



## Clinical trial results:

### A Phase IIb Clinical Study to Assess the Pharmacokinetics, Safety, and Efficacy of the Combination Regimen of Elbasvir (EBR)/Grazoprevir (GZR) in Participants Aged 3 to less than 18 Years with Chronic Hepatitis C Infection

#### Summary

|                          |                         |
|--------------------------|-------------------------|
| EudraCT number           | 2015-003006-16          |
| Trial protocol           | DE SE PL Outside EU/EEA |
| Global end of trial date | 23 July 2020            |

#### Results information

|                                |                 |
|--------------------------------|-----------------|
| Result version number          | v2 (current)    |
| This version publication date  | 18 August 2021  |
| First version publication date | 24 October 2020 |
| Version creation reason        |                 |

#### Trial information

##### Trial identification

|                       |          |
|-----------------------|----------|
| Sponsor protocol code | 5172-079 |
|-----------------------|----------|

##### Additional study identifiers

|                                    |             |
|------------------------------------|-------------|
| ISRCTN number                      | -           |
| ClinicalTrials.gov id (NCT number) | NCT03379506 |
| WHO universal trial number (UTN)   | -           |

Notes:

#### Sponsors

|                              |  |
|------------------------------|--|
| Sponsor organisation name    | Merck Sharp & Dohme Corp.  |
| Sponsor organisation address | 2000 Galloping Hill Road, Kenilworth, NC, United States, 07033                               |
| Public contact               | Clinical Trials Disclosure, Merck Sharp & Dohme Corp.,<br>ClinicalTrialsDisclosure@merck.com |
| Scientific contact           | Clinical Trials Disclosure, Merck Sharp & Dohme Corp.,<br>ClinicalTrialsDisclosure@merck.com |

Notes:

#### Paediatric regulatory details

|  |                     |
|--|---------------------|
| Is trial part of an agreed paediatric investigation plan (PIP)       | Yes                 |
| EMA paediatric investigation plan number(s)                          | EMA-001604-PIP01-13 |
| 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? | Yes                 |

Notes:

## Results analysis stage

|  |                 |
|--|-----------------|
| Analysis stage                                       | Final           |
| Date of interim/final analysis                       | 23 July 2020    |
| Is this the analysis of the primary completion data? | Yes             |
| Primary completion date                              | 28 October 2019 |
| Global end of trial reached?                         | Yes             |
| Global end of trial date                             | 23 July 2020    |
| Was the trial ended prematurely?                     | No              |

Notes:

## General information about the trial

Main objective of the trial:

The purpose of this study is to assess the pharmacokinetics (PK), safety, and efficacy of oral MK-5172 (a fixed dose combination [FDC] tablet containing elbasvir [EBR] 50 mg and grazoprevir [GZR] 100 mg) and EBR/GZR (varying doses) pediatric granules in pediatric hepatitis C virus (HCV)-infected participants who are 3 to <18 years of age. Within each age cohort (Cohort 1: 12 to <18 years of age; Cohort 2: 7 to <12 years of age; and Cohort 3: 3 to <7 years of age), a Mini Cohort of 7 participants will be enrolled first. For the oldest cohort (Cohort 1), the Mini Cohort will assess ability to swallow a placebo tablet prior to administering active FDC tablets. Participants in Cohorts 2 and 3 will take pediatric granules instead of a tablet.

Protection of trial subjects:

This study was conducted in conformance with Good Clinical Practice standards and applicable country and/or local statutes and regulations regarding ethical committee review, informed consent, and the protection of human subjects participating in biomedical research.

Background therapy: -

Evidence for comparator: -

|   |                 |
|---|-----------------|
| Actual start date of recruitment                          | 25 January 2018 |
| 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 | Germany: 15       |
| Country: Number of subjects enrolled | Poland: 19        |
| Country: Number of subjects enrolled | United States: 23 |
| Worldwide total number of subjects   | 57                |
| EEA total number of subjects         | 34                |

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)     | 35 |
| Adolescents (12-17 years) | 22 |
| Adults (18-64 years)      | 0  |
| From 65 to 84 years       | 0  |
| 85 years and over         | 0  |

## Subject disposition

### Recruitment

Recruitment details: -

### Pre-assignment

Screening details:

Male and female participants 3 to <18 years of age with chronic hepatitis C virus (HCV) genotype 1 (GT1) or GT4 were enrolled at 14 global study sites.

### Period 1

|                              |                                |
|------------------------------|--------------------------------|
| Period 1 title               | Overall Study (overall period) |
| Is this the baseline period? | Yes                            |
| Allocation method            | Not applicable                 |
| Blinding used                | Not blinded                    |

### Arms

|                              |  |
|------------------------------|--|
| Are arms mutually exclusive? | Yes  |
| <b>Arm title</b>             | Age Cohort 1: 12 to <18 Years: Mini and Expanded |

Arm description:

Pediatric participants 12 to <18 years of age received elbasvir (EBR) 50 mg / grazoprevir (GZR) 100 mg fixed dose combination (FDC) tablets once daily for 12 weeks.

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

Dosage and administration details:

Participants who are 12 to <18 years of age will receive oral placebo tablet matched to EBR/GZR FDC tablet.

|  |                     |
|--|---------------------|
| Investigational medicinal product name | EBR/GZR FDC Tablet  |
| Investigational medicinal product code |                     |
| Other name                             | MK-5172A; ZEPATIER® |
| Pharmaceutical forms                   | Tablet              |
| Routes of administration               | Oral use            |

Dosage and administration details:

Participants who are 12 to <18 years of age will receive oral FDC tablets with EBR 50 mg/GZR 100 mg once daily by mouth.

|                  |   |
|------------------|---|
| <b>Arm title</b> | Age Cohort 2: 7 to <12 Years: Mini and Expanded |
|------------------|---|

Arm description:

Participants who are 7 to <12 years of age received EBR/GZR 30 mg/60 mg pediatric granules once daily for 12 weeks.

|  |                           |
|--|---------------------------|
| Arm type                               | Experimental              |
| Investigational medicinal product name | Grazoprevir Oral Granules |
| Investigational medicinal product code |                           |
| Other name                             | MK-5172                   |
| Pharmaceutical forms                   | Granules                  |
| Routes of administration               | Oral use                  |

Dosage and administration details:

Participants 7 to <12 years of age take grazoprevir oral granules 1 mg by mouth in a soft food vehicle at a dose not to exceed 100 mg.

|  |                        |
|--|------------------------|
| Investigational medicinal product name | Elbasvir Oral Granules |
| Investigational medicinal product code |                        |
| Other name                             | MK-8742                |
| Pharmaceutical forms                   | Granules               |
| Routes of administration               | Oral use               |

**Dosage and administration details:**

Participants 7 to <12 years of age take elbasvir oral granules 0.5 mg by mouth in a soft food vehicle at a dose not to exceed 50 mg.

|                  |                                   |
|------------------|-----------------------------------|
| <b>Arm title</b> | Age Cohort 3: 3 to <7 Years: Mini |
|------------------|-----------------------------------|

**Arm description:**

Participants who are 3 to <7 years of age received a pediatric formulation of EBR/GZR (weight-based dosing) once daily for 12 weeks. The Mini cohort consists of the first 7 participants enrolled into Age Cohort 3. Participants <20 kg received EBR/GZR 15 mg/30 mg, and participants ≥20 kg received EBR/GZR 15 mg/50 mg.

|  |                        |
|--|------------------------|
| Arm type                               | Experimental           |
| Investigational medicinal product name | Elbasvir Oral Granules |
| Investigational medicinal product code |                        |
| Other name                             | MK-8742                |
| Pharmaceutical forms                   | Granules               |
| Routes of administration               | Oral use               |

**Dosage and administration details:**

Participants 3 to <7 years of age take elbasvir oral granules 0.5 mg by mouth in a soft food vehicle at a dose not to exceed 50 mg.

|  |                           |
|--|---------------------------|
| Investigational medicinal product name | Grazoprevir Oral Granules |
| Investigational medicinal product code |                           |
| Other name                             | MK-5172                   |
| Pharmaceutical forms                   | Granules                  |
| Routes of administration               | Oral use                  |

**Dosage and administration details:**

Participants 3 to <7 years of age take grazoprevir oral granules 1 mg by mouth in a soft food vehicle at a dose not to exceed 100 mg.

|                  |                                       |
|------------------|---------------------------------------|
| <b>Arm title</b> | Age Cohort 3: 3 to <7 Years: Expanded |
|------------------|---------------------------------------|

**Arm description:**

Participants who are 3 to <7 years of age received a pediatric formulation of EBR/GZR 25 mg/50 mg once daily for 12 weeks. The Expanded cohort consists of 11 participants enrolled after the Mini Cohort of 7 participants.

|  |                        |
|--|------------------------|
| Arm type                               | Experimental           |
| Investigational medicinal product name | Elbasvir Oral Granules |
| Investigational medicinal product code |                        |
| Other name                             | MK-8742                |
| Pharmaceutical forms                   | Granules               |
| Routes of administration               | Oral use               |

**Dosage and administration details:**

Participants 3 to <7 years of age take elbasvir oral granules 0.5 mg by mouth in a soft food vehicle at a dose not to exceed 50 mg.

|  |                           |
|--|---------------------------|
| Investigational medicinal product name | Grazoprevir Oral Granules |
| Investigational medicinal product code |                           |
| Other name                             | MK-5172                   |
| Pharmaceutical forms                   | Granules                  |
| Routes of administration               | Oral use                  |

**Dosage and administration details:**

Participants 3 to <7 years of age take grazoprevir oral granules 1 mg by mouth in a soft food vehicle at a dose not to exceed 100 mg.

| Number of subjects in period 1 | Age Cohort 1: 12 to <18 Years: Mini and Expanded | Age Cohort 2: 7 to <12 Years: Mini and Expanded | Age Cohort 3: 3 to <7 Years: Mini |
|--------------------------------|--|---|-----------------------------------|
|                                |  |   |                                   |
| Started                        | 22   | 17  | 7                                 |
| Completed                      | 22   | 17  | 7                                 |

| Number of subjects in period 1 | Age Cohort 3: 3 to <7 Years: Expanded |
|--------------------------------|---------------------------------------|
| Started                        | 11                                    |
| Completed                      | 11                                    |

## Baseline characteristics

### Reporting groups

|                       |  |
|-----------------------|--|
| Reporting group title | Age Cohort 1: 12 to <18 Years: Mini and Expanded |
|-----------------------|--|

Reporting group description:

Pediatric participants 12 to <18 years of age received elbasvir (EBR) 50 mg / grazoprevir (GZR) 100 mg fixed dose combination (FDC) tablets once daily for 12 weeks.

|                       |   |
|-----------------------|---|
| Reporting group title | Age Cohort 2: 7 to <12 Years: Mini and Expanded |
|-----------------------|---|

Reporting group description:

Participants who are 7 to <12 years of age received EBR/GZR 30 mg/60 mg pediatric granules once daily for 12 weeks.

|                       |                                   |
|-----------------------|-----------------------------------|
| Reporting group title | Age Cohort 3: 3 to <7 Years: Mini |
|-----------------------|-----------------------------------|

Reporting group description:

Participants who are 3 to <7 years of age received a pediatric formulation of EBR/GZR (weight-based dosing) once daily for 12 weeks. The Mini cohort consists of the first 7 participants enrolled into Age Cohort 3. Participants <20 kg received EBR/GZR 15 mg/30 mg, and participants ≥20 kg received EBR/GZR 15 mg/50 mg.

|                       |                                       |
|-----------------------|---------------------------------------|
| Reporting group title | Age Cohort 3: 3 to <7 Years: Expanded |
|-----------------------|---------------------------------------|

Reporting group description:

Participants who are 3 to <7 years of age received a pediatric formulation of EBR/GZR 25 mg/50 mg once daily for 12 weeks. The Expanded cohort consists of 11 participants enrolled after the Mini Cohort of 7 participants.

| Reporting group values                             | Age Cohort 1: 12 to <18 Years: Mini and Expanded | Age Cohort 2: 7 to <12 Years: Mini and Expanded | Age Cohort 3: 3 to <7 Years: Mini |
|--|--|---|-----------------------------------|
| Number of subjects                                 | 22   | 17  | 7                                 |
| Age categorical<br>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  | 17  | 7                                 |
| Adolescents (12-17 years)                          | 22   | 0   | 0                                 |
| Adults (18-64 years)                               | 0  | 0   | 0                                 |
| From 65-84 years                                   | 0  | 0   | 0                                 |
| 85 years and over                                  | 0  | 0   | 0                                 |
| Age Continuous<br>Units: Years                     |  |   |                                   |
| arithmetic mean                                    | 14.1   | 8.7   | 3.7                               |
| standard deviation                                 | ± 1.9  | ± 1.2   | ± 0.8                             |
| Sex: Female, Male<br>Units: Participants           |  |   |                                   |
| Female   | 11   | 7   | 3                                 |
| Male   | 11   | 10  | 4                                 |
| Race (NIH/OMB)<br>Units: Subjects                  |  |   |                                   |
| American Indian or Alaska Native                   | 0  | 0   | 0                                 |
| Asian  | 0  | 0   | 0                                 |

|   |    |    |   |
|---|----|----|---|
| Native Hawaiian or Other Pacific Islander | 0  | 0  | 0 |
| Black or African American                 | 0  | 0  | 0 |
| White                                     | 21 | 17 | 7 |
| More than one race                        | 1  | 0  | 0 |
| Unknown or Not Reported                   | 0  | 0  | 0 |
| Ethnicity (NIH/OMB)                       |    |    |   |
| Units: Subjects                           |    |    |   |
| Hispanic or Latino                        | 3  | 2  | 1 |
| Not Hispanic or Latino                    | 19 | 14 | 6 |
| Unknown or Not Reported                   | 0  | 1  | 0 |

| Reporting group values                             | Age Cohort 3: 3 to <7 Years: Expanded | Total |  |
|--|---------------------------------------|-------|--|
| Number of subjects                                 | 11                                    | 57    |  |
| Age categorical                                    |                                       |       |  |
| Units: Subjects                                    |                                       |       |  |
| In utero   | 0                                     | 0     |  |
| Preterm newborn infants (gestational age < 37 wks) | 0                                     | 0     |  |
| Newborns (0-27 days)                               | 0                                     | 0     |  |
| Infants and toddlers (28 days-23 months)           | 0                                     | 0     |  |
| Children (2-11 years)                              | 11                                    | 35    |  |
| Adolescents (12-17 years)                          | 0                                     | 22    |  |
| Adults (18-64 years)                               | 0                                     | 0     |  |
| From 65-84 years                                   | 0                                     | 0     |  |
| 85 years and over                                  | 0                                     | 0     |  |
| Age Continuous                                     |                                       |       |  |
| Units: Years                                       |                                       |       |  |
| arithmetic mean                                    | 4.8                                   |       |  |
| standard deviation                                 | ± 1.3                                 | -     |  |
| Sex: Female, Male                                  |                                       |       |  |
| Units: Participants                                |                                       |       |  |
| Female   | 8                                     | 29    |  |
| Male   | 3                                     | 28    |  |
| Race (NIH/OMB)                                     |                                       |       |  |
| Units: Subjects                                    |                                       |       |  |
| American Indian or Alaska Native                   | 0                                     | 0     |  |
| Asian  | 0                                     | 0     |  |
| Native Hawaiian or Other Pacific Islander          | 0                                     | 0     |  |
| Black or African American                          | 0                                     | 0     |  |
| White  | 11                                    | 56    |  |
| More than one race                                 | 0                                     | 1     |  |
| Unknown or Not Reported                            | 0                                     | 0     |  |
| Ethnicity (NIH/OMB)                                |                                       |       |  |
| Units: Subjects                                    |                                       |       |  |
| Hispanic or Latino                                 | 0                                     | 6     |  |
| Not Hispanic or Latino                             | 11                                    | 50    |  |
| Unknown or Not Reported                            | 0                                     | 1     |  |



## End points

### End points reporting groups

|   |  |
|---|--|
| Reporting group title   | Age Cohort 1: 12 to <18 Years: Mini and Expanded |
| Reporting group description:<br>Pediatric participants 12 to <18 years of age received elbasvir (EBR) 50 mg / grazoprevir (GZR) 100 mg fixed dose combination (FDC) tablets once daily for 12 weeks.  |  |
| Reporting group title   | Age Cohort 2: 7 to <12 Years: Mini and Expanded  |
| Reporting group description:<br>Participants who are 7 to <12 years of age received EBR/GZR 30 mg/60 mg pediatric granules once daily for 12 weeks.   |  |
| Reporting group title   | Age Cohort 3: 3 to <7 Years: Mini                |
| Reporting group description:<br>Participants who are 3 to <7 years of age received a pediatric formulation of EBR/GZR (weight-based dosing) once daily for 12 weeks. The Mini cohort consists of the first 7 participants enrolled into Age Cohort 3. Participants <20 kg received EBR/GZR 15 mg/30 mg, and participants ≥20 kg received EBR/GZR 15 mg/50 mg. |  |
| Reporting group title   | Age Cohort 3: 3 to <7 Years: Expanded            |
| Reporting group description:<br>Participants who are 3 to <7 years of age received a pediatric formulation of EBR/GZR 25 mg/50 mg once daily for 12 weeks. The Expanded cohort consists of 11 participants enrolled after the Mini Cohort of 7 participants.  |  |

### Primary: Area Under the Plasma Concentration-Time Curve from Dosing to 24 Hours Postdose (AUC<sub>0-24hr</sub>) of EBR at Steady State

|   |  |
|---|--|
| End point title   | Area Under the Plasma Concentration-Time Curve from Dosing to 24 Hours Postdose (AUC <sub>0-24hr</sub> ) of EBR at Steady State <sup>[1]</sup> |
| End point description:<br>The AUC <sub>0-24hr</sub> of EBR at steady state (Week 4) was determined in each cohort. All randomized and treated participants who complied with the protocol sufficiently to ensure that their pharmacokinetic (PK) data was likely to exhibit the effects of treatment, according to the underlying scientific model, are included. |  |
| End point type  | Primary  |
| End point timeframe:<br>Week 4: Predose and 0.5, 1, 2, 3, 4, 6, 8, 10, and 24 hours postdose  |  |
| Notes:<br>[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.<br>Justification: Per protocol, only descriptive statistics are presented.  |  |

| End point values                         | Age Cohort 1:<br>12 to <18<br>Years: Mini and<br>Expanded | Age Cohort 2:<br>7 to <12<br>Years: Mini and<br>Expanded | Age Cohort 3:<br>3 to <7 Years:<br>Mini | Age Cohort 3:<br>3 to <7 Years:<br>Expanded |
|--|---|--|---|---|
| Subject group type                       | Reporting group   | Reporting group  | Reporting group                         | Reporting group                             |
| Number of subjects analysed              | 22  | 17   | 7                                       | 11  |
| Units: µM*hr                             |   |  |   |   |
| geometric mean (confidence interval 95%) | 2.41 (1.97 to 2.94)                                       | 2.79 (2.31 to 3.37)                                      | 1.71 (1.36 to 2.15)                     | 3.15 (2.52 to 3.96)                         |

## Statistical analyses

No statistical analyses for this end point

### Primary: Maximum Plasma Concentration (Cmax) of EBR

|                 |   |
|-----------------|---|
| End point title | Maximum Plasma Concentration (Cmax) of EBR <sup>[2]</sup> |
|-----------------|---|

End point description:

The Cmax of EBR at steady state (Week 4) was determined in each cohort. All randomized and treated participants who complied with the protocol sufficiently to ensure that their PK data was likely to exhibit the effects of treatment, according to the underlying scientific model, are included.

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

End point timeframe:

Week 4: Predose and 0.5, 1, 2, 3, 4, 6, 8, 10, and 24 hours postdose

Notes:

[2] - 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: Per protocol, only descriptive statistics are presented.

| End point values                            | Age Cohort 1:<br>12 to <18<br>Years: Mini and<br>Expanded | Age Cohort 2:<br>7 to <12<br>Years: Mini and<br>Expanded | Age Cohort 3:<br>3 to <7 Years:<br>Mini | Age Cohort 3:<br>3 to <7 Years:<br>Expanded |
|---|---|--|---|---|
| Subject group type                          | Reporting group   | Reporting group  | Reporting group                         | Reporting group                             |
| Number of subjects analysed                 | 22  | 17   | 7                                       | 11  |
| Units: µM                                   |   |  |   |   |
| geometric mean (confidence interval<br>95%) | 0.19 (0.15 to<br>0.23)                                    | 0.21 (0.17 to<br>0.25)                                   | 0.14 (0.11 to<br>0.19)                  | 0.28 (0.22 to<br>0.36)                      |

## Statistical analyses

No statistical analyses for this end point

### Primary: Steady State Predose Drug Concentration (Ctough) of EBR

|                 |  |
|-----------------|--|
| End point title | Steady State Predose Drug Concentration (Ctough) of EBR <sup>[3]</sup> |
|-----------------|--|

End point description:

The Ctough of EBR at steady state (Week 4) was determined at steady state prior to dosing in each cohort. All randomized and treated participants who complied with the protocol sufficiently to ensure that their PK data was likely to exhibit the effects of treatment, according to the underlying scientific model, are included. One participant in Age Cohort 2: 7 to <12 Years: Mini and Expanded had missing Ctough data.

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

End point timeframe:

Week 4: Predose

Notes:

[3] - 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: Per protocol, only descriptive statistics are presented.

| End point values                         | Age Cohort 1:<br>12 to <18<br>Years: Mini and<br>Expanded | Age Cohort 2:<br>7 to <12<br>Years: Mini and<br>Expanded | Age Cohort 3:<br>3 to <7 Years:<br>Mini | Age Cohort 3:<br>3 to <7 Years:<br>Expanded |
|--|---|--|---|---|
| Subject group type                       | Reporting group   | Reporting group  | Reporting group                         | Reporting group                             |
| Number of subjects analysed              | 22  | 16   | 7                                       | 11  |
| Units: nM                                |   |  |   |   |
| geometric mean (confidence interval 95%) | 59.76 (47.20 to 75.67)                                    | 59.43 (48.67 to 72.58)                                   | 34.61 (28.00 to 42.77)                  | 68.92 (54.32 to 87.44)                      |

## Statistical analyses

No statistical analyses for this end point

### Primary: Apparent Clearance (CL/F) of EBR at Steady State

|                 |   |
|-----------------|---|
| End point title | Apparent Clearance (CL/F) of EBR at Steady State <sup>[4]</sup> |
|-----------------|---|

End point description:

The CL/F of EBR at steady state (Week 4) was determined in each cohort. All randomized and treated participants who complied with the protocol sufficiently to ensure that their PK data was likely to exhibit the effects of treatment, according to the underlying scientific model, are included.

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

End point timeframe:

Week 4: Predose and 0.5, 1, 2, 3, 4, 6, 8, 10, and 24 hours postdose

Notes:

[4] - 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: Per protocol, only descriptive statistics are presented.

| End point values                         | Age Cohort 1:<br>12 to <18<br>Years: Mini and<br>Expanded | Age Cohort 2:<br>7 to <12<br>Years: Mini and<br>Expanded | Age Cohort 3:<br>3 to <7 Years:<br>Mini | Age Cohort 3:<br>3 to <7 Years:<br>Expanded |
|--|---|--|---|---|
| Subject group type                       | Reporting group   | Reporting group  | Reporting group                         | Reporting group                             |
| Number of subjects analysed              | 22  | 17   | 7                                       | 11  |
| Units: L/hr                              |   |  |   |   |
| geometric mean (confidence interval 95%) | 23.53 (19.25 to 28.75)                                    | 12.21 (10.10 to 14.75)                                   | 9.94 (7.89 to 12.53)                    | 8.98 (7.16 to 11.27)                        |

## Statistical analyses

No statistical analyses for this end point

### Primary: AUC0-24hr of GZR at Steady State

|                 |   |
|-----------------|---|
| End point title | AUC0-24hr of GZR at Steady State <sup>[5]</sup> |
|-----------------|---|

End point description:

The AUC0-24hr of GZR at steady state (Week 4) was determined in each cohort. All randomized and treated participants who complied with the protocol sufficiently to ensure that their PK data was likely to exhibit the effects of treatment, according to the underlying scientific model, are included.

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

End point timeframe:

Week 4: Predose and 0.5, 1, 2, 3, 4, 6, 8, 10, and 24 hours postdose

Notes:

[5] - 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: Per protocol, only descriptive statistics are presented.

| End point values                            | Age Cohort 1:<br>12 to <18<br>Years: Mini and<br>Expanded | Age Cohort 2:<br>7 to <12<br>Years: Mini and<br>Expanded | Age Cohort 3:<br>3 to <7 Years:<br>Mini | Age Cohort 3:<br>3 to <7 Years:<br>Expanded |
|---|---|--|---|---|
| Subject group type                          | Reporting group   | Reporting group  | Reporting group                         | Reporting group                             |
| Number of subjects analysed                 | 22  | 17   | 7                                       | 11  |
| Units: $\mu\text{M}\cdot\text{hr}$          |   |  |   |   |
| geometric mean (confidence interval<br>95%) | 1.45 (1.08 to<br>1.94)                                    | 1.42 (1.00 to<br>2.02)                                   | 0.77 (0.48 to<br>1.23)                  | 1.66 (1.16 to<br>2.39)                      |

## Statistical analyses

No statistical analyses for this end point

### Primary: Cmax of GZR

|                 |                            |
|-----------------|----------------------------|
| End point title | Cmax of GZR <sup>[6]</sup> |
|-----------------|----------------------------|

End point description:

The Cmax of GZR at steady state (Week 4) was determined in each cohort. All randomized and treated participants who complied with the protocol sufficiently to ensure that their PK data was likely to exhibit the effects of treatment, according to the underlying scientific model, are included.

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

End point timeframe:

Week 4: Predose and 0.5, 1, 2, 3, 4, 6, 8, 10, and 24 hours postdose

Notes:

[6] - 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: Per protocol, only descriptive statistics are presented.

| End point values                            | Age Cohort 1:<br>12 to <18<br>Years: Mini and<br>Expanded | Age Cohort 2:<br>7 to <12<br>Years: Mini and<br>Expanded | Age Cohort 3:<br>3 to <7 Years:<br>Mini | Age Cohort 3:<br>3 to <7 Years:<br>Expanded |
|---|---|--|---|---|
| Subject group type                          | Reporting group   | Reporting group  | Reporting group                         | Reporting group                             |
| Number of subjects analysed                 | 22  | 17   | 7                                       | 11  |
| Units: $\mu\text{M}$                        |   |  |   |   |
| geometric mean (confidence interval<br>95%) | 0.25 (0.17 to<br>0.35)                                    | 0.19 (0.12 to<br>0.31)                                   | 0.09 (0.05 to<br>0.18)                  | 0.29 (0.18 to<br>0.47)                      |

## Statistical analyses

No statistical analyses for this end point

### Primary: Ctrough of GZR

|  |                               |
|--|-------------------------------|
| End point title  | Ctrough of GZR <sup>[7]</sup> |
| End point description:<br>The Ctrough of GZR at steady state (Week 4) was determined at steady state prior to dosing in each cohort. All randomized and treated participants who complied with the protocol sufficiently to ensure that their PK data was likely to exhibit the effects of treatment, according to the underlying scientific model, are included. One participant in Age Cohort 2: 7 to <12 Years: Mini and Expanded had missing Ctrough data. |                               |
| End point type   | Primary                       |
| End point timeframe:<br>Week 4: Predose  |                               |

Notes:

[7] - 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: Per protocol, only descriptive statistics are presented.

| End point values                         | Age Cohort 1:<br>12 to <18<br>Years: Mini and<br>Expanded | Age Cohort 2:<br>7 to <12<br>Years: Mini and<br>Expanded | Age Cohort 3:<br>3 to <7 Years:<br>Mini | Age Cohort 3:<br>3 to <7 Years:<br>Expanded |
|--|---|--|---|---|
| Subject group type                       | Reporting group   | Reporting group  | Reporting group                         | Reporting group                             |
| Number of subjects analysed              | 22  | 16   | 7                                       | 11  |
| Units: nM                                |   |  |   |   |
| geometric mean (confidence interval 95%) | 16.20 (12.27 to 21.38)                                    | 16.27 (11.97 to 22.10)                                   | 13.79 (9.55 to 19.90)                   | 16.17 (12.78 to 20.45)                      |

## Statistical analyses

No statistical analyses for this end point

## Primary: CL/F of GZR at Steady State

|   |  |
|---|--|
| End point title   | CL/F of GZR at Steady State <sup>[8]</sup> |
| End point description:<br>The CL/F of GZR at steady state (Week 4) was determined in each cohort. No participants are included in the analysis as the CL/F of GZR was not calculable due to nonlinear PK. |  |
| End point type  | Primary                                    |
| End point timeframe:<br>Week 4: Predose and 0.5, 1, 2, 3, 4, 6, 8, 10, and 24 hours postdose  |  |

Notes:

[8] - 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: Per protocol, only descriptive statistics are presented.

| End point values                                    | Age Cohort 1:<br>12 to <18<br>Years: Mini and<br>Expanded | Age Cohort 2:<br>7 to <12<br>Years: Mini and<br>Expanded | Age Cohort 3:<br>3 to <7 Years:<br>Mini | Age Cohort 3:<br>3 to <7 Years:<br>Expanded |
|---|---|--|---|---|
| Subject group type                                  | Reporting group   | Reporting group  | Reporting group                         | Reporting group                             |
| Number of subjects analysed                         | 0 <sup>[9]</sup>  | 0 <sup>[10]</sup>  | 0 <sup>[11]</sup>                       | 0 <sup>[12]</sup>                           |
| Units: L/hr   |   |  |   |   |
| geometric mean (geometric coefficient of variation) | ()  | ()   | ()                                      | ()  |

Notes:

[9] - CL/F of GZR was not calculable due to nonlinear PK.

[10] - CL/F of GZR was not calculable due to nonlinear PK.

[11] - CL/F of GZR was not calculable due to nonlinear PK.

[12] - CL/F of GZR was not calculable due to nonlinear PK.

## Statistical analyses

No statistical analyses for this end point

### Secondary: Percentage of Participants with $\geq 1$ Adverse Event (AE)

|                 |   |
|-----------------|---|
| End point title | Percentage of Participants with $\geq 1$ Adverse Event (AE) |
|-----------------|---|

End point description:

The percentage of participants with  $\geq 1$  AE is reported in each cohort. An AE is any untoward medical occurrence in a clinical study participant, temporally associated with the use of study treatment, whether or not considered related to the study treatment. All randomized participants who received  $\geq 1$  dose of study drug are included.

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

End point timeframe:

Up to 36 weeks

| End point values                  | Age Cohort 1:<br>12 to <18<br>Years: Mini and<br>Expanded | Age Cohort 2:<br>7 to <12<br>Years: Mini and<br>Expanded | Age Cohort 3:<br>3 to <7 Years:<br>Mini | Age Cohort 3:<br>3 to <7 Years:<br>Expanded |
|-----------------------------------|---|--|---|---|
| Subject group type                | Reporting group   | Reporting group  | Reporting group                         | Reporting group                             |
| Number of subjects analysed       | 22  | 17   | 7                                       | 11  |
| Units: Percentage of Participants |   |  |   |   |
| number (not applicable)           | 81.8  | 76.5   | 85.7                                    | 81.8  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Percentage of Participants Discontinuing Study Treatment due to an AE

|                 |   |
|-----------------|---|
| End point title | Percentage of Participants Discontinuing Study Treatment due to an AE |
|-----------------|---|

End point description:

The percentage of participants discontinuing study therapy due to an AE is reported in each cohort. An AE is any untoward medical occurrence in a clinical study participant, temporally associated with the use of study treatment, whether or not considered related to the study treatment. All randomized participants who received  $\geq 1$  dose of study drug are included.

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

End point timeframe:

Up to 12 weeks

| End point values                  | Age Cohort 1:<br>12 to <18<br>Years: Mini and<br>Expanded | Age Cohort 2:<br>7 to <12<br>Years: Mini and<br>Expanded | Age Cohort 3:<br>3 to <7 Years:<br>Mini | Age Cohort 3:<br>3 to <7 Years:<br>Expanded |
|-----------------------------------|---|--|---|---|
| Subject group type                | Reporting group   | Reporting group  | Reporting group                         | Reporting group                             |
| Number of subjects analysed       | 22  | 17   | 7                                       | 11  |
| Units: Percentage of Participants |   |  |   |   |
| number (not applicable)           | 0.0   | 0.0  | 0.0                                     | 0.0   |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Percentage of Participants With Sustained Virologic Response 12 Weeks After Completing Treatment (SVR12)

|  |  |
|--|--|
| End point title  | Percentage of Participants With Sustained Virologic Response 12 Weeks After Completing Treatment (SVR12) |
| End point description:<br>The percentage of participants achieving SVR12, defined as hepatitis C virus (HCV) ribonucleic acid (RNA) < lower limit of quantification (LLOQ) 12 weeks after completing study therapy, was determined in each cohort. All randomized participants who received ≥1 dose of study treatment are included. |  |
| End point type   | Secondary  |
| End point timeframe:<br>Week 24  |  |

| End point values                  | Age Cohort 1:<br>12 to <18<br>Years: Mini and<br>Expanded | Age Cohort 2:<br>7 to <12<br>Years: Mini and<br>Expanded | Age Cohort 3:<br>3 to <7 Years:<br>Mini | Age Cohort 3:<br>3 to <7 Years:<br>Expanded |
|-----------------------------------|---|--|---|---|
| Subject group type                | Reporting group   | Reporting group  | Reporting group                         | Reporting group                             |
| Number of subjects analysed       | 22  | 17   | 7                                       | 11  |
| Units: Percentage of Participants |   |  |   |   |
| number (confidence interval 95%)  | 100.0 (84.6 to 100.0)                                     | 100.0 (80.5 to 100.0)                                    | 100.0 (59.0 to 100.0)                   | 100.0 (71.5 to 100.0)                       |

### Statistical analyses

No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Up to 36 weeks for nonserious AEs (NSAEs) and serious AEs (SAEs), and up to approximately 49 weeks for all-cause mortality.

Adverse event reporting additional description:

All participants who received  $\geq 1$  dose of study drug are included. All-cause mortality is based on all randomized participants.

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

### Dictionary used

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

|                    |           |
|--------------------|-----------|
| Dictionary version | 22.1/23.0 |
|--------------------|-----------|

### Reporting groups

|                       |                               |
|-----------------------|-------------------------------|
| Reporting group title | Age Cohort 1: 12 to <18 years |
|-----------------------|-------------------------------|

Reporting group description:

Pediatric participants 12 to <18 years of age received elbasvir (EBR) 50 mg / grazoprevir (GZR) 100 mg fixed dose combination (FDC) tablets once daily for 12 weeks.

|                       |                              |
|-----------------------|------------------------------|
| Reporting group title | Age Cohort 2: 7 to <12 years |
|-----------------------|------------------------------|

Reporting group description:

Participants who are 7 to <12 years of age received EBR/GZR 30 mg/60 mg pediatric granules once daily for 12 weeks.

|                       |                                  |
|-----------------------|----------------------------------|
| Reporting group title | Age Cohort 3 Mini: 3 to <7 years |
|-----------------------|----------------------------------|

Reporting group description:

Participants who are 3 to <7 years of age received a pediatric formulation of EBR/GZR (weight-based dosing) once daily for 12 weeks. The Mini cohort consists of the first 7 participants enrolled into Age Cohort 3. Participants <20 kg received EBR/GZR 15 mg/30 mg, and participants  $\geq 20$  kg received EBR/GZR 15 mg/50 mg.

|                       |                                      |
|-----------------------|--------------------------------------|
| Reporting group title | Age Cohort 3 Expanded: 3 to <7 years |
|-----------------------|--------------------------------------|

Reporting group description:

Participants who are 3 to <7 years of age received a pediatric formulation of EBR/GZR 25 mg/50 mg once daily for 12 weeks. The Expanded cohort consists of 11 participants enrolled after the Mini Cohort of 7 participants.

| Serious adverse events                            | Age Cohort 1: 12 to <18 years | Age Cohort 2: 7 to <12 years | Age Cohort 3 Mini: 3 to <7 years |
|---|-------------------------------|------------------------------|----------------------------------|
| Total subjects affected by serious adverse events |                               |                              |                                  |
| subjects affected / exposed                       | 1 / 22 (4.55%)                | 0 / 17 (0.00%)               | 0 / 7 (0.00%)                    |
| number of deaths (all causes)                     | 0                             | 0                            | 0                                |
| number of deaths resulting from adverse events    | 0                             | 0                            | 0                                |
| Injury, poisoning and procedural complications    |                               |                              |                                  |
| Hand fracture                                     |                               |                              |                                  |
| subjects affected / exposed                       | 1 / 22 (4.55%)                | 0 / 17 (0.00%)               | 0 / 7 (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                            |
| Gastrointestinal disorders                        |                               |                              |                                  |



|   |                |                |               |
|---|----------------|----------------|---------------|
| Dyspepsia                                       |                |                |               |
| subjects affected / exposed                     | 0 / 22 (0.00%) | 0 / 17 (0.00%) | 0 / 7 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 0          | 0 / 0         |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          | 0 / 0         |

| Serious adverse events                            | Age Cohort 3<br>Expanded: 3 to <7 years |  |  |
|---|---|--|--|
| Total subjects affected by serious adverse events |   |  |  |
| subjects affected / exposed                       | 1 / 11 (9.09%)                          |  |  |
| number of deaths (all causes)                     | 0                                       |  |  |
| number of deaths resulting from adverse events    | 0                                       |  |  |
| Injury, poisoning and procedural complications    |   |  |  |
| Hand fracture                                     |   |  |  |
| subjects affected / exposed                       | 0 / 11 (0.00%)                          |  |  |
| occurrences causally related to treatment / all   | 0 / 0                                   |  |  |
| deaths causally related to treatment / all        | 0 / 0                                   |  |  |
| Gastrointestinal disorders                        |   |  |  |
| Dyspepsia   |   |  |  |
| subjects affected / exposed                       | 1 / 11 (9.09%)                          |  |  |
| occurrences causally related to treatment / all   | 0 / 1                                   |  |  |
| deaths causally related to treatment / all        | 0 / 0                                   |  |  |

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

| Non-serious adverse events                            | Age Cohort 1: 12 to <18 years | Age Cohort 2: 7 to <12 years | Age Cohort 3 Mini: 3 to <7 years |
|---|-------------------------------|------------------------------|----------------------------------|
| Total subjects affected by non-serious adverse events |                               |                              |                                  |
| subjects affected / exposed                           | 17 / 22 (77.27%)              | 13 / 17 (76.47%)             | 6 / 7 (85.71%)                   |
| Investigations  |                               |                              |                                  |
| Alanine aminotransferase increased                    |                               |                              |                                  |
| subjects affected / exposed                           | 0 / 22 (0.00%)                | 1 / 17 (5.88%)               | 0 / 7 (0.00%)                    |
| occurrences (all)                                     | 0                             | 1                            | 0                                |
| Blood calcium decreased                               |                               |                              |                                  |
| subjects affected / exposed                           | 0 / 22 (0.00%)                | 0 / 17 (0.00%)               | 1 / 7 (14.29%)                   |
| occurrences (all)                                     | 0                             | 0                            | 1                                |
| Body temperature increased                            |                               |                              |                                  |

|  |                       |                      |                     |
|--|-----------------------|----------------------|---------------------|
| subjects affected / exposed<br>occurrences (all)   | 2 / 22 (9.09%)<br>2   | 0 / 17 (0.00%)<br>0  | 0 / 7 (0.00%)<br>0  |
| Neoplasms benign, malignant and<br>unspecified (incl cysts and polyps)<br>Skin papilloma<br>subjects affected / exposed<br>occurrences (all) | 0 / 22 (0.00%)<br>0   | 1 / 17 (5.88%)<br>1  | 0 / 7 (0.00%)<br>0  |
| Injury, poisoning and procedural<br>complications<br>Accidental overdose<br>subjects affected / exposed<br>occurrences (all)                 | 1 / 22 (4.55%)<br>1   | 0 / 17 (0.00%)<br>0  | 1 / 7 (14.29%)<br>1 |
| Animal bite<br>subjects affected / exposed<br>occurrences (all)  | 0 / 22 (0.00%)<br>0   | 1 / 17 (5.88%)<br>1  | 0 / 7 (0.00%)<br>0  |
| Contusion<br>subjects affected / exposed<br>occurrences (all)  | 0 / 22 (0.00%)<br>0   | 1 / 17 (5.88%)<br>2  | 0 / 7 (0.00%)<br>0  |
| Intentional overdose<br>subjects affected / exposed<br>occurrences (all)   | 0 / 22 (0.00%)<br>0   | 0 / 17 (0.00%)<br>0  | 1 / 7 (14.29%)<br>1 |
| Post procedural discomfort<br>subjects affected / exposed<br>occurrences (all)   | 0 / 22 (0.00%)<br>0   | 1 / 17 (5.88%)<br>1  | 0 / 7 (0.00%)<br>0  |
| Skin laceration<br>subjects affected / exposed<br>occurrences (all)  | 0 / 22 (0.00%)<br>0   | 1 / 17 (5.88%)<br>1  | 1 / 7 (14.29%)<br>1 |
| Upper limb fracture<br>subjects affected / exposed<br>occurrences (all)  | 0 / 22 (0.00%)<br>0   | 0 / 17 (0.00%)<br>0  | 1 / 7 (14.29%)<br>1 |
| Nervous system disorders<br>Dizziness<br>subjects affected / exposed<br>occurrences (all)  | 3 / 22 (13.64%)<br>3  | 0 / 17 (0.00%)<br>0  | 0 / 7 (0.00%)<br>0  |
| Headache<br>subjects affected / exposed<br>occurrences (all)   | 8 / 22 (36.36%)<br>14 | 2 / 17 (11.76%)<br>4 | 0 / 7 (0.00%)<br>0  |
| General disorders and administration   |                       |                      |                     |

|   |                 |                 |                |
|---|-----------------|-----------------|----------------|
| site conditions                                 |                 |                 |                |
| Energy increased                                |                 |                 |                |
| subjects affected / exposed                     | 0 / 22 (0.00%)  | 1 / 17 (5.88%)  | 0 / 7 (0.00%)  |
| occurrences (all)                               | 0               | 1               | 0              |
| Fatigue   |                 |                 |                |
| subjects affected / exposed                     | 2 / 22 (9.09%)  | 2 / 17 (11.76%) | 1 / 7 (14.29%) |
| occurrences (all)                               | 2               | 2               | 1              |
| Pyrexia   |                 |                 |                |
| subjects affected / exposed                     | 3 / 22 (13.64%) | 0 / 17 (0.00%)  | 0 / 7 (0.00%)  |
| occurrences (all)                               | 3               | 0               | 0              |
| Gastrointestinal disorders                      |                 |                 |                |
| Abdominal pain                                  |                 |                 |                |
| subjects affected / exposed                     | 1 / 22 (4.55%)  | 1 / 17 (5.88%)  | 1 / 7 (14.29%) |
| occurrences (all)                               | 1               | 1               | 1              |
| Abdominal pain upper                            |                 |                 |                |
| subjects affected / exposed                     | 3 / 22 (13.64%) | 1 / 17 (5.88%)  | 0 / 7 (0.00%)  |
| occurrences (all)                               | 5               | 1               | 0              |
| Constipation                                    |                 |                 |                |
| subjects affected / exposed                     | 1 / 22 (4.55%)  | 0 / 17 (0.00%)  | 1 / 7 (14.29%) |
| occurrences (all)                               | 1               | 0               | 1              |
| Diarrhoea                                       |                 |                 |                |
| subjects affected / exposed                     | 1 / 22 (4.55%)  | 1 / 17 (5.88%)  | 1 / 7 (14.29%) |
| occurrences (all)                               | 1               | 1               | 1              |
| Gastritis                                       |                 |                 |                |
| subjects affected / exposed                     | 0 / 22 (0.00%)  | 0 / 17 (0.00%)  | 0 / 7 (0.00%)  |
| occurrences (all)                               | 0               | 0               | 0              |
| Nausea  |                 |                 |                |
| subjects affected / exposed                     | 4 / 22 (18.18%) | 0 / 17 (0.00%)  | 0 / 7 (0.00%)  |
| occurrences (all)                               | 5               | 0               | 0              |
| Vomiting  |                 |                 |                |
| subjects affected / exposed                     | 3 / 22 (13.64%) | 1 / 17 (5.88%)  | 0 / 7 (0.00%)  |
| occurrences (all)                               | 3               | 1               | 0              |
| Respiratory, thoracic and mediastinal disorders |                 |                 |                |
| Cough   |                 |                 |                |
| subjects affected / exposed                     | 1 / 22 (4.55%)  | 1 / 17 (5.88%)  | 1 / 7 (14.29%) |
| occurrences (all)                               | 1               | 1               | 1              |

|  |                |                |                |
|--|----------------|----------------|----------------|
| Epistaxis                              |                |                |                |
| subjects affected / exposed            | 1 / 22 (4.55%) | 0 / 17 (0.00%) | 1 / 7 (14.29%) |
| occurrences (all)                      | 1              | 0              | 1              |
| Oropharyngeal pain                     |                |                |                |
| subjects affected / exposed            | 1 / 22 (4.55%) | 1 / 17 (5.88%) | 0 / 7 (0.00%)  |
| occurrences (all)                      | 1              | 1              | 0              |
| Rhinitis allergic                      |                |                |                |
| subjects affected / exposed            | 0 / 22 (0.00%) | 0 / 17 (0.00%) | 1 / 7 (14.29%) |
| occurrences (all)                      | 0              | 0              | 1              |
| Rhinorrhoea                            |                |                |                |
| subjects affected / exposed            | 1 / 22 (4.55%) | 1 / 17 (5.88%) | 0 / 7 (0.00%)  |
| occurrences (all)                      | 1              | 1              | 0              |
| Sneezing                               |                |                |                |
| subjects affected / exposed            | 0 / 22 (0.00%) | 1 / 17 (5.88%) | 0 / 7 (0.00%)  |
| occurrences (all)                      | 0              | 1              | 0              |
| Skin and subcutaneous tissue disorders |                |                |                |
| Alopecia                               |                |                |                |
| subjects affected / exposed            | 0 / 22 (0.00%) | 1 / 17 (5.88%) | 0 / 7 (0.00%)  |
| occurrences (all)                      | 0              | 1              | 0              |
| Rash                                   |                |                |                |
| subjects affected / exposed            | 0 / 22 (0.00%) | 1 / 17 (5.88%) | 0 / 7 (0.00%)  |
| occurrences (all)                      | 0              | 1              | 0              |
| Urticaria                              |                |                |                |
| subjects affected / exposed            | 1 / 22 (4.55%) | 1 / 17 (5.88%) | 0 / 7 (0.00%)  |
| occurrences (all)                      | 1              | 1              | 0              |
| Psychiatric disorders                  |                |                |                |
| Anxiety                                |                |                |                |
| subjects affected / exposed            | 0 / 22 (0.00%) | 1 / 17 (5.88%) | 0 / 7 (0.00%)  |
| occurrences (all)                      | 0              | 1              | 0              |
| Behaviour disorder                     |                |                |                |
| subjects affected / exposed            | 0 / 22 (0.00%) | 1 / 17 (5.88%) | 0 / 7 (0.00%)  |
| occurrences (all)                      | 0              | 1              | 0              |
| Provisional tic disorder               |                |                |                |
| subjects affected / exposed            | 0 / 22 (0.00%) | 0 / 17 (0.00%) | 0 / 7 (0.00%)  |
| occurrences (all)                      | 0              | 0              | 0              |
| Restlessness                           |                |                |                |

|  |                      |                     |                     |
|--|----------------------|---------------------|---------------------|
| subjects affected / exposed<br>occurrences (all)   | 0 / 22 (0.00%)<br>0  | 0 / 17 (0.00%)<br>0 | 1 / 7 (14.29%)<br>1 |
| Renal and urinary disorders<br>Proteinuria<br>subjects affected / exposed<br>occurrences (all) | 1 / 22 (4.55%)<br>2  | 1 / 17 (5.88%)<br>1 | 0 / 7 (0.00%)<br>0  |
| Infections and infestations<br>Bronchitis<br>subjects affected / exposed<br>occurrences (all)  | 0 / 22 (0.00%)<br>0  | 0 / 17 (0.00%)<br>0 | 1 / 7 (14.29%)<br>1 |
| Ear infection<br>subjects affected / exposed<br>occurrences (all)                              | 0 / 22 (0.00%)<br>0  | 1 / 17 (5.88%)<br>1 | 1 / 7 (14.29%)<br>2 |
| Folliculitis<br>subjects affected / exposed<br>occurrences (all)                               | 0 / 22 (0.00%)<br>0  | 0 / 17 (0.00%)<br>0 | 0 / 7 (0.00%)<br>0  |
| Gastroenteritis<br>subjects affected / exposed<br>occurrences (all)                            | 1 / 22 (4.55%)<br>1  | 0 / 17 (0.00%)<br>0 | 0 / 7 (0.00%)<br>0  |
| Gastroenteritis viral<br>subjects affected / exposed<br>occurrences (all)                      | 1 / 22 (4.55%)<br>1  | 0 / 17 (0.00%)<br>0 | 1 / 7 (14.29%)<br>1 |
| Herpes zoster<br>subjects affected / exposed<br>occurrences (all)                              | 0 / 22 (0.00%)<br>0  | 1 / 17 (5.88%)<br>1 | 0 / 7 (0.00%)<br>0  |
| Impetigo<br>subjects affected / exposed<br>occurrences (all)                                   | 0 / 22 (0.00%)<br>0  | 0 / 17 (0.00%)<br>0 | 1 / 7 (14.29%)<br>1 |
| Influenza<br>subjects affected / exposed<br>occurrences (all)                                  | 0 / 22 (0.00%)<br>0  | 0 / 17 (0.00%)<br>0 | 0 / 7 (0.00%)<br>0  |
| Nasopharyngitis<br>subjects affected / exposed<br>occurrences (all)                            | 4 / 22 (18.18%)<br>7 | 1 / 17 (5.88%)<br>2 | 1 / 7 (14.29%)<br>1 |
| Otitis media   |                      |                     |                     |

|   |                |                 |                |
|---|----------------|-----------------|----------------|
| subjects affected / exposed             | 1 / 22 (4.55%) | 0 / 17 (0.00%)  | 0 / 7 (0.00%)  |
| occurrences (all)                       | 1              | 0               | 0              |
| Pharyngitis streptococcal               |                |                 |                |
| subjects affected / exposed             | 0 / 22 (0.00%) | 1 / 17 (5.88%)  | 0 / 7 (0.00%)  |
| occurrences (all)                       | 0              | 1               | 0              |
| Respiratory tract infection             |                |                 |                |
| subjects affected / exposed             | 0 / 22 (0.00%) | 2 / 17 (11.76%) | 1 / 7 (14.29%) |
| occurrences (all)                       | 0              | 4               | 1              |
| Rhinitis                                |                |                 |                |
| subjects affected / exposed             | 2 / 22 (9.09%) | 0 / 17 (0.00%)  | 0 / 7 (0.00%)  |
| occurrences (all)                       | 2              | 0               | 0              |
| Sinusitis                               |                |                 |                |
| subjects affected / exposed             | 0 / 22 (0.00%) | 0 / 17 (0.00%)  | 0 / 7 (0.00%)  |
| occurrences (all)                       | 0              | 0               | 0              |
| Tonsillitis                             |                |                 |                |
| subjects affected / exposed             | 0 / 22 (0.00%) | 1 / 17 (5.88%)  | 0 / 7 (0.00%)  |
| occurrences (all)                       | 0              | 1               | 0              |
| Upper respiratory tract infection       |                |                 |                |
| subjects affected / exposed             | 0 / 22 (0.00%) | 3 / 17 (17.65%) | 1 / 7 (14.29%) |
| occurrences (all)                       | 0              | 3               | 1              |
| Viral upper respiratory tract infection |                |                 |                |
| subjects affected / exposed             | 0 / 22 (0.00%) | 0 / 17 (0.00%)  | 0 / 7 (0.00%)  |
| occurrences (all)                       | 0              | 0               | 0              |
| Metabolism and nutrition disorders      |                |                 |                |
| Decreased appetite                      |                |                 |                |
| subjects affected / exposed             | 0 / 22 (0.00%) | 1 / 17 (5.88%)  | 0 / 7 (0.00%)  |
| occurrences (all)                       | 0              | 1               | 0              |
| Hypocalcaemia                           |                |                 |                |
| subjects affected / exposed             | 0 / 22 (0.00%) | 0 / 17 (0.00%)  | 0 / 7 (0.00%)  |
| occurrences (all)                       | 0              | 0               | 0              |

|  |  |  |  |
|--|--|--|--|
| <b>Non-serious adverse events</b>                        | Age Cohort 3<br>Expanded: 3 to <7<br>years |  |  |
| Total subjects affected by non-serious<br>adverse events |  |  |  |
| subjects affected / exposed                              | 9 / 11 (81.82%)                            |  |  |
| Investigations   |  |  |  |

|  |                     |  |  |
|--|---------------------|--|--|
| Alanine aminotransferase increased<br>subjects affected / exposed<br>occurrences (all)   | 0 / 11 (0.00%)<br>0 |  |  |
| Blood calcium decreased<br>subjects affected / exposed<br>occurrences (all)  | 0 / 11 (0.00%)<br>0 |  |  |
| Body temperature increased<br>subjects affected / exposed<br>occurrences (all)   | 0 / 11 (0.00%)<br>0 |  |  |
| Neoplasms benign, malignant and<br>unspecified (incl cysts and polyps)<br>Skin papilloma<br>subjects affected / exposed<br>occurrences (all) | 0 / 11 (0.00%)<br>0 |  |  |
| Injury, poisoning and procedural<br>complications<br>Accidental overdose<br>subjects affected / exposed<br>occurrences (all)                 | 0 / 11 (0.00%)<br>0 |  |  |
| Animal bite<br>subjects affected / exposed<br>occurrences (all)  | 0 / 11 (0.00%)<br>0 |  |  |
| Contusion<br>subjects affected / exposed<br>occurrences (all)  | 0 / 11 (0.00%)<br>0 |  |  |
| Intentional overdose<br>subjects affected / exposed<br>occurrences (all)   | 1 / 11 (9.09%)<br>3 |  |  |
| Post procedural discomfort<br>subjects affected / exposed<br>occurrences (all)   | 0 / 11 (0.00%)<br>0 |  |  |
| Skin laceration<br>subjects affected / exposed<br>occurrences (all)  | 0 / 11 (0.00%)<br>0 |  |  |
| Upper limb fracture<br>subjects affected / exposed<br>occurrences (all)  | 0 / 11 (0.00%)<br>0 |  |  |
| Nervous system disorders   |                     |  |  |

|  |                      |  |  |
|--|----------------------|--|--|
| Dizziness<br>subjects affected / exposed<br>occurrences (all)  | 0 / 11 (0.00%)<br>0  |  |  |
| Headache<br>subjects affected / exposed<br>occurrences (all)   | 2 / 11 (18.18%)<br>3 |  |  |
| General disorders and administration site conditions<br>Energy increased<br>subjects affected / exposed<br>occurrences (all) | 0 / 11 (0.00%)<br>0  |  |  |
| Fatigue<br>subjects affected / exposed<br>occurrences (all)  | 0 / 11 (0.00%)<br>0  |  |  |
| Pyrexia<br>subjects affected / exposed<br>occurrences (all)  | 0 / 11 (0.00%)<br>0  |  |  |
| Gastrointestinal disorders<br>Abdominal pain<br>subjects affected / exposed<br>occurrences (all)                             | 0 / 11 (0.00%)<br>0  |  |  |
| Abdominal pain upper<br>subjects affected / exposed<br>occurrences (all)   | 0 / 11 (0.00%)<br>0  |  |  |
| Constipation<br>subjects affected / exposed<br>occurrences (all)   | 2 / 11 (18.18%)<br>2 |  |  |
| Diarrhoea<br>subjects affected / exposed<br>occurrences (all)  | 0 / 11 (0.00%)<br>0  |  |  |
| Gastritis<br>subjects affected / exposed<br>occurrences (all)  | 1 / 11 (9.09%)<br>2  |  |  |
| Nausea<br>subjects affected / exposed<br>occurrences (all)   | 0 / 11 (0.00%)<br>0  |  |  |
| Vomiting   |                      |  |  |



|   |                 |  |  |
|---|-----------------|--|--|
| subjects affected / exposed                     | 3 / 11 (27.27%) |  |  |
| occurrences (all)                               | 5               |  |  |
| Respiratory, thoracic and mediastinal disorders |                 |  |  |
| Cough   |                 |  |  |
| subjects affected / exposed                     | 0 / 11 (0.00%)  |  |  |
| occurrences (all)                               | 0               |  |  |
| Epistaxis                                       |                 |  |  |
| subjects affected / exposed                     | 0 / 11 (0.00%)  |  |  |
| occurrences (all)                               | 0               |  |  |
| Oropharyngeal pain                              |                 |  |  |
| subjects affected / exposed                     | 1 / 11 (9.09%)  |  |  |
| occurrences (all)                               | 1               |  |  |
| Rhinitis allergic                               |                 |  |  |
| subjects affected / exposed                     | 0 / 11 (0.00%)  |  |  |
| occurrences (all)                               | 0               |  |  |
| Rhinorrhoea                                     |                 |  |  |
| subjects affected / exposed                     | 0 / 11 (0.00%)  |  |  |
| occurrences (all)                               | 0               |  |  |
| Sneezing  |                 |  |  |
| subjects affected / exposed                     | 0 / 11 (0.00%)  |  |  |
| occurrences (all)                               | 0               |  |  |
| Skin and subcutaneous tissue disorders          |                 |  |  |
| Alopecia  |                 |  |  |
| subjects affected / exposed                     | 0 / 11 (0.00%)  |  |  |
| occurrences (all)                               | 0               |  |  |
| Rash  |                 |  |  |
| subjects affected / exposed                     | 0 / 11 (0.00%)  |  |  |
| occurrences (all)                               | 0               |  |  |
| Urticaria                                       |                 |  |  |
| subjects affected / exposed                     | 0 / 11 (0.00%)  |  |  |
| occurrences (all)                               | 0               |  |  |
| Psychiatric disorders                           |                 |  |  |
| Anxiety   |                 |  |  |
| subjects affected / exposed                     | 0 / 11 (0.00%)  |  |  |
| occurrences (all)                               | 0               |  |  |
| Behaviour disorder                              |                 |  |  |

|                             |                 |  |  |
|-----------------------------|-----------------|--|--|
| subjects affected / exposed | 0 / 11 (0.00%)  |  |  |
| occurrences (all)           | 0               |  |  |
| Provisional tic disorder    |                 |  |  |
| subjects affected / exposed | 1 / 11 (9.09%)  |  |  |
| occurrences (all)           | 1               |  |  |
| Restlessness                |                 |  |  |
| subjects affected / exposed | 0 / 11 (0.00%)  |  |  |
| occurrences (all)           | 0               |  |  |
| Renal and urinary disorders |                 |  |  |
| Proteinuria                 |                 |  |  |
| subjects affected / exposed | 0 / 11 (0.00%)  |  |  |
| occurrences (all)           | 0               |  |  |
| Infections and infestations |                 |  |  |
| Bronchitis                  |                 |  |  |
| subjects affected / exposed | 2 / 11 (18.18%) |  |  |
| occurrences (all)           | 2               |  |  |
| Ear infection               |                 |  |  |
| subjects affected / exposed | 0 / 11 (0.00%)  |  |  |
| occurrences (all)           | 0               |  |  |
| Folliculitis                |                 |  |  |
| subjects affected / exposed | 1 / 11 (9.09%)  |  |  |
| occurrences (all)           | 1               |  |  |
| Gastroenteritis             |                 |  |  |
| subjects affected / exposed | 1 / 11 (9.09%)  |  |  |
| occurrences (all)           | 1               |  |  |
| Gastroenteritis viral       |                 |  |  |
| subjects affected / exposed | 1 / 11 (9.09%)  |  |  |
| occurrences (all)           | 3               |  |  |
| Herpes zoster               |                 |  |  |
| subjects affected / exposed | 0 / 11 (0.00%)  |  |  |
| occurrences (all)           | 0               |  |  |
| Impetigo                    |                 |  |  |
| subjects affected / exposed | 0 / 11 (0.00%)  |  |  |
| occurrences (all)           | 0               |  |  |
| Influenza                   |                 |  |  |

|   |                 |  |  |
|---|-----------------|--|--|
| subjects affected / exposed             | 1 / 11 (9.09%)  |  |  |
| occurrences (all)                       | 1               |  |  |
| Nasopharyngitis                         |                 |  |  |
| subjects affected / exposed             | 1 / 11 (9.09%)  |  |  |
| occurrences (all)                       | 1               |  |  |
| Otitis media                            |                 |  |  |
| subjects affected / exposed             | 1 / 11 (9.09%)  |  |  |
| occurrences (all)                       | 1               |  |  |
| Pharyngitis streptococcal               |                 |  |  |
| subjects affected / exposed             | 0 / 11 (0.00%)  |  |  |
| occurrences (all)                       | 0               |  |  |
| Respiratory tract infection             |                 |  |  |
| subjects affected / exposed             | 3 / 11 (27.27%) |  |  |
| occurrences (all)                       | 3               |  |  |
| Rhinitis                                |                 |  |  |
| subjects affected / exposed             | 0 / 11 (0.00%)  |  |  |
| occurrences (all)                       | 0               |  |  |
| Sinusitis                               |                 |  |  |
| subjects affected / exposed             | 1 / 11 (9.09%)  |  |  |
| occurrences (all)                       | 1               |  |  |
| Tonsillitis                             |                 |  |  |
| subjects affected / exposed             | 0 / 11 (0.00%)  |  |  |
| occurrences (all)                       | 0               |  |  |
| Upper respiratory tract infection       |                 |  |  |
| subjects affected / exposed             | 3 / 11 (27.27%) |  |  |
| occurrences (all)                       | 3               |  |  |
| Viral upper respiratory tract infection |                 |  |  |
| subjects affected / exposed             | 1 / 11 (9.09%)  |  |  |
| occurrences (all)                       | 1               |  |  |
| Metabolism and nutrition disorders      |                 |  |  |
| Decreased appetite                      |                 |  |  |
| subjects affected / exposed             | 0 / 11 (0.00%)  |  |  |
| occurrences (all)                       | 0               |  |  |
| Hypocalcaemia                           |                 |  |  |
| subjects affected / exposed             | 1 / 11 (9.09%)  |  |  |
| occurrences (all)                       | 1               |  |  |



## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date          | Amendment   |
|---------------|---|
| 16 March 2018 | AM02: The primary purpose of the amendment was to add an additional PK endpoint and modify dosing criteria. |

Notes:

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### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported