



## Clinical trial results:

**An open label, intravenous to oral switch, multiple dose study to evaluate the pharmacokinetics, safety and tolerability of voriconazole in immunocompromised adolescents aged 12 to less than (<) 17 years who were at high risk for systemic fungal infection**

### Summary

EudraCT number	2012-001151-39
Trial protocol	Outside EU/EEA
Global end of trial date	02 December 2009

### Results information

Result version number	v1 (current)
This version publication date	13 April 2016
First version publication date	29 July 2015

### Trial information

#### Trial identification

Sponsor protocol code	A1501081
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#### Additional study identifiers

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	NCT00556998
WHO universal trial number (UTN)	-

Notes:

### Sponsors

Sponsor organisation name	Pfizer Inc.
Sponsor organisation address	235 East 42nd Street, New York, United States, NY 10017
Public contact	Pfizer Clinical Trials.gov Call Center, Pfizer Inc., 001 8007181021, ClinicalTrials.govCallCenter@pfizer.com
Scientific contact	Pfizer Clinical Trials.gov Call Center, Pfizer Inc., 001 8007181021, ClinicalTrials.govCallCenter@pfizer.com

Notes:

### Paediatric regulatory details

Is trial part of an agreed paediatric investigation plan (PIP)	Yes
EMA paediatric investigation plan number(s)	EMA-000191-PIP01-08
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:

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**Results analysis stage**

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Analysis stage	Final
Date of interim/final analysis	24 May 2010
Is this the analysis of the primary completion data?	No

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Global end of trial reached?	Yes
Global end of trial date	02 December 2009
Was the trial ended prematurely?	No

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Notes:

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**General information about the trial**

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Main objective of the trial:

To characterize the pharmacokinetics of voriconazole following an intravenous (IV) to oral switch regimen in immunocompromised adolescent subjects aged 12 to <17 years who were at high risk for systemic fungal infection.

Protection of trial subjects:

This study was conducted in compliance with the ethical principles originating in or derived from the Declaration of Helsinki and in compliance with all International Conference on Harmonization (ICH) Good Clinical Practice (GCP) Guidelines. In addition, all local regulatory requirements were followed, in particular, those affording greater protection to the safety of trial subjects.

Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	10 June 2008
Long term follow-up planned	No
Independent data monitoring committee (IDMC) involvement?	No

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Notes:

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**Population of trial subjects**

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**Subjects enrolled per country**

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Country: Number of subjects enrolled	United States: 26
Worldwide total number of subjects	26
EEA total number of subjects	0

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Notes:

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**Subjects enrolled per age group**

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In utero	0
Preterm newborn - gestational age < 37 wk	0
Newborns (0-27 days)	0
Infants and toddlers (28 days-23 months)	0
Children (2-11 years)	0
Adolescents (12-17 years)	26
Adults (18-64 years)	0
From 65 to 84 years	0

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85 years and over	0
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## Subject disposition

### Recruitment

Recruitment details: -

### Pre-assignment

Screening details:

Total 26 subjects were recruited from 10 sites in United States. Study started on 10 June 2008 and completed on 02 December 2009.

### Period 1

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

### Arms

Arm title	All Subjects
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Arm description:

Voriconazole intravenous (IV) loading doses every 12 hours on Day 1 and maintenance IV doses every 12 hours on Days 2 to 7 (up to Day 20 if clinically indicated). The oral maintenance dosing regimen was administered following voriconazole IV and lasted 6.5 days (up to Day 30 if clinically indicated).

Arm type	Experimental
Investigational medicinal product name	Voriconazole
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion, Oral suspension
Routes of administration	Intravenous use, Oral use

Dosage and administration details:

Voriconazole IV loading dose of 6 milligram per kilogram (mg/kg) in the morning and evening on Day 1 and multiple IV doses of 4 mg/kg in the morning and evening on Days 2 to 7, up to Day 20 if clinically indicated. Oral maintenance dosing regimen of 300 mg every 12 hours or 150 mg every 12 hours if subject weighed less than 40 kg was administered following voriconazole IV and lasted 6.5 days, up to Day 30 if clinically indicated. One subject received 2 days of oral regimen then received IV again before discontinuing from study.

<b>Number of subjects in period 1</b>	All Subjects
Started	26
Completed	26

**Period 2**

Period 2 title	Voriconazole IV
Is this the baseline period?	No
Allocation method	Not applicable
Blinding used	Not blinded

**Arms**

<b>Arm title</b>	Voriconazole IV
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Arm description:

Voriconazole IV loading doses every 12 hours on Day 1 and maintenance IV doses every 12 hours on Days 2 to 7 (up to Day 20 if clinically indicated).

Arm type	Experimental
Investigational medicinal product name	Voriconazole
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

Voriconazole IV loading dose (6 mg/kg every 12 hours) in the morning and evening on Day 1 and multiple IV doses (4 mg/kg every 12 hours) in the morning and evening on Days 2 to 7, up to Day 20 if clinically indicated. One subject received 2 days of oral regimen then received IV again before discontinuing from

<b>Number of subjects in period 2</b>	Voriconazole IV
Started	26
Completed	21
Not completed	5
Adverse event	1
Unspecified	4

**Period 3**

Period 3 title	Voriconazole Oral
Is this the baseline period?	No
Allocation method	Not applicable
Blinding used	Not blinded

**Arms**

<b>Arm title</b>	Voriconazole Oral
Arm description: Voriconazole oral doses were administered following voriconazole IV and lasted 6.5 days (up to Day 30 if clinically indicated).	
Arm type	Experimental
Investigational medicinal product name	Voriconazole
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Oral suspension
Routes of administration	Oral use

**Dosage and administration details:**

The oral maintenance dosing regimen of 300 mg every 12 hours or 150 mg every 12 hours if subject weighed less than 40 kg was administered following voriconazole IV and lasted 6.5 days, up to Day 30 if clinically indicated. One subject received voriconazole 150 mg every 12 hours during oral phase.

<b>Number of subjects in period 3</b>	Voriconazole Oral
Started	21
Completed	20
Not completed	1
Adverse event	1

## Baseline characteristics

### Reporting groups

Reporting group title	All Subjects
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Reporting group description:

Voriconazole intravenous (IV) loading doses every 12 hours on Day 1 and maintenance IV doses every 12 hours on Days 2 to 7 (up to Day 20 if clinically indicated). The oral maintenance dosing regimen was administered following voriconazole IV and lasted 6.5 days (up to Day 30 if clinically indicated).

Reporting group values	All Subjects	Total	
Number of subjects	26	26	
Age categorical			
Units: Subjects			
12 years	4	4	
13 years	10	10	
Greater than (>) 13 to >17 years	12	12	
Age continuous			
Units: years			
arithmetic mean	13.7		
standard deviation	± 1.3	-	
Gender categorical			
Units: Subjects			
Female	9	9	
Male	17	17	

## End points

### End points reporting groups

Reporting group title	All Subjects
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Reporting group description:

Voriconazole intravenous (IV) loading doses every 12 hours on Day 1 and maintenance IV doses every 12 hours on Days 2 to 7 (up to Day 20 if clinically indicated). The oral maintenance dosing regimen was administered following voriconazole IV and lasted 6.5 days (up to Day 30 if clinically indicated).

Reporting group title	Voriconazole IV
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Reporting group description:

Voriconazole IV loading doses every 12 hours on Day 1 and maintenance IV doses every 12 hours on Days 2 to 7 (up to Day 20 if clinically indicated).

Reporting group title	Voriconazole Oral
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Reporting group description:

Voriconazole oral doses were administered following voriconazole IV and lasted 6.5 days (up to Day 30 if clinically indicated).

### Primary: Area Under the Curve Over Dosing Interval at Steady State (AUC<sub>12,ss</sub>) Following IV Administration

End point title	Area Under the Curve Over Dosing Interval at Steady State (AUC <sub>12,ss</sub> ) Following IV Administration <sup>[1]</sup>
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End point description:

AUC<sub>12,ss</sub> = Area under the plasma concentration-time profile from time zero (predose) to twelve hours at steady-state. AUC<sub>12,ss</sub> was obtained by the Linear/Log trapezoidal method. Intent to treat (ITT) population of subjects who had completed pharmacokinetic (PK) blood sampling for at least one day.

End point type	Primary
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End point timeframe:

Day 7 (up to Day 20) at predose, 40, 78 minutes, 4, 6, 8 and 12 hours after start of infusion

Notes:

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

Justification: Only descriptive data was planned to be reported.

<b>End point values</b>	Voriconazole IV			
Subject group type	Reporting group			
Number of subjects analysed	23 <sup>[2]</sup>			
Units: microgram (mcg)*hour (h)/milliliter (mL)				
geometric mean (standard deviation)	22.39 (± 21.47)			

Notes:

[2] - Number of subjects with analyzable data.

## Statistical analyses



No statistical analyses for this end point

### Primary: Peak Plasma Concentration at Steady State (C<sub>max,ss</sub>) Following IV Administration

End point title	Peak Plasma Concentration at Steady State (C <sub>max,ss</sub> ) Following IV Administration <sup>[3]</sup>
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End point description:

ITT population of subjects who had completed PK blood sampling for at least one day.

End point type	Primary
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End point timeframe:

Day 7 (up to Day 20) at predose, 40, 78 minutes, 4, 6, 8 and 12 hours after start of infusion

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: Only descriptive data was planned to be reported.

End point values	Voriconazole IV			
Subject group type	Reporting group			
Number of subjects analysed	23 <sup>[4]</sup>			
Units: mcg/mL				
geometric mean (standard deviation)	3.89 (± 2.59)			

Notes:

[4] - Number of subjects with analyzable data.

### Statistical analyses

No statistical analyses for this end point

### Primary: Time to Reach C<sub>max</sub> (T<sub>max</sub>) Following IV Administration

End point title	Time to Reach C <sub>max</sub> (T <sub>max</sub> ) Following IV Administration <sup>[5]</sup>
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End point description:

ITT population of subjects who had completed PK blood sampling for at least one day.

End point type	Primary
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End point timeframe:

Day 7 (up to Day 20) at predose, 40, 78 minutes, 4, 6, 8 and 12 hours after start of infusion

Notes:

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

Justification: Only descriptive data was planned to be reported.

End point values	Voriconazole IV			
Subject group type	Reporting group			
Number of subjects analysed	23 <sup>[6]</sup>			
Units: hours				
median (full range (min-max))	1.3 (1.17 to 3.95)			

Notes:

[6] - Number of subjects with analyzable data.

### Statistical analyses

No statistical analyses for this end point

### Primary: AUC12,ss Following Oral Administration

End point title	AUC12,ss Following Oral Administration <sup>[7]</sup>
End point description: AUC12,ss = Area under the plasma concentration-time profile from time zero (predose) to twelve hours at steady-state. AUC12,ss was obtained by the Linear/Log trapezoidal method. ITT population of subjects who had completed PK blood sampling for at least one day.	
End point type	Primary
End point timeframe: Day 7 (up to Day 30) at predose, 1, 2, 4, 6, 8, and 12 hours postdose	

Notes:

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

Justification: Only descriptive data was planned to be reported.

End point values	Voriconazole Oral			
Subject group type	Reporting group			
Number of subjects analysed	19 <sup>[8]</sup>			
Units: mcg*h/mL				
geometric mean (standard deviation)	16.74 (± 13.5)			

Notes:

[8] - Number of subjects with analyzable data.

### Statistical analyses

No statistical analyses for this end point

### Primary: Cmax,ss Following Oral Administration

End point title	Cmax,ss Following Oral Administration <sup>[9]</sup>
End point description: ITT population of subjects who had completed PK blood sampling for at least one day.	
End point type	Primary
End point timeframe: Day 7 (up to Day 30) at predose, 1, 2, 4, 6, 8, and 12 hours postdose	

Notes:

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

Justification: Only descriptive data was planned to be reported.

End point values	Voriconazole Oral			
Subject group type	Reporting group			
Number of subjects analysed	19 <sup>[10]</sup>			
Units: mcg/mL				
geometric mean (standard deviation)	2.35 (± 1.41)			

Notes:

[10] - Number of subjects with analyzable data.

### Statistical analyses

No statistical analyses for this end point

### Primary: Tmax Following Oral Administration

End point title	Tmax Following Oral Administration <sup>[11]</sup>
End point description: ITT population of subjects who had completed PK blood sampling for at least one day.	
End point type	Primary
End point timeframe: Day 7 (up to Day 30) Predose, 1, 2, 4, 6, 8, and 12 hours postdose	

Notes:

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

Justification: Only descriptive data was planned to be reported.

End point values	Voriconazole Oral			
Subject group type	Reporting group			
Number of subjects analysed	19 <sup>[12]</sup>			
Units: hours				
median (full range (min-max))	2 (0.67 to 8.1)			

Notes:

[12] - Number of subjects with analyzable data.

### Statistical analyses

No statistical analyses for this end point

### Secondary: AUC12 Following IV Loading Dose

End point title	AUC12 Following IV Loading Dose
End point description: AUC12 = Area under the plasma concentration-time profile from time zero (predose) to twelve hours. AUC12 was obtained by the Linear/Log trapezoidal method. ITT population of subjects who had completed PK blood sampling for at least one day.	
End point type	Secondary
End point timeframe: Day 1 at predose, 60, 118 minutes, 4, 6, 8 and 12 hours after start of infusion	

End point values	Voriconazole IV			
Subject group type	Reporting group			
Number of subjects analysed	22 <sup>[13]</sup>			
Units: mcg*h/mL				
geometric mean (standard deviation)	9.14 (± 4.9)			

Notes:

[13] - Number of subjects with analyzable data.

### Statistical analyses

No statistical analyses for this end point

### Secondary: Tmax Following an IV Loading Dose

End point title	Tmax Following an IV Loading Dose
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End point description:

ITT population of subjects who had completed PK blood sampling for at least one day.

End point type	Secondary
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End point timeframe:

Day 1 at predose, 60, 118 minutes, 4, 6, 8 and 12 hours after start of infusion

End point values	All Subjects			
Subject group type	Reporting group			
Number of subjects analysed	22 <sup>[14]</sup>			
Units: hours				
median (full range (min-max))	1.97 (1.9 to 2.08)			

Notes:

[14] - N signifies number of subjects with analyzable data.

### Statistical analyses

No statistical analyses for this end point

### Secondary: Cmax Following an IV Loading Dose

End point title	Cmax Following an IV Loading Dose
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End point description:

ITT population of subjects who had completed PK blood sampling for at least one day.

End point type	Secondary
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End point timeframe:

Day 1 at predose, 60, 118 minutes, 4, 6, 8 and 12 hours after start of infusion

End point values	Voriconazole IV			
Subject group type	Reporting group			
Number of subjects analysed	22 <sup>[15]</sup>			
Units: mcg/mL				
geometric mean (standard deviation)	2.25 (± 0.86)			

Notes:

[15] - Number of subjects with analyzable data.

### Statistical analyses

No statistical analyses for this end point

### Secondary: Minimum Observed Plasma Trough Concentration (Cmin)

End point title	Minimum Observed Plasma Trough Concentration (Cmin)
End point description: ITT population of subjects who had completed PK blood sampling for at least one day. Here 'n', signifies the number of subjects who contributed to the data.	
End point type	Secondary
End point timeframe: Day 7 (up to Day 20) for IV; Day 7 (up to Day 30) for oral at predose	

<b>End point values</b>	All Subjects			
Subject group type	Reporting group			
Number of subjects analysed	21 <sup>[16]</sup>			
Units: mcg/mL				
geometric mean (standard deviation)				
IV Day 7 (up to Day 20) (n=21)	1.05 (± 1.85)			
Oral Day 7 (up to Day 30) (n=19)	0.72 (± 0.81)			

Notes:

[16] - Number of subjects with analyzable data.

### Statistical analyses

No statistical analyses for this end point

### Secondary: AUC<sub>12,ss</sub> of N-oxide Voriconazole Metabolite (UK-121, 265) Following IV Administration

End point title	AUC <sub>12,ss</sub> of N-oxide Voriconazole Metabolite (UK-121, 265) Following IV Administration
End point description: AUC <sub>12,ss</sub> = Area under the plasma concentration-time profile from time zero (predose) to twelve hours at steady-state. AUC <sub>12,ss</sub> was obtained by the Linear/Log trapezoidal method. ITT population of subjects who had completed PK blood sampling for at least one day.	
End point type	Secondary
End point timeframe: Day 1 at predose, 60, 118 minutes, 4, 6, 8 and 12 hours after start of infusion, Day 7 (up to Day 20) at predose, 40, 78 minutes, 4, 6 8 and 12 hours after start of infusion	

<b>End point values</b>	Voriconazole IV			
Subject group type	Reporting group			
Number of subjects analysed	25 <sup>[17]</sup>			
Units: mcg*h/mL				
geometric mean (standard deviation)				
Day 1	21.18 (± 6.8)			
Day 7 (up to Day 20)	36.21 (± 9.2)			

Notes:

[17] - Number of subjects with analyzable data.

## Statistical analyses

No statistical analyses for this end point

### Secondary: C<sub>max,ss</sub> of N-oxide Voriconazole Metabolite (UK-121, 265) Following IV Administration

End point title	C <sub>max,ss</sub> of N-oxide Voriconazole Metabolite (UK-121, 265) Following IV Administration
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End point description:

ITT population of subjects who had completed PK blood sampling for at least one day.

End point type	Secondary
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End point timeframe:

Day 1 at predose, 60, 118 minutes, 4, 6, 8 and 12 hours after start of infusion and on Day 7 (up to Day 20) at predose, 40, 78 minutes, 4, 6 8 and 12 hours after start of infusion

End point values	Voriconazole IV			
Subject group type	Reporting group			
Number of subjects analysed	25 <sup>[18]</sup>			
Units: mcg/mL				
geometric mean (standard deviation)				
Day 1	2.5 (± 0.84)			
Day 7 (up to Day 20)	3.48 (± 0.73)			

Notes:

[18] - Number of subjects with analyzable data.

## Statistical analyses

No statistical analyses for this end point

### Secondary: T<sub>max</sub> of N-oxide Voriconazole Metabolite (UK-121, 265) Following IV Administration

End point title	T <sub>max</sub> of N-oxide Voriconazole Metabolite (UK-121, 265) Following IV Administration
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End point description:

ITT population of subjects who had completed PK blood sampling for at least one day.

End point type	Secondary
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End point timeframe:

Day 1 at predose, 60, 118 minutes, 4, 6, 8 and 12 hours after start of infusion and on Day 7 (up to Day 20) at predose, 40, 78 minutes, 4, 6 8 and 12 hours after start of infusion

<b>End point values</b>	Voriconazole IV			
Subject group type	Reporting group			
Number of subjects analysed	25 <sup>[19]</sup>			
Units: mcg*h/mL				
median (full range (min-max))				
Day 1	4 (1.97 to 8.03)			
Day 7 (up to Day 20)	4.03 (0 to 12.1)			

Notes:

[19] - Number of subjects with analyzable data.

### Statistical analyses

No statistical analyses for this end point

### Secondary: AUC<sub>12,ss</sub> of N-oxide Voriconazole Metabolite (UK-121, 265) Following Oral Administration

End point title	AUC <sub>12,ss</sub> of N-oxide Voriconazole Metabolite (UK-121, 265) Following Oral Administration
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End point description:

AUC<sub>12,ss</sub> = Area under the plasma concentration-time profile from time zero (predose) to twelve hours at steady-state. AUC<sub>12,ss</sub> was obtained by the Linear/Log trapezoidal method. ITT population of subjects who had completed PK blood sampling for at least one day.

End point type	Secondary
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End point timeframe:

On Day 7 (up to Day 30) at predose, 1, 2, 4, 6, 8, and 12 hours postdose

<b>End point values</b>	Voriconazole Oral			
Subject group type	Reporting group			
Number of subjects analysed	19 <sup>[20]</sup>			
Units: mcg*h/mL				
geometric mean (standard deviation)	44.07 (± 13.86)			

Notes:

[20] - Number of subjects with analyzable data.

### Statistical analyses

No statistical analyses for this end point

### Secondary: C<sub>max,ss</sub> of N-oxide Voriconazole Metabolite (UK-121, 265) Following Oral Administration

End point title	C <sub>max,ss</sub> of N-oxide Voriconazole Metabolite (UK-121, 265) Following Oral Administration
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End point description:

ITT population of subjects who had completed PK blood sampling for at least one day.

End point type	Secondary
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End point timeframe:

Day 7 (up to Day 30) at predose, 1, 2, 4, 6, 8, and 12 hours postdose

<b>End point values</b>	Voriconazole Oral			
Subject group type	Reporting group			
Number of subjects analysed	19 <sup>[21]</sup>			
Units: µg/mL				
geometric mean (standard deviation)	4.44 (± 1.43)			

Notes:

[21] - Number of subjects with analyzable data.

### Statistical analyses

No statistical analyses for this end point

### Secondary: Tmax of N-oxide Voriconazole Metabolite (UK-121, 265) Following Oral Administration

End point title	Tmax of N-oxide Voriconazole Metabolite (UK-121, 265) Following Oral Administration
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End point description:

ITT population of subjects who had completed PK blood sampling for at least one day.

End point type	Secondary
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End point timeframe:

Day 7 (up to Day 30) at predose, 1, 2, 4, 6, 8, and 12 hours postdose

<b>End point values</b>	Voriconazole Oral			
Subject group type	Reporting group			
Number of subjects analysed	19			
Units: hours				
median (full range (min-max))	5.97 (1 to 8.1)			

### Statistical analyses

No statistical analyses for this end point

### Other pre-specified: Pharmacokinetic Parameters of Voriconazole in Adolescents Compared to Historical Adult Data - AUC12 IV Loading Dose

End point title	Pharmacokinetic Parameters of Voriconazole in Adolescents
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End point description:

Data for this Outcome Measure was not reported here because the analysis population included subjects who were not enrolled in this study.

End point type	Other pre-specified
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End point timeframe:

Day 1

End point values	All Subjects			
Subject group type	Reporting group			
Number of subjects analysed	0 <sup>[22]</sup>			
Units: mcg*h/mL				
geometric mean (standard deviation)	( )			

Notes:

[22] - Data was not reported because the analysis included subjects who were not enrolled in this study.

### Statistical analyses

No statistical analyses for this end point

### Other pre-specified: Pharmacokinetic parameters of voriconazole in adolescents compared to historical adult data - AUC12 IV steady state

End point title	Pharmacokinetic parameters of voriconazole in adolescents compared to historical adult data - AUC12 IV steady state
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End point description:

Data for this Outcome Measure was not reported here because the analysis population includes subjects who were not enrolled in this study.

End point type	Other pre-specified
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End point timeframe:

Day 7 of IV dosing

End point values	All Subjects			
Subject group type	Reporting group			
Number of subjects analysed	0 <sup>[23]</sup>			
Units: mcg*h/mL				
geometric mean (standard deviation)	( )			

Notes:

[23] - Data was not reported because the analysis included subjects who were not enrolled in this study.

### Statistical analyses

No statistical analyses for this end point

### Other pre-specified: Pharmacokinetic parameters of voriconazole in adolescents compared to historical adult data - AUC12 oral dose all subjects

End point title	Pharmacokinetic parameters of voriconazole in adolescents
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End point description:

Data for this Outcome Measure was not reported here because the analysis population includes subjects who were not enrolled in this study.

End point type	Other pre-specified
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End point timeframe:

Day 7 Oral dosing

End point values	All Subjects			
Subject group type	Reporting group			
Number of subjects analysed	0 <sup>[24]</sup>			
Units: mcg*h/mL				
geometric mean (standard deviation)	( )			

Notes:

[24] - Data was not reported because the analysis included subjects who were not enrolled in this study.

## Statistical analyses

No statistical analyses for this end point

## Other pre-specified: Pharmacokinetic parameters of voriconazole in adolescents compared to historical adult data - AUC12 Oral 300mg

End point title	Pharmacokinetic parameters of voriconazole in adolescents compared to historical adult data - AUC12 Oral 300mg
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End point description:

Data for this Outcome Measure was not reported here because the analysis population includes subjects who were not enrolled in this study.

End point type	Other pre-specified
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End point timeframe:

Day 7 oral dosing

End point values	All Subjects			
Subject group type	Reporting group			
Number of subjects analysed	0 <sup>[25]</sup>			
Units: mcg*h/mL				
geometric mean (standard deviation)	( )			

Notes:

[25] - Data was not reported because the analysis included subjects who were not enrolled in this study.

## Statistical analyses

No statistical analyses for this end point

## Other pre-specified: Pharmacokinetic parameters of voriconazole in adolescents compared to historical adult data - Cmax IV Loading dose

End point title	Pharmacokinetic parameters of voriconazole in adolescents
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End point description:

Data for this Outcome Measure was not reported here because the analysis population includes subjects who were not enrolled in this study.

End point type	Other pre-specified
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End point timeframe:

Day 1

End point values	All Subjects			
Subject group type	Reporting group			
Number of subjects analysed	0 <sup>[26]</sup>			
Units: mcg/mL				
geometric mean (standard deviation)	( )			

Notes:

[26] - Data was not reported because the analysis included subjects who were not enrolled in this study.

## Statistical analyses

No statistical analyses for this end point

## Other pre-specified: Pharmacokinetic parameters of voriconazole in adolescents compared to historical adult data - Cmax IV steady state

End point title	Pharmacokinetic parameters of voriconazole in adolescents compared to historical adult data - Cmax IV steady state
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End point description:

Data for this Outcome Measure was not reported here because the analysis population includes subjects who were not enrolled in this study.

End point type	Other pre-specified
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End point timeframe:

Day 7 of Intravenous dosing

End point values	All Subjects			
Subject group type	Reporting group			
Number of subjects analysed	0 <sup>[27]</sup>			
Units: mcg*h/mL				
geometric mean (standard deviation)	( )			

Notes:

[27] - Data was not reported because the analysis included subjects who were not enrolled in this study.

## Statistical analyses

No statistical analyses for this end point

## Other pre-specified: Pharmacokinetic parameters of voriconazole in adolescents compared to historical adult data - Cmax Day 7 oral all subjects

End point title	Pharmacokinetic parameters of voriconazole in adolescents
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End point description:

Data for this Outcome Measure was not reported here because the analysis population includes subjects who were not enrolled in this study.

End point type Other pre-specified

End point timeframe:

Day 7 of oral dosing

End point values	All Subjects			
Subject group type	Reporting group			
Number of subjects analysed	0 <sup>[28]</sup>			
Units: mcg/mL				
geometric mean (standard deviation)	( )			

Notes:

[28] - Data was not reported because the analysis included subjects who were not enrolled in this study.

### Statistical analyses

No statistical analyses for this end point

### Other pre-specified: Pharmacokinetic parameters of voriconazole in adolescents compared to historical adult data - Cmax 300 mg oral dose

End point title Pharmacokinetic parameters of voriconazole in adolescents compared to historical adult data - Cmax 300 mg oral dose

End point description:

Data for this Outcome Measure was not reported here because the analysis population includes subjects who were not enrolled in this study.

End point type Other pre-specified

End point timeframe:

Day 7 of oral dosing

End point values	All Subjects			
Subject group type	Reporting group			
Number of subjects analysed	0 <sup>[29]</sup>			
Units: mcg/mL				
geometric mean (standard deviation)	( )			

Notes:

[29] - Data was not reported because the analysis included subjects who were not enrolled in this study.

### Statistical analyses

No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Baseline up to 1 month after last dose of investigational product

Adverse event reporting additional description:

The same event may appear as both an adverse event (AE) and a serious AE (SAE). An event may be categorized as serious in one subject and as nonserious in an other subject. EU BR specific AE tables were generated separately as per EU format using latest coding.

Assessment type	Non-systematic
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### Dictionary used

Dictionary name	MedDRA
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Dictionary version	17.1
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### Reporting groups

Reporting group title	Voriconazole Oral
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Reporting group description:

Voriconazole oral maintenance dosing regimen (300 mg every 12 hours or 150 mg every 12 hours if subject weighed less than 40 kg) was administered following voriconazole IV and lasted 6.5 days (up to Day 30 if clinically indicated).

Reporting group title	Voriconazole IV
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Reporting group description:

Voriconazole IV loading doses (6 mg/kg every 12 hours) hours on Day 1 and maintenance IV doses (4 mg/kg every 12 hours) on Days 2 to 7 (up to Day 20 if clinically indicated).

Serious adverse events	Voriconazole Oral	Voriconazole IV	
Total subjects affected by serious adverse events			
subjects affected / exposed	4 / 22 (18.18%)	4 / 26 (15.38%)	
number of deaths (all causes)	0	0	
number of deaths resulting from adverse events	0	0	
Investigations			
Blood bilirubin increased			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Vascular disorders			
Capillary leak syndrome			
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)	
occurrences causally related to treatment / all	0 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Cardiac disorders			
Pericardial effusion			

subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)	
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			
Neutropenia			
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
General disorders and administration site conditions			
Mucosal inflammation			
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Immune system disorders			
Graft versus host disease in gastrointestinal tract			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Graft versus host disease in liver			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Gastrointestinal disorders			
Colitis			
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Nausea			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Vomiting			

subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Respiratory, thoracic and mediastinal disorders			
Epistaxis			
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Respiratory distress			
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Respiratory failure			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Psychiatric disorders			
Depression			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (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			
Acute kidney injury			
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)	
occurrences causally related to treatment / all	0 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Cystitis haemorrhagic			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (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			
Alpha haemolytic streptococcal infection			

subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Bacteraemia</b>			
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Herpes simplex</b>			
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Sepsis</b>			
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
<b>Metabolism and nutrition disorders</b>			
<b>Decreased appetite</b>			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (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: 0 %

<b>Non-serious adverse events</b>	Voriconazole Oral	Voriconazole IV	
<b>Total subjects affected by non-serious adverse events</b>			
subjects affected / exposed	22 / 22 (100.00%)	26 / 26 (100.00%)	
<b>Vascular disorders</b>			
<b>Capillary leak syndrome</b>			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
<b>Flushing</b>			
subjects affected / exposed	2 / 22 (9.09%)	1 / 26 (3.85%)	
occurrences (all)	2	1	
<b>Hypotension</b>			



subjects affected / exposed occurrences (all)	5 / 22 (22.73%) 5	2 / 26 (7.69%) 3	
Hypertension subjects affected / exposed occurrences (all)	6 / 22 (27.27%) 6	4 / 26 (15.38%) 4	
Vena cava thrombosis subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Surgical and medical procedures Oxygen supplementation subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
General disorders and administration site conditions			
Chest pain subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Chills subjects affected / exposed occurrences (all)	2 / 22 (9.09%) 2	1 / 26 (3.85%) 1	
Device occlusion subjects affected / exposed occurrences (all)	0 / 22 (0.00%) 0	1 / 26 (3.85%) 1	
Drug withdrawal syndrome subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Face oedema subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Fatigue subjects affected / exposed occurrences (all)	2 / 22 (9.09%) 3	1 / 26 (3.85%) 1	
Gait disturbance subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Generalised oedema			

subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Mucosal inflammation			
subjects affected / exposed	9 / 22 (40.91%)	11 / 26 (42.31%)	
occurrences (all)	13	13	
Oedema			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Oedema peripheral			
subjects affected / exposed	4 / 22 (18.18%)	1 / 26 (3.85%)	
occurrences (all)	4	1	
Pain			
subjects affected / exposed	2 / 22 (9.09%)	2 / 26 (7.69%)	
occurrences (all)	2	2	
Pyrexia			
subjects affected / exposed	5 / 22 (22.73%)	13 / 26 (50.00%)	
occurrences (all)	11	17	
Suprapubic pain			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Immune system disorders			
Drug hypersensitivity			
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)	
occurrences (all)	0	1	
Engraftment syndrome			
subjects affected / exposed	1 / 22 (4.55%)	3 / 26 (11.54%)	
occurrences (all)	1	3	
Graft versus host disease			
subjects affected / exposed	3 / 22 (13.64%)	1 / 26 (3.85%)	
occurrences (all)	3	1	
Graft versus host disease in gastrointestinal tract			
subjects affected / exposed	2 / 22 (9.09%)	0 / 26 (0.00%)	
occurrences (all)	2	0	
Graft versus host disease in skin			

subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Hypogammaglobulinaemia subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	1 / 26 (3.85%) 1	
Social circumstances Refusal of treatment by patient subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Reproductive system and breast disorders Perineal pain subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Pruritus genital subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	1 / 26 (3.85%) 1	
Scrotal pain subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	1 / 26 (3.85%) 1	
Vulvovaginal discomfort subjects affected / exposed occurrences (all)	0 / 22 (0.00%) 0	1 / 26 (3.85%) 1	
Respiratory, thoracic and mediastinal disorders Atelectasis subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Cough subjects affected / exposed occurrences (all)	4 / 22 (18.18%) 4	1 / 26 (3.85%) 1	
Epistaxis subjects affected / exposed occurrences (all)	3 / 22 (13.64%) 3	2 / 26 (7.69%) 3	
Hypoxia subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Oropharyngeal pain			

subjects affected / exposed	1 / 22 (4.55%)	3 / 26 (11.54%)	
occurrences (all)	1	3	
Pulmonary oedema			
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)	
occurrences (all)	1	1	
Rales			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Respiratory depression			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Respiratory distress			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Sneezing			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Rhinorrhoea			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Tachypnoea			
subjects affected / exposed	2 / 22 (9.09%)	0 / 26 (0.00%)	
occurrences (all)	2	0	
Psychiatric disorders			
Agitation			
subjects affected / exposed	2 / 22 (9.09%)	0 / 26 (0.00%)	
occurrences (all)	2	0	
Confusional state			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Depression			
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)	
occurrences (all)	1	1	
Drug dependence			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	

Flat affect			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Mental status changes			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Insomnia			
subjects affected / exposed	3 / 22 (13.64%)	2 / 26 (7.69%)	
occurrences (all)	3	2	
Nightmare			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Restlessness			
subjects affected / exposed	2 / 22 (9.09%)	0 / 26 (0.00%)	
occurrences (all)	2	0	
Investigations			
Aspartate aminotransferase increased			
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)	
occurrences (all)	1	1	
Blood bilirubin increased			
subjects affected / exposed	2 / 22 (9.09%)	2 / 26 (7.69%)	
occurrences (all)	2	2	
Blood cortisol decreased			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Blood creatinine increased			
subjects affected / exposed	2 / 22 (9.09%)	2 / 26 (7.69%)	
occurrences (all)	2	2	
Blood pressure systolic increased			
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)	
occurrences (all)	1	1	
Blood triglycerides increased			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Blood urea increased			

subjects affected / exposed	1 / 22 (4.55%)	2 / 26 (7.69%)
occurrences (all)	1	4
Breath sounds abnormal		
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0
CSF protein increased		
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0
Cardiac function test abnormal		
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)
occurrences (all)	1	1
Cytomegalovirus test positive		
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)
occurrences (all)	1	1
Electrocardiogram QT prolonged		
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)
occurrences (all)	0	1
Gamma-glutamyltransferase increased		
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)
occurrences (all)	1	1
Hepatic enzyme increased		
subjects affected / exposed	3 / 22 (13.64%)	3 / 26 (11.54%)
occurrences (all)	3	4
Immunosuppressant drug level increased		
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)
occurrences (all)	1	1
Oxygen saturation decreased		
subjects affected / exposed	5 / 22 (22.73%)	1 / 26 (3.85%)
occurrences (all)	6	1
Transaminases increased		
subjects affected / exposed	2 / 22 (9.09%)	1 / 26 (3.85%)
occurrences (all)	2	1
Viral test positive		

subjects affected / exposed occurrences (all)	2 / 22 (9.09%) 2	0 / 26 (0.00%) 0	
Weight decreased subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	1 / 26 (3.85%) 1	
White blood cell count increased subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Injury, poisoning and procedural complications			
Ear abrasion subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Head injury subjects affected / exposed occurrences (all)	0 / 22 (0.00%) 0	1 / 26 (3.85%) 1	
Radiation pneumonitis subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Refractoriness to platelet transfusion subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Skin abrasion subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Congenital, familial and genetic disorders			
Colour blindness subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Cardiac disorders			
Tachycardia subjects affected / exposed occurrences (all)	0 / 22 (0.00%) 0	1 / 26 (3.85%) 1	
Nervous system disorders			
Burning sensation subjects affected / exposed occurrences (all)	2 / 22 (9.09%) 2	0 / 26 (0.00%) 0	

Dizziness		
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0
Droling		
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0
Dystonia		
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0
Encephalopathy		
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0
Headache		
subjects affected / exposed	3 / 22 (13.64%)	4 / 26 (15.38%)
occurrences (all)	3	4
Mental impairment		
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)
occurrences (all)	0	1
Myoclonus		
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)
occurrences (all)	0	1
Neuralgia		
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)
occurrences (all)	1	1
Neuropathy peripheral		
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)
occurrences (all)	1	1
Nystagmus		
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)
occurrences (all)	0	1
Restless legs syndrome		
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)
occurrences (all)	0	1
Paraesthesia		
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)
occurrences (all)	0	2



Sedation			
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)	
occurrences (all)	1	1	
Tremor			
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)	
occurrences (all)	0	1	
Blood and lymphatic system disorders			
Coagulopathy			
subjects affected / exposed	2 / 22 (9.09%)	1 / 26 (3.85%)	
occurrences (all)	2	1	
Anaemia			
subjects affected / exposed	2 / 22 (9.09%)	1 / 26 (3.85%)	
occurrences (all)	2	1	
Leukopenia			
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)	
occurrences (all)	2	1	
Febrile neutropenia			
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)	
occurrences (all)	0	1	
Neutropenia			
subjects affected / exposed	2 / 22 (9.09%)	3 / 26 (11.54%)	
occurrences (all)	2	3	
Pancytopenia			
subjects affected / exposed	2 / 22 (9.09%)	1 / 26 (3.85%)	
occurrences (all)	2	1	
Thrombocytopenia			
subjects affected / exposed	3 / 22 (13.64%)	3 / 26 (11.54%)	
occurrences (all)	3	3	
Ear and labyrinth disorders			
Ear canal erythema			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Eye disorders			
Conjunctival haemorrhage			
subjects affected / exposed	2 / 22 (9.09%)	0 / 26 (0.00%)	
occurrences (all)	2	0	
Conjunctivitis allergic			

subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)	
occurrences (all)	1	1	
Conjunctival irritation			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Dry eye			
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)	
occurrences (all)	0	1	
Hypermetropia			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Photophobia			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Strabismus			
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)	
occurrences (all)	0	1	
Vision blurred			
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)	
occurrences (all)	0	1	
Visual impairment			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Gastrointestinal disorders			
Abdominal pain upper			
subjects affected / exposed	2 / 22 (9.09%)	1 / 26 (3.85%)	
occurrences (all)	2	1	
Abdominal pain			
subjects affected / exposed	3 / 22 (13.64%)	2 / 26 (7.69%)	
occurrences (all)	3	2	
Anorectal disorder			
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)	
occurrences (all)	1	1	
Ascites			
subjects affected / exposed	2 / 22 (9.09%)	1 / 26 (3.85%)	
occurrences (all)	2	1	

Breath odour		
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)
occurrences (all)	1	1
Chapped lips		
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)
occurrences (all)	0	1
Diarrhoea		
subjects affected / exposed	5 / 22 (22.73%)	5 / 26 (19.23%)
occurrences (all)	6	5
Constipation		
subjects affected / exposed	4 / 22 (18.18%)	2 / 26 (7.69%)
occurrences (all)	4	2
Dyspepsia		
subjects affected / exposed	2 / 22 (9.09%)	1 / 26 (3.85%)
occurrences (all)	2	1
Dysphagia		
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0
Faecal volume increased		
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0
Flatulence		
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)
occurrences (all)	1	1
Frequent bowel movements		
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0
Gastritis		
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)
occurrences (all)	1	1
Gingival bleeding		
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)
occurrences (all)	0	1
Haematemesis		
subjects affected / exposed	3 / 22 (13.64%)	2 / 26 (7.69%)
occurrences (all)	3	2

Haematochezia		
subjects affected / exposed	3 / 22 (13.64%)	2 / 26 (7.69%)
occurrences (all)	3	2
Haemorrhoids		
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0
Lip dry		
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)
occurrences (all)	0	1
Lip haemorrhage		
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)
occurrences (all)	0	1
Lower gastrointestinal haemorrhage		
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)
occurrences (all)	0	1
Localised intraabdominal fluid collection		
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)
occurrences (all)	1	1
Nausea		
subjects affected / exposed	6 / 22 (27.27%)	6 / 26 (23.08%)
occurrences (all)	6	6
Mouth haemorrhage		
subjects affected / exposed	1 / 22 (4.55%)	2 / 26 (7.69%)
occurrences (all)	1	2
Oral pain		
subjects affected / exposed	1 / 22 (4.55%)	3 / 26 (11.54%)
occurrences (all)	1	3
Pancreatitis		
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0
Rectal fissure		
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)
occurrences (all)	1	1
Rectal haemorrhage		

subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Stomatitis subjects affected / exposed occurrences (all)	0 / 22 (0.00%) 0	2 / 26 (7.69%) 2	
Toothache subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Vomiting subjects affected / exposed occurrences (all)	5 / 22 (22.73%) 5	5 / 26 (19.23%) 6	
Hepatobiliary disorders Cholelithiasis subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	1 / 26 (3.85%) 1	
Hepatomegaly subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Hyperbilirubinaemia subjects affected / exposed occurrences (all)	3 / 22 (13.64%) 3	4 / 26 (15.38%) 4	
Jaundice subjects affected / exposed occurrences (all)	0 / 22 (0.00%) 0	1 / 26 (3.85%) 1	
Skin and subcutaneous tissue disorders Alopecia subjects affected / exposed occurrences (all)	3 / 22 (13.64%) 3	2 / 26 (7.69%) 2	
Dry skin subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Erythema subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	1 / 26 (3.85%) 1	
Petechiae			

subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0
Ingrowing nail		
subjects affected / exposed	2 / 22 (9.09%)	1 / 26 (3.85%)
occurrences (all)	2	1
Purpura		
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)
occurrences (all)	1	1
Pruritus		
subjects affected / exposed	1 / 22 (4.55%)	2 / 26 (7.69%)
occurrences (all)	1	2
Rash		
subjects affected / exposed	5 / 22 (22.73%)	4 / 26 (15.38%)
occurrences (all)	5	4
Rash macular		
subjects affected / exposed	3 / 22 (13.64%)	1 / 26 (3.85%)
occurrences (all)	3	1
Rash maculo-papular		
subjects affected / exposed	3 / 22 (13.64%)	3 / 26 (11.54%)
occurrences (all)	3	3
Rash morbilliform		
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0
Skin disorder		
subjects affected / exposed	2 / 22 (9.09%)	1 / 26 (3.85%)
occurrences (all)	2	1
Skin lesion		
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0
Urticaria		
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)
occurrences (all)	0	1
Skin mass		
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)
occurrences (all)	0	1
Renal and urinary disorders		

Cystitis haemorrhagic subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Dysuria subjects affected / exposed occurrences (all)	6 / 22 (27.27%) 6	1 / 26 (3.85%) 1	
Haematuria subjects affected / exposed occurrences (all)	5 / 22 (22.73%) 5	3 / 26 (11.54%) 3	
Glycosuria subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	1 / 26 (3.85%) 1	
Ketonuria subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	2 / 26 (7.69%) 2	
Micturition disorder subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Oliguria subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	2 / 26 (7.69%) 2	
Proteinuria subjects affected / exposed occurrences (all)	2 / 22 (9.09%) 3	2 / 26 (7.69%) 3	
Renal impairment subjects affected / exposed occurrences (all)	2 / 22 (9.09%) 3	2 / 26 (7.69%) 2	
Urinary retention subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 26 (0.00%) 0	
Musculoskeletal and connective tissue disorders			
Arthralgia subjects affected / exposed occurrences (all)	3 / 22 (13.64%) 4	0 / 26 (0.00%) 0	
Back pain			

subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)	
occurrences (all)	0	1	
Bone pain			
subjects affected / exposed	5 / 22 (22.73%)	2 / 26 (7.69%)	
occurrences (all)	5	2	
Limb discomfort			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Muscle spasms			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Musculoskeletal chest pain			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Neck pain			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Osteopenia			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Pain in extremity			
subjects affected / exposed	5 / 22 (22.73%)	3 / 26 (11.54%)	
occurrences (all)	5	3	
Pain in jaw			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Infections and infestations			
Adenovirus infection			
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)	
occurrences (all)	0	1	
BK virus infection			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Bacteraemia			
subjects affected / exposed	2 / 22 (9.09%)	2 / 26 (7.69%)	
occurrences (all)	2	2	



Bacterial infection		
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0
Clostridium difficile colitis		
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)
occurrences (all)	0	1
Cellulitis orbital		
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)
occurrences (all)	1	1
Cytomegalovirus infection		
subjects affected / exposed	3 / 22 (13.64%)	1 / 26 (3.85%)
occurrences (all)	3	1
Conjunctivitis		
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)
occurrences (all)	1	1
Cytomegalovirus viraemia		
subjects affected / exposed	2 / 22 (9.09%)	0 / 26 (0.00%)
occurrences (all)	2	0
Device related infection		
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)
occurrences (all)	1	1
Escherichia bacteraemia		
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0
Escherichia urinary tract infection		
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0
Herpes simplex		
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)
occurrences (all)	1	1
Human polyomavirus infection		
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)
occurrences (all)	1	1
Klebsiella bacteraemia		
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)
occurrences (all)	0	1

Lung infection		
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0
Oral candidiasis		
subjects affected / exposed	2 / 22 (9.09%)	0 / 26 (0.00%)
occurrences (all)	2	0
Oral herpes		
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)
occurrences (all)	1	1
Pneumonia		
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0
Pneumonia fungal		
subjects affected / exposed	2 / 22 (9.09%)	0 / 26 (0.00%)
occurrences (all)	2	0
Sinusitis		
subjects affected / exposed	3 / 22 (13.64%)	1 / 26 (3.85%)
occurrences (all)	3	1
Staphylococcal bacteraemia		
subjects affected / exposed	2 / 22 (9.09%)	1 / 26 (3.85%)
occurrences (all)	2	1
Staphylococcal infection		
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0
Streptococcal bacteraemia		
subjects affected / exposed	1 / 22 (4.55%)	3 / 26 (11.54%)
occurrences (all)	1	3
Streptococcal sepsis		
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)
occurrences (all)	0	1
Upper respiratory tract infection		
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0
Urethritis		
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)
occurrences (all)	1	0

Varicella			
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)	
occurrences (all)	1	1	
Metabolism and nutrition disorders			
Decreased appetite			
subjects affected / exposed	3 / 22 (13.64%)	3 / 26 (11.54%)	
occurrences (all)	4	4	
Fluid overload			
subjects affected / exposed	0 / 22 (0.00%)	1 / 26 (3.85%)	
occurrences (all)	0	1	
Electrolyte imbalance			
subjects affected / exposed	2 / 22 (9.09%)	1 / 26 (3.85%)	
occurrences (all)	2	2	
Fluid retention			
subjects affected / exposed	5 / 22 (22.73%)	4 / 26 (15.38%)	
occurrences (all)	5	4	
Hyperglycaemia			
subjects affected / exposed	4 / 22 (18.18%)	3 / 26 (11.54%)	
occurrences (all)	5	3	
Hypoalbuminaemia			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Hyperkalaemia			
subjects affected / exposed	2 / 22 (9.09%)	0 / 26 (0.00%)	
occurrences (all)	2	0	
Hypocalcaemia			
subjects affected / exposed	1 / 22 (4.55%)	1 / 26 (3.85%)	
occurrences (all)	1	1	
Hypokalaemia			
subjects affected / exposed	1 / 22 (4.55%)	2 / 26 (7.69%)	
occurrences (all)	1	2	
Hypomagnesaemia			
subjects affected / exposed	0 / 22 (0.00%)	2 / 26 (7.69%)	
occurrences (all)	0	2	
Malnutrition			

subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	
Vitamin D deficiency			
subjects affected / exposed	1 / 22 (4.55%)	0 / 26 (0.00%)	
occurrences (all)	1	0	

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

Date	Amendment
27 August 2008	Addition of safety assessments to be performed every 5-7 days during the extended IV or oral treatment period and on the last day of voriconazole dosing and flexibility in urine pregnancy test (the serum pregnancy test can be used instead).

Notes:

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### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported