



Clinical trial results:

A Phase 3, Open-Label Study with Asunaprevir and Daclatasvir Plus Peginterferon Alfa-2a (Pegasys) and Ribavirin (Copegus) (P/R) (QUAD) for Subjects Who Are Null or Partial Responders to Peginterferon Alfa-2a or -2b Plus Ribavirin with Chronic Hepatitis C Genotypes 1 or 4 Infection Summary

| | |
|--------------------------|-------------------|
| EudraCT number | 2011-005422-21 |
| Trial protocol | SE DE NL ES DK IT |
| Global end of trial date | 09 December 2013 |

Results information

| | |
|--------------------------------|-----------------|
| Result version number | v1 (current) |
| This version publication date | 30 October 2016 |
| First version publication date | 30 October 2016 |

Trial information

Trial identification

| | |
|-----------------------|-----------|
| Sponsor protocol code | AI447-029 |
|-----------------------|-----------|

Additional study identifiers

| | |
|------------------------------------|-------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT01573351 |
| WHO universal trial number (UTN) | - |

Notes:

Sponsors

| | |
|------------------------------|--|
| Sponsor organisation name | Bristol-Myers Squibb International Corporation |
| Sponsor organisation address | Chaussee de la Hulpe 185, Brussels, Belgium, 1170 |
| Public contact | Bristol-Myers Squibb Study Director, Bristol-Myers Squibb International Corporation, clinical.trials@bms.com |
| Scientific contact | Bristol-Myers Squibb Study Director, Bristol-Myers Squibb International Corporation, clinical.trials@bms.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 | 09 December 2013 |
| Is this the analysis of the primary completion data? | No |
| Global end of trial reached? | Yes |
| Global end of trial date | 09 December 2013 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

The primary objective was to assess efficacy, as determined by the proportion of subjects with sustained virologic response at follow-up Week 12 (SVR12), defined as hepatitis C virus (HCV) ribonucleic acid (RNA) < limit of quantitation (LOQ) at post-treatment Week 12.

Protection of trial subjects:

The study was in compliance with the ethical principles derived from the Declaration of Helsinki and in compliance with all International Conference on Harmonization Good Clinical Practice Guidelines. All the local regulatory requirements pertinent to safety of trial subjects were followed.

Background therapy: -

Evidence for comparator: -

| | |
|---|-------------|
| Actual start date of recruitment | 11 May 2012 |
| Long term follow-up planned | Yes |
| Long term follow-up rationale | Efficacy |
| Long term follow-up duration | 6 Months |
| Independent data monitoring committee (IDMC) involvement? | No |

Notes:

Population of trial subjects

Subjects enrolled per country

| | |
|--------------------------------------|------------------------|
| Country: Number of subjects enrolled | Netherlands: 8 |
| Country: Number of subjects enrolled | Spain: 23 |
| Country: Number of subjects enrolled | Sweden: 11 |
| Country: Number of subjects enrolled | Denmark: 8 |
| Country: Number of subjects enrolled | France: 87 |
| Country: Number of subjects enrolled | Germany: 47 |
| Country: Number of subjects enrolled | Italy: 21 |
| Country: Number of subjects enrolled | Argentina: 12 |
| Country: Number of subjects enrolled | Canada: 27 |
| Country: Number of subjects enrolled | Korea, Republic of: 37 |
| Country: Number of subjects enrolled | Mexico: 7 |
| Country: Number of subjects enrolled | Russian Federation: 23 |
| Country: Number of subjects enrolled | Switzerland: 5 |
| Country: Number of subjects enrolled | Taiwan: 24 |
| Country: Number of subjects enrolled | United States: 156 |
| Worldwide total number of subjects | 496 |
| EEA total number of subjects | 205 |

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) | 451 |
| From 65 to 84 years | 45 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details:

The study was conducted at 79 sites in 15 countries.

Pre-assignment

Screening details:

496 enrolled; 398 treated. 98 did not enter treatment because 81 did not meet the study criteria during the screening period, 13 withdrew consent, 4 other.

Period 1

| | |
|------------------------------|------------------|
| Period 1 title | Treatment Period |
| Is this the baseline period? | Yes |
| Allocation method | Not applicable |
| Blinding used | Not blinded |

Arms

| | |
|------------------------------|---|
| Are arms mutually exclusive? | Yes |
| Arm title | GT-1: Asunaprevir/Daclatasvir/Peginterferon Alfa-2a/Ribavirin |

Arm description:

Subjects with chronic HCV infection (genotype 1 [GT-1]) who were null or partial responders to peginterferon alfa-2a (pegINFα-2a) or peginterferon alfa-2b (pegINFα-2b) plus ribavirin were treated for 24 weeks with daclatasvir (DCV) Quad regimen followed by 24 weeks of follow-up after completion or early discontinuation of treatment. The DCV Quad regimen included daclatasvir 60 mg tablet once daily by mouth, asunaprevir 100-mg soft gel capsule twice daily by mouth, pegINFα-2a 180 µg subcutaneous once weekly, and RBV (for subjects weighing < 75 kg the total dose was 1000 mg per day and for those weighing ≥ 75 kg the dose was 1200 mg per day; therefore, subjects were to take either 400 mg [2 tablets for subjects < 75 kg] or 600 mg [3 tablets for subjects ≥ 75 kg] in the morning with food and 600 mg [3 tablets] in the evening with food) for 24 weeks.

| | |
|--|---------------|
| Arm type | Experimental |
| Investigational medicinal product name | Asunaprevir |
| Investigational medicinal product code | BMS-650032 |
| Other name | |
| Pharmaceutical forms | Capsule, soft |
| Routes of administration | Oral use |

Dosage and administration details:

Asunaprevir 100mg softgel capsule was administered orally twice daily.

| | |
|--|--------------------|
| Investigational medicinal product name | Daclatasvir |
| Investigational medicinal product code | BMS-790052 |
| Other name | |
| Pharmaceutical forms | Film-coated tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Daclatasvir 60mg film coated tablet was administered orally once daily.

| | |
|--|------------------------|
| Investigational medicinal product name | Peginterferon Alfa-2a |
| Investigational medicinal product code | |
| Other name | PEGASYS |
| Pharmaceutical forms | Solution for injection |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

Peginterferon Alfa-2a 180 micrograms/0.5 mL was administered once per week.

| | |
|--|---|
| Investigational medicinal product name | Ribavirin |
| Investigational medicinal product code | |
| Other name | COPEGUS |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |
| Dosage and administration details: | |
| Ribavirin administered at a daily dose of 1000 to 1200 mg orally in two divided doses. | |
| Arm title | GT-4: Asunaprevir/Daclatasvir/Peginterferon Alfa-2a/Ribavirin |

Arm description:

Subjects with chronic HCV infection (genotype 4 [GT-4]) who were null or partial responders to peginterferon alfa-2a (pegINFα-2a) or peginterferon alfa-2b (pegINFα-2b) plus ribavirin were treated for 24 weeks with daclatasvir (DCV) Quad regimen followed by 24 weeks of follow-up after completion or early discontinuation of treatment. The DCV Quad regimen included daclatasvir 60 mg tablet once daily by mouth, asunaprevir 100-mg soft gel capsule twice daily by mouth, pegINFα-2a 180 µg subcutaneous once weekly, and RBV (for subjects weighing < 75 kg the total dose was 1000 mg per day and for those weighing ≥ 75 kg the dose was 1200 mg per day; therefore, subjects were to take either 400 mg [2 tablets for subjects < 75 kg] or 600 mg [3 tablets for subjects ≥ 75 kg] in the morning with food and 600 mg [3 tablets] in the evening with food) for 24 weeks.

| | |
|--|---------------|
| Arm type | Experimental |
| Investigational medicinal product name | Asunaprevir |
| Investigational medicinal product code | BMS-650032 |
| Other name | |
| Pharmaceutical forms | Capsule, soft |
| Routes of administration | Oral use |

Dosage and administration details:

Asunaprevir 100mg softgel capsule was administered orally twice daily.

| | |
|--|--------------------|
| Investigational medicinal product name | Daclatasvir |
| Investigational medicinal product code | BMS-790052 |
| Other name | |
| Pharmaceutical forms | Film-coated tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Daclatasvir 60mg film coated tablet was administered orally once daily.

| | |
|--|------------------------|
| Investigational medicinal product name | Peginterferon Alfa-2a |
| Investigational medicinal product code | |
| Other name | PEGASYS |
| Pharmaceutical forms | Solution for injection |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

Peginterferon Alfa-2a 180 micrograms/0.5 mL was administered once per week.

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

Dosage and administration details:

Ribavirin was administered at a daily dose of 1000 to 1200 mg orally in two divided doses.

| Number of subjects in period 1 ^[1] | GT-1: Asunaprevir/Daclatasvir/Peginterferon Alfa-2a/Ribavirin | GT-4: Asunaprevir/Daclatasvir/Peginterferon Alfa-2a/Ribavirin |
|---|--|--|
| Started | 354 | 44 |
| Completed | 335 | 44 |
| Not completed | 19 | 0 |
| Adverse event, non-fatal | 7 | - |
| Lost to follow-up | 1 | - |
| Lack of efficacy | 11 | - |

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: Out of 496 subjects who were enrolled, only 398 were treated. Remaining 98 subjects did not receive any treatment. 81 subjects no longer met the study criteria, 13 subjects withdrew consent to participate, and 4 due to other reasons.

Period 2

| | |
|------------------------------|------------------|
| Period 2 title | Follow-Up Period |
| Is this the baseline period? | No |
| Allocation method | Not applicable |
| Blinding used | Not blinded |

Arms

| | |
|------------------------------|---|
| Are arms mutually exclusive? | Yes |
| Arm title | GT-1: Asunaprevir/Daclatasvir/Peginterferon Alfa-2a/Ribavirin |

Arm description:

Subjects received no treatment during 24 weeks of follow-up after completion of treatment or upon early discontinuation of treatment.

Treatment included 24 weeks with DCV Quad regimen followed by 24 weeks of follow-up after completion or early discontinuation of treatment. The DCV Quad regimen included daclatasvir 60 mg tablet once daily by mouth, asunaprevir 100-mg soft gel capsule twice daily by mouth, pegIFN α -2a 180 μ g subcutaneous once weekly, and ribavirin (for subjects weighing < 75 kg the total dose was 1000 mg per day and for those weighing \geq 75 kg the dose was 1200 mg per day; therefore, subjects were to take either 400 mg [2 tablets for subjects < 75 kg] or 600 mg [3 tablets for subjects \geq 75 kg] in the morning with food and 600 mg [3 tablets] in the evening with food) for 24 weeks.

| | |
|--|---------------|
| Arm type | Experimental |
| Investigational medicinal product name | Asunaprevir |
| Investigational medicinal product code | BMS-650032 |
| Other name | |
| Pharmaceutical forms | Capsule, soft |
| Routes of administration | Oral use |

Dosage and administration details:

Asunaprevir 100mg softgel capsule was administered orally twice daily.

| | |
|--|--------------------|
| Investigational medicinal product name | Daclatasvir |
| Investigational medicinal product code | BMS-790052 |
| Other name | |
| Pharmaceutical forms | Film-coated tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Daclatasvir 60mg film coated tablet was administered orally once daily.

| | |
|--|-----------------------|
| Investigational medicinal product name | Peginterferon Alfa-2a |
| Investigational medicinal product code | |
| Other name | PEGASYS |

| | |
|--|---|
| Pharmaceutical forms | Solution for injection |
| Routes of administration | Subcutaneous use |
| Dosage and administration details: | |
| Peginterferon Alfa-2a 180 micrograms/0.5 mL was administered once per week. | |
| Investigational medicinal product name | Ribavirin |
| Investigational medicinal product code | |
| Other name | COPEGUS |
| Pharmaceutical forms | Tablet |
| Routes of administration | Oral use |
| Dosage and administration details: | |
| Ribavirin administered at a daily dose of 1000 to 1200 mg orally in two divided doses. | |
| Arm title | GT-4: Asunaprevir/Daclatasvir/Peginterferon Alfa-2a/Ribavirin |

Arm description:

Subjects received no treatment during 24 weeks of follow-up after completion of treatment or upon early discontinuation of treatment.

Treatment included 24 weeks with DCV Quad regimen followed by 24 weeks of follow-up after completion or early discontinuation of treatment. The DCV Quad regimen included daclatasvir 60 mg tablet once daily by mouth, asunaprevir 100-mg soft gel capsule twice daily by mouth, pegIFN α -2a 180 μ g subcutaneous once weekly, and ribavirin (for subjects weighing < 75 kg the total dose was 1000 mg per day and for those weighing \geq 75 kg the dose was 1200 mg per day; therefore, subjects were to take either 400 mg [2 tablets for subjects < 75 kg] or 600 mg [3 tablets for subjects \geq 75 kg] in the morning with food and 600 mg [3 tablets] in the evening with food) for 24 weeks.

| | |
|--|---------------|
| Arm type | Experimental |
| Investigational medicinal product name | Asunaprevir |
| Investigational medicinal product code | BMS-650032 |
| Other name | |
| Pharmaceutical forms | Capsule, soft |
| Routes of administration | Oral use |

Dosage and administration details:

Asunaprevir 100mg softgel capsule was administered orally twice daily.

| | |
|--|--------------------|
| Investigational medicinal product name | Daclatasvir |
| Investigational medicinal product code | BMS-790052 |
| Other name | |
| Pharmaceutical forms | Film-coated tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Daclatasvir 60mg film coated tablet was administered orally once daily.

| | |
|--|------------------------|
| Investigational medicinal product name | Peginterferon Alfa-2a |
| Investigational medicinal product code | |
| Other name | PEGASYS |
| Pharmaceutical forms | Solution for injection |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

Peginterferon Alfa 180 micrograms/0.5 mL was administered once per week.

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

Dosage and administration details:

Ribavirin administered at a daily dose of 1000 to 1200 mg orally in two divided doses.

| Number of subjects in period 2 | GT-1: Asunaprevir/Daclata svir/Peginterferon Alfa-2a/Ribavirin | GT-4: Asunaprevir/Daclata svir/Peginterferon Alfa-2a/Ribavirin |
|---------------------------------------|---|---|
| Started | 335 | 44 |
| Completed | 344 | 44 |
| Not completed | 8 | 0 |
| Consent withdrawn by subject | 3 | - |
| Death | 1 | - |
| Other | 2 | - |
| Lost to follow-up | 2 | - |
| Joined | 17 | 0 |
| Re-entering for follow-up | 17 | - |

Baseline characteristics

Reporting groups

| | |
|-----------------------|---|
| Reporting group title | GT-1: Asunaprevir/Daclatasvir/Peginterferon Alfa-2a/Ribavirin |
|-----------------------|---|

Reporting group description:

Subjects with chronic HCV infection (genotype 1 [GT-1]) who were null or partial responders to peginterferon alfa-2a (pegINFα-2a) or peginterferon alfa-2b (pegINFα-2b) plus ribavirin were treated for 24 weeks with daclatasvir (DCV) Quad regimen followed by 24 weeks of follow-up after completion or early discontinuation of treatment. The DCV Quad regimen included daclatasvir 60 mg tablet once daily by mouth, asunaprevir 100-mg soft gel capsule twice daily by mouth, pegINFα-2a 180 µg subcutaneous once weekly, and RBV (for subjects weighing < 75 kg the total dose was 1000 mg per day and for those weighing ≥ 75 kg the dose was 1200 mg per day; therefore, subjects were to take either 400 mg [2 tablets for subjects < 75 kg] or 600 mg [3 tablets for subjects ≥ 75 kg] in the morning with food and 600 mg [3 tablets] in the evening with food) for 24 weeks.

| | |
|-----------------------|---|
| Reporting group title | GT-4: Asunaprevir/Daclatasvir/Peginterferon Alfa-2a/Ribavirin |
|-----------------------|---|

Reporting group description:

Subjects with chronic HCV infection (genotype 4 [GT-4]) who were null or partial responders to peginterferon alfa-2a (pegINFα-2a) or peginterferon alfa-2b (pegINFα-2b) plus ribavirin were treated for 24 weeks with daclatasvir (DCV) Quad regimen followed by 24 weeks of follow-up after completion or early discontinuation of treatment. The DCV Quad regimen included daclatasvir 60 mg tablet once daily by mouth, asunaprevir 100-mg soft gel capsule twice daily by mouth, pegINFα-2a 180 µg subcutaneous once weekly, and RBV (for subjects weighing < 75 kg the total dose was 1000 mg per day and for those weighing ≥ 75 kg the dose was 1200 mg per day; therefore, subjects were to take either 400 mg [2 tablets for subjects < 75 kg] or 600 mg [3 tablets for subjects ≥ 75 kg] in the morning with food and 600 mg [3 tablets] in the evening with food) for 24 weeks.

| Reporting group values | GT-1: Asunaprevir/Daclatasvir/Peginterferon Alfa-2a/Ribavirin | GT-4: Asunaprevir/Daclatasvir/Peginterferon Alfa-2a/Ribavirin | Total |
|---|---|---|-------|
| Number of subjects | 354 | 44 | 398 |
| Age categorical | | | |
| Units: Subjects | | | |
| In utero | 0 | 0 | 0 |
| Preterm newborn infants (gestational age < 37 wks) | 0 | 0 | 0 |
| Newborns (0-27 days) | 0 | 0 | 0 |
| Infants and toddlers (28 days-23 months) | 0 | 0 | 0 |
| Children (2-11 years) | 0 | 0 | 0 |
| Adolescents (12-17 years) | 0 | 0 | 0 |
| Adults (18-64 years) | 320 | 41 | 361 |
| From 65-84 years | 34 | 3 | 37 |
| Age continuous | | | |
| Units: years | | | |
| arithmetic mean | 52.9 | 50.8 | |
| full range (min-max) | 19 to 76 | 20 to 71 | - |
| Gender categorical | | | |
| Units: Subjects | | | |
| Female | 114 | 11 | 125 |
| Male | 240 | 33 | 273 |

End points

End points reporting groups

| | |
|--|---|
| Reporting group title | GT-1: Asunaprevir/Daclatasvir/Peginterferon Alfa-2a/Ribavirin |
| Reporting group description: | |
| Subjects with chronic HCV infection (genotype 1 [GT-1]) who were null or partial responders to peginterferon alfa-2a (pegIFN α -2a) or peginterferon alfa-2b (pegIFN α -2b) plus ribavirin were treated for 24 weeks with daclatasvir (DCV) Quad regimen followed by 24 weeks of follow-up after completion or early discontinuation of treatment. The DCV Quad regimen included daclatasvir 60 mg tablet once daily by mouth, asunaprevir 100-mg soft gel capsule twice daily by mouth, pegIFN α -2a 180 μ g subcutaneous once weekly, and RBV (for subjects weighing < 75 kg the total dose was 1000 mg per day and for those weighing \geq 75 kg the dose was 1200 mg per day; therefore, subjects were to take either 400 mg [2 tablets for subjects < 75 kg] or 600 mg [3 tablets for subjects \geq 75 kg] in the morning with food and 600 mg [3 tablets] in the evening with food) for 24 weeks. | |
| Reporting group title | GT-4: Asunaprevir/Daclatasvir/Peginterferon Alfa-2a/Ribavirin |
| Reporting group description: | |
| Subjects with chronic HCV infection (genotype 4 [GT-4]) who were null or partial responders to peginterferon alfa-2a (pegIFN α -2a) or peginterferon alfa-2b (pegIFN α -2b) plus ribavirin were treated for 24 weeks with daclatasvir (DCV) Quad regimen followed by 24 weeks of follow-up after completion or early discontinuation of treatment. The DCV Quad regimen included daclatasvir 60 mg tablet once daily by mouth, asunaprevir 100-mg soft gel capsule twice daily by mouth, pegIFN α -2a 180 μ g subcutaneous once weekly, and RBV (for subjects weighing < 75 kg the total dose was 1000 mg per day and for those weighing \geq 75 kg the dose was 1200 mg per day; therefore, subjects were to take either 400 mg [2 tablets for subjects < 75 kg] or 600 mg [3 tablets for subjects \geq 75 kg] in the morning with food and 600 mg [3 tablets] in the evening with food) for 24 weeks. | |
| Reporting group title | GT-1: Asunaprevir/Daclatasvir/Peginterferon Alfa-2a/Ribavirin |
| Reporting group description: | |
| Subjects received no treatment during 24 weeks of follow-up after completion of treatment or upon early discontinuation of treatment. Treatment included 24 weeks with DCV Quad regimen followed by 24 weeks of follow-up after completion or early discontinuation of treatment. The DCV Quad regimen included daclatasvir 60 mg tablet once daily by mouth, asunaprevir 100-mg soft gel capsule twice daily by mouth, pegIFN α -2a 180 μ g subcutaneous once weekly, and ribavirin (for subjects weighing < 75 kg the total dose was 1000 mg per day and for those weighing \geq 75 kg the dose was 1200 mg per day; therefore, subjects were to take either 400 mg [2 tablets for subjects < 75 kg] or 600 mg [3 tablets for subjects \geq 75 kg] in the morning with food and 600 mg [3 tablets] in the evening with food) for 24 weeks. | |
| Reporting group title | GT-4: Asunaprevir/Daclatasvir/Peginterferon Alfa-2a/Ribavirin |
| Reporting group description: | |
| Subjects received no treatment during 24 weeks of follow-up after completion of treatment or upon early discontinuation of treatment. Treatment included 24 weeks with DCV Quad regimen followed by 24 weeks of follow-up after completion or early discontinuation of treatment. The DCV Quad regimen included daclatasvir 60 mg tablet once daily by mouth, asunaprevir 100-mg soft gel capsule twice daily by mouth, pegIFN α -2a 180 μ g subcutaneous once weekly, and ribavirin (for subjects weighing < 75 kg the total dose was 1000 mg per day and for those weighing \geq 75 kg the dose was 1200 mg per day; therefore, subjects were to take either 400 mg [2 tablets for subjects < 75 kg] or 600 mg [3 tablets for subjects \geq 75 kg] in the morning with food and 600 mg [3 tablets] in the evening with food) for 24 weeks. | |

Primary: Percentage of Genotype 1 Chronic Hepatitis C Infected Subjects Who Were Prior Null or Partial Responders to Peginterferon Alfa/Ribavirin Achieving a Sustained Virologic Response at Follow-Up Week 12

| | |
|-----------------|---|
| End point title | Percentage of Genotype 1 Chronic Hepatitis C Infected Subjects Who Were Prior Null or Partial Responders to Peginterferon Alfa/Ribavirin Achieving a Sustained Virologic Response at Follow-Up Week 12 ^[1] |
|-----------------|---|

End point description:

Sustained Virologic Response at follow-up (post treatment) Week 12 defined as hepatitis C Virus (HCV) RNA levels to be <lower limit of quantitation i.e., 25 international unit per milliliter, target detected or target not detected, at Follow-up Week 12 for subjects with genotype 1 who were prior null or partial

responders to Peginterferon Alfa/Ribavirin. HCV RNA levels were measured by the Roche COBAS® TaqMan® HCV Test version 2.0 from the central laboratory. The analysis was based on all treated subjects. Subjects missing follow-up Week 12 measurements and subjects who received non-study anti-HCV medication prior to follow-up Week 12 were counted as non-responders.

| | |
|----------------------|---------|
| End point type | Primary |
| End point timeframe: | |
| Follow-Up Week 12 | |

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: Only descriptive summary statistics were planned for this outcome measure.

| End point values | GT-1: Asunaprevir/Da clatasvir/Pegint erferon Alfa- 2a/Ribavirin | GT-4: Asunaprevir/Da clatasvir/Pegint erferon Alfa- 2a/Ribavirin | | |
|----------------------------------|--|--|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 354 | 44 | | |
| Units: Percentage of Subjects | | | | |
| number (confidence interval 95%) | 92.9 (90.3 to 95.6) | 97.7 (93.3 to 100) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Genotype 1 Chronic Hepatitis C Infected Subjects Who Were Prior Null or Partial Responders to Peginterferon Alfa/Ribavirin With Hepatitis C Virus (HCV) RNA <Lower Limit of Quantitation (LLOQ), Target not Detected

| | |
|-----------------|--|
| End point title | Percentage of Genotype 1 Chronic Hepatitis C Infected Subjects Who Were Prior Null or Partial Responders to Peginterferon Alfa/Ribavirin With Hepatitis C Virus (HCV) RNA <Lower Limit of Quantitation (LLOQ), Target not Detected |
|-----------------|--|

End point description:

HCV RNA levels to be <LLOQ i.e. 25 international unit per milliliter, target not detected. HCV RNA levels were measured by the Roche COBAS® TaqMan® HCV Test version 2.0 from the central laboratory. The analysis was performed on all treated subjects who received at least 1 dose of study therapy.

| | |
|---|-----------|
| End point type | Secondary |
| End point timeframe: | |
| Week 2, 4, 6, 8, 12, 24, follow-up week 12, and follow-up week 24 | |

| End point values | GT-1: Asunaprevir/Da clatasvir/Pegint erferon Alfa- 2a/Ribavirin | GT-4: Asunaprevir/Da clatasvir/Pegint erferon Alfa- 2a/Ribavirin | | |
|----------------------------------|--|--|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 354 | 44 | | |
| Units: Percentage of Subjects | | | | |
| number (confidence interval 95%) | | | | |

| | | | | |
|-------------------|---------------------|---------------------|--|--|
| Week 2 | 28 (23.3 to 32.6) | 27.3 (14.1 to 40.4) | | |
| Week 4 | 82.5 (78.5 to 86.4) | 81.8 (70.4 to 93.2) | | |
| Week 6 | 93.2 (90.6 to 95.8) | 90.9 (82.4 to 99.4) | | |
| Week 8 | 95.5 (93.3 to 97.4) | 97.7 (93.3 to 100) | | |
| Week 12 | 95.2 (93 to 97.4) | 97.7 (93.3 to 100) | | |
| Week 24 | 91 (88 to 93.9) | 97.7 (93.3 to 100) | | |
| Follow-Up Week 12 | 91.5 (88.6 to 94.4) | 97.7 (93.3 to 100) | | |
| Follow-Up Week 24 | 88.1 (84.8 to 91.5) | 93.2 (85.7 to 100) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Genotype 1 Chronic Hepatitis C Infected Subjects Who Were Prior Null or Partial Responders to Peginterferon Alfa/Ribavirin with Hepatitis C Virus (HCV) RNA <Lower Limit of Quantitation (LLOQ), Target Detected or Target not Detected

| | |
|-----------------|---|
| End point title | Percentage of Genotype 1 Chronic Hepatitis C Infected Subjects Who Were Prior Null or Partial Responders to Peginterferon Alfa/Ribavirin with Hepatitis C Virus (HCV) RNA <Lower Limit of Quantitation (LLOQ), Target Detected or Target not Detected |
|-----------------|---|

End point description:

HCV RNA levels to be <LLOQ i.e., 25 international unit per milliliter, target detected or target not detected. HCV RNA levels were measured by the Roche COBAS® TaqMan® HCV Test version 2.0 from the central laboratory. The analysis was performed on all treated subjects who received at least 1 dose of study therapy.

| | |
|----------------------|--|
| End point type | Secondary |
| End point timeframe: | Week 2, 4, 6, 8, 12, 24, and follow-up Week 24 |

| End point values | GT-1: Asunaprevir/Da clatasvir/Pegint erferon Alfa- 2a/Ribavirin | GT-4: Asunaprevir/Da clatasvir/Pegint erferon Alfa- 2a/Ribavirin | | |
|----------------------------------|--|--|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 354 | 44 | | |
| Units: Percentage of Subjects | | | | |
| number (confidence interval 95%) | | | | |
| Week 2 | 81.4 (77.3 to 85.4) | 86.4 (76.2 to 96.5) | | |
| Week 4 | 97.7 (96.2 to 99.3) | 100 (100 to 100) | | |
| Weel 6 | 94.4 (91.9 to 96.8) | 95.5 (89.3 to 100) | | |

| | | | | |
|-------------------|---------------------|--------------------|--|--|
| Week 8 | 97.5 (95.8 to 99.1) | 97.7 (93.3 to 100) | | |
| Week 12 | 97.2 (95.4 to 98.9) | 100 (100 to 100) | | |
| Week 24 | 92.4 (89.6 to 95.1) | 100 (100 to 100) | | |
| Follow-Up Week 24 | 88.4 (85.1 to 91.8) | 95.5 (89.3 to 100) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of Subjects With Serious Adverse Events (SAEs), Discontinuations Due to Adverse Events (AEs), Grade 3 to 4 AEs, and Who Died During Treatment Period

| | |
|-----------------|---|
| End point title | Number of Subjects With Serious Adverse Events (SAEs), Discontinuations Due to Adverse Events (AEs), Grade 3 to 4 AEs, and Who Died During Treatment Period |
|-----------------|---|

End point description:

AE was defined as any new unfavorable symptom, sign, or disease or worsening of a preexisting condition that does not have a causal relationship with treatment. SAE was defined as a medical event that at any dose resulted in death, persistent or significant disability/incapacity, or drug dependency/abuse; was life-threatening, an important medical event, or a congenital anomaly/birth defect; or required or prolonged hospitalisation. Grade 3 to 4 AE were also reported. The analysis was performed on all treated subjects who received at least 1 dose of study therapy.

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

End point timeframe:

From start of study treatment up to 7 days post last dose of study treatment

| End point values | GT-1: Asunaprevir/Da clatasvir/Pegint erferon Alfa- 2a/Ribavirin | GT-4: Asunaprevir/Da clatasvir/Pegint erferon Alfa- 2a/Ribavirin | | |
|--------------------------------|--|--|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 354 | 44 | | |
| Units: Subjects | | | | |
| SAEs | 19 | 3 | | |
| AEs Leading to Discontinuation | 15 | 3 | | |
| Grade 3/4 AEs | 86 | 11 | | |
| Deaths | 0 | 0 | | |

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

From start of study treatment up to 7 days post last dose of study treatment

Adverse event reporting additional description:

On-treatment

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

Dictionary used

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

| | |
|--------------------|------|
| Dictionary version | 16.1 |
|--------------------|------|

Reporting groups

| | |
|-----------------------|--|
| Reporting group title | GT-1:Asunaprevir/Daclatasvir/ Peginterferon Alfa-2a/Ribaviri |
|-----------------------|--|

Reporting group description:

Subjects with chronic HCV infection (genotype 1 [GT-1]) who were null or partial responders to peginterferon alfa-2a (pegINFa-2a) or peginterferon alfa-2b (pegINFa-2b) plus ribavirin were treated for 24 weeks with daclatasvir (DCV) Quad regimen followed by 24 weeks of follow-up after completion or early discontinuation of treatment. The DCV Quad regimen included daclatasvir 60 mg tablet once daily by mouth, asunaprevir 100-mg soft gel capsule twice daily by mouth, pegINFa-2a 180 µg subcutaneous once weekly, and RBV (for subjects weighing < 75 kg the total dose was 1000 mg per day and for those weighing ≥ 75 kg the dose was 1200 mg per day; therefore, subjects were to take either 400 mg [2 tablets for subjects < 75 kg] or 600 mg [3 tablets for subjects ≥ 75 kg] in the morning with food and 600 mg [3 tablets] in the evening with food) for 24 weeks.

| | |
|-----------------------|--|
| Reporting group title | GT-4:Asunaprevir/Daclatasvir/ Peginterferon Alfa-2a/Ribaviri |
|-----------------------|--|

Reporting group description:

Subjects with chronic HCV infection (genotype 4 [GT-4]) who were null or partial responders to peginterferon alfa-2a (pegINFa-2a) or peginterferon alfa-2b (pegINFa-2b) plus ribavirin were treated for 24 weeks with daclatasvir (DCV) Quad regimen followed by 24 weeks of follow-up after completion or early discontinuation of treatment. The DCV Quad regimen included daclatasvir 60 mg tablet once daily by mouth, asunaprevir 100-mg soft gel capsule twice daily by mouth, pegINFa-2a 180 µg subcutaneous once weekly, and RBV (for subjects weighing < 75 kg the total dose was 1000 mg per day and for those weighing ≥ 75 kg the dose was 1200 mg per day; therefore, subjects were to take either 400 mg [2 tablets for subjects < 75 kg] or 600 mg [3 tablets for subjects ≥ 75 kg] in the morning with food and 600 mg [3 tablets] in the evening with food) for 24 weeks.

| Serious adverse events | GT-1:Asunaprevir/Daclatasvir/ Peginterferon Alfa-2a/Ribaviri | GT-4:Asunaprevir/Daclatasvir/ Peginterferon Alfa-2a/Ribaviri | |
|---|--|--|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 19 / 354 (5.37%) | 3 / 44 (6.82%) | |
| number of deaths (all causes) | 0 | 0 | |
| number of deaths resulting from adverse events | 0 | 0 | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Acute respiratory failure | | | |
| subjects affected / exposed | 1 / 354 (0.28%) | 0 / 44 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pneumonia aspiration | | | |

| | | | |
|---|-----------------|----------------|--|
| subjects affected / exposed | 1 / 354 (0.28%) | 0 / 44 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Psychiatric disorders | | | |
| Major depression | | | |
| subjects affected / exposed | 1 / 354 (0.28%) | 0 / 44 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Investigations | | | |
| Hepatic enzyme increased | | | |
| subjects affected / exposed | 0 / 354 (0.00%) | 1 / 44 (2.27%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Injury, poisoning and procedural complications | | | |
| Spinal column injury | | | |
| subjects affected / exposed | 1 / 354 (0.28%) | 0 / 44 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Traumatic ulcer | | | |
| subjects affected / exposed | 1 / 354 (0.28%) | 0 / 44 (0.00%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cardiac disorders | | | |
| Cardiac failure congestive | | | |
| subjects affected / exposed | 1 / 354 (0.28%) | 0 / 44 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Nervous system disorders | | | |
| Encephalopathy | | | |
| subjects affected / exposed | 1 / 354 (0.28%) | 0 / 44 (0.00%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Syncope | | | |

| | | | |
|---|-----------------|----------------|--|
| subjects affected / exposed | 1 / 354 (0.28%) | 0 / 44 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Blood and lymphatic system disorders | | | |
| Anaemia | | | |
| subjects affected / exposed | 2 / 354 (0.56%) | 0 / 44 (0.00%) | |
| occurrences causally related to treatment / all | 2 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Lymphadenopathy | | | |
| subjects affected / exposed | 1 / 354 (0.28%) | 0 / 44 (0.00%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Eye disorders | | | |
| Retinal detachment | | | |
| subjects affected / exposed | 1 / 354 (0.28%) | 0 / 44 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hepatobiliary disorders | | | |
| Cholecystitis acute | | | |
| subjects affected / exposed | 1 / 354 (0.28%) | 0 / 44 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cholelithiasis | | | |
| subjects affected / exposed | 0 / 354 (0.00%) | 1 / 44 (2.27%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Skin and subcutaneous tissue disorders | | | |
| Dry skin | | | |
| subjects affected / exposed | 0 / 354 (0.00%) | 1 / 44 (2.27%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Renal and urinary disorders | | | |
| Renal failure acute | | | |

| | | | |
|---|-----------------|----------------|--|
| subjects affected / exposed | 1 / 354 (0.28%) | 0 / 44 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Calculus ureteric | | | |
| subjects affected / exposed | 1 / 354 (0.28%) | 0 / 44 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Endocrine disorders | | | |
| Hyperthyroidism | | | |
| subjects affected / exposed | 1 / 354 (0.28%) | 0 / 44 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Infections and infestations | | | |
| Pneumonia | | | |
| subjects affected / exposed | 3 / 354 (0.85%) | 0 / 44 (0.00%) | |
| occurrences causally related to treatment / all | 1 / 3 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Urinary tract infection | | | |
| subjects affected / exposed | 2 / 354 (0.56%) | 0 / 44 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Influenza | | | |
| subjects affected / exposed | 1 / 354 (0.28%) | 0 / 44 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pyelonephritis acute | | | |
| subjects affected / exposed | 1 / 354 (0.28%) | 0 / 44 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Sepsis | | | |
| subjects affected / exposed | 1 / 354 (0.28%) | 0 / 44 (0.00%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Metabolism and nutrition disorders | | | |

| | | | |
|---|-----------------|----------------|--|
| Dehydration | | | |
| subjects affected / exposed | 1 / 354 (0.28%) | 0 / 44 (0.00%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

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

| Non-serious adverse events | GT-1:Asunaprevir/Daclatasvir/ Peginterferon Alfa-2a/Ribaviri | GT-4:Asunaprevir/Daclatasvir/ Peginterferon Alfa-2a/Ribaviri | |
|---|--|--|--|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 350 / 354 (98.87%) | 43 / 44 (97.73%) | |
| Investigations | | | |
| Weight decreased | | | |
| subjects affected / exposed | 19 / 354 (5.37%) | 7 / 44 (15.91%) | |
| occurrences (all) | 19 | 7 | |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed | 111 / 354 (31.36%) | 13 / 44 (29.55%) | |
| occurrences (all) | 122 | 17 | |
| Dizziness | | | |
| subjects affected / exposed | 30 / 354 (8.47%) | 2 / 44 (4.55%) | |
| occurrences (all) | 31 | 2 | |
| General disorders and administration site conditions | | | |
| Fatigue | | | |
| subjects affected / exposed | 146 / 354 (41.24%) | 19 / 44 (43.18%) | |
| occurrences (all) | 155 | 21 | |
| Asthenia | | | |
| subjects affected / exposed | 79 / 354 (22.32%) | 17 / 44 (38.64%) | |
| occurrences (all) | 85 | 18 | |
| Influenza like illness | | | |
| subjects affected / exposed | 79 / 354 (22.32%) | 10 / 44 (22.73%) | |
| occurrences (all) | 90 | 10 | |
| Irritability | | | |
| subjects affected / exposed | 57 / 354 (16.10%) | 7 / 44 (15.91%) | |
| occurrences (all) | 58 | 7 | |
| Pyrexia | | | |

| | | | |
|---|-------------------------|------------------------|--|
| subjects affected / exposed occurrences (all) | 57 / 354 (16.10%) 62 | 7 / 44 (15.91%) 7 | |
| Injection site erythema subjects affected / exposed occurrences (all) | 22 / 354 (6.21%) 22 | 1 / 44 (2.27%) 1 | |
| Pain subjects affected / exposed occurrences (all) | 14 / 354 (3.95%) 14 | 7 / 44 (15.91%) 7 | |
| Chills subjects affected / exposed occurrences (all) | 16 / 354 (4.52%) 18 | 3 / 44 (6.82%) 3 | |
| Blood and lymphatic system disorders | | | |
| Anaemia subjects affected / exposed occurrences (all) | 67 / 354 (18.93%) 78 | 10 / 44 (22.73%) 12 | |
| Neutropenia subjects affected / exposed occurrences (all) | 56 / 354 (15.82%) 77 | 3 / 44 (6.82%) 6 | |
| Thrombocytopenia subjects affected / exposed occurrences (all) | 21 / 354 (5.93%) 26 | 3 / 44 (6.82%) 3 | |
| Eye disorders | | | |
| Dry eye subjects affected / exposed occurrences (all) | 17 / 354 (4.80%) 17 | 4 / 44 (9.09%) 4 | |
| Gastrointestinal disorders | | | |
| Diarrhoea subjects affected / exposed occurrences (all) | 63 / 354 (17.80%) 68 | 7 / 44 (15.91%) 13 | |
| Nausea subjects affected / exposed occurrences (all) | 61 / 354 (17.23%) 69 | 5 / 44 (11.36%) 7 | |
| Abdominal pain upper subjects affected / exposed occurrences (all) | 18 / 354 (5.08%) 18 | 3 / 44 (6.82%) 5 | |
| Vomiting | | | |

| | | | |
|---|-------------------------|------------------------|--|
| subjects affected / exposed occurrences (all) | 14 / 354 (3.95%) 14 | 4 / 44 (9.09%) 4 | |
| Dry mouth subjects affected / exposed occurrences (all) | 11 / 354 (3.11%) 11 | 3 / 44 (6.82%) 3 | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Cough subjects affected / exposed occurrences (all) | 67 / 354 (18.93%) 69 | 6 / 44 (13.64%) 6 | |
| Dyspnoea subjects affected / exposed occurrences (all) | 41 / 354 (11.58%) 42 | 8 / 44 (18.18%) 8 | |
| Dyspnoea exertional subjects affected / exposed occurrences (all) | 18 / 354 (5.08%) 19 | 3 / 44 (6.82%) 3 | |
| Epistaxis subjects affected / exposed occurrences (all) | 10 / 354 (2.82%) 10 | 4 / 44 (9.09%) 5 | |
| Skin and subcutaneous tissue disorders | | | |
| Pruritus subjects affected / exposed occurrences (all) | 88 / 354 (24.86%) 93 | 16 / 44 (36.36%) 17 | |
| Rash subjects affected / exposed occurrences (all) | 75 / 354 (21.19%) 78 | 7 / 44 (15.91%) 8 | |
| Dry skin subjects affected / exposed occurrences (all) | 65 / 354 (18.36%) 68 | 6 / 44 (13.64%) 7 | |
| Alopecia subjects affected / exposed occurrences (all) | 60 / 354 (16.95%) 60 | 4 / 44 (9.09%) 4 | |
| Eczema subjects affected / exposed occurrences (all) | 10 / 354 (2.82%) 11 | 3 / 44 (6.82%) 3 | |
| Erythema | | | |

| | | | |
|--|------------------------|---------------------|--|
| subjects affected / exposed occurrences (all) | 10 / 354 (2.82%) 11 | 3 / 44 (6.82%) 3 | |
| Psychiatric disorders | | | |
| Insomnia | | | |
| subjects affected / exposed | 77 / 354 (21.75%) | 12 / 44 (27.27%) | |
| occurrences (all) | 81 | 14 | |
| Depression | | | |
| subjects affected / exposed | 30 / 354 (8.47%) | 4 / 44 (9.09%) | |
| occurrences (all) | 30 | 5 | |
| Sleep disorder | | | |
| subjects affected / exposed | 11 / 354 (3.11%) | 4 / 44 (9.09%) | |
| occurrences (all) | 12 | 4 | |
| Musculoskeletal and connective tissue disorders | | | |
| Myalgia | | | |
| subjects affected / exposed | 55 / 354 (15.54%) | 6 / 44 (13.64%) | |
| occurrences (all) | 65 | 7 | |
| Arthralgia | | | |
| subjects affected / exposed | 35 / 354 (9.89%) | 5 / 44 (11.36%) | |
| occurrences (all) | 37 | 5 | |
| Back pain | | | |
| subjects affected / exposed | 29 / 354 (8.19%) | 0 / 44 (0.00%) | |
| occurrences (all) | 31 | 0 | |
| Metabolism and nutrition disorders | | | |
| Decreased appetite | | | |
| subjects affected / exposed | 41 / 354 (11.58%) | 6 / 44 (13.64%) | |
| occurrences (all) | 45 | 7 | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|---------------|---|
| 13 March 2012 | Permitted collection and storage of blood samples for use in future exploratory pharmacogenetic research. |
| 31 May 2012 | Added a safety update and guidance regarding the management of patients exposed to DCV/ASV (Dual therapy), who presented with unexplained pyrexia. In addition, subjects with hemophilia were excluded following Health Authorities commitments as this population is at high risk. |
| 30 March 2013 | Corrected grammatical and typographical errors as well as protocol inconsistencies with program standards. Additionally, table numbers were slightly modified to reflect a new template. |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported