



Clinical trial results:
A CONFIRMATORY PHASE II/III STUDY ASSESSING EFFICACY, IMMUNOGENICITY AND SAFETY OF IC43 RECOMBINANT PSEUDOMONAS VACCINE IN INTENSIVE CARE PATIENTS.

Summary

| | |
|--------------------------|-------------------|
| EudraCT number | 2011-004771-36 |
| Trial protocol | AT DE HU ES BE CZ |
| Global end of trial date | 29 December 2015 |

Results information

| | |
|--------------------------------|------------------|
| Result version number | v1 (current) |
| This version publication date | 09 February 2017 |
| First version publication date | 09 February 2017 |

Trial information

Trial identification

| | |
|-----------------------|----------|
| Sponsor protocol code | IC43-202 |
|-----------------------|----------|

Additional study identifiers

| | |
|------------------------------------|-------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT01563263 |
| WHO universal trial number (UTN) | - |

Notes:

Sponsors

| | |
|------------------------------|---|
| Sponsor organisation name | Valneva Austria GmbH |
| Sponsor organisation address | Campus Vienna Biocenter 3, Vienna, Austria, 1030 |
| Public contact | Clinical Operations, Valneva Austria GmbH, 0043 1206200, info@valneva.com |
| Scientific contact | Clinical Operations, Valneva Austria GmbH, 0043 1206200, info@valneva.com |

Notes:

Paediatric regulatory details

| | |
|--|----|
| Is trial part of an agreed paediatric investigation plan (PIP) | No |
| Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial? | No |
| Does article 46 of REGULATION (EC) No 1901/2006 apply to this trial? | No |

Notes:

Results analysis stage

| | |
|--|------------------|
| Analysis stage | Final |
| Date of interim/final analysis | 04 May 2016 |
| Is this the analysis of the primary completion data? | No |
| Global end of trial reached? | Yes |
| Global end of trial date | 29 December 2015 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

To show the superiority of IC43 with regard to overall mortality on Day 28 after first vaccination in mechanically ventilated ICU patients.

Protection of trial subjects:

An independent DMC was established to review safety data in the course of the futility analysis (i.e., after approximately 50% of patients had been enrolled) and recommended on continuation/ modification/ discontinuation of the study in case of safety concerns. In addition, the DMC reviewed the Day-28 mortality data in the course of the futility analysis and informed the sponsor of futility of IC43 in case the predefined futility criterion was met. The sponsor, investigator and any person involved in the study remained blinded.

Background therapy: -

Evidence for comparator: -

| | |
|---|---------------|
| Actual start date of recruitment | 22 March 2012 |
| Long term follow-up planned | No |
| Independent data monitoring committee (IDMC) involvement? | Yes |

Notes:

Population of trial subjects

Subjects enrolled per country

| | |
|--------------------------------------|--------------------|
| Country: Number of subjects enrolled | Spain: 113 |
| Country: Number of subjects enrolled | Austria: 170 |
| Country: Number of subjects enrolled | Belgium: 233 |
| Country: Number of subjects enrolled | Czech Republic: 43 |
| Country: Number of subjects enrolled | Germany: 112 |
| Country: Number of subjects enrolled | Hungary: 128 |
| Worldwide total number of subjects | 799 |
| EEA total number of subjects | 799 |

Notes:

Subjects enrolled per age group

| | |
|---|---|
| In utero | 0 |
| Preterm newborn - gestational age < 37 wk | 0 |
| Newborns (0-27 days) | 0 |
| Infants and toddlers (28 days-23 months) | 0 |

| | |
|---------------------------|-----|
| Children (2-11 years) | 0 |
| Adolescents (12-17 years) | 0 |
| Adults (18-64 years) | 426 |
| From 65 to 84 years | 371 |
| 85 years and over | 2 |

Subject disposition

Recruitment

Recruitment details:

Recruitment started in March 2012 and for the first part of the study (i.e. prior to the planned futility analysis) was completed in July 2013. Following the futility analysis, recruitment was resumed in June 2014, the last patient was enrolled in study IC43-202 beginning of July 2015.

Pre-assignment

Screening details:

Male and female patients aged 18 to 80 years admitted to an Intensive Care Unit (ICU) with the need for mechanical ventilation (>48 hours) were screened for study participation. The study aimed for enrollment of medical patients, patients admitted to ICU within 2 days after surgery or due to trauma were not eligible for participation.

Period 1

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

Arms

| | |
|------------------------------|------|
| Are arms mutually exclusive? | Yes |
| Arm title | IC43 |

Arm description:

2 vaccinations, administered 7 days apart

| | |
|--|------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | IC43 |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Solution for injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

The final protein concentration was 100 µg/mL. 1ml was injected per vaccination.

| | |
|------------------|---------|
| Arm title | Placebo |
|------------------|---------|

Arm description:

2 vaccinations, administered 7 days apart

| | |
|--|---------------------------|
| Arm type | Placebo |
| Investigational medicinal product name | phosphate buffered saline |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Solution for injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

Placebo consisted of PBS solution containing 0.9% NaCl. 1ml was injected per vaccination.

| Number of subjects in period 1 | IC43 | Placebo |
|---|------|---------|
| Started | 393 | 406 |
| Completed | 175 | 203 |
| Not completed | 218 | 203 |
| relative withdrew consent | - | 1 |
| Consent withdrawn by subject | 10 | 9 |
| Physician decision | 3 | - |
| family withdrew consent | 1 | - |
| patient not reached for visit 5 but known alive | 1 | - |
| transferred to another hospital | - | 2 |
| Adverse event, non-fatal | - | 1 |
| Death | 172 | 166 |
| Lost to follow-up | 28 | 24 |
| transfer to other hospital | 1 | - |
| Protocol deviation | 2 | - |

Baseline characteristics

Reporting groups

| | |
|---|---------|
| Reporting group title | IC43 |
| Reporting group description: 2 vaccinations, administered 7 days apart | |
| Reporting group title | Placebo |
| Reporting group description: 2 vaccinations, administered 7 days apart | |

| Reporting group values | IC43 | Placebo | Total |
|---|---------|---------|-------|
| Number of subjects | 393 | 406 | 799 |
| Age categorical | | | |
| Units: Subjects | | | |
| In utero | | | 0 |
| Preterm newborn infants (gestational age < 37 wks) | | | 0 |
| Newborns (0-27 days) | | | 0 |
| Infants and toddlers (28 days-23 months) | | | 0 |
| Children (2-11 years) | | | 0 |
| Adolescents (12-17 years) | | | 0 |
| Adults (18-64 years) | | | 0 |
| From 65-84 years | | | 0 |
| 85 years and over | | | 0 |
| Age continuous | | | |
| Units: years | | | |
| arithmetic mean | 61.9 | 62 | |
| standard deviation | ± 12.57 | ± 11.88 | - |
| Gender categorical | | | |
| Units: Subjects | | | |
| Female | 130 | 134 | 264 |
| Male | 263 | 272 | 535 |
| SOFA score at study entry | | | |
| SOFA = sequential organ failure assessment | | | |
| Units: score | | | |
| arithmetic mean | 8.1 | 8.2 | |
| standard deviation | ± 2.9 | ± 2.8 | - |

End points

End points reporting groups

| | |
|------------------------------|---|
| Reporting group title | IC43 |
| Reporting group description: | 2 vaccinations, administered 7 days apart |
| Reporting group title | Placebo |
| Reporting group description: | 2 vaccinations, administered 7 days apart |

Primary: all-cause mortality at Day 28

| | |
|------------------------|---|
| End point title | all-cause mortality at Day 28 |
| End point description: | percentages are based on the number of non-missing observations |
| End point type | Primary |
| End point timeframe: | at Day 28 = 28 days after first study vaccination |

| End point values | IC43 | Placebo | | |
|----------------------------------|-------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 393 | 406 | | |
| Units: percent | | | | |
| number (confidence interval 95%) | 29.2 (24.8 to 34) | 27.7 (23.5 to 32.3) | | |

Statistical analyses

| | |
|---|---|
| Statistical analysis title | CMH test stratified for pooled country |
| Statistical analysis description: | CMH test = Cochran-Mantel-Haenszel test |
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.674 |
| Method | Cochran-Mantel-Haenszel |

Secondary: all-cause mortality in all patients

| | |
|-----------------|-------------------------------------|
| End point title | all-cause mortality in all patients |
|-----------------|-------------------------------------|

End point description:

percentages are based on the number of non-missing observations

End point type Secondary

End point timeframe:

mortality rate at Day 14, 56 and 90 after first vaccination

| End point values | IC43 | Placebo | | |
|----------------------------------|---------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 393 | 406 | | |
| Units: percent | | | | |
| number (confidence interval 95%) | | | | |
| all-cause mortality at Day 14 | 17.1 (13.7 to 21.2) | 19.8 (16.2 to 24) | | |
| all-cause mortality at Day 56 | 37.6 (32.7 to 42.7) | 38.9 (34.2 to 43.9) | | |
| all-cause mortality at Day 90 | 44.4 (39.2 to 49.6) | 42.7 (37.8 to 47.8) | | |

Statistical analyses

Statistical analysis title CMH test stratified for pooled country (Day 14)

Statistical analysis description:

CMH test = Cochran-Mantel-Haenszel test

Comparison groups IC43 v Placebo

Number of subjects included in analysis 799

Analysis specification Pre-specified

Analysis type superiority

P-value = 0.5152

Method Cochran-Mantel-Haenszel

Statistical analysis title CMH test stratified for pooled country (Day 56)

Statistical analysis description:

CMH test = Cochran-Mantel-Haenszel test

Comparison groups IC43 v Placebo

Number of subjects included in analysis 799

Analysis specification Pre-specified

Analysis type superiority

P-value = 0.8251

Method Cochran-Mantel-Haenszel

Statistical analysis title CMH test stratified for pooled country (Day 90)

Statistical analysis description:

CMH test = Cochran-Mantel-Haenszel test

| | |
|---|-------------------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.6073 |
| Method | Cochran-Mantel-Haenszel |

Secondary: all-cause mortality in all patients surviving Day 14

End point title all-cause mortality in all patients surviving Day 14

End point description:

percentages are based on the number of non-missing observations

End point type Secondary

End point timeframe:

mortality rate at Day 28, 56 and 90 after first vaccination

| End point values | IC43 | Placebo | | |
|--|---------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 320 | 318 | | |
| Units: percent | | | | |
| number (confidence interval 95%) | | | | |
| mortality on Day 28 in patients surviving Day 14 | 15.5 (11.9 to 19.9) | 10.5 (7.6 to 14.4) | | |
| mortality on Day 56 in patients surviving Day 14 | 25.1 (20.5 to 30.3) | 24.1 (19.7 to 29.2) | | |
| mortality on Day 90 in patients surviving Day 14 | 32.8 (27.6 to 38.4) | 28.2 (23.4 to 33.6) | | |

Statistical analyses

Statistical analysis title CMH test stratified for pooled country (Day 28)

Statistical analysis description:

CMH test = Cochran-Mantel-Haenszel test

| | |
|---|-------------------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 638 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.1493 |
| Method | Cochran-Mantel-Haenszel |

Statistical analysis title CMH test stratified for pooled country (Day 56)

Statistical analysis description:

CMH test = Cochran-Mantel-Haenszel test

| | |
|---|-------------------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 638 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.8847 |
| Method | Cochran-Mantel-Haenszel |

Statistical analysis title

CMH test stratified for pooled country (Day 90)

Statistical analysis description:

CMH test = Cochran-Mantel-Haenszel test

| | |
|---|-------------------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 638 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.3148 |
| Method | Cochran-Mantel-Haenszel |

Secondary: all-cause mortality in all patients surviving Day 3

End point title all-cause mortality in all patients surviving Day 3

End point description:

percentages are based on the number of non-missing observations

End point type Secondary

End point timeframe:

mortality rate at Day 14, 28, 56 and 90 after first vaccination

| End point values | IC43 | Placebo | | |
|---|---------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 371 | 389 | | |
| Units: percent | | | | |
| number (confidence interval 95%) | | | | |
| mortality at Day 14 in patients surviving Day 3 | 13.2 (10.1 to 17.1) | 17.5 (14.1 to 21.7) | | |
| mortality at Day 28 in patients surviving Day 3 | 25.8 (21.5 to 30.6) | 25.7 (21.5 to 30.3) | | |
| mortality at Day 56 in patients surviving Day 3 | 34.5 (29.7 to 39.7) | 37.2 (32.4 to 42.2) | | |
| mortality at Day 90 in patients surviving Day 3 | 41.5 (36.3 to 46.9) | 41.1 (36.1 to 46.2) | | |

Statistical analyses

| | |
|--|---|
| Statistical analysis title | CMH test stratified for pooled country (Day 14) |
| Statistical analysis description: CMH test = Cochran-Mantel-Haenszel test | |
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 760 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.2173 |
| Method | Cochran-Mantel-Haenszel |

| | |
|--|---|
| Statistical analysis title | CMH test stratified for pooled country (Day 28) |
| Statistical analysis description: CMH test = Cochran-Mantel-Haenszel test | |
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 760 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.968 |
| Method | Cochran-Mantel-Haenszel |

| | |
|--|---|
| Statistical analysis title | CMH test stratified for pooled country (Day 56) |
| Statistical analysis description: CMH test = Cochran-Mantel-Haenszel test | |
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 760 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.5712 |
| Method | Cochran-Mantel-Haenszel |

| | |
|--|---|
| Statistical analysis title | CMH test stratified for pooled country (Day 90) |
| Statistical analysis description: CMH test = Cochran-Mantel-Haenszel test | |
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 760 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.8143 |
| Method | Cochran-Mantel-Haenszel |

Secondary: survival estimates (survival rate) in all patients

| | |
|------------------------|--|
| End point title | survival estimates (survival rate) in all patients |
| End point description: | Kaplan-Meier survival estimates for all patients |
| End point type | Secondary |
| End point timeframe: | survival estimates on Day 14, 28, 56, 90 and Day 180 |

| End point values | IC43 | Placebo | | |
|----------------------------------|---------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 390 | 404 | | |
| Units: percent | | | | |
| number (confidence interval 95%) | | | | |
| Day 14 | 83.1 (79 to 86.5) | 80.4 (76.1 to 84) | | |
| Day 28 | 71.5 (66.6 to 75.8) | 72.6 (68 to 76.8) | | |
| Day 56 | 63.9 (58.7 to 68.5) | 61.9 (56.8 to 66.5) | | |
| Day 90 | 58.2 (52.9 to 63.1) | 59.4 (54.3 to 64.4) | | |
| Day 180 | 53 (47.7 to 58) | 57.4 (52.3 to 62.2) | | |

Statistical analyses

| | |
|---|----------------|
| Statistical analysis title | Log-rank test |
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 794 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.4603 |
| Method | Logrank |

Secondary: overall survival in patients surviving Day 14

| | |
|------------------------|--|
| End point title | overall survival in patients surviving Day 14 |
| End point description: | Kaplan-Meier survival estimate for patients surviving Day 14 |
| End point type | Secondary |
| End point timeframe: | overall survival |

| End point values | IC43 | Placebo | | |
|-----------------------------|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 320 | 318 | | |
| Units: percent censored | | | | |
| number (not applicable) | 65.31 | 71.7 | | |

Statistical analyses

| Statistical analysis title | Log-rank test |
|---|----------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 638 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0573 |
| Method | Logrank |

Secondary: percentage of patients with P. aeruginosa infection that started up to a certain time point (confirmed by DMC and assessed by investigator)

| | |
|-----------------|---|
| End point title | percentage of patients with P. aeruginosa infection that started up to a certain time point (confirmed by DMC and assessed by investigator) |
|-----------------|---|

End point description:

percentage of patients with at least one invasive P. aeruginosa infection (bacteremia or urinary tract infection), with at least one P. aeruginosa respiratory tract infection (pneumonia or tracheobronchitis), or with at least one P. aeruginosa respiratory tract colonization.
As confirmed by DMC (Data Monitoring Committee) and as assessed by investigator.

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

End point timeframe:

infections that started up to Day 28, 56, 90 and 180, respectively, including infections prevalent at baseline

| End point values | IC43 | Placebo | | |
|---|--------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 393 | 406 | | |
| Units: percent | | | | |
| number (confidence interval 95%) | | | | |
| invasive, up to Day 28, DMC | 2.3 (1.2 to 4.3) | 3 (1.7 to 5.1) | | |
| invasive, up to Day 28, investigator | 5.6 (3.7 to 8.3) | 5.4 (3.6 to 8.1) | | |
| respiratory tract, up to Day 28, DMC | 9.7 (7.1 to 13) | 11.3 (8.6 to 14.8) | | |
| respiratory tract, up to Day 28, investigator | 12.5 (9.6 to 16.1) | 13.1 (10.1 to 16.7) | | |
| colonization, up to Day 28, DMC | 9.9 (7.3 to 13.3) | 5.7 (3.8 to 8.4) | | |
| colonization, up to Day 28, investigator | 9.2 (6.7 to 12.4) | 4.9 (3.2 to 7.5) | | |

| | | | | |
|--|---------------------|---------------------|--|--|
| invasive, up to Day 56, DMC | 2.5 (1.4 to 4.6) | 3.4 (2.1 to 5.7) | | |
| invasive, up to Day 56, investigator | 8.9 (6.5 to 12.1) | 7.1 (5 to 10.1) | | |
| respiratory tract, up to Day 56, DMC | 10.7 (8 to 14.1) | 13.1 (10.1 to 16.7) | | |
| respiratory tract, up to Day 56, investigator | 14.2 (11.1 to 18.1) | 15.3 (12.1 to 19.1) | | |
| colonization, up to Day 56, DMC | 11.7 (8.9 to 15.3) | 6.7 (4.6 to 9.5) | | |
| colonization, up to Day 56, investigator | 10.4 (7.8 to 13.8) | 5.4 (3.6 to 8.1) | | |
| invasive, up to Day 90, DMC | 2.8 (1.6 to 4.9) | 3.7 (2.3 to 6) | | |
| invasive, up to Day 90, investigator | 9.7 (7.1 to 13) | 8.1 (5.8 to 11.2) | | |
| respiratory tract, up to Day 90, DMC | 11.7 (8.9 to 15.3) | 13.1 (10.1 to 16.7) | | |
| respiratory tract, up to Day 90, investigator | 15.3 (12 to 19.2) | 15.5 (12.3 to 19.4) | | |
| colonization, up to Day 90, DMC | 12.2 (9.3 to 15.8) | 6.9 (4.8 to 9.8) | | |
| colonization, up to Day 90, investigator | 10.9 (8.2 to 14.4) | 5.7 (3.8 to 8.4) | | |
| invasive, up to Day 180, DMC | 3.3 (1.9 to 5.6) | 4.2 (2.6 to 6.6) | | |
| invasive, up to Day 180, investigator | 10.7 (8 to 14.1) | 8.9 (6.5 to 12) | | |
| respiratory tract, up to Day 180, DMC | 12 (9.1 to 15.5) | 13.1 (10.1 to 16.7) | | |
| respiratory tract, up to Day 180, investigator | 15.5 (12.3 to 19.4) | 15.8 (12.5 to 19.6) | | |
| colonization, up to Day 180, DMC | 12.2 (9.3 to 15.8) | 7.4 (5.2 to 10.4) | | |
| colonization, up to Day 180, investigator | 10.9 (8.2 to 14.4) | 5.9 (4 to 8.6) | | |

Statistical analyses

| | |
|---|---------------------------------------|
| Statistical analysis title | CMH test, invasive, up to Day 28, DMC |
| Statistical analysis description: P. aeruginosa invasive infections that started up to Day 28: Cochran-Mantel-Haenszel test stratified for pooled country - confirmed by DMC | |
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.3753 |
| Method | Cochran-Mantel-Haenszel |

| | |
|---|--|
| Statistical analysis title | CMH test, invasive, up to Day 28, investigator |
| Statistical analysis description: P. aeruginosa invasive infections that started up to Day 28: Cochran-Mantel-Haenszel test stratified for pooled country - assessed by investigator | |
| Comparison groups | IC43 v Placebo |

| | |
|---|-------------------------|
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.9072 |
| Method | Cochran-Mantel-Haenszel |

| | |
|-----------------------------------|--|
| Statistical analysis title | CMH test, resp. tract, up to Day 28, DMC |
|-----------------------------------|--|

Statistical analysis description:

P. aeruginosa respiratory tract infections that started up to Day 28: Cochran-Mantel-Haenszel test stratified for pooled country - confirmed by DMC

| | |
|---|-------------------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.4948 |
| Method | Cochran-Mantel-Haenszel |

| | |
|-----------------------------------|---|
| Statistical analysis title | CMH test, resp. tract, up to Day 28, investigator |
|-----------------------------------|---|

Statistical analysis description:

P. aeruginosa respiratory tract infections that started up to Day 28: Cochran-Mantel-Haenszel test stratified for pooled country - assessed by investigator

| | |
|---|-------------------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.4716 |
| Method | Cochran-Mantel-Haenszel |

| | |
|-----------------------------------|---|
| Statistical analysis title | CMH test, colonization, up to Day 28, DMC |
|-----------------------------------|---|

Statistical analysis description:

P. aeruginosa respiratory tract colonizations that started up to Day 28: Cochran-Mantel-Haenszel test stratified for pooled country - confirmed by DMC

| | |
|---|-------------------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.027 |
| Method | Cochran-Mantel-Haenszel |

| | |
|-----------------------------------|--|
| Statistical analysis title | CMH test, colonization, up to Day 28, investigator |
|-----------------------------------|--|

Statistical analysis description:

P. aeruginosa respiratory tract colonizations that started up to Day 28: Cochran-Mantel-Haenszel test

stratified for pooled country - assessed by investigator

| | |
|---|-------------------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0067 |
| Method | Cochran-Mantel-Haenszel |

| | |
|-----------------------------------|---------------------------------------|
| Statistical analysis title | CMH test, invasive, up to Day 56, DMC |
|-----------------------------------|---------------------------------------|

Statistical analysis description:

P. aeruginosa invasive infections that started up to Day 56: Cochran-Mantel-Haenszel test stratified for pooled country - confirmed by DMC

| | |
|---|-------------------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.3477 |
| Method | Cochran-Mantel-Haenszel |

| | |
|-----------------------------------|--|
| Statistical analysis title | CMH test, invasive, up to Day 56, investigator |
|-----------------------------------|--|

Statistical analysis description:

P. aeruginosa invasive infections that started up to Day 56: Cochran-Mantel-Haenszel test stratified for pooled country - assessed by investigator

| | |
|---|-------------------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.4097 |
| Method | Cochran-Mantel-Haenszel |

| | |
|-----------------------------------|--|
| Statistical analysis title | CMH test, resp. tract, up to Day 56, DMC |
|-----------------------------------|--|

Statistical analysis description:

P. aeruginosa respiratory tract infections that started up to Day 56: Cochran-Mantel-Haenszel test stratified for pooled country - confirmed by DMC

| | |
|---|-------------------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.3635 |
| Method | Cochran-Mantel-Haenszel |

| | |
|-----------------------------------|---|
| Statistical analysis title | CMH test, resp. tract, up to Day 56, investigator |
|-----------------------------------|---|

Statistical analysis description:

P. aeruginosa respiratory tract infections that started up to Day 56: Cochran-Mantel-Haenszel test stratified for pooled country - assessed by investigator

| | |
|---|-------------------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.3129 |
| Method | Cochran-Mantel-Haenszel |

| | |
|-----------------------------------|---|
| Statistical analysis title | CMH test, colonization, up to Day 56, DMC |
|-----------------------------------|---|

Statistical analysis description:

P. aeruginosa respiratory tract colonizations that started up to Day 56: Cochran-Mantel-Haenszel test stratified for pooled country - confirmed by DMC

| | |
|---|-------------------------|
| Comparison groups | Placebo v IC43 |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0258 |
| Method | Cochran-Mantel-Haenszel |

| | |
|-----------------------------------|--|
| Statistical analysis title | CMH test, colonization, up to Day 56, investigator |
|-----------------------------------|--|

Statistical analysis description:

P. aeruginosa respiratory tract colonizations that started up to Day 56: Cochran-Mantel-Haenszel test stratified for pooled country - assessed by investigator

| | |
|---|-------------------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0032 |
| Method | Cochran-Mantel-Haenszel |

| | |
|-----------------------------------|---------------------------------------|
| Statistical analysis title | CMH test, invasive, up to Day 90, DMC |
|-----------------------------------|---------------------------------------|

Statistical analysis description:

P. aeruginosa invasive infections that started up to Day 90: Cochran-Mantel-Haenszel test stratified for pooled country - confirmed by DMC

| | |
|---|-------------------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.447 |
| Method | Cochran-Mantel-Haenszel |

| | |
|---|--|
| Statistical analysis title | CMH test, invasive, up to Day 90, investigator |
| Statistical analysis description: P. aeruginosa invasive infections that started up to Day 90: Cochran-Mantel-Haenszel test stratified for pooled country - assessed by investigator | |
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.4492 |
| Method | Cochran-Mantel-Haenszel |

| | |
|--|--|
| Statistical analysis title | CMH test, resp. tract, up to Day 90, DMC |
| Statistical analysis description: P. aeruginosa respiratory tract infections that started up to Day 90: Cochran-Mantel-Haenszel test stratified for pooled country - confirmed by DMC | |
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.7136 |
| Method | Cochran-Mantel-Haenszel |

| | |
|--|---|
| Statistical analysis title | CMH test, resp. tract, up to Day 90, investigator |
| Statistical analysis description: P. aeruginosa respiratory tract infections that started up to Day 90: Cochran-Mantel-Haenszel test stratified for pooled country - assessed by investigator | |
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.5537 |
| Method | Cochran-Mantel-Haenszel |

| | |
|---|---|
| Statistical analysis title | CMH test, colonization, up to Day 90, DMC |
| Statistical analysis description: P. aeruginosa respiratory tract colonizations that started up to Day 90: Cochran-Mantel-Haenszel test stratified for pooled country - confirmed by DMC | |
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.017 |
| Method | Cochran-Mantel-Haenszel |

| | |
|---|--|
| Statistical analysis title | CMH test, colonization, up to Day 90, investigator |
| Statistical analysis description: P. aeruginosa respiratory tract colonizations that started up to Day 90: Cochran-Mantel-Haenszel test stratified for pooled country - assessed by investigator | |
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0018 |
| Method | Cochran-Mantel-Haenszel |

| | |
|--|--|
| Statistical analysis title | CMH test, invasive, up to Day 180, DMC |
| Statistical analysis description: P. aeruginosa invasive infections that started up to Day 180: Cochran-Mantel-Haenszel test stratified for pooled country - confirmed by DMC | |
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.8681 |
| Method | Cochran-Mantel-Haenszel |

| | |
|--|---|
| Statistical analysis title | CMH test, invasive, up to Day 180, investigator |
| Statistical analysis description: P. aeruginosa invasive infections that started up to Day 180: Cochran-Mantel-Haenszel test stratified for pooled country - assessed by investigator | |
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.2219 |
| Method | Cochran-Mantel-Haenszel |

| | |
|---|---|
| Statistical analysis title | CMH test, resp. tract, up to Day 180, DMC |
| Statistical analysis description: P. aeruginosa respiratory tract infections that started up to Day 180: Cochran-Mantel-Haenszel test stratified for pooled country - confirmed by DMC | |
| Comparison groups | IC43 v Placebo |

| | |
|---|-------------------------|
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.9852 |
| Method | Cochran-Mantel-Haenszel |

| | |
|-----------------------------------|--|
| Statistical analysis title | CMH test, resp. tract, up to Day 180, investigator |
|-----------------------------------|--|

Statistical analysis description:

P. aeruginosa respiratory tract infections that started up to Day 180: Cochran-Mantel-Haenszel test stratified for pooled country - assessed by investigator

| | |
|---|-------------------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.6054 |
| Method | Cochran-Mantel-Haenszel |

| | |
|-----------------------------------|--|
| Statistical analysis title | CMH test, colonization, up to Day 180, DMC |
|-----------------------------------|--|

Statistical analysis description:

P. aeruginosa respiratory tract colonizations that started up to Day 180: Cochran-Mantel-Haenszel test stratified for pooled country - confirmed by DMC

| | |
|---|-------------------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0371 |
| Method | Cochran-Mantel-Haenszel |

| | |
|-----------------------------------|---|
| Statistical analysis title | CMH test, colonization, up to Day 180, investigator |
|-----------------------------------|---|

Statistical analysis description:

P. aeruginosa respiratory tract colonizations that started up to Day 180: Cochran-Mantel-Haenszel test stratified for pooled country - assessed by investigator

| | |
|---|-------------------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0052 |
| Method | Cochran-Mantel-Haenszel |

Secondary: GMT for OprF/I specific antibodies

| | |
|-----------------|------------------------------------|
| End point title | GMT for OprF/I specific antibodies |
|-----------------|------------------------------------|

End point description:

GMT = geometric mean titer

End point type Secondary

End point timeframe:

GMT for OprF/I specific antibodies on Day 0, 7, 14, 28, 56 and 180

| End point values | IC43 | Placebo | | |
|--|---------------------------|------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 393 | 406 | | |
| Units: EU/mL | | | | |
| geometric mean (confidence interval 95%) | | | | |
| Day 0 | 129.4 (120.5 to 138.8) | 136 (125.8 to 146.9) | | |
| Day 7 | 198.1 (175.8 to 223.3) | 144.2 (132.4 to 157.1) | | |
| Day 14 | 1804.6 (1425.3 to 2284.9) | 156.3 (140.4 to 174.1) | | |
| Day 28 | 2592.4 (1997.8 to 3364.1) | 163.9 (144.3 to 186.1) | | |
| Day 56 | 1143.3 (864.8 to 1511.4) | 169.7 (143.7 to 200.4) | | |
| Day 180 | 425.2 (307.9 to 587.2) | 157.9 (129.7 to 192.3) | | |

Statistical analyses

Statistical analysis title ANOVA at Day 0

Statistical analysis description:

ANOVA = analysis of variance

ANOVA (factors: pooled country, treatment group) for geometric mean of absolute values of OprF/I specific antibodies

Comparison groups IC43 v Placebo

Number of subjects included in analysis 799

Analysis specification Pre-specified

Analysis type superiority

P-value = 0.3638

Method ANOVA

Statistical analysis title ANOVA at Day 7

Statistical analysis description:

ANOVA = analysis of variance

ANOVA (factors: pooled country, treatment group) for geometric mean of absolute values of OprF/I specific antibodies

Comparison groups IC43 v Placebo

| | |
|---|---------------|
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 |
| Method | ANOVA |

| | |
|-----------------------------------|-----------------|
| Statistical analysis title | ANOVA at Day 14 |
|-----------------------------------|-----------------|

Statistical analysis description:

ANOVA = analysis of variance
ANOVA (factors: pooled country, treatment group) for geometric mean of absolute values of OprF/I specific antibodies

| | |
|---|----------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 |
| Method | ANOVA |

| | |
|-----------------------------------|-----------------|
| Statistical analysis title | ANOVA at Day 28 |
|-----------------------------------|-----------------|

Statistical analysis description:

ANOVA = analysis of variance
ANOVA (factors: pooled country, treatment group) for geometric mean of absolute values of OprF/I specific antibodies

| | |
|---|----------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 |
| Method | ANOVA |

| | |
|-----------------------------------|-----------------|
| Statistical analysis title | ANOVA at Day 56 |
|-----------------------------------|-----------------|

Statistical analysis description:

ANOVA = analysis of variance
ANOVA (factors: pooled country, treatment group) for geometric mean of absolute values of OprF/I specific antibodies

| | |
|---|----------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 |
| Method | ANOVA |

| | |
|-----------------------------------|------------------|
| Statistical analysis title | ANOVA at Day 180 |
|-----------------------------------|------------------|

Statistical analysis description:

ANOVA = analysis of variance

ANOVA (factors: pooled country, treatment group) for geometric mean of absolute values of OprF/I specific antibodies

| | |
|---|----------------|
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 799 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 |
| Method | ANOVA |

Secondary: percentage of patients experiencing any AE up to Day 180

| | |
|--|--|
| End point title | percentage of patients experiencing any AE up to Day 180 |
| End point description: | |
| AE = adverse event | |
| End point type | Secondary |
| End point timeframe: | |
| up to Day 180 = up to 180 days after first study vaccination | |

| End point values | IC43 | Placebo | | |
|----------------------------------|---------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 393 | 403 | | |
| Units: percent | | | | |
| number (confidence interval 95%) | 93.1 (90.2 to 95.2) | 96.5 (94.3 to 97.9) | | |

Statistical analyses

| | |
|---|---------------------|
| Statistical analysis title | Fisher's exact test |
| Statistical analysis description: | |
| Fisher's exact test (based on N) | |
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 796 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0365 |
| Method | Fisher exact |

Secondary: percentage of patients experiencing an SAE up to Day 180

| | |
|-----------------------------|--|
| End point title | percentage of patients experiencing an SAE up to Day 180 |
| End point description: | |
| SAE = serious adverse event | |

| | |
|--|-----------|
| End point type | Secondary |
| End point timeframe: up to Day 180 = up to 180 days after first study vaccination | |

| End point values | IC43 | Placebo | | |
|----------------------------------|---------------------|---------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 393 | 403 | | |
| Units: percent | | | | |
| number (confidence interval 95%) | 57.8 (52.8 to 62.5) | 57.6 (52.7 to 62.3) | | |

Statistical analyses

| | |
|---|---------------------|
| Statistical analysis title | Fisher's exact test |
| Statistical analysis description: Fisher's exact test (based on N) | |
| Comparison groups | IC43 v Placebo |
| Number of subjects included in analysis | 796 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 1 |
| Method | Fisher exact |

Secondary: Systemic tolerability: percentage of patients with any abnormalities in vital signs (pulse, blood pressure) within 1 hour after vaccination

| | |
|---|---|
| End point title | Systemic tolerability: percentage of patients with any abnormalities in vital signs (pulse, blood pressure) within 1 hour after vaccination |
| End point description: Percentages are based on the number of non-missing observations within each stratum (Total) | |
| End point type | Secondary |
| End point timeframe: at Day 0 (first vaccination) and at Day 7 (second vaccination) | |

| End point values | IC43 | Placebo | | |
|----------------------------------|------------------|------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 393 | 403 | | |
| Units: percent | | | | |
| number (confidence interval 95%) | | | | |
| Day 0 | 0.8 (0.3 to 2.2) | 0.7 (0.3 to 2.2) | | |
| Day 7 | 0.3 (0.1 to 1.6) | 0 (0 to 1.1) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: presence of local tolerability of injection site of first vaccination at Day 0 and Day 7 and of second vaccination at Day 7 and Day 14

| | |
|-----------------|--|
| End point title | presence of local tolerability of injection site of first vaccination at Day 0 and Day 7 and of second vaccination at Day 7 and Day 14 |
|-----------------|--|

End point description:

Evaluation of erythema/redness, induration, itching, pain, swelling, tenderness.

Percentages are based on the number of non-missing observations within each stratum (Total).

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

End point timeframe:

first vaccination: evaluation 60 min after vaccination at Day 0 and inspection and evaluation on Day 7.
second vaccination: evaluation 60 min after vaccination at Day 7 and inspection and evaluation on Day 14.

| End point values | IC43 | Placebo | | |
|----------------------------------|------------------|------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 393 | 403 | | |
| Units: percent | | | | |
| number (confidence interval 95%) | | | | |
| first, Day 0, erythema/redness | 0.3 (0 to 1.4) | 0 (0 to 0.9) | | |
| first, Day 7, erythema/redness | 0.6 (0.2 to 2) | 0 (0 to 1.1) | | |
| first, Day 0, induration | 0.5 (0.1 to 1.8) | 0.2 (0 to 1.4) | | |
| first, Day 7, induration | 0.6 (0.2 to 2) | 0.6 (0.2 to 2) | | |
| first, Day 0, itching | 0 (0 to 1) | 0 (0 to 0.9) | | |
| first, Day 7, itching | 0 (0 to 1.1) | 0 (0 to 1.1) | | |
| first, Day 0, pain | 0 (0 to 1) | 0.2 (0 to 1.4) | | |
| first, Day 7, pain | 0.3 (0.1 to 1.6) | 0.6 (0.2 to 2) | | |
| first, Day 0, swelling | 0.3 (0 to 1.4) | 0 (0 to 0.9) | | |
| first, Day 7, swelling | 0 (0 to 1.1) | 0.3 (0 to 1.6) | | |
| first, Day 0, tenderness | 0 (0 to 1) | 0 (0 to 0.9) | | |
| first, Day 7, tenderness | 0 (0 to 1.1) | 0 (0 to 1.1) | | |
| second, Day 7, erythema/redness | 0.3 (0.1 to 1.6) | 0 (0 to 1.1) | | |
| second, Day 14, erythema/redness | 0.3 (0.1 to 1.8) | 1 (0.3 to 2.9) | | |
| second, Day 7, induration | 0.9 (0.3 to 2.5) | 0.3 (0.1 to 1.6) | | |
| second, Day 14, induration | 1.3 (0.5 to 3.2) | 1 (0.3 to 2.9) | | |
| second, Day 7, itching | 0 (0 to 1.1) | 0 (0 to 1.1) | | |
| second, Day 14, itching | 0 (0 to 1.2) | 0 (0 to 1.2) | | |
| second, Day 7, pain | 0 (0 to 1.1) | 0.3 (0.1 to 1.6) | | |
| second, Day 14, pain | 0 (0 to 1.2) | 0 (0 to 1.2) | | |

| | | | | |
|----------------------------|--------------|------------------|--|--|
| second, Day 7, swelling | 0 (0 to 1.1) | 0 (0 to 1.1) | | |
| second, Day 14, swelling | 0 (0 to 1.2) | 1 (0.3 to 2.9) | | |
| second, Day 7, tenderness | 0 (0 to 1.1) | 0.3 (0.1 to 1.6) | | |
| second, Day 14, tenderness | 0 (0 to 1.2) | 0.3 (0.1 to 1.8) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Systemic tolerability: percentage of patients with any new abnormalities or any worsening in intensity or frequency of a pre-existing condition during or within 1 hour after vaccination

| | |
|-----------------|---|
| End point title | Systemic tolerability: percentage of patients with any new abnormalities or any worsening in intensity or frequency of a pre-existing condition during or within 1 hour after vaccination |
|-----------------|---|

End point description:

Percentages are based on the number of non-missing observations within each stratum (Total)

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

End point timeframe:

at Day 0 (first vaccination) and at Day 7 (second vaccination)

| End point values | IC43 | Placebo | | |
|----------------------------------|------------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 393 | 403 | | |
| Units: percent | | | | |
| number (confidence interval 95%) | | | | |
| Day 0 | 0 (0 to 1) | 1 (0.4 to 2.5) | | |
| Day 7 | 0.3 (0.1 to 1.6) | 0 (0 to 1.1) | | |

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Adverse events were collected throughout the study, i.e., up to 6 months after first vaccination

| | |
|-----------------|----------------|
| Assessment type | Non-systematic |
|-----------------|----------------|

Dictionary used

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

| | |
|--------------------|------|
| Dictionary version | 18.1 |
|--------------------|------|

Reporting groups

| | |
|-----------------------|------|
| Reporting group title | IC43 |
|-----------------------|------|

Reporting group description:

2 vaccinations, administered 7 days apart

| | |
|-----------------------|---------|
| Reporting group title | Placebo |
|-----------------------|---------|

Reporting group description:

2 vaccinations, administered 7 days apart

| Serious adverse events | IC43 | Placebo | |
|---|--------------------|--------------------|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 227 / 393 (57.76%) | 232 / 403 (57.57%) | |
| number of deaths (all causes) | 173 | 166 | |
| number of deaths resulting from adverse events | | | |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Carcinoid tumour pulmonary | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cholangiocarcinoma | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Colon adenoma | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Colon cancer | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Diffuse large B-cell lymphoma | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Glioblastoma | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Hairy cell leukaemia | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Lung neoplasm malignant | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Non-small cell lung cancer | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Plasma cell myeloma | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Rectal adenocarcinoma | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Small cell lung cancer | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Vascular disorders | | | |
| Arterial haemorrhage | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Deep vein thrombosis | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Haemodynamic instability | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Haemorrhage | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Hypertensive crisis | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hypotension | | | |
| subjects affected / exposed | 3 / 393 (0.76%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 3 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Peripheral arterial occlusive disease | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Peripheral embolism | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Shock | | | |
| subjects affected / exposed | 2 / 393 (0.51%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 2 | 0 / 0 | |
| Shock haemorrhagic | | | |
| subjects affected / exposed | 4 / 393 (1.02%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 4 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 1 | |
| Surgical and medical procedures | | | |
| Tracheostomy | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (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 | | | |
| Brain death | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Cardiac death | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Condition aggravated | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Death | | | |
| subjects affected / exposed | 7 / 393 (1.78%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 7 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 7 | 0 / 1 | |

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|--|------------------|------------------|--|
| Device occlusion | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| General physical health deterioration | | | |
| subjects affected / exposed | 3 / 393 (0.76%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 3 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 2 | 0 / 1 | |
| Impaired healing | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Multi-organ disorder | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Multi-organ failure | | | |
| subjects affected / exposed | 17 / 393 (4.33%) | 21 / 403 (5.21%) | |
| occurrences causally related to treatment / all | 0 / 17 | 0 / 21 | |
| deaths causally related to treatment / all | 0 / 16 | 0 / 21 | |
| Pyrexia | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Sudden cardiac death | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Immune system disorders | | | |
| Anti-neutrophil cytoplasmic antibody positive vasculitis | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |

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|---|-----------------|-----------------|--|
| Respiratory, thoracic and mediastinal disorders | | | |
| Acute pulmonary oedema | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Acute respiratory distress syndrome | | | |
| subjects affected / exposed | 5 / 393 (1.27%) | 5 / 403 (1.24%) | |
| occurrences causally related to treatment / all | 0 / 5 | 0 / 5 | |
| deaths causally related to treatment / all | 0 / 3 | 0 / 4 | |
| Acute respiratory failure | | | |
| subjects affected / exposed | 2 / 393 (0.51%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 1 | |
| Apnoea | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Asphyxia | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Aspiration | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 2 / 403 (0.50%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 1 | |
| Bronchospasm | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Chronic obstructive pulmonary disease | | | |
| subjects affected / exposed | 3 / 393 (0.76%) | 3 / 403 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 4 | 0 / 3 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

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|---|-----------------|-----------------|--|
| Dyspnoea | | | |
| subjects affected / exposed | 3 / 393 (0.76%) | 3 / 403 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 4 | 0 / 3 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hypercapnia | | | |
| subjects affected / exposed | 2 / 393 (0.51%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Hypoxia | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Lower respiratory tract inflammation | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Lung infiltration | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Obstructive airways disorder | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Organising pneumonia | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Oropharyngeal spasm | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pleural effusion | | | |

| | | |
|---|-----------------|-----------------|
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Pneumomediastinum | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Pneumonia aspiration | | |
| subjects affected / exposed | 2 / 393 (0.51%) | 0 / 403 (0.00%) |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Pneumothorax | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 |
| Pneumothorax spontaneous | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Pulmonary embolism | | |
| subjects affected / exposed | 2 / 393 (0.51%) | 5 / 403 (1.24%) |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 5 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 3 |
| Pulmonary fibrosis | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 1 |
| Pulmonary haemorrhage | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 |
| Pulmonary oedema | | |

| | | |
|---|------------------|------------------|
| subjects affected / exposed | 2 / 393 (0.51%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Respiratory acidosis | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Respiratory arrest | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 |
| Respiratory disorder | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 |
| Respiratory distress | | |
| subjects affected / exposed | 2 / 393 (0.51%) | 3 / 403 (0.74%) |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 3 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 1 |
| Respiratory failure | | |
| subjects affected / exposed | 29 / 393 (7.38%) | 28 / 403 (6.95%) |
| occurrences causally related to treatment / all | 0 / 30 | 1 / 32 |
| deaths causally related to treatment / all | 0 / 21 | 0 / 14 |
| Respiratory fatigue | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Restrictive pulmonary disease | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 |
| Stridor | | |

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|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Tracheal stenosis | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Psychiatric disorders | | | |
| Delirium | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Depression | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Investigations | | | |
| C-reactive protein increased | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Oxygen saturation decreased | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Injury, poisoning and procedural complications | | | |
| Delayed haemolytic transfusion reaction | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Facial bones fracture | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Lumbar vertebral fracture | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Peripancreatic fluid collection | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Post procedural haemorrhage | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Shunt malfunction | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Shunt occlusion | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cardiac disorders | | | |
| Acute myocardial infarction | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 2 / 403 (0.50%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 1 | |
| Angina pectoris | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Arrhythmia | | | |

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|---|------------------|------------------|--|
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Atrial fibrillation | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cardiac arrest | | | |
| subjects affected / exposed | 17 / 393 (4.33%) | 20 / 403 (4.96%) | |
| occurrences causally related to treatment / all | 0 / 17 | 0 / 20 | |
| deaths causally related to treatment / all | 0 / 15 | 0 / 16 | |
| Cardiac disorder | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cardiac failure | | | |
| subjects affected / exposed | 15 / 393 (3.82%) | 5 / 403 (1.24%) | |
| occurrences causally related to treatment / all | 0 / 16 | 0 / 5 | |
| deaths causally related to treatment / all | 0 / 12 | 0 / 5 | |
| Cardiac failure acute | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Cardiac failure chronic | | | |
| subjects affected / exposed | 2 / 393 (0.51%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 2 | 0 / 0 | |
| Cardio-respiratory arrest | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 2 / 403 (0.50%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 1 | |
| Cardiogenic shock | | | |

| | | | |
|---|------------------|------------------|--|
| subjects affected / exposed | 3 / 393 (0.76%) | 3 / 403 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 3 | 0 / 3 | |
| deaths causally related to treatment / all | 0 / 3 | 0 / 2 | |
| Cardiopulmonary failure | | | |
| subjects affected / exposed | 12 / 393 (3.05%) | 10 / 403 (2.48%) | |
| occurrences causally related to treatment / all | 0 / 12 | 0 / 10 | |
| deaths causally related to treatment / all | 0 / 12 | 0 / 10 | |
| Cardiovascular insufficiency | | | |
| subjects affected / exposed | 2 / 393 (0.51%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 2 | 0 / 1 | |
| Chordae tendinae rupture | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cor pulmonale acute | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Coronary artery disease | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Coronary artery occlusion | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Mitral valve incompetence | | | |
| subjects affected / exposed | 3 / 393 (0.76%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 3 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Myocardial infarction | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Myocardial ischaemia | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pulseless electrical activity | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Tachyarrhythmia | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Ventricular fibrillation | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Ventricular tachycardia | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Nervous system disorders | | | |
| Brain hypoxia | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Brain injury | | | |
| subjects affected / exposed | 4 / 393 (1.02%) | 4 / 403 (0.99%) | |
| occurrences causally related to treatment / all | 0 / 4 | 0 / 4 | |
| deaths causally related to treatment / all | 0 / 4 | 0 / 4 | |
| Brain oedema | | | |

| | | |
|---|-----------------|-----------------|
| subjects affected / exposed | 3 / 393 (0.76%) | 2 / 403 (0.50%) |
| occurrences causally related to treatment / all | 0 / 3 | 0 / 2 |
| deaths causally related to treatment / all | 0 / 2 | 0 / 1 |
| Cerebellar infarction | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Cerebral artery occlusion | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 |
| Cerebral haemorrhage | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 2 / 403 (0.50%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 2 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 2 |
| Cerebral infarction | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 |
| Cerebral ischaemia | | |
| subjects affected / exposed | 2 / 393 (0.51%) | 3 / 403 (0.74%) |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 3 |
| deaths causally related to treatment / all | 0 / 2 | 0 / 3 |
| Cerebrovascular accident | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 4 / 403 (0.99%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 4 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 4 |
| Coma | | |
| subjects affected / exposed | 4 / 393 (1.02%) | 4 / 403 (0.99%) |
| occurrences causally related to treatment / all | 0 / 4 | 0 / 4 |
| deaths causally related to treatment / all | 0 / 4 | 0 / 3 |
| Critical illness polyneuropathy | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Encephalopathy | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Haemorrhage intracranial | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 1 | |
| Hemiparesis | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hemiplegia | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hydrocephalus | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hypoxic-ischaemic encephalopathy | | | |
| subjects affected / exposed | 2 / 393 (0.51%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 2 | 0 / 0 | |
| Intracranial pressure increased | | | |
| subjects affected / exposed | 2 / 393 (0.51%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 2 | 0 / 1 | |
| Intraventricular haemorrhage | | | |

| | | |
|---|-----------------|-----------------|
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Ischaemic stroke | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Loss of consciousness | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 |
| Neuroleptic malignant syndrome | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Neurological decompensation | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 |
| Polyneuropathy | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Status epilepticus | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Subarachnoid haemorrhage | | |
| subjects affected / exposed | 2 / 393 (0.51%) | 2 / 403 (0.50%) |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 2 |
| deaths causally related to treatment / all | 0 / 2 | 0 / 2 |
| Syncope | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Blood and lymphatic system disorders | | | |
| Thrombocytopenia | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastrointestinal disorders | | | |
| Abdominal compartment syndrome | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Abdominal discomfort | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Abdominal pain | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Colitis ischaemic | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Enteritis | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Faecaloma | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastrointestinal haemorrhage | | | |

| | | |
|---|-----------------|-----------------|
| subjects affected / exposed | 2 / 393 (0.51%) | 4 / 403 (0.99%) |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 5 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 |
| Ileus | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Intestinal ischaemia | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Intestinal perforation | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Intra-abdominal haemorrhage | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Large intestine perforation | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Megacolon | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Melaena | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 2 / 403 (0.50%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 2 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Oesophageal perforation | | |

| | | |
|---|-----------------|-----------------|
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Oesophageal varices haemorrhage | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Pancreatic necrosis | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Pancreatitis | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Pancreatitis acute | | |
| subjects affected / exposed | 2 / 393 (0.51%) | 0 / 403 (0.00%) |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Pancreatitis necrotising | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Peritoneal haemorrhage | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Pharyngo-oesophageal diverticulum | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Pneumoperitoneum | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Rectal haemorrhage | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Retroperitoneal haemorrhage | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Upper gastrointestinal haemorrhage | | | |
| subjects affected / exposed | 2 / 393 (0.51%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hepatobiliary disorders | | | |
| Acute hepatic failure | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 2 / 403 (0.50%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Hepatic cirrhosis | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Skin and subcutaneous tissue disorders | | | |
| Decubitus ulcer | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Stevens-Johnson syndrome | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Renal and urinary disorders | | | |

| | | | |
|---|-----------------|-----------------|--|
| Acute kidney injury | | | |
| subjects affected / exposed | 3 / 393 (0.76%) | 4 / 403 (0.99%) | |
| occurrences causally related to treatment / all | 0 / 3 | 0 / 4 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Calculus urinary | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Chronic kidney disease | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Renal failure | | | |
| subjects affected / exposed | 3 / 393 (0.76%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 4 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Urinary bladder haemorrhage | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Musculoskeletal and connective tissue disorders | | | |
| Muscular weakness | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Rhabdomyolysis | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Infections and infestations | | | |
| Abdominal sepsis | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

| | | | |
|---|-----------------|-----------------|--|
| Appendicitis perforated | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Bacteraemia | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Brain abscess | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Bronchopulmonary aspergillosis | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cellulitis | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Clostridium difficile colitis | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Empyema | | | |
| subjects affected / exposed | 2 / 393 (0.51%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Endocarditis | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 3 / 403 (0.74%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 3 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 1 | |
| Escherichia sepsis | | | |

| | | |
|---|-----------------|-----------------|
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 |
| Influenza | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Localised infection | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Lung abscess | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 |
| Lung infection | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 |
| Meningoencephalitis bacterial | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 |
| Osteomyelitis | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Pancreatic abscess | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Peritonitis bacterial | | |

| | | | |
|---|------------------|------------------|--|
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Pneumonia | | | |
| subjects affected / exposed | 12 / 393 (3.05%) | 9 / 403 (2.23%) | |
| occurrences causally related to treatment / all | 0 / 12 | 0 / 9 | |
| deaths causally related to treatment / all | 0 / 5 | 0 / 3 | |
| Pneumonia necrotising | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Pneumonia pseudomonal | | | |
| subjects affected / exposed | 5 / 393 (1.27%) | 2 / 403 (0.50%) | |
| occurrences causally related to treatment / all | 0 / 5 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 1 | |
| Pulmonary sepsis | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 2 / 403 (0.50%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Respiratory tract infection | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Retroperitoneal abscess | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Sepsis | | | |
| subjects affected / exposed | 13 / 393 (3.31%) | 10 / 403 (2.48%) | |
| occurrences causally related to treatment / all | 0 / 14 | 0 / 10 | |
| deaths causally related to treatment / all | 0 / 9 | 0 / 4 | |
| Septic shock | | | |

| | | | |
|---|------------------|------------------|--|
| subjects affected / exposed | 11 / 393 (2.80%) | 21 / 403 (5.21%) | |
| occurrences causally related to treatment / all | 0 / 11 | 0 / 21 | |
| deaths causally related to treatment / all | 0 / 9 | 0 / 18 | |
| Soft tissue infection | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Staphylococcal bacteraemia | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Systemic candida | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Tracheobronchitis | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Urinary tract infection | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 2 / 403 (0.50%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Urosepsis | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Metabolism and nutrition disorders | | | |
| Dehydration | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Hypoglycaemia | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Malnutrition | | | |
| subjects affected / exposed | 0 / 393 (0.00%) | 1 / 403 (0.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Metabolic disorder | | | |
| subjects affected / exposed | 1 / 393 (0.25%) | 0 / 403 (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 %

| Non-serious adverse events | IC43 | Placebo | |
|--|--------------------|--------------------|--|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 339 / 393 (86.26%) | 365 / 403 (90.57%) | |
| Vascular disorders | | | |
| Hypertension | | | |
| subjects affected / exposed | 20 / 393 (5.09%) | 29 / 403 (7.20%) | |
| occurrences (all) | 20 | 31 | |
| Hypotension | | | |
| subjects affected / exposed | 21 / 393 (5.34%) | 27 / 403 (6.70%) | |
| occurrences (all) | 22 | 27 | |
| Cardiac disorders | | | |
| Atrial fibrillation | | | |
| subjects affected / exposed | 28 / 393 (7.12%) | 22 / 403 (5.46%) | |
| occurrences (all) | 32 | 23 | |
| Nervous system disorders | | | |
| Critical illness polyneuropathy | | | |
| subjects affected / exposed | 20 / 393 (5.09%) | 14 / 403 (3.47%) | |
| occurrences (all) | 20 | 14 | |
| General disorders and administration site conditions | | | |
| Pyrexia | | | |

| | | | |
|--|---|---|--|
| subjects affected / exposed occurrences (all) | 42 / 393 (10.69%) 56 | 62 / 403 (15.38%) 78 | |
| Blood and lymphatic system disorders Anaemia subjects affected / exposed occurrences (all) | 38 / 393 (9.67%) 38 | 40 / 403 (9.93%) 42 | |
| Gastrointestinal disorders Diarrhoea subjects affected / exposed occurrences (all) Vomiting subjects affected / exposed occurrences (all) Constipation subjects affected / exposed occurrences (all) Impaired gastric emptying subjects affected / exposed occurrences (all) | 57 / 393 (14.50%) 65 23 / 393 (5.85%) 25 21 / 393 (5.34%) 21 18 / 393 (4.58%) 19 | 52 / 403 (12.90%) 60 23 / 403 (5.71%) 27 22 / 403 (5.46%) 22 24 / 403 (5.96%) 24 | |
| Respiratory, thoracic and mediastinal disorders Pleural effusion subjects affected / exposed occurrences (all) | 28 / 393 (7.12%) 28 | 30 / 403 (7.44%) 33 | |
| Skin and subcutaneous tissue disorders Decubitus ulcer subjects affected / exposed occurrences (all) | 53 / 393 (13.49%) 56 | 49 / 403 (12.16%) 55 | |
| Psychiatric disorders Agitation subjects affected / exposed occurrences (all) | 31 / 393 (7.89%) 32 | 38 / 403 (9.43%) 39 | |
| Infections and infestations Urinary tract infection subjects affected / exposed occurrences (all) Pneumonia | 52 / 393 (13.23%) 62 | 51 / 403 (12.66%) 55 | |

| | | | |
|--|------------------------|-------------------------|--|
| subjects affected / exposed occurrences (all) | 35 / 393 (8.91%) 41 | 43 / 403 (10.67%) 46 | |
| Tracheobronchitis subjects affected / exposed occurrences (all) | 28 / 393 (7.12%) 33 | 32 / 403 (7.94%) 35 | |
| Bacterial disease carrier subjects affected / exposed occurrences (all) | 24 / 393 (6.11%) 36 | 17 / 403 (4.22%) 22 | |
| Sepsis subjects affected / exposed occurrences (all) | 21 / 393 (5.34%) 23 | 20 / 403 (4.96%) 20 | |
| Metabolism and nutrition disorders Hypernatraemia subjects affected / exposed occurrences (all) | 17 / 393 (4.33%) 18 | 24 / 403 (5.96%) 25 | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|-----------------|--|
| 29 October 2012 | <ol style="list-style-type: none">1. Update of secondary efficacy endpoints to correctly reflect the description of statistical analysis as per section 10.4 of the study protocol.2. Table Of Events: no changes in content but activities were re-arranged to largely reflect chronological order of tasks to be performed at each study visit.3. To include the option of having a serum pregnancy test performed in female patients of childbearing potential instead of a urine pregnancy test.4. To describe more precisely assessment of SOFA and APACHE II scores.5. Definition of acceptable methods of birth control in line with the Informed Consent Form.6. To correctly present the pre-defined fertility criterion and operational characteristics of the interim analysis including unconditional power, significance level and conditional power for the planned (unchanged) sample size.7. To add editorial changes. |
| 16 May 2014 | <p>Revision of section 2.2 "Secondary Objectives" to include analysis of overall mortality on Day 28 and overall survival in ventilated ICU patients with documented medical history of a hepatobiliary disorder.</p> <p>Revision of section 3.1.2 "Secondary Endpoints" to include secondary endpoints regarding overall mortality on Day 28 and overall survival in ventilated ICU patients with documented medical history of a hepatobiliary disorder.</p> <p>Update of section 3.2.1 "Overall design and control method" to include justification for introduction of new secondary endpoints and objectives.</p> <p>Revision of sections 5.1.2 "Packaging & labeling of IC43" and 5.2.2 "5.2.2 Packaging & labeling of placebo" to reflect the address change of ABF</p> <p>Revision of section 10.4 "Secondary Efficacy Analysis" to include stratification of survival endpoints and mortality rate for the presence of any hepatobiliary disorder in the patient's Medical History;</p> |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported