

**Clinical trial results:****A Double-blind, Randomized, Stratified Multi-center Trial Evaluating Conventional and Double Dose Oseltamivir in the Treatment of Immunocompromised Patients With Influenza****Summary**

|                          |                                        |
|--------------------------|----------------------------------------|
| EudraCT number           | 2006-002468-24                         |
| Trial protocol           | GB ES FR BE HU LT CZ EE IT GR BG LV DE |
| Global end of trial date | 02 May 2017                            |

**Results information**

|                                |                  |
|--------------------------------|------------------|
| Result version number          | v2 (current)     |
| This version publication date  | 16 February 2018 |
| First version publication date | 16 November 2017 |
| Version creation reason        |                  |

**Trial information****Trial identification**

|                       |         |
|-----------------------|---------|
| Sponsor protocol code | NV20234 |
|-----------------------|---------|

**Additional study identifiers**

|                                    |             |
|------------------------------------|-------------|
| ISRCTN number                      | -           |
| ClinicalTrials.gov id (NCT number) | NCT00545532 |
| WHO universal trial number (UTN)   | -           |

Notes:

**Sponsors**

|                              |                                                                                                    |
|------------------------------|----------------------------------------------------------------------------------------------------|
| Sponsor organisation name    | F. Hoffmann-La Roche AG                                                                            |
| Sponsor organisation address | Grenzacherstrasse 124, Basel, Switzerland, CH-4070                                                 |
| Public contact               | F. Hoffmann-La Roche AG, F. Hoffmann-La Roche AG, 41 616878333, global.trial_information@roche.com |
| Scientific contact           | F. Hoffmann-La Roche AG, F. Hoffmann-La Roche AG, 41 616878333, global.trial_information@roche.com |

Notes:

**Paediatric regulatory details**

|                                                                      |                     |
|----------------------------------------------------------------------|---------------------|
| Is trial part of an agreed paediatric investigation plan (PIP)       | Yes                 |
| EMA paediatric investigation plan number(s)                          | EMA-000365-PIP08-08 |
| 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                       | 02 May 2017 |
| Is this the analysis of the primary completion data? | Yes         |
| Primary completion date                              | 02 May 2017 |
| Global end of trial reached?                         | Yes         |
| Global end of trial date                             | 02 May 2017 |
| Was the trial ended prematurely?                     | No          |

Notes:

## General information about the trial

Main objective of the trial:

This 2-arm study will investigate the safety and tolerability of oseltamivir for the treatment of influenza in immunocompromised subjects and characterize the effects of oseltamivir in immunocompromised subjects on the development of resistant influenza virus.

Protection of trial subjects:

All study subjects were required to read and sign an Informed Consent Form.

Background therapy: -

Evidence for comparator: -

|                                                           |                  |
|-----------------------------------------------------------|------------------|
| Actual start date of recruitment                          | 04 February 2008 |
| Long term follow-up planned                               | Yes              |
| Long term follow-up rationale                             | Safety, Efficacy |
| Long term follow-up duration                              | 1 Months         |
| Independent data monitoring committee (IDMC) involvement? | No               |

Notes:

## Population of trial subjects

### Subjects enrolled per country

|                                      |                   |
|--------------------------------------|-------------------|
| Country: Number of subjects enrolled | Lithuania: 24     |
| Country: Number of subjects enrolled | Latvia: 15        |
| Country: Number of subjects enrolled | Hungary: 5        |
| Country: Number of subjects enrolled | Bulgaria: 3       |
| Country: Number of subjects enrolled | Estonia: 2        |
| Country: Number of subjects enrolled | Ukraine: 2        |
| Country: Number of subjects enrolled | Poland: 1         |
| Country: Number of subjects enrolled | United States: 41 |
| Country: Number of subjects enrolled | Mexico: 9         |
| Country: Number of subjects enrolled | South Africa: 40  |
| Country: Number of subjects enrolled | Argentina: 10     |
| Country: Number of subjects enrolled | Brazil: 2         |
| Country: Number of subjects enrolled | Chile: 2          |
| Country: Number of subjects enrolled | Guatemala: 2      |
| Country: Number of subjects enrolled | Belgium: 30       |
| Country: Number of subjects enrolled | Israel: 16        |
| Country: Number of subjects enrolled | Italy: 8          |
| Country: Number of subjects enrolled | Spain: 3          |

|                                    |     |
|------------------------------------|-----|
| Worldwide total number of subjects | 215 |
| EEA total number of subjects       | 91  |

Notes:

| <b>Subjects enrolled per age group</b>    |     |
|-------------------------------------------|-----|
| 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)                     | 9   |
| Adolescents (12-17 years)                 | 7   |
| Adults (18-64 years)                      | 180 |
| From 65 to 84 years                       | 18  |
| 85 years and over                         | 1   |

## Subject disposition

### Recruitment

Recruitment details:

Immunocompromised subjects with primary or secondary immunodeficiency and symptoms suggestive of influenza-like illness were recruited for this study.

### Pre-assignment

Screening details:

Rapid diagnostic test, polymerase chain reaction (PCR), or viral culture had to be positive for influenza in the 96 hours prior to first dose. Subject disposition and baseline characteristics are provided for the safety population.

### Period 1

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

### Arms

|                              |                                 |
|------------------------------|---------------------------------|
| Are arms mutually exclusive? | Yes                             |
| <b>Arm title</b>             | Experimental: Conventional dose |

Arm description:

Immunocompromised participants will receive oseltamivir syrup at a dose ranging from 30 to 75 mg based on body weight, twice daily for children (1 to 12 years old) and oseltamivir capsules 75 mg twice daily for adults/adolescents greater than or equal to ( $\geq$ 13 years old) or placebo-matched to oseltamivir twice daily over 10 days.

|                                        |                |
|----------------------------------------|----------------|
| Arm type                               | Experimental   |
| Investigational medicinal product name | oseltamivir    |
| Investigational medicinal product code |                |
| Other name                             | Tamiflu        |
| Pharmaceutical forms                   | Capsule, Syrup |
| Routes of administration               | Oral use       |

Dosage and administration details:

Dose ranging between 30 to 75 milligrams (mg) orally administered as syrup or capsules (depending on participants age and weight) twice daily for 10 days.

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

Dosage and administration details:

Placebo matched to oseltamivir administered orally twice daily for 10 days.

|                  |                           |
|------------------|---------------------------|
| <b>Arm title</b> | Experimental: Double dose |
|------------------|---------------------------|

Arm description:

Immunocompromised participants will receive oseltamivir syrup at a dose ranging from 60 to 150 mg based on body weight, twice daily for children (1 to 12 years old) and oseltamivir capsules 150 mg twice daily for adults/adolescents ( $\geq$ 13 years old) or placebo matched to oseltamivir twice daily over 10 days.

|          |              |
|----------|--------------|
| Arm type | Experimental |
|----------|--------------|

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

Dosage and administration details:

Placebo matched to oseltamivir administered orally twice daily for 10 days.

|                                        |                |
|----------------------------------------|----------------|
| Investigational medicinal product name | oseltamivir    |
| Investigational medicinal product code |                |
| Other name                             | Tamiflu        |
| Pharmaceutical forms                   | Capsule, Syrup |
| Routes of administration               | Oral use       |

Dosage and administration details:

Dose ranging between 60 to 150 mg orally administered as syrup or capsules (depending on participants age and weight) twice daily for 10 days.

| <b>Number of subjects in period 1</b> | Experimental:<br>Conventional dose | Experimental:<br>Double dose |
|---------------------------------------|------------------------------------|------------------------------|
| Started                               | 105                                | 110                          |
| Completed                             | 99                                 | 100                          |
| Not completed                         | 6                                  | 10                           |
| Death                                 | -                                  | 1                            |
| Withdrawal by Subject                 | 1                                  | 3                            |
| Lost to follow-up                     | 5                                  | 6                            |

## Baseline characteristics

### Reporting groups

|                       |                                 |
|-----------------------|---------------------------------|
| Reporting group title | Experimental: Conventional dose |
|-----------------------|---------------------------------|

Reporting group description:

Immunocompromised participants will receive oseltamivir syrup at a dose ranging from 30 to 75 mg based on body weight, twice daily for children (1 to 12 years old) and oseltamivir capsules 75 mg twice daily for adults/adolescents greater than or equal to ( $\geq$ 13 years old) or placebo-matched to oseltamivir twice daily over 10 days.

|                       |                           |
|-----------------------|---------------------------|
| Reporting group title | Experimental: Double dose |
|-----------------------|---------------------------|

Reporting group description:

Immunocompromised participants will receive oseltamivir syrup at a dose ranging from 60 to 150 mg based on body weight, twice daily for children (1 to 12 years old) and oseltamivir capsules 150 mg twice daily for adults/adolescents ( $\geq$ 13 years old) or placebo matched to oseltamivir twice daily over 10 days.

| Reporting group values                                                  | Experimental:<br>Conventional dose | Experimental:<br>Double dose | Total |
|-------------------------------------------------------------------------|------------------------------------|------------------------------|-------|
| Number of subjects                                                      | 105                                | 110                          | 215   |
| Age Categorical<br>Units: Subjects                                      |                                    |                              |       |
| Age Continuous<br>Units: years<br>arithmetic mean<br>standard deviation | 43.0<br>± 15.5                     | 43.9<br>± 16.5               | -     |
| Gender Categorical<br>Units: Subjects                                   |                                    |                              |       |
| Female                                                                  | 57                                 | 62                           | 119   |
| Male                                                                    | 48                                 | 48                           | 96    |

## End points

### End points reporting groups

|                                                                                                                                                                                                                                                                                                                                                                                   |                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Reporting group title                                                                                                                                                                                                                                                                                                                                                             | Experimental: Conventional dose                          |
| Reporting group description:<br>Immunocompromised participants will receive oseltamivir syrup at a dose ranging from 30 to 75 mg based on body weight, twice daily for children (1 to 12 years old) and oseltamivir capsules 75 mg twice daily for adults/adolescents greater than or equal to ( $\geq$ 13 years old) or placebo-matched to oseltamivir twice daily over 10 days. |                                                          |
| Reporting group title                                                                                                                                                                                                                                                                                                                                                             | Experimental: Double dose                                |
| Reporting group description:<br>Immunocompromised participants will receive oseltamivir syrup at a dose ranging from 60 to 150 mg based on body weight, twice daily for children (1 to 12 years old) and oseltamivir capsules 150 mg twice daily for adults/adolescents ( $\geq$ 13 years old) or placebo matched to oseltamivir twice daily over 10 days.                        |                                                          |
| Subject analysis set title                                                                                                                                                                                                                                                                                                                                                        | Adults With Pharmacokinetic Evaluation                   |
| Subject analysis set type                                                                                                                                                                                                                                                                                                                                                         | Sub-group analysis                                       |
| Subject analysis set description:<br>This analysis set comprises subjects $\geq$ 18 years from both arms in the study who underwent pharmacokinetic evaluation.                                                                                                                                                                                                                   |                                                          |
| Subject analysis set title                                                                                                                                                                                                                                                                                                                                                        | Adolescents and Children With Pharmacokinetic Evaluation |
| Subject analysis set type                                                                                                                                                                                                                                                                                                                                                         | Sub-group analysis                                       |
| Subject analysis set description:<br>This analysis set comprises adolescents and children < 18 years from both arms in the study who underwent pharmacokinetic evaluation.                                                                                                                                                                                                        |                                                          |

### Primary: Percentage of Subjects with Adverse Events

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| End point title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Percentage of Subjects with Adverse Events <sup>[1]</sup> |
| End point description:<br>An adverse event is any untoward medical occurrence in a subject administered a pharmaceutical product and which does not necessarily have to have a causal relationship with the treatment. An adverse event can therefore be any unfavorable and unintended sign (including an abnormal laboratory finding, for example), symptom, or disease temporally associated with the use of a pharmaceutical product, whether or not considered related to the pharmaceutical product. Preexisting conditions which worsen during a study are also considered as adverse events. The safety population included all subjects who received at least one dose of study drug and had a safety assessment performed post randomisation. |                                                           |
| End point type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Primary                                                   |
| End point timeframe:<br>Baseline up to Day 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                           |

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: No statistical hypothesis could be defined for this endpoint as the study has no control group.

| End point values              | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|-------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type            | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed   | 105                                   | 110                          |  |  |
| Units: percentage of subjects |                                       |                              |  |  |
| number (not applicable)       |                                       |                              |  |  |
| On Treatment                  | 40.0                                  | 47.3                         |  |  |
| Off Treatment                 | 25.7                                  | 29.1                         |  |  |

## Statistical analyses

No statistical analyses for this end point

### Primary: Percentage of Subjects Who Developed Viral Resistance to Oseltamivir

|                 |                                                                                     |
|-----------------|-------------------------------------------------------------------------------------|
| End point title | Percentage of Subjects Who Developed Viral Resistance to Oseltamivir <sup>[2]</sup> |
|-----------------|-------------------------------------------------------------------------------------|

End point description:

Resistance was defined as the presence of oseltamivir resistance mutations in viruses isolated from nasopharyngeal swab samples, identified by sequencing of the neuraminidase (NA) and hemagglutinin (HA) genes (genotypic resistance) and/or determination of the oseltamivir concentration at which the response is reduced by half (IC50) in an NA inhibition assay (phenotypic resistance). Modified Intent-to-Treat infected (mITT<sub>i</sub>) population: all subjects randomised to a particular treatment, regardless of whether they received that treatment or not, who received at least one dose of study drug and with central laboratory confirmation of influenza infection, excluding subjects infected with oseltamivir-resistant influenza at baseline. Reported are post-baseline phenotypic and genotypic resistance in adults  $\geq 18$  years and children and adolescents  $< 18$  years in the mITT<sub>i</sub> population. n indicates the number of subjects analysed in the respective study arms.

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

End point timeframe:

Baseline up to Day 40

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: No statistical hypothesis could be defined for this endpoint as the study has no control group.

| End point values                                         | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|----------------------------------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type                                       | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed                              | 81                                    | 86                           |  |  |
| Units: percentage of subjects                            |                                       |                              |  |  |
| number (not applicable)                                  |                                       |                              |  |  |
| Post-BL Phenotypic Resist, $\geq 18$ years<br>(n=73, 78) | 8.2                                   | 1.3                          |  |  |
| Post-BL Genotypic Resist, $\geq 18$ years<br>(n=73, 78)  | 9.6                                   | 2.6                          |  |  |
| Post-BL Phenotypic Resist, $< 18$ years<br>(n=8, 8)      | 25.0                                  | 0                            |  |  |
| Post-BL Genotypic Resist, $< 18$ years<br>(n=8,8)        | 25.0                                  | 12.5                         |  |  |

## Statistical analyses

No statistical analyses for this end point

### Primary: Percentage of Subjects With Tissue Rejection or Graft Versus Host Disease



**(GvHD)**

|                 |                                                                                                 |
|-----------------|-------------------------------------------------------------------------------------------------|
| End point title | Percentage of Subjects With Tissue Rejection or Graft Versus Host Disease (GvHD) <sup>[3]</sup> |
|-----------------|-------------------------------------------------------------------------------------------------|

End point description:

The percentage of transplant patients in the safety population who experienced tissue rejection and/or GvHD is reported. The safety population included all subjects who received at least one dose of study drug and had a safety assessment performed post randomisation.

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

End point timeframe:

Baseline up to Day 40

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: No statistical hypothesis could be defined for this endpoint as the study has no control group.

| End point values              | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|-------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type            | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed   | 105 <sup>[4]</sup>                    | 110 <sup>[5]</sup>           |  |  |
| Units: percentage of subjects |                                       |                              |  |  |
| number (not applicable)       | 0                                     | 0                            |  |  |

Notes:

[4] - Analyses will be released once data become available.

[5] - Analyses will be released once data become available.

**Statistical analyses**

No statistical analyses for this end point

**Secondary: Time to Resolution (TTR) of All Clinical Influenza Symptoms**

|                 |                                                             |
|-----------------|-------------------------------------------------------------|
| End point title | Time to Resolution (TTR) of All Clinical Influenza Symptoms |
|-----------------|-------------------------------------------------------------|

End point description:

TTR of all clinical influenza symptoms was defined as the time from treatment initiation to the start of the 24-hour period in which all 7 influenza symptoms had scores  $\leq 1$  (mild) and remained  $\leq 1$  for at least 21.5 hours. mITT population: all subjects randomised to a particular treatment, regardless of whether they received that treatment or not, who received at least one dose of study drug and with central laboratory confirmation of influenza infection, excluding subjects infected with oseltamivir-resistant influenza at baseline. Reported are TTRs in adults and adolescents  $\geq 13$  years and children  $<13$  years in the mITT population. n indicates the number of subjects analysed in the respective study arms. 9999=not estimable

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

End point timeframe:

Baseline up to Day 40

| End point values                 | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|----------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type               | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed      | 82                                    | 86                           |  |  |
| Units: hours                     |                                       |                              |  |  |
| median (confidence interval 95%) |                                       |                              |  |  |

|                                                   |                       |                       |  |  |
|---------------------------------------------------|-----------------------|-----------------------|--|--|
| Adults $\geq$ 18 years (n=71, 75)                 | 103.3 (69.0 to 112.7) | 103.6 (57.1 to 140.0) |  |  |
| Adults and adolescents $\geq$ 13 years (n=75, 78) | 103.4 (75.4 to 122.7) | 107.2 (63.9 to 140.0) |  |  |
| Children < 13 years (n=4, 5)                      | 32.1 (20.2 to 9999)   | 115.9 (45.5 to 495.0) |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Total Symptom Score Area Under the Effect-Time Curve (AUE)

|                 |                                                            |
|-----------------|------------------------------------------------------------|
| End point title | Total Symptom Score Area Under the Effect-Time Curve (AUE) |
|-----------------|------------------------------------------------------------|

End point description:

The overall extent and severity of illness was quantified by the AUE of the total symptom scores over the duration of illness, i.e., from the start of treatment to the time symptoms first alleviated. Total symptom scores were calculated from the sum of seven individual symptom scores. The AUE of these average scores was then calculated for each subject using the trapezoidal rule (the trapezoidal rule calculates the area under any curve by adding up all trapezoids under such a curve). The area of each trapezoid is calculated as the average between consecutive measures. mITT population: all subjects randomised to a particular treatment, regardless of whether they received that treatment or not, who received at least one dose of study drug and with central laboratory confirmation of influenza infection, excluding subjects infected with oseltamivir-resistant influenza at baseline. Reported are results for adults  $\geq$  18 years in the mITT population.

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

End point timeframe:

Baseline up to Day 40

| End point values              | Experimental: Conventional dose | Experimental: Double dose |  |  |
|-------------------------------|---------------------------------|---------------------------|--|--|
| Subject group type            | Reporting group                 | Reporting group           |  |  |
| Number of subjects analysed   | 59                              | 67                        |  |  |
| Units: score * hour           |                                 |                           |  |  |
| median (full range (min-max)) | 774.7 (60.8 to 11435.5)         | 811.5 (63.0 to 8648.1)    |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Time to Resolution of Fever

|                 |                             |
|-----------------|-----------------------------|
| End point title | Time to Resolution of Fever |
|-----------------|-----------------------------|

End point description:

Fever was defined as temperature  $\geq$  37.8 degrees Celsius at any time point during the study. TTR of fever was determined in Adults  $\geq$  18 years, Adults and adolescents  $\geq$  13 years and Children < 13 years of the mITT population. mITT population: all subjects randomised to a particular treatment, regardless of whether they received that treatment or not, who received at least one dose of study drug and with central laboratory confirmation of influenza infection, excluding subjects infected with

oseltamivir-resistant influenza at baseline. n indicates the number of subjects analysed in the respective study arms. 9999 = subject censored for analysis

|                       |           |
|-----------------------|-----------|
| End point type        | Secondary |
| End point timeframe:  |           |
| Baseline up to Day 40 |           |

| End point values                 | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|----------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type               | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed      | 38                                    | 35                           |  |  |
| Units: hours                     |                                       |                              |  |  |
| median (confidence interval 95%) |                                       |                              |  |  |
| >= 18 years (n=35, 32)           | 11.0 (0.0 to 16.2)                    | 0.5 (0.0 to 8.8)             |  |  |
| >= 13 years (n=37, 33)           | 11.0 (0.0 to 16.2)                    | 0.5 (0.0 to 8.8)             |  |  |
| < 13 years (n=1, 2)              | 9999 (9999 to 9999)                   | 26.0 (0.0 to 51.9)           |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Change from Baseline in Viral Load Assessed by Culture

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| End point title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Change from Baseline in Viral Load Assessed by Culture |
| End point description:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                        |
| <p>Nasopharyngeal swab samples were cultured in Madin-Darby Canine Kidney cells. Culture supernatants were harvested after 2 weeks, or after a full-blown cytopathic effect was observed. Presence of infectious viruses in the cell culture supernatants (viral titer), expressed as log<sub>10</sub> 50% Tissue Culture Infectious Dose/millilitre (TCID<sub>50</sub>/mL), was determined by hemagglutination assay using turkey erythrocytes for H1 and B viruses or by detection of the virus nucleoprotein (NP) using ELISA for H3 viruses. A value of &lt; 0.5 log<sub>10</sub> TCID<sub>50</sub>/mL was interpreted as negative. Data are reported for adults &gt;= 18 years and adolescents and children &lt; 18 years. mITT population: all subjects randomised to a particular treatment, regardless of whether they received that treatment or not, who received at least one dose of study drug and with central laboratory confirmation of influenza infection, excluding subjects infected with oseltamivir-resistant influenza at baseline. n = number of subjects analysed.</p> |                                                        |
| End point type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Secondary                                              |
| End point timeframe:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        |
| Baseline (Day 1), Day 2/3, Day 6, Day 8, Day 11 end of treatment (EOT), follow-up (FU) Day 15 and FU Day 40.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                        |

| End point values                                  | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|---------------------------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type                                | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed                       | 81                                    | 86                           |  |  |
| Units: TCID50/mL                                  |                                       |                              |  |  |
| median (full range (min-max))                     |                                       |                              |  |  |
| >= 18 years, Baseline (BL) (n=70, 76)             | 3.38 (0.5 to 6.0)                     | 3.75 (0.5 to 6.3)            |  |  |
| >= 18 years, Change from BL on Day 2/3 (n=67, 73) | -1.50 (-5.3 to 0.8)                   | -1.50 (-5.0 to 1.50)         |  |  |
| >= 18 years, Change from BL on Day 6 (n=65, 71)   | -2.50 (-5.5 to 0.0)                   | -3.00 (-5.8 to 1.0)          |  |  |
| >= 18 years, Change from BL on Day 8 (n=62, 62)   | -2.75 (-5.5 to 0.0)                   | -3.25 (-5.8 to 0.0)          |  |  |
| >= 18 years, Change from BL on Day 11 (n=64, 71)  | -2.88 (-5.5 to 0.0)                   | -3.25 (-5.8 to 0.3)          |  |  |
| >= 18 years, Change from BL on Day 15 (n=62, 65)  | -3.00 (-5.5 to 0.3)                   | -3.25 (-5.8 to 0.0)          |  |  |
| >= 18 years, Change from BL on Day 40 (n=64, 65)  | -3.00 (-5.5 to 0.0)                   | -3.25 (-5.8 to 0.0)          |  |  |
| < 18 years, BL (n=8, 8)                           | 3.13 (0.8 to 6.0)                     | 4.00 (1.8 to 5.3)            |  |  |
| < 18 years, Change from BL on Day 2/3 (n=7, 8)    | -1.00 (-2.3 to 0.8)                   | -2.00 (-3.3 to 0.0)          |  |  |
| < 18 years, Change from BL on Day 6 (n=7, 7)      | -2.00 (-3.3 to 0.3)                   | -3.50 (-4.8 to -2.3)         |  |  |
| < 18 years, Change from BL on Day 8 (n=5, 7)      | -2.50 (-3.3 to 0.3)                   | -3.50 (-4.8 to -1.3)         |  |  |
| < 18 years, Change from BL on Day 11 (n=7, 7)     | -2.50 (-5.3 to 0.0)                   | -3.50 (-4.8 to -2.3)         |  |  |
| < 18 years, Change from BL on Day 15 (n=7, 7)     | -2.50 (-5.3 to 1.0)                   | -3.50 (-4.8 to -2.3)         |  |  |
| < 18 years, Change from BL on Day 40 (n=7, 8)     | -2.50 (-5.3 to 0.3)                   | -3.50 (-4.8 to -1.3)         |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Percentage of Subjects with Viral Shedding Assessed by Culture over Time

|                 |                                                                          |
|-----------------|--------------------------------------------------------------------------|
| End point title | Percentage of Subjects with Viral Shedding Assessed by Culture over Time |
|-----------------|--------------------------------------------------------------------------|

End point description:

Viral shedding was determined through measurement of the viral titer after viral culture in Madin-Darby Canine Kidney cells by hemagglutination assay (for Flu A/H1N1 and Flu B) and NP-ELISA (for Flu A/H3N2) and expressed in log<sub>10</sub> TCID<sub>50</sub>/mL. Reported is the percentage of subjects with viral shedding over time in adults >= 18 years and adolescents and children < 18 years. mITT population: all subjects randomised to a particular treatment, regardless of whether they received that treatment or not, who received at least one dose of study drug and with central laboratory confirmation of influenza infection, excluding subjects infected with oseltamivir-resistant influenza at baseline. n = number of subjects analysed.

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

End point timeframe:

Baseline (Day 1), Day 2/3, Day 6, Day 8, Day 11 end of treatment (EOT), follow-up (FU) Day 15 and FU Day 40.

| End point values                 | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|----------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type               | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed      | 81                                    | 86                           |  |  |
| Units: percentage of subjects    |                                       |                              |  |  |
| number (not applicable)          |                                       |                              |  |  |
| >= 18 years, Baseline (n=70, 76) | 91.4                                  | 84.2                         |  |  |
| >= 18 years, Day 2/3 (n=67, 73)  | 67.2                                  | 58.9                         |  |  |
| >= 18 years, Day 6 (n=65, 71)    | 15.4                                  | 18.3                         |  |  |
| >= 18 years, Day 8 (n=63, 62)    | 3.2                                   | 4.8                          |  |  |
| >= 18 years, Day 11 (n=65, 71)   | 1.5                                   | 4.2                          |  |  |
| >= 18 years, Day 15 (n=63, 65)   | 7.9                                   | 1.5                          |  |  |
| >= 18 years, Day 40 (n=65, 65)   | 0.0                                   | 0.0                          |  |  |
| < 18 years, Baseline (n=8, 8)    | 100.0                                 | 100.0                        |  |  |
| < 18 years, Day 2/3 (n=7, 8)     | 71.4                                  | 75.0                         |  |  |
| < 18 years, Day 6 (n=7, 7)       | 42.9                                  | 0.0                          |  |  |
| < 18 years, Day 8 (n=5, 7)       | 0.0                                   | 0.0                          |  |  |
| < 18 years, Day 11 (n=7, 7)      | 14.3                                  | 0.0                          |  |  |
| < 18 years, Day 15 (n=7, 7)      | 28.6                                  | 0.0                          |  |  |
| < 18 years, Day 40 (n=7, 8)      | 0.0                                   | 0.0                          |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Time to Cessation of Viral Shedding by Cell Culture

|                 |                                                     |
|-----------------|-----------------------------------------------------|
| End point title | Time to Cessation of Viral Shedding by Cell Culture |
|-----------------|-----------------------------------------------------|

End point description:

Viral shedding was determined through measurement of the viral titer after viral culture in Madin-Darby Canine Kidney cells by hemagglutination assay (for Flu A/H1N1 and Flu B) and NP-ELISA (for Flu A/H3N2) and expressed in log<sub>10</sub> TCID<sub>50</sub>/mL. Reported is the time to cessation of viral shedding over time in adults >= 18 years and adolescents and children < 18 years. MITTi population: all subjects randomised to a particular treatment, regardless of whether they received that treatment or not, who received at least one dose of study drug and with central laboratory confirmation of influenza infection, excluding subjects infected with oseltamivir-resistant influenza at baseline. . n = number of subjects analysed.

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

End point timeframe:

Baseline up to Day 40

| End point values                 | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|----------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type               | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed      | 81                                    | 86                           |  |  |
| Units: hours                     |                                       |                              |  |  |
| median (confidence interval 95%) |                                       |                              |  |  |
| >= 18 years (n=64, 64)           | 105.0 (98.3 to 109.2)                 | 105.4 (83.0 to 107.7)        |  |  |
| < 18 years (n=8, 8)              | 150.3 (34.2 to 891.3)                 | 94.9 (8.6 to 109.4)          |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Change from Baseline in Viral Load Assessed by Reverse Transcription Polymerase Chain Reaction (RT-PCR)

|                 |                                                                                                         |
|-----------------|---------------------------------------------------------------------------------------------------------|
| End point title | Change from Baseline in Viral Load Assessed by Reverse Transcription Polymerase Chain Reaction (RT-PCR) |
|-----------------|---------------------------------------------------------------------------------------------------------|

End point description:

Nasopharyngeal swab samples were tested for influenza A and B RNA using semi-quantitative RT-PCR specific for influenza A and B matrix gene, respectively, after viral RNA isolation. Cycle threshold (Ct) value was determined for each sample. Conversion of Ct values into viral load, expressed as log<sub>10</sub> virus particles/mL (vp/mL), was obtained using external standard curves ran in parallel in all RT-PCR experiments. A value of < 2.6 log<sub>10</sub> vp/mL for Flu A strains and < 3.0 log<sub>10</sub> vp/mL for Flu B strains was interpreted as a negative result. Data are reported for adults ≥ 18 years and adolescents and children < 18 years. mITT population: all subjects randomised to a particular treatment, regardless of whether they received that treatment or not, who received at least one dose of study drug and with central laboratory confirmation of influenza infection, excluding subjects infected with oseltamivir-resistant influenza at baseline. n = number of subjects analysed.

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

End point timeframe:

Baseline (Day 1), Day 2/3, Day 6, Day 8, Day 11 end of treatment (EOT), follow-up (FU) Day 15 and FU Day 40.

| End point values                                  | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|---------------------------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type                                | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed                       | 81                                    | 86 <sup>[6]</sup>            |  |  |
| Units: log <sub>10</sub> vp/mL                    |                                       |                              |  |  |
| median (full range (min-max))                     |                                       |                              |  |  |
| >= 18 years, Baseline (BL) (n=72, 76)             | 6.47 (2.7 to 8.8)                     | 6.52 (2.8 to 8.5)            |  |  |
| >= 18 years, Change from BL on Day 2/3 (n=65, 67) | -1.20 (-6.4 to 1.6)                   | -1.35 (-4.6 to 1.1)          |  |  |
| >= 18 years, Change from BL on Day 6 (n=41, 39)   | -2.36 (-8.0 to 0.1)                   | -2.34 (-7.7 to 0.1)          |  |  |
| >= 18 years, Change from BL on Day 8 (n=28, 20)   | -2.66 (-5.4 to 0.3)                   | -2.62 (-7.8 to 0.3)          |  |  |
| >= 18 years, Change from BL on Day 11 (n=19, 17)  | -3.51 (-7.3 to 2.2)                   | -2.96 (-4.5 to 1.3)          |  |  |

|                                                 |                      |                        |  |  |
|-------------------------------------------------|----------------------|------------------------|--|--|
| >= 18 years, Change from BL on Day 15 (n=10, 6) | -3.63 (-8.0 to -0.9) | -2.60 (-3.4 to 0.0)    |  |  |
| >= 18 years, Change from BL on Day 40 (n=3, 1)  | -4.80 (-5.4 to 0.8)  | -7.71 (-7.71 to -7.71) |  |  |
| < 18 years, BL (n=8, 8)                         | 5.88 (2.8 to 7.7)    | 5.96 (5.5 to 7.3)      |  |  |
| < 18 years, Change from BL on Day 2/3 (n=6, 8)  | -0.66 (-2.7 to 1.4)  | -0.71 (-5.6 to 0.4)    |  |  |
| < 18 years, Change from BL on Day 6 (n=6, 4)    | -1.97 (-2.7 to 0.3)  | -1.73 (-2.7 to -1.2)   |  |  |
| < 18 years, Change from BL on Day 8 (n=1, 3)    | 1.56 (1.56 to 1.56)  | -2.26 (-2.9 to -1.5)   |  |  |
| < 18 years, Change from BL on Day 11 (n=2, 1)   | -0.89 (-3.2 to 1.4)  | -2.41 (-2.41 to -2.41) |  |  |
| < 18 years, Change from BL on Day 15 (n=3, 0)   | 1.26 (-2.9 to 1.9)   | 9999 (9999 to 9999)    |  |  |

Notes:

[6] - 9999 = 0 subjects analysed, no data

## Statistical analyses

No statistical analyses for this end point

## Secondary: Percentage of Subjects with Viral Shedding Assessed by RT-PCR over Time

|                 |                                                                         |
|-----------------|-------------------------------------------------------------------------|
| End point title | Percentage of Subjects with Viral Shedding Assessed by RT-PCR over Time |
|-----------------|-------------------------------------------------------------------------|

End point description:

Viral shedding was determined by direct viral load measurement from nasopharyngeal swabs by RT-PCR assay and expressed in log10 vp/mL. Reported is the percentage of subjects with viral shedding over time in adults >= 18 years and adolescents and children < 18 years. mITT population: all subjects randomised to a particular treatment, regardless of whether they received that treatment or not, who received at least one dose of study drug and with central laboratory confirmation of influenza infection, excluding subjects infected with oseltamivir-resistant influenza at baseline. n = number of subjects analysed.

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

End point timeframe:

Baseline (Day 1), Day 2/3, Day 6, Day 8, Day 11 end of treatment (EOT), follow-up (FU) Day 15 and FU Day 40.

| End point values                 | Experimental: Conventional dose | Experimental: Double dose |  |  |
|----------------------------------|---------------------------------|---------------------------|--|--|
| Subject group type               | Reporting group                 | Reporting group           |  |  |
| Number of subjects analysed      | 81                              | 86                        |  |  |
| Units: percentage of subjects    |                                 |                           |  |  |
| number (not applicable)          |                                 |                           |  |  |
| >= 18 years, Baseline (n=72, 78) | 100.0                           | 97.4                      |  |  |
| >= 18 years, Day 2/3 (n=69, 75)  | 92.8                            | 88.0                      |  |  |
| >= 18 years, Day 6 (n=67, 73)    | 56.7                            | 49.3                      |  |  |
| >= 18 years, Day 8 (n=65, 64)    | 41.5                            | 23.4                      |  |  |
| >= 18 years, Day 11 (n=67, 73)   | 25.4                            | 21.9                      |  |  |
| >= 18 years, Day 15 (n=66, 67)   | 10.6                            | 9.0                       |  |  |
| >= 18 years, Day 40 (n=68, 67)   | 1.5                             | 1.5                       |  |  |

|                               |       |       |  |  |
|-------------------------------|-------|-------|--|--|
| < 18 years, Baseline (n=8, 8) | 100.0 | 100.0 |  |  |
| < 18 years, Day 2/3 (n=7, 8)  | 85.7  | 75.0  |  |  |
| < 18 years, Day 6 (n=7, 7)    | 85.7  | 57.1  |  |  |
| < 18 years, Day 8 (n=5, 7)    | 20.0  | 42.9  |  |  |
| < 18 years, Day 11 (n=7, 7)   | 28.6  | 14.3  |  |  |
| < 18 years, Day 15 (n=7, 7)   | 42.9  | 0.0   |  |  |
| < 18 years, Day 40 (n=7, 8)   | 0.0   | 0.0   |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Time to Cessation of Viral Shedding by RT-PCR

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| End point title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Time to Cessation of Viral Shedding by RT-PCR |
| End point description:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                               |
| Viral shedding was determined by direct viral load measurement from nasopharyngeal swabs by RT-PCR assay and expressed in log10 vp/mL. Reported is the time to cessation of viral shedding over time in adults $\geq$ 18 years and adolescents and children < 18 years. mITT population: all subjects randomised to a particular treatment, regardless of whether they received that treatment or not, who received at least one dose of study drug and with central laboratory confirmation of influenza infection, excluding subjects infected with oseltamivir-resistant influenza at baseline. n = number of subjects analysed. |                                               |
| End point type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Secondary                                     |
| End point timeframe:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               |
| Baseline up to Day 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                               |

| End point values                 | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|----------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type               | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed      | 81                                    | 86                           |  |  |
| Units: hours                     |                                       |                              |  |  |
| median (confidence interval 95%) |                                       |                              |  |  |
| $\geq$ 18 years (n=72, 76)       | 178.0 (152.2 to 227.0)                | 154.1 (128.5 to 171.0)       |  |  |
| < 18 years (n=8, 8)              | 181.0 (106.2 to 943.7)                | 180.5 (8.6 to 247.8)         |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Percentage of Subjects with Persistent Viral Shedding

|                                                                                                                                                                                                                                                                                                                   |                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| End point title                                                                                                                                                                                                                                                                                                   | Percentage of Subjects with Persistent Viral Shedding |
| End point description:                                                                                                                                                                                                                                                                                            |                                                       |
| Persistent shedding was defined as a viral load reduction $<1$ log10 vp/mL at end of treatment compared with baseline. Reported is the percentage of subjects with persistent viral shedding at end of treatment in adults $\geq$ 18 years and adolescents and children < 18 years. mITT population: all subjects |                                                       |



randomised to a particular treatment, regardless of whether they received that treatment or not, who received at least one dose of study drug and with central laboratory confirmation of influenza infection, excluding subjects infected with oseltamivir-resistant influenza at baseline.

|                          |           |
|--------------------------|-----------|
| End point type           | Secondary |
| End point timeframe:     |           |
| Baseline to Day 11 (EOT) |           |

| End point values              | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|-------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type            | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed   | 81                                    | 86                           |  |  |
| Units: percentage of subjects |                                       |                              |  |  |
| number (not applicable)       | 1.2                                   | 4.7                          |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Percentage of Subjects Who Developed Secondary Illness

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| End point title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Percentage of Subjects Who Developed Secondary Illness |
| End point description:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                        |
| Secondary illness included bronchitis, pneumonia, acute sinusitis, sinusitis, lower respiratory infection or otitis media. Reported is the percentage of subjects with at least one event in adults $\geq 18$ years and adolescents and children $< 18$ years. mITT population: all subjects randomised to a particular treatment, regardless of whether they received that treatment or not, who received at least one dose of study drug and with central laboratory confirmation of influenza infection, excluding subjects infected with oseltamivir-resistant influenza at baseline. n = number of subjects analysed. |                                                        |
| End point type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Secondary                                              |
| End point timeframe:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                        |
| Baseline up to Day 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                        |

| End point values              | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|-------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type            | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed   | 81                                    | 86                           |  |  |
| Units: percentage of subjects |                                       |                              |  |  |
| number (not applicable)       |                                       |                              |  |  |
| $\geq 18$ years (n=73, 78)    | 8.2                                   | 5.1                          |  |  |
| $< 18$ years (n=8, 8)         | 12.5                                  | 0.0                          |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Percentage of Subjects Who Initiated Antibiotic Treatment

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| End point title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Percentage of Subjects Who Initiated Antibiotic Treatment |
| End point description:<br>Secondary illness included bronchitis, pneumonia, acute sinusitis, sinusitis, lower respiratory infection or otitis media. Reported is the percentage of subjects with secondary illness, who initiated antibiotic treatment, in adults $\geq 18$ years and adolescents and children $< 18$ years. The safety population included all subjects who received at least one dose of study drug and had a safety assessment performed post randomisation. n = number of subjects analysed. |                                                           |
| End point type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Secondary                                                 |
| End point timeframe:<br>Baseline up to Day 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                           |

| End point values              | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|-------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type            | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed   | 105                                   | 110                          |  |  |
| Units: percentage of subjects |                                       |                              |  |  |
| number (not applicable)       |                                       |                              |  |  |
| $\geq 18$ years (n=98, 101)   | 8.2                                   | 5.0                          |  |  |
| $< 18$ years (n=7, 9)         | 14.3                                  | 0.0                          |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Percentage of Subjects Hospitalised

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| End point title                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Percentage of Subjects Hospitalised |
| End point description:<br>Reported is the percentage of subjects, who required hospitalisation at any time between treatment initiation and the end of the study period, in adults $\geq 18$ years and adolescents and children $< 18$ years. The ITTi population included all subjects randomised and with central laboratory confirmation of influenza infection, excluding subjects infected with oseltamivir-resistant influenza at baseline. n = number of subjects analysed. |                                     |
| End point type                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Secondary                           |
| End point timeframe:<br>Baseline up to Day 40                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |

| End point values              | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|-------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type            | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed   | 83                                    | 86                           |  |  |
| Units: percentage of subjects |                                       |                              |  |  |
| number (not applicable)       |                                       |                              |  |  |
| >/= 18 years (n=74, 78)       | 6.8                                   | 7.7                          |  |  |
| < 18 years (n=9, 8)           | 11.1                                  | 0.0                          |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Duration of Hospitalisation

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| End point title                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Duration of Hospitalisation |
| End point description:                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             |
| Reported is the duration of hospitalization at any time between treatment initiation and the end of the study period, in adults >/= 18 years and adolescents and children < 18 years. The ITTi population included all subjects randomised and with central laboratory confirmation of influenza infection, excluding subjects infected with oseltamivir-resistant influenza at baseline. n = number of subjects analysed. 9999 = not estimable as no subject was hospitalised. |                             |
| End point type                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Secondary                   |
| End point timeframe:                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                             |
| Baseline up to Day 40                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                             |

| End point values              | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|-------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type            | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed   | 83                                    | 86                           |  |  |
| Units: days                   |                                       |                              |  |  |
| median (full range (min-max)) |                                       |                              |  |  |
| >/= 18 years (n=74, 78)       | 7.0 (5.0 to 14.0)                     | 6.50 (4.0 to 32.0)           |  |  |
| < 18 years (n=9, 8)           | 5.0 (5.0 to 5.0)                      | 9999 (9999 to 9999)          |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Pharmacokinetics: Maximum Plasma Concentration (Cmax) of Oseltamivir in Adults

|                 |                                                                                |
|-----------------|--------------------------------------------------------------------------------|
| End point title | Pharmacokinetics: Maximum Plasma Concentration (Cmax) of Oseltamivir in Adults |
|-----------------|--------------------------------------------------------------------------------|

End point description:

The pharmacokinetic evaluable patient (PKEP) population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adults  $\geq 18$  years.

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

End point timeframe:

Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose

| End point values                        | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|-----------------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type                      | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed             | 9                                     | 13                           |  |  |
| Units: nanograms per millilitre (ng/mL) |                                       |                              |  |  |
| arithmetic mean (standard deviation)    | 65.5 ( $\pm$ 26.8)                    | 149 ( $\pm$ 80.7)            |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Pharmacokinetics: Trough Plasma Concentration (C<sub>trough</sub>) of Oseltamivir in Adults

|                 |                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------------|
| End point title | Pharmacokinetics: Trough Plasma Concentration (C <sub>trough</sub> ) of Oseltamivir in Adults |
|-----------------|-----------------------------------------------------------------------------------------------|

End point description:

The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adults  $\geq 18$  years.

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

End point timeframe:

Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose

| End point values                     | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|--------------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type                   | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed          | 9                                     | 13                           |  |  |
| Units: ng/mL                         |                                       |                              |  |  |
| arithmetic mean (standard deviation) | 2.33 ( $\pm$ 0.641)                   | 6.98 ( $\pm$ 5.1)            |  |  |

### Statistical analyses

No statistical analyses for this end point

**Secondary: Pharmacokinetics : Area Under the Concentration-Time Curve from 0 to 12 hours (AUC0-12) at Steady State of Oseltamivir in Adults**

|                 |                                                                                                                                  |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------|
| End point title | Pharmacokinetics : Area Under the Concentration-Time Curve from 0 to 12 hours (AUC0-12) at Steady State of Oseltamivir in Adults |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------|

End point description:

AUC0-12 was reported at steady state as nanograms per hour per millilitre (ng/mL\*hr). The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adults  $\geq 18$  years.

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

End point timeframe:

Pre-dose (30 minutes), 1.5, 4, 8 hours on Day 6 or any day after the 11th dose

| End point values                     | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|--------------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type                   | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed          | 9                                     | 13                           |  |  |
| Units: ng/mL*hr                      |                                       |                              |  |  |
| arithmetic mean (standard deviation) | 197 ( $\pm$ 49.7)                     | 501 ( $\pm$ 320)             |  |  |

**Statistical analyses**

No statistical analyses for this end point

**Secondary: Pharmacokinetics: Time to Maximum Concentration (tmax) of Oseltamivir in Adults**

|                 |                                                                                 |
|-----------------|---------------------------------------------------------------------------------|
| End point title | Pharmacokinetics: Time to Maximum Concentration (tmax) of Oseltamivir in Adults |
|-----------------|---------------------------------------------------------------------------------|

End point description:

The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adults  $\geq 18$  years.

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

End point timeframe:

Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose

| End point values                     | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|--------------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type                   | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed          | 9                                     | 13                           |  |  |
| Units: hour                          |                                       |                              |  |  |
| arithmetic mean (standard deviation) | 1.08 ( $\pm$ 0.484)                   | 1.08 ( $\pm$ 0.504)          |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Pharmacokinetics: Elimination Constant (ke) of Oseltamivir in Adults

|                 |                                                                      |
|-----------------|----------------------------------------------------------------------|
| End point title | Pharmacokinetics: Elimination Constant (ke) of Oseltamivir in Adults |
|-----------------|----------------------------------------------------------------------|

End point description:

The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adults  $\geq$  18 years.

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

End point timeframe:

Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose

|                                      |                                        |  |  |  |
|--------------------------------------|----------------------------------------|--|--|--|
| <b>End point values</b>              | Adults With Pharmacokinetic Evaluation |  |  |  |
| Subject group type                   | Subject analysis set                   |  |  |  |
| Number of subjects analysed          | 22                                     |  |  |  |
| Units: 1/hr                          |                                        |  |  |  |
| arithmetic mean (standard deviation) | 4.93 ( $\pm$ 1.01)                     |  |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Pharmacokinetics: Apparent Clearance (CL/F) of Oseltamivir in Adults

|                 |                                                                      |
|-----------------|----------------------------------------------------------------------|
| End point title | Pharmacokinetics: Apparent Clearance (CL/F) of Oseltamivir in Adults |
|-----------------|----------------------------------------------------------------------|

End point description:

The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adults  $\geq$  18 years.

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

End point timeframe:

Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose

| End point values                     | Adults With Pharmacokinetic Evaluation |  |  |  |
|--------------------------------------|----------------------------------------|--|--|--|
| Subject group type                   | Subject analysis set                   |  |  |  |
| Number of subjects analysed          | 22                                     |  |  |  |
| Units: litre/hour (L/hr)             |                                        |  |  |  |
| arithmetic mean (standard deviation) | 381 ( $\pm$ 113)                       |  |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Pharmacokinetics: Apparent Volume of Distribution (Vc/F) of Oseltamivir in Adults

|                 |                                                                                   |
|-----------------|-----------------------------------------------------------------------------------|
| End point title | Pharmacokinetics: Apparent Volume of Distribution (Vc/F) of Oseltamivir in Adults |
|-----------------|-----------------------------------------------------------------------------------|

End point description:

The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adults  $\geq$  18 years.

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

End point timeframe:

Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose

| End point values                     | Adults With Pharmacokinetic Evaluation |  |  |  |
|--------------------------------------|----------------------------------------|--|--|--|
| Subject group type                   | Subject analysis set                   |  |  |  |
| Number of subjects analysed          | 22                                     |  |  |  |
| Units: litre (L)                     |                                        |  |  |  |
| arithmetic mean (standard deviation) | 76.2 ( $\pm$ 15.7)                     |  |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Pharmacokinetics: Cmax of Oseltamivir Carboxylate in Adults

|                 |                                                             |
|-----------------|-------------------------------------------------------------|
| End point title | Pharmacokinetics: Cmax of Oseltamivir Carboxylate in Adults |
|-----------------|-------------------------------------------------------------|

End point description:

The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adults  $\geq$  18 years.

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

End point timeframe:

Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose

| End point values                     | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|--------------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type                   | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed          | 9                                     | 13                           |  |  |
| Units: ng/mL                         |                                       |                              |  |  |
| arithmetic mean (standard deviation) | 655 (± 276)                           | 1420 (± 574)                 |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Pharmacokinetics: Ctrough of Oseltamivir Carboxylate in Adults

|                 |                                                                |
|-----------------|----------------------------------------------------------------|
| End point title | Pharmacokinetics: Ctrough of Oseltamivir Carboxylate in Adults |
|-----------------|----------------------------------------------------------------|

End point description:

The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adults  $\geq$  18 years.

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

End point timeframe:

Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose

| End point values                     | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|--------------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type                   | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed          | 9                                     | 13                           |  |  |
| Units: ng/mL                         |                                       |                              |  |  |
| arithmetic mean (standard deviation) | 363 (± 167)                           | 831 (± 358)                  |  |  |

## Statistical analyses

No statistical analyses for this end point

## Secondary: Pharmacokinetics : AUC0-12 at Steady State of Oseltamivir Carboxylate in Adults

|                 |                                                                                 |
|-----------------|---------------------------------------------------------------------------------|
| End point title | Pharmacokinetics : AUC0-12 at Steady State of Oseltamivir Carboxylate in Adults |
|-----------------|---------------------------------------------------------------------------------|

End point description:

The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adults  $\geq$  18 years.

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



End point timeframe:

Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose

| End point values                     | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|--------------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type                   | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed          | 9                                     | 13                           |  |  |
| Units: ng/mL*hr                      |                                       |                              |  |  |
| arithmetic mean (standard deviation) | 6240 ( $\pm$ 2710)                    | 13800 ( $\pm$ 5670)          |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Pharmacokinetics: Tmax of Oseltamivir Carboxylate in Adults

|                 |                                                             |
|-----------------|-------------------------------------------------------------|
| End point title | Pharmacokinetics: Tmax of Oseltamivir Carboxylate in Adults |
|-----------------|-------------------------------------------------------------|

End point description:

The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adults  $\geq$  18 years.

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

End point timeframe:

Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose

| End point values                     | Experimental:<br>Conventional<br>dose | Experimental:<br>Double dose |  |  |
|--------------------------------------|---------------------------------------|------------------------------|--|--|
| Subject group type                   | Reporting group                       | Reporting group              |  |  |
| Number of subjects analysed          | 9                                     | 13                           |  |  |
| Units: hour                          |                                       |                              |  |  |
| arithmetic mean (standard deviation) | 3.83 ( $\pm$ 1.08)                    | 3.96 ( $\pm$ 0.841)          |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Pharmacokinetics: Elimination Constant (ke) of Oseltamivir Carboxylate in Adults

|                 |                                                                                  |
|-----------------|----------------------------------------------------------------------------------|
| End point title | Pharmacokinetics: Elimination Constant (ke) of Oseltamivir Carboxylate in Adults |
|-----------------|----------------------------------------------------------------------------------|

End point description:

The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose

drug concentration measurement at a scheduled visit time point. Reported here are data for adults  $\geq$  18 years.

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

End point timeframe:

Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose

| End point values                     | Adults With Pharmacokinetic Evaluation |  |  |  |
|--------------------------------------|----------------------------------------|--|--|--|
| Subject group type                   | Subject analysis set                   |  |  |  |
| Number of subjects analysed          | 22                                     |  |  |  |
| Units: 1/hr                          |                                        |  |  |  |
| arithmetic mean (standard deviation) | 1.63 ( $\pm$ 0.81)                     |  |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Pharmacokinetics: Apparent Clearance (CL/F) of Oseltamivir Carboxylate in Adults

|                 |                                                                                  |
|-----------------|----------------------------------------------------------------------------------|
| End point title | Pharmacokinetics: Apparent Clearance (CL/F) of Oseltamivir Carboxylate in Adults |
|-----------------|----------------------------------------------------------------------------------|

End point description:

The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adults  $\geq$  18 years.

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

End point timeframe:

Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose

| End point values                     | Adults With Pharmacokinetic Evaluation |  |  |  |
|--------------------------------------|----------------------------------------|--|--|--|
| Subject group type                   | Subject analysis set                   |  |  |  |
| Number of subjects analysed          | 22                                     |  |  |  |
| Units: L/hr                          |                                        |  |  |  |
| arithmetic mean (standard deviation) | 13.7 ( $\pm$ 6.79)                     |  |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Pharmacokinetics: Apparent Volume of Distribution (Vc/F) of Oseltamivir Carboxylate in Adults

|                                                                                                                                                                                                                                                |                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| End point title                                                                                                                                                                                                                                | Pharmacokinetics: Apparent Volume of Distribution (Vc/F) of Oseltamivir Carboxylate in Adults |
| End point description:<br>The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adults >= 18 years. |                                                                                               |
| End point type                                                                                                                                                                                                                                 | Secondary                                                                                     |
| End point timeframe:<br>Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose                                                                                                                                |                                                                                               |

|                                      |                                        |  |  |  |
|--------------------------------------|----------------------------------------|--|--|--|
| <b>End point values</b>              | Adults With Pharmacokinetic Evaluation |  |  |  |
| Subject group type                   | Subject analysis set                   |  |  |  |
| Number of subjects analysed          | 22                                     |  |  |  |
| Units: litre (L)                     |                                        |  |  |  |
| arithmetic mean (standard deviation) | 8.39 (± 0)                             |  |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Pharmacokinetics: Cmax of Oseltamivir in Adolescents and Children

|                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| End point title                                                                                                                                                                                                                                                                                                                                                                                   | Pharmacokinetics: Cmax of Oseltamivir in Adolescents and Children |
| End point description:<br>The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adolescents and children < 18 years. Individual data are provided as subjects received different drug doses. Drug dose is indicated in the row title for each subject. |                                                                   |
| End point type                                                                                                                                                                                                                                                                                                                                                                                    | Secondary                                                         |
| End point timeframe:<br>Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose                                                                                                                                                                                                                                                                                   |                                                                   |

|                             |                                                          |  |  |  |
|-----------------------------|----------------------------------------------------------|--|--|--|
| <b>End point values</b>     | Adolescents and Children With Pharmacokinetic Evaluation |  |  |  |
| Subject group type          | Subject analysis set                                     |  |  |  |
| Number of subjects analysed | 4 <sup>[7]</sup>                                         |  |  |  |
| Units: ng/mL                |                                                          |  |  |  |
| number (not applicable)     |                                                          |  |  |  |
| Conventional Dose: 60 mg    | 61.9                                                     |  |  |  |
| Conventional Dose: 75 mg    | 45.9                                                     |  |  |  |
| Double Dose: 90 mg          | 107                                                      |  |  |  |
| Double Dose: 150 mg         | 86.6                                                     |  |  |  |

Notes:

[7] - Data for each subject reported individually.

## Statistical analyses

No statistical analyses for this end point

### Secondary: Pharmacokinetics: Ctrough of Oseltamivir in Adolescents and Children

|                 |                                                                      |
|-----------------|----------------------------------------------------------------------|
| End point title | Pharmacokinetics: Ctrough of Oseltamivir in Adolescents and Children |
|-----------------|----------------------------------------------------------------------|

End point description:

The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adolescents and children < 18 years. Individual data are provided as subjects received different drug doses. Drug dose is indicated in the row title for each subject.

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

End point timeframe:

Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose

| End point values            | Adolescents and Children With Pharmacokinetic Evaluation |  |  |  |
|-----------------------------|----------------------------------------------------------|--|--|--|
| Subject group type          | Subject analysis set                                     |  |  |  |
| Number of subjects analysed | 4 <sup>[8]</sup>                                         |  |  |  |
| Units: ng/mL                |                                                          |  |  |  |
| number (not applicable)     |                                                          |  |  |  |
| Conventional Dose: 60 mg    | 2.84                                                     |  |  |  |
| Conventional Dose: 75 mg    | 3.37                                                     |  |  |  |
| Double Dose: 90 mg          | 6.65                                                     |  |  |  |
| Double Dose: 150 mg         | 3.88                                                     |  |  |  |

Notes:

[8] - Data for each subject reported individually.

## Statistical analyses

No statistical analyses for this end point

### Secondary: Pharmacokinetics: AUC0-12 at Steady State of Oseltamivir in Adolescents and Children

|                 |                                                                                      |
|-----------------|--------------------------------------------------------------------------------------|
| End point title | Pharmacokinetics: AUC0-12 at Steady State of Oseltamivir in Adolescents and Children |
|-----------------|--------------------------------------------------------------------------------------|

End point description:

AUC0-12 will be reported at steady state as nanograms per hour per millilitre (ng\*h/mL). The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adolescents and children < 18 years. Individual data are provided as subjects received different drug doses. Drug dose is indicated in the row title for each subject.

|                                                                                |           |
|--------------------------------------------------------------------------------|-----------|
| End point type                                                                 | Secondary |
| End point timeframe:                                                           |           |
| Pre-dose (30 minutes), 1.5, 4, 8 hours on Day 6 or any day after the 11th dose |           |

|                             |                                                          |  |  |  |
|-----------------------------|----------------------------------------------------------|--|--|--|
| <b>End point values</b>     | Adolescents and Children With Pharmacokinetic Evaluation |  |  |  |
| Subject group type          | Subject analysis set                                     |  |  |  |
| Number of subjects analysed | 4 <sup>[9]</sup>                                         |  |  |  |
| Units: ng*h/mL              |                                                          |  |  |  |
| number (not applicable)     |                                                          |  |  |  |
| Conventional Dose: 60 mg    | 229                                                      |  |  |  |
| Conventional Dose: 75 mg    | 171                                                      |  |  |  |
| Double Dose: 90 mg          | 425                                                      |  |  |  |
| Double Dose: 150 mg         | 339                                                      |  |  |  |

Notes:

[9] - Data for each subject reported individually.

## Statistical analyses

No statistical analyses for this end point

## Secondary: Pharmacokinetics: Tmax of Oseltamivir in Adolescents and Children

|                                                                                                                                                                                                                                                                                                                                                                         |                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| End point title                                                                                                                                                                                                                                                                                                                                                         | Pharmacokinetics: Tmax of Oseltamivir in Adolescents and Children |
| End point description:                                                                                                                                                                                                                                                                                                                                                  |                                                                   |
| The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adolescents and children < 18 years. Individual data are provided as subjects received different drug doses. Drug dose is indicated in the row title for each subject. |                                                                   |
| End point type                                                                                                                                                                                                                                                                                                                                                          | Secondary                                                         |
| End point timeframe:                                                                                                                                                                                                                                                                                                                                                    |                                                                   |
| Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose                                                                                                                                                                                                                                                                                 |                                                                   |

|                             |                                                          |  |  |  |
|-----------------------------|----------------------------------------------------------|--|--|--|
| <b>End point values</b>     | Adolescents and Children With Pharmacokinetic Evaluation |  |  |  |
| Subject group type          | Subject analysis set                                     |  |  |  |
| Number of subjects analysed | 4 <sup>[10]</sup>                                        |  |  |  |
| Units: hour                 |                                                          |  |  |  |
| number (not applicable)     |                                                          |  |  |  |
| Conventional Dose: 60 mg    | 1                                                        |  |  |  |
| Conventional Dose: 75 mg    | 1                                                        |  |  |  |
| Double Dose: 90 mg          | 1                                                        |  |  |  |
| Double Dose: 150 mg         | 1.25                                                     |  |  |  |

Notes:

[10] - Data for each subject reported individually.

## Statistical analyses

No statistical analyses for this end point

## Secondary: Pharmacokinetics: Cmax of Oseltamivir Carboxylate in Adolescents and Children

|                 |                                                                               |
|-----------------|-------------------------------------------------------------------------------|
| End point title | Pharmacokinetics: Cmax of Oseltamivir Carboxylate in Adolescents and Children |
|-----------------|-------------------------------------------------------------------------------|

End point description:

The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adolescents and children < 18 years. Individual data are provided as subjects received different drug doses. Drug dose is indicated in the row title for each subject.

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

End point timeframe:

Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose

| End point values            | Adolescents and Children With Pharmacokinetic Evaluation |  |  |  |
|-----------------------------|----------------------------------------------------------|--|--|--|
| Subject group type          | Subject analysis set                                     |  |  |  |
| Number of subjects analysed | 4 <sup>[11]</sup>                                        |  |  |  |
| Units: ng/mL                |                                                          |  |  |  |
| number (not applicable)     |                                                          |  |  |  |
| Conventional Dose: 60 mg    | 363                                                      |  |  |  |
| Conventional Dose: 75 mg    | 848                                                      |  |  |  |
| Double Dose: 90 mg          | 770                                                      |  |  |  |
| Double Dose: 150 mg         | 906                                                      |  |  |  |

Notes:

[11] - Data for each subject reported individually.

## Statistical analyses

No statistical analyses for this end point

## Secondary: Pharmacokinetics: Ctough of Oseltamivir Carboxylate in Adolescents and Children

|                 |                                                                                 |
|-----------------|---------------------------------------------------------------------------------|
| End point title | Pharmacokinetics: Ctough of Oseltamivir Carboxylate in Adolescents and Children |
|-----------------|---------------------------------------------------------------------------------|

End point description:

The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adolescents and children < 18 years. Individual data are provided as subjects received different drug doses. Drug dose is indicated in the row title for each subject.

|                                                                                         |           |
|-----------------------------------------------------------------------------------------|-----------|
| End point type                                                                          | Secondary |
| End point timeframe:                                                                    |           |
| Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose |           |

| End point values            | Adolescents and Children With Pharmacokinetic Evaluation |  |  |  |
|-----------------------------|----------------------------------------------------------|--|--|--|
| Subject group type          | Subject analysis set                                     |  |  |  |
| Number of subjects analysed | 4 <sup>[12]</sup>                                        |  |  |  |
| Units: ng/mL                |                                                          |  |  |  |
| number (not applicable)     |                                                          |  |  |  |
| Conventional Dose: 60 mg    | 215                                                      |  |  |  |
| Conventional Dose: 75 mg    | 459                                                      |  |  |  |
| Double Dose: 90 mg          | 445                                                      |  |  |  |
| Double Dose: 150 mg         | 464                                                      |  |  |  |

Notes:

[12] - Data for each subject reported individually.

## Statistical analyses

No statistical analyses for this end point

## Secondary: Pharmacokinetics: AUC0-12 at Steady State of Oseltamivir Carboxylate in Adolescents and Children

|                 |                                                                                                  |
|-----------------|--------------------------------------------------------------------------------------------------|
| End point title | Pharmacokinetics: AUC0-12 at Steady State of Oseltamivir Carboxylate in Adolescents and Children |
|-----------------|--------------------------------------------------------------------------------------------------|

End point description:

AUC0-12 will be reported at steady state as nanograms per hour per millilitre (ng\*h/mL). The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adolescents and children < 18 years. Individual data are provided as subjects received different drug doses. Drug dose is indicated in the row title for each subject.

|                                                                                |           |
|--------------------------------------------------------------------------------|-----------|
| End point type                                                                 | Secondary |
| End point timeframe:                                                           |           |
| Pre-dose (30 minutes), 1.5, 4, 8 hours on Day 6 or any day after the 11th dose |           |

| End point values            | Adolescents and Children With Pharmacokinetic Evaluation |  |  |  |
|-----------------------------|----------------------------------------------------------|--|--|--|
| Subject group type          | Subject analysis set                                     |  |  |  |
| Number of subjects analysed | 4 <sup>[13]</sup>                                        |  |  |  |
| Units: ng*h/mL              |                                                          |  |  |  |
| number (not applicable)     |                                                          |  |  |  |
| Conventional Dose: 60 mg    | 3550                                                     |  |  |  |
| Conventional Dose: 75 mg    | 8010                                                     |  |  |  |

|                     |      |  |  |  |
|---------------------|------|--|--|--|
| Double Dose: 90 mg  | 7460 |  |  |  |
| Double Dose: 150 mg | 8420 |  |  |  |

Notes:

[13] - Data for each subject reported individually.

## Statistical analyses

No statistical analyses for this end point

## Secondary: Pharmacokinetics: Tmax of Oseltamivir Carboxylate in Adolescents and Children

|                 |                                                                               |
|-----------------|-------------------------------------------------------------------------------|
| End point title | Pharmacokinetics: Tmax of Oseltamivir Carboxylate in Adolescents and Children |
|-----------------|-------------------------------------------------------------------------------|

End point description:

The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adolescents and children < 18 years. Individual data are provided as subjects received different drug doses. Drug dose is indicated in the row title for each subject.

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

End point timeframe:

Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose

|                             |                                                          |  |  |  |
|-----------------------------|----------------------------------------------------------|--|--|--|
| <b>End point values</b>     | Adolescents and Children With Pharmacokinetic Evaluation |  |  |  |
| Subject group type          | Subject analysis set                                     |  |  |  |
| Number of subjects analysed | 4 <sup>[14]</sup>                                        |  |  |  |
| Units: hour                 |                                                          |  |  |  |
| number (not applicable)     |                                                          |  |  |  |
| Conventional Dose: 60 mg    | 3.75                                                     |  |  |  |
| Conventional Dose: 75 mg    | 4                                                        |  |  |  |
| Double Dose: 90 mg          | 4                                                        |  |  |  |
| Double Dose: 150 mg         | 4                                                        |  |  |  |

Notes:

[14] - Data for each subject reported individually.

## Statistical analyses

No statistical analyses for this end point

## Secondary: Pharmacokinetics: Elimination Constant (ke) of Oseltamivir in Adolescents and Children

|                 |                                                                                        |
|-----------------|----------------------------------------------------------------------------------------|
| End point title | Pharmacokinetics: Elimination Constant (ke) of Oseltamivir in Adolescents and Children |
|-----------------|----------------------------------------------------------------------------------------|

End point description:

The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adolescents and children < 18 years. Individual data are provided as subjects received different drug doses. Drug dose is indicated in the row title for each subject.



|                                                                                         |           |
|-----------------------------------------------------------------------------------------|-----------|
| End point type                                                                          | Secondary |
| End point timeframe:                                                                    |           |
| Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose |           |

|                             |                                                          |  |  |  |
|-----------------------------|----------------------------------------------------------|--|--|--|
| <b>End point values</b>     | Adolescents and Children With Pharmacokinetic Evaluation |  |  |  |
| Subject group type          | Subject analysis set                                     |  |  |  |
| Number of subjects analysed | 4 <sup>[15]</sup>                                        |  |  |  |
| Units: 1/hr                 |                                                          |  |  |  |
| number (not applicable)     |                                                          |  |  |  |
| Conventional Dose: 60 mg    | 4.22                                                     |  |  |  |
| Conventional Dose: 75 mg    | 4.56                                                     |  |  |  |
| Double Dose: 90 mg          | 3.40                                                     |  |  |  |
| Double Dose: 150 mg         | 5.74                                                     |  |  |  |

Notes:

[15] - Data for each subject reported individually.

### Statistical analyses

No statistical analyses for this end point

### Secondary: Pharmacokinetics: Apparent Clearance (CL/F) of Oseltamivir in Adolescents and Children

|                 |                                                                                        |
|-----------------|----------------------------------------------------------------------------------------|
| End point title | Pharmacokinetics: Apparent Clearance (CL/F) of Oseltamivir in Adolescents and Children |
|-----------------|----------------------------------------------------------------------------------------|

End point description:

The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adolescents and children < 18 years. Individual data are provided as subjects received different drug doses. Drug dose is indicated in the row title for each subject.

|                                                                                         |           |
|-----------------------------------------------------------------------------------------|-----------|
| End point type                                                                          | Secondary |
| End point timeframe:                                                                    |           |
| Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose |           |

|                             |                                                          |  |  |  |
|-----------------------------|----------------------------------------------------------|--|--|--|
| <b>End point values</b>     | Adolescents and Children With Pharmacokinetic Evaluation |  |  |  |
| Subject group type          | Subject analysis set                                     |  |  |  |
| Number of subjects analysed | 4 <sup>[16]</sup>                                        |  |  |  |
| Units: L/hr                 |                                                          |  |  |  |
| number (not applicable)     |                                                          |  |  |  |
| Conventional Dose: 60 mg    | 263                                                      |  |  |  |
| Conventional Dose: 75 mg    | 439                                                      |  |  |  |
| Double Dose: 90 mg          | 212                                                      |  |  |  |

|                     |     |  |  |  |
|---------------------|-----|--|--|--|
| Double Dose: 150 mg | 442 |  |  |  |
|---------------------|-----|--|--|--|

Notes:

[16] - Data for each subject reported individually.

## Statistical analyses

No statistical analyses for this end point

## Secondary: Pharmacokinetics: Apparent Volume of Distribution (Vc/F) of Oseltamivir in Adolescents and Children

|                 |                                                                                                     |
|-----------------|-----------------------------------------------------------------------------------------------------|
| End point title | Pharmacokinetics: Apparent Volume of Distribution (Vc/F) of Oseltamivir in Adolescents and Children |
|-----------------|-----------------------------------------------------------------------------------------------------|

End point description:

The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adolescents and children < 18 years. Individual data are provided as subjects received different drug doses. Drug dose is indicated in the row title for each subject.

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

End point timeframe:

Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose

|                             |                                                          |  |  |  |
|-----------------------------|----------------------------------------------------------|--|--|--|
| <b>End point values</b>     | Adolescents and Children With Pharmacokinetic Evaluation |  |  |  |
| Subject group type          | Subject analysis set                                     |  |  |  |
| Number of subjects analysed | 4 <sup>[17]</sup>                                        |  |  |  |
| Units: Litre                |                                                          |  |  |  |
| number (not applicable)     |                                                          |  |  |  |
| Conventional Dose: 60 mg    | 62.3                                                     |  |  |  |
| Conventional Dose: 75 mg    | 96.4                                                     |  |  |  |
| Double Dose: 90 mg          | 62.3                                                     |  |  |  |
| Double Dose: 150 mg         | 76.9                                                     |  |  |  |

Notes:

[17] - Data for each subject reported individually.

## Statistical analyses

No statistical analyses for this end point

## Secondary: Pharmacokinetics: Elimination Constant (ke) of Oseltamivir Carboxylate in Adolescents and Children

|                 |                                                                                                    |
|-----------------|----------------------------------------------------------------------------------------------------|
| End point title | Pharmacokinetics: Elimination Constant (ke) of Oseltamivir Carboxylate in Adolescents and Children |
|-----------------|----------------------------------------------------------------------------------------------------|

End point description:

The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adolescents and children < 18 years. Individual data are provided as subjects received different drug doses. Drug dose is indicated in the row title for each subject.

|                                                                                         |           |
|-----------------------------------------------------------------------------------------|-----------|
| End point type                                                                          | Secondary |
| End point timeframe:                                                                    |           |
| Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose |           |

|                             |                                                          |  |  |  |
|-----------------------------|----------------------------------------------------------|--|--|--|
| <b>End point values</b>     | Adolescents and Children With Pharmacokinetic Evaluation |  |  |  |
| Subject group type          | Subject analysis set                                     |  |  |  |
| Number of subjects analysed | 4 <sup>[18]</sup>                                        |  |  |  |
| Units: 1/hr                 |                                                          |  |  |  |
| number (not applicable)     |                                                          |  |  |  |
| Conventional Dose: 60 mg    | 2.01                                                     |  |  |  |
| Conventional Dose: 75 mg    | 1.12                                                     |  |  |  |
| Double Dose: 90 mg          | 1.44                                                     |  |  |  |
| Double Dose: 150 mg         | 2.12                                                     |  |  |  |

Notes:

[18] - Data for each subject reported individually.

## Statistical analyses

No statistical analyses for this end point

## Secondary: Pharmacokinetics: Apparent Clearance (CL/F), of Oseltamivir Carboxylate in Adolescents and Children

|                 |                                                                                                     |
|-----------------|-----------------------------------------------------------------------------------------------------|
| End point title | Pharmacokinetics: Apparent Clearance (CL/F), of Oseltamivir Carboxylate in Adolescents and Children |
|-----------------|-----------------------------------------------------------------------------------------------------|

End point description:

The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adolescents and children < 18 years. Individual data are provided as subjects received different drug doses. Drug dose is indicated in the row title for each subject.

|                                                                                         |           |
|-----------------------------------------------------------------------------------------|-----------|
| End point type                                                                          | Secondary |
| End point timeframe:                                                                    |           |
| Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose |           |

|                             |                                                          |  |  |  |
|-----------------------------|----------------------------------------------------------|--|--|--|
| <b>End point values</b>     | Adolescents and Children With Pharmacokinetic Evaluation |  |  |  |
| Subject group type          | Subject analysis set                                     |  |  |  |
| Number of subjects analysed | 4 <sup>[19]</sup>                                        |  |  |  |
| Units: L/hr                 |                                                          |  |  |  |
| number (not applicable)     |                                                          |  |  |  |
| Conventional Dose: 60 mg    | 16.9                                                     |  |  |  |
| Conventional Dose: 75 mg    | 9.36                                                     |  |  |  |
| Double Dose: 90 mg          | 12.1                                                     |  |  |  |

|                     |      |  |  |  |
|---------------------|------|--|--|--|
| Double Dose: 150 mg | 17.8 |  |  |  |
|---------------------|------|--|--|--|

Notes:

[19] - Data for each subject reported individually.

## Statistical analyses

No statistical analyses for this end point

## Secondary: Pharmacokinetics: Apparent Volume of Distribution (Vc/F) of Oseltamivir Carboxylate in Adolescents and Children

|                 |                                                                                                                 |
|-----------------|-----------------------------------------------------------------------------------------------------------------|
| End point title | Pharmacokinetics: Apparent Volume of Distribution (Vc/F) of Oseltamivir Carboxylate in Adolescents and Children |
|-----------------|-----------------------------------------------------------------------------------------------------------------|

End point description:

The PKEP population comprised all subjects in the ITT population who had at least one valid post-dose drug concentration measurement at a scheduled visit time point. Reported here are data for adolescents and children < 18 years. Individual data are provided as subjects received different drug doses. Drug dose is indicated in the row title for each subject.

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

End point timeframe:

Pre-dose (30 minutes), 1.5, 4, 8 hours postdose on Day 6 or any day after the 11th dose

|                             |                                                          |  |  |  |
|-----------------------------|----------------------------------------------------------|--|--|--|
| <b>End point values</b>     | Adolescents and Children With Pharmacokinetic Evaluation |  |  |  |
| Subject group type          | Subject analysis set                                     |  |  |  |
| Number of subjects analysed | 4 <sup>[20]</sup>                                        |  |  |  |
| Units: Litre                |                                                          |  |  |  |
| number (not applicable)     |                                                          |  |  |  |
| Conventional Dose: 60 mg    | 8.39                                                     |  |  |  |
| Conventional Dose: 75 mg    | 8.39                                                     |  |  |  |
| Double Dose: 90 mg          | 8.39                                                     |  |  |  |
| Double Dose: 150 mg         | 8.39                                                     |  |  |  |

Notes:

[20] - Data for each subject reported individually.

## Statistical analyses

No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Baseline up to Day 40

Adverse event reporting additional description:

The safety population included all subjects who received at least one treatment with study medication.

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

### Dictionary used

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

|                    |      |
|--------------------|------|
| Dictionary version | 20.0 |
|--------------------|------|

### Reporting groups

|                       |                           |
|-----------------------|---------------------------|
| Reporting group title | Experimental: Double dose |
|-----------------------|---------------------------|

Reporting group description:

Immunocompromised participants will receive oseltamivir syrup at a dose ranging from 60 to 150 mg based on body weight, twice daily for children (1 to 12 years old) and oseltamivir capsules 150 mg twice daily for adults/adolescents ( $\geq 13$  years old) or placebo matched to oseltamivir twice daily over 10 days.

|                       |                                 |
|-----------------------|---------------------------------|
| Reporting group title | Experimental: Conventional dose |
|-----------------------|---------------------------------|

Reporting group description:

Immunocompromised participants will receive oseltamivir syrup at a dose ranging from 30 to 75 mg based on body weight, twice daily for children (1 to 12 years old) and oseltamivir capsules 75 mg twice daily for adults/adolescents greater than or equal to ( $\geq 13$  years old) or placebo-matched to oseltamivir twice daily over 10 days.

| Serious adverse events                                              | Experimental:<br>Double dose | Experimental:<br>Conventional dose |  |
|---------------------------------------------------------------------|------------------------------|------------------------------------|--|
| Total subjects affected by serious adverse events                   |                              |                                    |  |
| subjects affected / exposed                                         | 10 / 110 (9.09%)             | 8 / 105 (7.62%)                    |  |
| number of deaths (all causes)                                       | 1                            | 0                                  |  |
| number of deaths resulting from adverse events                      | 0                            | 0                                  |  |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) |                              |                                    |  |
| Leukaemia recurrent                                                 |                              |                                    |  |
| subjects affected / exposed                                         | 1 / 110 (0.91%)              | 0 / 105 (0.00%)                    |  |
| occurrences causally related to treatment / all                     | 0 / 1                        | 0 / 0                              |  |
| deaths causally related to treatment / all                          | 0 / 0                        | 0 / 0                              |  |
| Metastases of meninges                                              |                              |                                    |  |
| subjects affected / exposed                                         | 0 / 110 (0.00%)              | 1 / 105 (0.95%)                    |  |
| occurrences causally related to treatment / all                     | 0 / 0                        | 0 / 1                              |  |
| deaths causally related to treatment / all                          | 0 / 0                        | 0 / 0                              |  |
| Blood and lymphatic system disorders                                |                              |                                    |  |
| Febrile neutropenia                                                 |                              |                                    |  |

|                                                      |                 |                 |  |
|------------------------------------------------------|-----------------|-----------------|--|
| subjects affected / exposed                          | 1 / 110 (0.91%) | 1 / 105 (0.95%) |  |
| occurrences causally related to treatment / all      | 0 / 1           | 0 / 1           |  |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           |  |
| Anaemia                                              |                 |                 |  |
| subjects affected / exposed                          | 0 / 110 (0.00%) | 1 / 105 (0.95%) |  |
| occurrences causally related to treatment / all      | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           |  |
| Thrombocytopenia                                     |                 |                 |  |
| subjects affected / exposed                          | 1 / 110 (0.91%) | 0 / 105 (0.00%) |  |
| occurrences causally related to treatment / all      | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           |  |
| General disorders and administration site conditions |                 |                 |  |
| Asthenia                                             |                 |                 |  |
| subjects affected / exposed                          | 1 / 110 (0.91%) | 0 / 105 (0.00%) |  |
| occurrences causally related to treatment / all      | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           |  |
| Pyrexia                                              |                 |                 |  |
| subjects affected / exposed                          | 1 / 110 (0.91%) | 0 / 105 (0.00%) |  |
| occurrences causally related to treatment / all      | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           |  |
| Gastrointestinal disorders                           |                 |                 |  |
| Diarrhoea                                            |                 |                 |  |
| subjects affected / exposed                          | 1 / 110 (0.91%) | 0 / 105 (0.00%) |  |
| occurrences causally related to treatment / all      | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all           | 0 / 0           | 0 / 0           |  |
| Renal and urinary disorders                          |                 |                 |  |
| Renal failure                                        |                 |                 |  |
| subjects affected / exposed                          | 1 / 110 (0.91%) | 0 / 105 (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                     | 1 / 110 (0.91%) | 2 / 105 (1.90%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 2           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Bronchopulmonary aspergillosis                  |                 |                 |  |
| subjects affected / exposed                     | 2 / 110 (1.82%) | 0 / 105 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 2           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Lower respiratory tract infection               |                 |                 |  |
| subjects affected / exposed                     | 1 / 110 (0.91%) | 0 / 105 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Oral herpes                                     |                 |                 |  |
| subjects affected / exposed                     | 0 / 110 (0.00%) | 1 / 105 (0.95%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Pyelonephritis                                  |                 |                 |  |
| subjects affected / exposed                     | 0 / 110 (0.00%) | 1 / 105 (0.95%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Sepsis                                          |                 |                 |  |
| subjects affected / exposed                     | 1 / 110 (0.91%) | 0 / 105 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Septic shock                                    |                 |                 |  |
| subjects affected / exposed                     | 0 / 110 (0.00%) | 1 / 105 (0.95%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Sinusitis                                       |                 |                 |  |
| subjects affected / exposed                     | 1 / 110 (0.91%) | 0 / 105 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |

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

| <b>Non-serious adverse events</b>                     | Experimental:<br>Double dose | Experimental:<br>Conventional dose |  |
|-------------------------------------------------------|------------------------------|------------------------------------|--|
| Total subjects affected by non-serious adverse events |                              |                                    |  |
| subjects affected / exposed                           | 65 / 110 (59.09%)            | 53 / 105 (50.48%)                  |  |
| Nervous system disorders                              |                              |                                    |  |
| Headache                                              |                              |                                    |  |
| subjects affected / exposed                           | 12 / 110 (10.91%)            | 5 / 105 (4.76%)                    |  |
| occurrences (all)                                     | 14                           | 6                                  |  |
| Gastrointestinal disorders                            |                              |                                    |  |
| Diarrhoea                                             |                              |                                    |  |
| subjects affected / exposed                           | 11 / 110 (10.00%)            | 10 / 105 (9.52%)                   |  |
| occurrences (all)                                     | 15                           | 11                                 |  |
| Nausea                                                |                              |                                    |  |
| subjects affected / exposed                           | 14 / 110 (12.73%)            | 10 / 105 (9.52%)                   |  |
| occurrences (all)                                     | 18                           | 11                                 |  |
| Vomiting                                              |                              |                                    |  |
| subjects affected / exposed                           | 12 / 110 (10.91%)            | 10 / 105 (9.52%)                   |  |
| occurrences (all)                                     | 14                           | 10                                 |  |



## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date              | Amendment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 31 July 2008      | In Amendment B, the following significant changes were made: 1) A more timely assessment of baseline nasal and throat swab samples for oseltamivir-resistant virus was added due to the significant increase in oseltamivir-resistant viruses circulating within many countries identified by routine influenza virus surveillance during the 2007/2008 influenza season. Results of real-time PCR-based resistance testing were to be reported promptly to clinical sites to assist in determining the most appropriate treatment options for individual subjects. 2) New criterion was added for premature withdrawal of subjects from study treatment if additional antivirals were added to the patient's treatment regimen. The protocol was modified to allow replacement of subjects identified as having oseltamivir-resistant influenza virus at baseline by enrolling subjects on a rolling basis. 3) Clarification was made to allow treatment with other antivirals, if in the best interest of the patients and provided study oseltamivir was discontinued. 4) Efficacy data from subjects receiving other antivirals after discontinuing oseltamivir treatment were excluded from efficacy analyses after the date of commencement of other antiviral treatment and these subjects considered as treatment failures. The definition of the ITTi population was revised to exclude subjects with oseltamivir-resistant influenza A H1N1 H274Y virus at baseline. |
| 28 March 2011     | In Amendment C, the following significant changes were made: 1) Because of the need to enroll subjects within 48 hours of the onset of influenza, a number of subjects were ineligible for screening. Inclusion criteria were therefore modified to broaden the time between onset of influenza-like symptoms and first dose of study drug from 48 hours to 96 hours. 2) PCR and culture were added as diagnostic tests at baseline to overcome the high screening failure rate due to low sensitivity of rapid diagnostic tests. 3) The primary objective of the study was revised to become a descriptive characterization of safety, tolerability and resistance. 4) The sample size and number of participating centers were revised to reflect the amended study primary objective. 5) The criteria for withdrawal of subjects with renal failure was stated as subjects with creatinine clearance < 60 mL/min/1.73m <sup>2</sup> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 28 September 2012 | In Amendment D, the following significant changes were made: 1) The protocol was amended to include the Southern Hemisphere and allow global enrollment into the trial. Inclusion and exclusion criteria were amended to facilitate enrollment of as much of the immunocompromised population as possible. 2) The protocol was revised to allow self-swabbing at home when there was a home visit planned, thereby allowing shipment of the sample in an expedited manner. 3) The pharmacokinetic component of the study (removed in Amendment B) was reintroduced using a sparse PK sampling schedule not requiring blood a sample collection on multiple days and which was available to subjects who provided additional consent to that of the main study.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 30 October 2013   | In Amendment E, the following significant changes were made: 1) The protocol was amended to provide clarity and additional guidance on the inclusion criteria regarding CD4 cell counts for subjects with human immunodeficiency virus (HIV). 2) The criteria for withdrawal of subjects with renal failure was revised to state subjects with creatinine clearance < 45 mL/min/1.73m <sup>2</sup> . A lower limit of 45 mL/min for creatinine clearance was used to allow for subjects with mild to moderate renal impairment. 3) The statistical methods section was updated to include an overview of the planned pharmacokinetic analysis. 4) Removal of exclusion criterion for subjects who "have evidence of a serious secondary respiratory or disseminated infection that may confound or overlay the diagnosis and/or symptomatology of influenza" to prevent ambiguity around the category of subjects who should not be enrolled.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

|              |                                                                                                                                                                                                                                                                                                                                                                                |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18 June 2014 | In Amendment F, the following significant change was made:<br>Throughout the protocol, 'oseltamivir' was re-introduced to all pharmacokinetic analysis sections, as applicable as both oseltamivir (parent) and oseltamivir carboxylate (metabolite) plasma concentrations were to be determined from blood samples. The term was inadvertently removed in protocol Version E. |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Notes:

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## **Interruptions (globally)**

Were there any global interruptions to the trial? No

## **Limitations and caveats**

None reported