |
|-----------------|--|
| End point title | Comparisons of SVR12 rates across treatment arms |
|-----------------|--|

End point description:

Sustained Virologic Response rates across treatment arms at Week 12 post-treatment (SVR12). This is the secondary analyses of the primary endpoint.

| | |
|----------------|---------|
| End point type | Primary |
|----------------|---------|

End point timeframe:

12 Week (post-treatment)

| End point values | 16 wk NC FDV+DBV+RBV | 24 wk NC FDV+DBV+RBV | 24 wk CR FDV+DBV+RBV | |
|-----------------------------------|-------------------------|-------------------------|-------------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 208 ^[4] | 211 ^[5] | 51 ^[6] | |
| Units: Percentage of participants | | | | |
| number (not applicable) | 71.6 | 82.5 | 72.5 | |

Notes:

[4] - FAS

[5] - FAS

[6] - FAS

Statistical analyses

| | |
|----------------------------|---|
| Statistical analysis title | 16 wk NC FDV+DBV+RBV vs. 24 wk NC FDV+DBV+RBV |
|----------------------------|---|

Statistical analysis description:

Koch's stratum-adjusted Mantel Haenszel methods were used to compare durations, adjusting for stratification factors.

| | |
|---|---|
| Comparison groups | 16 wk NC FDV+DBV+RBV v 24 wk NC FDV+DBV+RBV |
| Number of subjects included in analysis | 419 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.004 ^[7] |
| Method | z-test |
| Parameter estimate | Koch's method with continuity correction |
| Point estimate | 10.8 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 2.8 |
| upper limit | 18.8 |

Notes:

[7] - based on two sample z-test with continuity correction for variance.

Secondary: SVR4

| | |
|-----------------|------|
| End point title | SVR4 |
|-----------------|------|

End point description:

Sustained Virologic Response rates across treatment arms at Week 4 post-treatment (SVR4).
The prognostic value of SVR12 predicting SVR4 are the patients with an SVR4 (=YES) and the SVR12 was assessed.

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

4 Week (post-treatment)

| End point values | 16 wk NC FDV+DBV+RBV | 24 wk NC FDV+DBV+RBV | 24 wk CR FDV+DBV+RBV | |
|--------------------------------------|-------------------------|-------------------------|-------------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 208 ^[8] | 211 ^[9] | 51 ^[10] | |
| Units: Percentage of participants | | | | |
| number (not applicable) | | | | |
| Percentage of patients with response | 78.4 | 84.4 | 76.5 | |
| Positive predictive Value | 94 | 98 | 95 | |

Notes:

[8] - FAS

[9] - FAS

[10] - FAS

Statistical analyses

| | |
|----------------------------|---|
| Statistical analysis title | 16 wk NC FDV+DBV+RBV vs. 24 wk NC FDV+DBV+RBV |
|----------------------------|---|

Statistical analysis description:

Koch's stratum-adjusted Mantel Haenszel methods were used to compare durations, adjusting for stratification factors.

Category: Percentage of patient with response

| | |
|---|---|
| Comparison groups | 16 wk NC FDV+DBV+RBV v 24 wk NC FDV+DBV+RBV |
| Number of subjects included in analysis | 419 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority |
| P-value | = 0.0575 ^[11] |
| Method | z-test |
| Parameter estimate | Koch's method with continuity correction |
| Point estimate | 6 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -1.5 |
| upper limit | 13.5 |

Notes:

[11] - based on two sample z-test with continuity correction for variance.

Secondary: SVR24

| | |
|-----------------|-------|
| End point title | SVR24 |
|-----------------|-------|

End point description:

Sustained Virologic Response rates across treatment arms at Week 24 post-treatment (SVR24). The prognostic value of SVR12 predicting SVR24 are the patients with an SVR12 (=YES) and the SVR24 was assessed.

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

24 Week (post-treatment)

| End point values | 16 wk NC FDV+DBV+RBV | 24 wk NC FDV+DBV+RBV | 24 wk CR FDV+DBV+RBV | |
|--------------------------------------|-------------------------|-------------------------|-------------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 208 ^[12] | 211 ^[13] | 51 ^[14] | |
| Units: Percentage of participants | | | | |
| number (not applicable) | | | | |
| Percentage of patients with response | 70.7 | 80.6 | 72.5 | |
| Positive predicted value | 97 | 99 | 100 | |

Notes:

[12] - FAS

[13] - FAS

[14] - FAS

Statistical analyses

| | |
|----------------------------|---|
| Statistical analysis title | 16 wk NC FDV+DBV+RBV vs. 24 wk NC FDV+DBV+RBV |
|----------------------------|---|

Statistical analysis description:

Koch's stratum-adjusted Mantel Haenszel methods were used to compare durations, adjusting for stratification factors.

| | |
|---|---|
| Comparison groups | 16 wk NC FDV+DBV+RBV v 24 wk NC FDV+DBV+RBV |
| Number of subjects included in analysis | 419 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority |
| P-value | = 0.0089 ^[15] |
| Method | z-test |
| Parameter estimate | Koch's method with continuity correction |
| Point estimate | 9.9 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 1.7 |
| upper limit | 18.1 |

Notes:

[15] - based on two sample z-test with continuity correction for variance.

Adverse events

Adverse events information

Timeframe for reporting adverse events:

From first administration of study medication to 4 weeks after last intake (up to 200 days). Adverse events with an onset date thereafter were to be reported only if serious up to 24 or 48 weeks after last study treatment (up to 340 or 508 days).

Adverse event reporting additional description:

Safety analyses were based on the safety set that included all patients who were dispensed study medication and were documented to have taken at least 1 dose of investigational treatment, regardless of randomization.

| | |
|-----------------|------------|
| Assessment type | Systematic |
|-----------------|------------|

Dictionary used

| | |
|-----------------|--------|
| Dictionary name | MedDRA |
|-----------------|--------|

| | |
|--------------------|------|
| Dictionary version | 17.1 |
|--------------------|------|

Reporting groups

| | |
|-----------------------|----------------------|
| Reporting group title | 16 wk NC FDV+DBV+RBV |
|-----------------------|----------------------|

Reporting group description:

600 mg DBV (BID) + 120mg FDV (QD) + 1000-1200mg RBV (BID) for 16wk followed by DBV placebo, FDV placebo and RBV placebo for 8wk. All were administered per os (orally). This group included non-cirrhotic patients (NC).

| | |
|-----------------------|----------------------|
| Reporting group title | 24 wk NC FDV+DBV+RBV |
|-----------------------|----------------------|

Reporting group description:

600 mg DBV (BID) + 120mg FDV (QD) + 1000-1200mg RBV (BID) for 24wk. All were administered per os (orally). This group included non-cirrhotic patients (NC).

| | |
|-----------------------|----------------------|
| Reporting group title | 24 wk CR FDV+DBV+RBV |
|-----------------------|----------------------|

Reporting group description:

600 mg DBV (BID) + 120mg FDV (QD) + 1000-1200mg RBV (BID) for 24wk. All were administered per os (orally). This group comprised patients with compensated cirrhosis (CR) who received open label treatment.

| Serious adverse events | 16 wk NC FDV+DBV+RBV | 24 wk NC FDV+DBV+RBV | 24 wk CR FDV+DBV+RBV |
|---|-------------------------|-------------------------|-------------------------|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 7 / 208 (3.37%) | 11 / 211 (5.21%) | 4 / 51 (7.84%) |
| number of deaths (all causes) | 1 | 0 | 0 |
| number of deaths resulting from adverse events | 0 | 0 | 0 |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Non-Hodgkin's lymphoma | | | |
| subjects affected / exposed | 1 / 208 (0.48%) | 0 / 211 (0.00%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pancreatic carcinoma | | | |

| | | | |
|--|-----------------|-----------------|----------------|
| subjects affected / exposed | 1 / 208 (0.48%) | 0 / 211 (0.00%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Vascular disorders | | | |
| Haematoma | | | |
| subjects affected / exposed | 0 / 208 (0.00%) | 1 / 211 (0.47%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Thrombosis | | | |
| subjects affected / exposed | 0 / 208 (0.00%) | 1 / 211 (0.47%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| General disorders and administration site conditions | | | |
| Fatigue | | | |
| subjects affected / exposed | 1 / 208 (0.48%) | 0 / 211 (0.00%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pyrexia | | | |
| subjects affected / exposed | 0 / 208 (0.00%) | 1 / 211 (0.47%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Psychiatric disorders | | | |
| Depression | | | |
| subjects affected / exposed | 0 / 208 (0.00%) | 1 / 211 (0.47%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Drug abuse | | | |
| subjects affected / exposed | 0 / 208 (0.00%) | 1 / 211 (0.47%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Psychotic disorder | | | |
| subjects affected / exposed | 0 / 208 (0.00%) | 1 / 211 (0.47%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|----------------|
| Injury, poisoning and procedural complications | | | |
| Dumping syndrome | | | |
| subjects affected / exposed | 0 / 208 (0.00%) | 1 / 211 (0.47%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Fall | | | |
| subjects affected / exposed | 1 / 208 (0.48%) | 1 / 211 (0.47%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| Multiple injuries | | | |
| subjects affected / exposed | 1 / 208 (0.48%) | 0 / 211 (0.00%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| Cardiac disorders | | | |
| Pericarditis | | | |
| subjects affected / exposed | 1 / 208 (0.48%) | 0 / 211 (0.00%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Nervous system disorders | | | |
| Dizziness | | | |
| subjects affected / exposed | 1 / 208 (0.48%) | 0 / 211 (0.00%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Loss of consciousness | | | |
| subjects affected / exposed | 1 / 208 (0.48%) | 0 / 211 (0.00%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Syncope | | | |
| subjects affected / exposed | 0 / 208 (0.00%) | 1 / 211 (0.47%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Blood and lymphatic system disorders | | | |
| Agranulocytosis | | | |

| | | | |
|---|-----------------|-----------------|----------------|
| subjects affected / exposed | 1 / 208 (0.48%) | 1 / 211 (0.47%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 1 / 1 | 1 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Anaemia | | | |
| subjects affected / exposed | 1 / 208 (0.48%) | 2 / 211 (0.95%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 2 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Febrile neutropenia | | | |
| subjects affected / exposed | 0 / 208 (0.00%) | 1 / 211 (0.47%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gastrointestinal disorders | | | |
| Diarrhoea | | | |
| subjects affected / exposed | 0 / 208 (0.00%) | 0 / 211 (0.00%) | 1 / 51 (1.96%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Duodenal ulcer | | | |
| subjects affected / exposed | 0 / 208 (0.00%) | 1 / 211 (0.47%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gastrointestinal haemorrhage | | | |
| subjects affected / exposed | 0 / 208 (0.00%) | 0 / 211 (0.00%) | 1 / 51 (1.96%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 1 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gastrooesophageal reflux disease | | | |
| subjects affected / exposed | 0 / 208 (0.00%) | 1 / 211 (0.47%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Hepatobiliary disorders | | | |
| Cholelithiasis | | | |
| subjects affected / exposed | 0 / 208 (0.00%) | 0 / 211 (0.00%) | 1 / 51 (1.96%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Hyperbilirubinaemia | | | |

| | | | |
|---|-----------------|-----------------|----------------|
| subjects affected / exposed | 0 / 208 (0.00%) | 0 / 211 (0.00%) | 1 / 51 (1.96%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 1 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Renal and urinary disorders | | | |
| Prerenal failure | | | |
| subjects affected / exposed | 0 / 208 (0.00%) | 0 / 211 (0.00%) | 1 / 51 (1.96%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 1 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Renal failure acute | | | |
| subjects affected / exposed | 0 / 208 (0.00%) | 1 / 211 (0.47%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Urethral stenosis | | | |
| subjects affected / exposed | 0 / 208 (0.00%) | 0 / 211 (0.00%) | 1 / 51 (1.96%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Musculoskeletal and connective tissue disorders | | | |
| Arthritis | | | |
| subjects affected / exposed | 0 / 208 (0.00%) | 1 / 211 (0.47%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Infections and infestations | | | |
| Escherichia urinary tract infection | | | |
| subjects affected / exposed | 0 / 208 (0.00%) | 1 / 211 (0.47%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gastritis bacterial | | | |
| subjects affected / exposed | 0 / 208 (0.00%) | 1 / 211 (0.47%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gingivitis | | | |
| subjects affected / exposed | 0 / 208 (0.00%) | 1 / 211 (0.47%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|----------------|
| Metabolism and nutrition disorders | | | |
| Decreased appetite | | | |
| subjects affected / exposed | 1 / 208 (0.48%) | 0 / 211 (0.00%) | 0 / 51 (0.00%) |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

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

| Non-serious adverse events | 16 wk NC FDV+DBV+RBV | 24 wk NC FDV+DBV+RBV | 24 wk CR FDV+DBV+RBV |
|---|-------------------------|-------------------------|-------------------------|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 192 / 208 (92.31%) | 198 / 211 (93.84%) | 49 / 51 (96.08%) |
| General disorders and administration site conditions | | | |
| Chest pain | | | |
| subjects affected / exposed | 5 / 208 (2.40%) | 3 / 211 (1.42%) | 3 / 51 (5.88%) |
| occurrences (all) | 5 | 4 | 3 |
| Asthenia | | | |
| subjects affected / exposed | 40 / 208 (19.23%) | 58 / 211 (27.49%) | 7 / 51 (13.73%) |
| occurrences (all) | 43 | 59 | 7 |
| Chills | | | |
| subjects affected / exposed | 5 / 208 (2.40%) | 3 / 211 (1.42%) | 3 / 51 (5.88%) |
| occurrences (all) | 5 | 3 | 3 |
| Fatigue | | | |
| subjects affected / exposed | 53 / 208 (25.48%) | 50 / 211 (23.70%) | 13 / 51 (25.49%) |
| occurrences (all) | 57 | 50 | 14 |
| Pyrexia | | | |
| subjects affected / exposed | 6 / 208 (2.88%) | 6 / 211 (2.84%) | 4 / 51 (7.84%) |
| occurrences (all) | 7 | 7 | 4 |
| Respiratory, thoracic and mediastinal disorders | | | |
| Dyspnoea | | | |
| subjects affected / exposed | 14 / 208 (6.73%) | 18 / 211 (8.53%) | 4 / 51 (7.84%) |
| occurrences (all) | 15 | 19 | 4 |
| Cough | | | |
| subjects affected / exposed | 13 / 208 (6.25%) | 17 / 211 (8.06%) | 7 / 51 (13.73%) |
| occurrences (all) | 13 | 18 | 8 |
| Psychiatric disorders | | | |

| | | | |
|---|-------------------------|-------------------------|------------------------|
| Depression subjects affected / exposed occurrences (all) | 11 / 208 (5.29%) 11 | 18 / 211 (8.53%) 18 | 1 / 51 (1.96%) 1 |
| Irritability subjects affected / exposed occurrences (all) | 6 / 208 (2.88%) 6 | 14 / 211 (6.64%) 14 | 2 / 51 (3.92%) 2 |
| Insomnia subjects affected / exposed occurrences (all) | 17 / 208 (8.17%) 17 | 29 / 211 (13.74%) 30 | 10 / 51 (19.61%) 10 |
| Investigations Blood bilirubin increased subjects affected / exposed occurrences (all) | 8 / 208 (3.85%) 8 | 10 / 211 (4.74%) 11 | 5 / 51 (9.80%) 5 |
| Weight decreased subjects affected / exposed occurrences (all) | 13 / 208 (6.25%) 13 | 19 / 211 (9.00%) 21 | 5 / 51 (9.80%) 5 |
| Injury, poisoning and procedural complications Sunburn subjects affected / exposed occurrences (all) | 9 / 208 (4.33%) 11 | 17 / 211 (8.06%) 19 | 4 / 51 (7.84%) 4 |
| Nervous system disorders Dizziness subjects affected / exposed occurrences (all) | 13 / 208 (6.25%) 14 | 18 / 211 (8.53%) 19 | 5 / 51 (9.80%) 5 |
| Dysgeusia subjects affected / exposed occurrences (all) | 11 / 208 (5.29%) 11 | 8 / 211 (3.79%) 9 | 4 / 51 (7.84%) 4 |
| Headache subjects affected / exposed occurrences (all) | 33 / 208 (15.87%) 36 | 30 / 211 (14.22%) 41 | 4 / 51 (7.84%) 4 |
| Syncope subjects affected / exposed occurrences (all) | 0 / 208 (0.00%) 0 | 8 / 211 (3.79%) 9 | 3 / 51 (5.88%) 4 |
| Paraesthesia subjects affected / exposed occurrences (all) | 11 / 208 (5.29%) 11 | 17 / 211 (8.06%) 18 | 2 / 51 (3.92%) 2 |

| | | | |
|--------------------------------------|-------------------|--------------------|------------------|
| Blood and lymphatic system disorders | | | |
| Anaemia | | | |
| subjects affected / exposed | 40 / 208 (19.23%) | 53 / 211 (25.12%) | 19 / 51 (37.25%) |
| occurrences (all) | 43 | 56 | 20 |
| Eye disorders | | | |
| Ocular icterus | | | |
| subjects affected / exposed | 20 / 208 (9.62%) | 15 / 211 (7.11%) | 3 / 51 (5.88%) |
| occurrences (all) | 20 | 17 | 3 |
| Gastrointestinal disorders | | | |
| Abdominal discomfort | | | |
| subjects affected / exposed | 14 / 208 (6.73%) | 10 / 211 (4.74%) | 3 / 51 (5.88%) |
| occurrences (all) | 14 | 10 | 3 |
| Abdominal pain | | | |
| subjects affected / exposed | 14 / 208 (6.73%) | 16 / 211 (7.58%) | 4 / 51 (7.84%) |
| occurrences (all) | 15 | 19 | 4 |
| Abdominal pain upper | | | |
| subjects affected / exposed | 25 / 208 (12.02%) | 27 / 211 (12.80%) | 2 / 51 (3.92%) |
| occurrences (all) | 26 | 33 | 2 |
| Diarrhoea | | | |
| subjects affected / exposed | 50 / 208 (24.04%) | 66 / 211 (31.28%) | 17 / 51 (33.33%) |
| occurrences (all) | 58 | 88 | 24 |
| Constipation | | | |
| subjects affected / exposed | 12 / 208 (5.77%) | 14 / 211 (6.64%) | 3 / 51 (5.88%) |
| occurrences (all) | 13 | 16 | 3 |
| Dyspepsia | | | |
| subjects affected / exposed | 24 / 208 (11.54%) | 25 / 211 (11.85%) | 5 / 51 (9.80%) |
| occurrences (all) | 25 | 26 | 5 |
| Nausea | | | |
| subjects affected / exposed | 96 / 208 (46.15%) | 112 / 211 (53.08%) | 27 / 51 (52.94%) |
| occurrences (all) | 111 | 141 | 33 |
| Vomiting | | | |
| subjects affected / exposed | 64 / 208 (30.77%) | 62 / 211 (29.38%) | 18 / 51 (35.29%) |
| occurrences (all) | 87 | 88 | 30 |
| Hepatobiliary disorders | | | |
| Hyperbilirubinaemia | | | |
| subjects affected / exposed | 17 / 208 (8.17%) | 17 / 211 (8.06%) | 5 / 51 (9.80%) |
| occurrences (all) | 18 | 19 | 6 |

| | | | |
|---|-------------------------|-------------------------|------------------------|
| Jaundice subjects affected / exposed occurrences (all) | 28 / 208 (13.46%) 28 | 35 / 211 (16.59%) 36 | 10 / 51 (19.61%) 10 |
| Skin and subcutaneous tissue disorders | | | |
| Alopecia subjects affected / exposed occurrences (all) | 18 / 208 (8.65%) 18 | 9 / 211 (4.27%) 9 | 2 / 51 (3.92%) 2 |
| Dry skin subjects affected / exposed occurrences (all) | 18 / 208 (8.65%) 19 | 13 / 211 (6.16%) 13 | 2 / 51 (3.92%) 2 |
| Erythema subjects affected / exposed occurrences (all) | 23 / 208 (11.06%) 25 | 28 / 211 (13.27%) 31 | 8 / 51 (15.69%) 10 |
| Photosensitivity reaction subjects affected / exposed occurrences (all) | 29 / 208 (13.94%) 33 | 30 / 211 (14.22%) 33 | 10 / 51 (19.61%) 11 |
| Pruritus subjects affected / exposed occurrences (all) | 38 / 208 (18.27%) 43 | 53 / 211 (25.12%) 65 | 20 / 51 (39.22%) 23 |
| Rash subjects affected / exposed occurrences (all) | 35 / 208 (16.83%) 43 | 37 / 211 (17.54%) 40 | 11 / 51 (21.57%) 15 |
| Musculoskeletal and connective tissue disorders | | | |
| Arthralgia subjects affected / exposed occurrences (all) | 13 / 208 (6.25%) 15 | 11 / 211 (5.21%) 11 | 1 / 51 (1.96%) 1 |
| Back pain subjects affected / exposed occurrences (all) | 13 / 208 (6.25%) 13 | 6 / 211 (2.84%) 6 | 1 / 51 (1.96%) 1 |
| Infections and infestations | | | |
| Nasopharyngitis subjects affected / exposed occurrences (all) | 12 / 208 (5.77%) 15 | 13 / 211 (6.16%) 14 | 4 / 51 (7.84%) 5 |
| Metabolism and nutrition disorders | | | |
| Vitamin D deficiency | | | |

| | | | |
|-----------------------------|------------------|-------------------|-----------------|
| subjects affected / exposed | 14 / 208 (6.73%) | 21 / 211 (9.95%) | 1 / 51 (1.96%) |
| occurrences (all) | 14 | 21 | 1 |
| Decreased appetite | | | |
| subjects affected / exposed | 20 / 208 (9.62%) | 33 / 211 (15.64%) | 6 / 51 (11.76%) |
| occurrences (all) | 20 | 33 | 6 |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|------------------|---|
| 03 December 2012 | Excluded patients with GT1a IL28b CC; Removed stratification by sub-GT and IL-28b; Extended safety data collection at rescue to 4 weeks after the end of rescue therapy; Removed protein electrophoresis at screening; Revised sample size to 195 patients for Group 1, 195 patients for Group 2 and 40-70 patients for Group 3, based on exclusion of GT1a patients. |
| 04 July 2013 | Redefined the minimum historical target SVR12 rates from a point estimate of 71% for the lower bound of the CI (original protocol) to a weighted average of 66% (PegIFN-eligible) where 1/2 CI is approximately 6%; Added power calculations for comparison to the historical control; Added increased ECG monitoring based on preliminary results from 1241.25; Added monitoring for appearance of systemic symptoms of DRESS and criteria for treatment discontinuation in case of potentially lifethreatening skin reactions; Added PK trough samples for all patients in the trial; Added second confirmation in case of virologic breakthrough; clarified the confirmation process; Clarified procedures related to rescue medication; Added details on the assessment of liver progression assessment; Revised SAE reporting processes based on updated sponsor SOP; Added IgE assessment for mild rash events. |
| 30 October 2013 | Changed the order of primary and secondary objectives; Re-defined the minimum historical target SVR12 rates. Specified a hierarchical order for primary and secondary objective testing; Updated power calculation for the primary analysis based on the proposed sample size; Specified collection of all SAEs with onset date after 28 days post-EOT until EOO. Defined residual effect period. Extended safety reporting during follow-up period; Added potential risk of agranulocytosis/neutropenia; Added discontinuation of patients with ANC ≤ 500 cells/mm ³ ; Clarified SAE reporting requirements. |
| 03 April 2014 | Due to termination of the DBV program, the FU period was reduced to 24 weeks for patients who achieved SVR12, and to 48 weeks for SVR12 nonresponders provided they had not started an alternative HCV treatment; Follow-up of rescue treatment was reduced to RFU1 at REOT+12 weeks; FU3 snapshot was removed. |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

Limitations of the trial such as small numbers of subjects analysed or technical problems leading to unreliable data.

BI stopped further development of DBV, the Follow-up period was reduced.
First outcome measure: statistical analysis for one group are defined and analysed, due to the platform limitations those could not be provided (results in ct.gov NCT01732796)

Notes: