



## Clinical trial results:

**A prospective, randomized, open-label, parallel-group, active-controlled, multicenter study exploring the efficacy and safety of once-daily oral rivaroxaban (BAY59-7939) compared with that of dose-adjusted oral vitamin K antagonist (VKA) for the prevention of stroke and non-central nervous system systemic embolism in subjects with non-valvular atrial fibrillation scheduled for cardioversion**

### Summary

|                          |                               |
|--------------------------|-------------------------------|
| EudraCT number           | 2011-002234-39                |
| Trial protocol           | FI PT ES NL DE GR BE GB IT DK |
| Global end of trial date | 24 January 2014               |

### Results information

|                                |   |
|--------------------------------|---|
| Result version number          | v2  |
| This version publication date  | 24 July 2016  |
| First version publication date | 26 April 2015                                       |
| Version creation reason        | • Correction of full data set control of data entry |

### Trial information

#### Trial identification

|                       |                  |
|-----------------------|------------------|
| Sponsor protocol code | BAY59-7939/15693 |
|-----------------------|------------------|

#### Additional study identifiers

|                                    |             |
|------------------------------------|-------------|
| ISRCTN number                      | -           |
| ClinicalTrials.gov id (NCT number) | NCT01674647 |
| WHO universal trial number (UTN)   | -           |

Notes:

### Sponsors

|                              |  |
|------------------------------|--|
| Sponsor organisation name    | Bayer AG   |
| Sponsor organisation address | Kaiser-Wilhelm-Allee, Leverkusen, D-51368, Germany,                  |
| Public contact               | Clinical Trials Contact, Bayer AG, clinical-trials-contact@bayer.com |
| Scientific contact           | Clinical Trials Contact, Bayer AG, clinical-trials-contact@bayer.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                       | 11 April 2014   |
| Is this the analysis of the primary completion data? | No              |
| Global end of trial reached?                         | Yes             |
| Global end of trial date                             | 24 January 2014 |
| Was the trial ended prematurely?                     | No              |

Notes:

## General information about the trial

Main objective of the trial:

The primary efficacy and safety objectives were to explore the efficacy of rivaroxaban compared with that of dose-adjusted VKA in the prevention of the events with regard to the combined efficacy endpoint of all stroke or transient ischemic attack (TIA), non-central nervous system (CNS) systemic embolism, myocardial infarction (MI), and cardiovascular death in subjects with atrial fibrillation (AF) scheduled for cardioversion; and to explore the safety of rivaroxaban compared with dose-adjusted VKA with regard to the safety endpoint of major bleeding events in subjects with AF scheduled for cardioversion.

Protection of trial subjects:

All clinical work conducted in this study was subjected to the rules of Good Clinical Practice and under the guidelines of Declaration of Helsinki. Participating subjects or their legally authorized representative signed informed consent form and could withdraw from the study at any time without any disadvantage and without having to provide a reason for this decision. Only investigators qualified by training and experience were selected as appropriate experts to investigate the study drug.

Background therapy: -

Evidence for comparator: -

|   |                 |
|---|-----------------|
| Actual start date of recruitment                          | 03 October 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 | Portugal: 62        |
| Country: Number of subjects enrolled | Spain: 84           |
| Country: Number of subjects enrolled | United Kingdom: 117 |
| Country: Number of subjects enrolled | Netherlands: 82     |
| Country: Number of subjects enrolled | Belgium: 108        |
| Country: Number of subjects enrolled | Denmark: 160        |
| Country: Number of subjects enrolled | Finland: 84         |
| Country: Number of subjects enrolled | France: 46          |
| Country: Number of subjects enrolled | Germany: 120        |
| Country: Number of subjects enrolled | Greece: 23          |
| Country: Number of subjects enrolled | Italy: 156          |
| Country: Number of subjects enrolled | United States: 290  |
| Country: Number of subjects enrolled | South Africa: 93    |

|                                      |               |
|--------------------------------------|---------------|
| Country: Number of subjects enrolled | Singapore: 20 |
| Country: Number of subjects enrolled | Canada: 74    |
| Country: Number of subjects enrolled | China: 65     |
| Worldwide total number of subjects   | 1584          |
| EEA total number of subjects         | 1042          |

Notes:

| <b>Subjects enrolled per age group</b>    |     |
|---|-----|
| In utero                                  | 0   |
| Preterm newborn - gestational age < 37 wk | 0   |
| Newborns (0-27 days)                      | 0   |
| Infants and toddlers (28 days-23 months)  | 0   |
| Children (2-11 years)                     | 0   |
| Adolescents (12-17 years)                 | 0   |
| Adults (18-64 years)                      | 696 |
| From 65 to 84 years                       | 858 |
| 85 years and over                         | 30  |

## Subject disposition

### Recruitment

Recruitment details:

The study was conducted at 141 centers (involving 144 investigators) in Europe, South Africa, North America, and Asia Pacific.

### Pre-assignment

Screening details:

Overall, 1584 subjects were screened and 80 subjects did not complete or pass screening. 1504 subjects were randomized; 1002 were assigned to rivaroxaban and 502 to Vitamin K antagonist (VKA).

### Pre-assignment period milestones

|                              |      |
|------------------------------|------|
| Number of subjects started   | 1584 |
| Number of subjects completed | 1504 |

### Pre-assignment subject non-completion reasons

|                            |                                 |
|----------------------------|---------------------------------|
| Reason: Number of subjects | Consent withdrawn by subject: 7 |
| Reason: Number of subjects | Screening failure: 71           |
| Reason: Number of subjects | Adverse event: 2                |

### Period 1

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

### Arms

|                              |     |
|------------------------------|-----|
| Are arms mutually exclusive? | Yes |
|------------------------------|-----|

|                  |                                   |
|------------------|-----------------------------------|
| <b>Arm title</b> | Rivaroxaban (Xarelto; BAY59-7939) |
|------------------|-----------------------------------|

Arm description:

Subjects randomized to treatment with rivaroxaban received rivaroxaban 20 milligram (mg) orally once daily. Subjects with moderate renal impairment [i.e., Creatinine clearance (CrCl) of 30 to 49 milliliter per minute (mL/min), inclusive] at screening received the adjusted dose of 15 mg once daily. The duration of the treatment period for a given subject depended on the cardioversion strategy. For subjects in the Direct Cardioversion Strategy, the cardioversion procedure was performed within 1-5 days after randomization. Rivaroxaban was given for 1-5 days before planned direct cardioversion and for 42 days thereafter. Subjects in the Delayed Cardioversion Strategy received rivaroxaban for 21 (+4) to 56 (+4) days prior to cardioversion and for 42 days thereafter.

|  |              |
|--|--------------|
| Arm type                               | Experimental |
| Investigational medicinal product name | Rivaroxaban  |
| Investigational medicinal product code | BAY59-7939   |
| Other name                             | Xarelto      |
| Pharmaceutical forms                   | Tablet       |
| Routes of administration               | Oral use     |

Dosage and administration details:

Rivaroxaban 20 mg orally once daily; subjects with moderate renal impairment [i.e., CrCl of 30 to 49 mL/min, inclusive] received the adjusted dose of 15 mg orally once daily.

|                  |                            |
|------------------|----------------------------|
| <b>Arm title</b> | Vitamin K antagonist (VKA) |
|------------------|----------------------------|

Arm description:

Subjects assigned to treatment with VKA received VKA orally once daily titrated to a target INR of 2.5 (range 2.0-3.0, inclusive). The specific VKA was assigned by the investigator according to the local standard of practice. For subjects randomized to receive VKA, the investigator assessed if a parenteral

anticoagulant drug, particularly prior to cardioversion, was needed as bridging therapy with VKA as standard of care (until target INR was achieved). The duration depended on the cardioversion strategy. For subjects in the Direct Cardioversion Strategy, the cardioversion procedure was performed within 1-5 days after randomization. VKA was given for 1-5 days before cardioversion and for 42 days thereafter. Subjects in the Delayed Cardioversion Strategy received VKA for 21 (+4) to 56 (+4) days before cardioversion and for 42 days thereafter.

|  |                      |
|--|----------------------|
| Arm type                               | Active comparator    |
| Investigational medicinal product name | Vitamin K antagonist |
| Investigational medicinal product code |                      |
| Other name                             |                      |
| Pharmaceutical forms                   | Tablet               |
| Routes of administration               | Oral use             |

Dosage and administration details:

Subjects assigned to treatment with VKA received VKA orally once daily titrated to a target INR of 2.5 (range 2.0-3.0, inclusive). The specific VKA (eg, warfarin) was assigned by the investigator according to the local standard of practice.

| <b>Number of subjects in period 1<sup>[1]</sup></b> | Rivaroxaban<br>(Xarelto; BAY59-7939) | Vitamin K antagonist<br>(VKA) |
|---|--------------------------------------|-------------------------------|
| Started   | 1002                                 | 502                           |
| subjects received treatment                         | 988                                  | 499                           |
| Completed   | 846                                  | 400                           |
| Not completed                                       | 156                                  | 102                           |
| Consent withdrawn by subject                        | 19                                   | 16                            |
| Physician decision                                  | 3                                    | 1                             |
| Logistical difficulties                             | 5                                    | 8                             |
| Treatment failure                                   | -                                    | 14                            |
| Protocol violation                                  | 56                                   | 36                            |
| Death   | 4                                    | 1                             |
| Switching to other therapy                          | 5                                    | 2                             |
| Non-compliance with study drug                      | 3                                    | -                             |
| Adverse event                                       | 60                                   | 22                            |
| Efficacy outcome reached                            | -                                    | 1                             |
| Lost to follow-up                                   | 1                                    | 1                             |

Notes:

[1] - The number of subjects reported to be in the baseline period are not the same as the worldwide number enrolled in the trial. It is expected that these numbers will be the same.

Justification: Due to screen failure, not all enrolled subjects were randomized and treated with study drugs.

## Period 2

|                              |                                |
|------------------------------|--------------------------------|
| Period 2 title               | 30-day safety follow-up period |
| Is this the baseline period? | No                             |
| Allocation method            | Randomised - controlled        |
| Blinding used                | Not blinded                    |

**Arms**

|                              |    |
|------------------------------|----|
| Are arms mutually exclusive? | No |
|------------------------------|----|

|                  |                                   |
|------------------|-----------------------------------|
| <b>Arm title</b> | Rivaroxaban (Xarelto; BAY59-7939) |
|------------------|-----------------------------------|

Arm description:

After the 42 day treatment period subsequent to cardioversion, the investigator assessed whether or not long-term anticoagulation was warranted and treated the subject according to standard of care. The subject then entered the 30-day follow-up period.

|          |                 |
|----------|-----------------|
| Arm type | No intervention |
|----------|-----------------|

No investigational medicinal product assigned in this arm

|                  |                            |
|------------------|----------------------------|
| <b>Arm title</b> | Vitamin K antagonist (VKA) |
|------------------|----------------------------|

Arm description:

After the 42 day treatment period subsequent to cardioversion, the investigator assessed whether or not long-term anticoagulation was warranted and treated the subject according to standard of care. The subject then entered the 30-day follow-up period.

|          |                 |
|----------|-----------------|
| Arm type | No intervention |
|----------|-----------------|

No investigational medicinal product assigned in this arm

| Number of subjects in period 2 | Rivaroxaban<br>(Xarelto; BAY59-7939) | Vitamin K antagonist<br>(VKA) |
|--------------------------------|--------------------------------------|-------------------------------|
|                                |                                      |                               |
| Started                        | 982                                  | 487                           |
| Completed                      | 924                                  | 446                           |
| Not completed                  | 58                                   | 41                            |
| Consent withdrawn by subject   | 7                                    | 8                             |
| Logistical difficulties        | 1                                    | 3                             |
| Protocol violation             | 39                                   | 22                            |
| Death                          | 3                                    | 2                             |
| Non-compliance with study drug | -                                    | 1                             |
| Lost to follow-up              | 8                                    | 5                             |

## Baseline characteristics

### Reporting groups

|                       |                                   |
|-----------------------|-----------------------------------|
| Reporting group title | Rivaroxaban (Xarelto; BAY59-7939) |
|-----------------------|-----------------------------------|

Reporting group description:

Subjects randomized to treatment with rivaroxaban received rivaroxaban 20 milligram (mg) orally once daily. Subjects with moderate renal impairment [i.e., Creatinine clearance (CrCl) of 30 to 49 milliliter per minute (mL/min), inclusive] at screening received the adjusted dose of 15 mg once daily. The duration of the treatment period for a given subject depended on the cardioversion strategy. For subjects in the Direct Cardioversion Strategy, the cardioversion procedure was performed within 1-5 days after randomization. Rivaroxaban was given for 1-5 days before planned direct cardioversion and for 42 days thereafter. Subjects in the Delayed Cardioversion Strategy received rivaroxaban for 21 (+4) to 56 (+4) days prior to cardioversion and for 42 days thereafter.

|                       |                            |
|-----------------------|----------------------------|
| Reporting group title | Vitamin K antagonist (VKA) |
|-----------------------|----------------------------|

Reporting group description:

Subjects assigned to treatment with VKA received VKA orally once daily titrated to a target INR of 2.5 (range 2.0-3.0, inclusive). The specific VKA was assigned by the investigator according to the local standard of practice. For subjects randomized to receive VKA, the investigator assessed if a parenteral anticoagulant drug, particularly prior to cardioversion, was needed as bridging therapy with VKA as standard of care (until target INR was achieved). The duration depended on the cardioversion strategy. For subjects in the Direct Cardioversion Strategy, the cardioversion procedure was performed within 1-5 days after randomization. VKA was given for 1-5 days before cardioversion and for 42 days thereafter. Subjects in the Delayed Cardioversion Strategy received VKA for 21 (+4) to 56 (+4) days before cardioversion and for 42 days thereafter.

| Reporting group values             | Rivaroxaban<br>(Xarelto; BAY59-7939) | Vitamin K antagonist<br>(VKA) | Total |
|------------------------------------|--------------------------------------|-------------------------------|-------|
| Number of subjects                 | 1002                                 | 502                           | 1504  |
| Age categorical<br>Units: Subjects |                                      |                               |       |

|   |                |                |             |
|---|----------------|----------------|-------------|
| Age continuous<br>Units: years<br>arithmetic mean<br>standard deviation   | 64.9<br>± 10.6 | 64.7<br>± 10.5 | -           |
| Gender categorical<br>Units: Subjects<br>Female<br>Male   | 275<br>727     | 135<br>367     | 410<br>1094 |
| CHADS 2 score<br>Predicts clinical risk of stroke and thromboembolism in atrial fibrillation incorporating these risk factors: Congestive heart failure, Hypertension, Age [greater than or equal to ( $\geq$ ) 75 years], Diabetes mellitus, Stroke/transient ischemic attack. Total score ranged from 0 to 6, with "0"= low risk, "1"= moderate risk and " $\geq 2$ "= high risk.   |                |                |             |
| Units: units on scale<br>arithmetic mean<br>standard deviation  | 1.3<br>± 1.1   | 1.4<br>± 1.1   | -           |
| CHA 2 DS 2 VASc score<br>Predicts clinical risk of stroke and thromboembolism in atrial fibrillation incorporating these risk factors: Congestive heart failure/left ventricular dysfunction, Hypertension, Age $\geq$ 75 years, Diabetes mellitus, Stroke/transient ischemic attack/thromboembolism, Vascular disease (prior myocardial infarction, peripheral artery disease, or aortic plaque), Age 65 - 74 years, Sex category (i.e., female). Total score ranged from 0 to 8, with "0" (or 1 if female only)= Low risk ; "1" (except for female gender alone)= moderate risk and " $\geq 2$ "=high risk. |                |                |             |
| Units: units on scale   |                |                |             |

|                    |       |       |   |
|--------------------|-------|-------|---|
| arithmetic mean    | 2.3   | 2.3   |   |
| standard deviation | ± 1.6 | ± 1.6 | - |



## End points

### End points reporting groups

|   |                                      |
|---|--------------------------------------|
| Reporting group title   | Rivaroxaban (Xarelto; BAY59-7939)    |
| Reporting group description:<br>Subjects randomized to treatment with rivaroxaban received rivaroxaban 20 milligram (mg) orally once daily. Subjects with moderate renal impairment [i.e., Creatinine clearance (CrCl) of 30 to 49 milliliter per minute (mL/min), inclusive] at screening received the adjusted dose of 15 mg once daily. The duration of the treatment period for a given subject depended on the cardioversion strategy. For subjects in the Direct Cardioversion Strategy, the cardioversion procedure was performed within 1-5 days after randomization. Rivaroxaban was given for 1-5 days before planned direct cardioversion and for 42 days thereafter. Subjects in the Delayed Cardioversion Strategy received rivaroxaban for 21 (+4) to 56 (+4) days prior to cardioversion and for 42 days thereafter.   |                                      |
| Reporting group title   | Vitamin K antagonist (VKA)           |
| Reporting group description:<br>Subjects assigned to treatment with VKA received VKA orally once daily titrated to a target INR of 2.5 (range 2.0-3.0, inclusive). The specific VKA was assigned by the investigator according to the local standard of practice. For subjects randomized to receive VKA, the investigator assessed if a parenteral anticoagulant drug, particularly prior to cardioversion, was needed as bridging therapy with VKA as standard of care (until target INR was achieved). The duration depended on the cardioversion strategy. For subjects in the Direct Cardioversion Strategy, the cardioversion procedure was performed within 1-5 days after randomization. VKA was given for 1-5 days before cardioversion and for 42 days thereafter. Subjects in the Delayed Cardioversion Strategy received VKA for 21 (+4) to 56 (+4) days before cardioversion and for 42 days thereafter. |                                      |
| Reporting group title   | Rivaroxaban (Xarelto; BAY59-7939)    |
| Reporting group description:<br>After the 42 day treatment period subsequent to cardioversion, the investigator assessed whether or not long-term anticoagulation was warranted and treated the subject according to standard of care. The subject then entered the 30-day follow-up period.  |                                      |
| Reporting group title   | Vitamin K antagonist (VKA)           |
| Reporting group description:<br>After the 42 day treatment period subsequent to cardioversion, the investigator assessed whether or not long-term anticoagulation was warranted and treated the subject according to standard of care. The subject then entered the 30-day follow-up period.  |                                      |
| Subject analysis set title  | Intention-to-treat (ITT) population  |
| Subject analysis set type   | Intention-to-treat                   |
| Subject analysis set description:<br>All randomized unique subjects. Subjects were analyzed as randomized.  |                                      |
| Subject analysis set title  | modified ITT (mITT) population       |
| Subject analysis set type   | Intention-to-treat                   |
| Subject analysis set description:<br>All subjects in the ITT population in whom a left atrial/left atrial appendage (LA/LAA) thrombus was not diagnosed during a transesophageal echocardiogram (TEE) performed before the first planned cardioversion in the study. Subjects were analyzed as randomized. A total of 34 subjects were excluded from the ITT population based upon confirmation of LA/LAA thrombus; thus, the mITT population comprised 1470 subjects, including 978 subjects randomized to rivaroxaban and 492 subjects randomized to VKA.   |                                      |
| Subject analysis set title  | Safety analysis set (SAF) population |
| Subject analysis set type   | Safety analysis                      |
| Subject analysis set description:<br>SAF population included all randomized subjects who received at least 1 dose of study medication after randomization during the treatment period. Subjects were analyzed as treated. The SAF population comprised 1487 subjects, including 988 subjects randomized to rivaroxaban and 499 subjects randomized to VKA.  |                                      |

**Primary: Number of subjects with composite of the following events, adjudicated centrally: stroke, transient ischemic attack, non-central nervous system systemic embolism, myocardial infarction and cardiovascular death**

|                 |   |
|-----------------|---|
| End point title | Number of subjects with composite of the following events, adjudicated centrally: stroke, transient ischemic attack, non-central nervous system systemic embolism, myocardial infarction and cardiovascular death |
|-----------------|---|

End point description:

Stroke, TIA, Non-CNS Embolism, MI and cardiovascular death were adjudicated and confirmed by Clinical Endpoints Committee (CEC). Stroke included hemorrhagic and ischemic infarction. TIA including information if with or without matching lesion. Non CNS systemic embolism included emboli in peripheral arterial of the upper and lower extremities, ocular and retinal (pulmonary embolism and MI were excluded from the category). MI was assessed based on either cardiac biomarkers, new abnormal Q waves appeared on electrocardiogram for  $\geq 2$  leads, or autopsy confirmation. Cardiovascular death included death in subjects with non-valvular atrial fibrillation (AF). Number of subjects with composite events were reported.

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

End point timeframe:

From randomization to the date of last dose of study drug +2 days for subjects who completed planned treatment or the earlier date [last planned dose, follow-up visit at the end of 30-day follow-up period] for subjects who prematurely stopped treatment

| End point values            | Rivaroxaban (Xarelto; BAY59-7939) | Vitamin K antagonist (VKA) |  |  |
|-----------------------------|-----------------------------------|----------------------------|--|--|
| Subject group type          | Reporting group                   | Reporting group            |  |  |
| Number of subjects analysed | 978 <sup>[1]</sup>                | 492 <sup>[2]</sup>         |  |  |
| Units: subjects             | 5                                 | 5                          |  |  |

Notes:

[1] - The primary population for the efficacy analysis was the mITT population.

[2] - The primary population for the efficacy analysis was the mITT population.

**Statistical analyses**

|                            |                        |
|----------------------------|------------------------|
| Statistical analysis title | Statistical analysis 1 |
|----------------------------|------------------------|

Statistical analysis description:

No statistical test performed; Descriptive comparison of crude estimates of the cumulative incidence and estimation of risk ratio, all with 95% confidence intervals.

|   |  |
|---|--|
| Comparison groups                       | Rivaroxaban (Xarelto; BAY59-7939) v Vitamin K antagonist (VKA) |
| Number of subjects included in analysis | 1470   |
| Analysis specification                  | Pre-specified  |
| Analysis type                           | other <sup>[3]</sup>   |
| Parameter estimate                      | Risk ratio (RR)  |
| Point estimate                          | 0.5  |
| Confidence interval                     |  |
| level                                   | 95 %   |
| sides                                   | 2-sided  |
| lower limit                             | 0.15   |
| upper limit                             | 1.73   |

Notes:

[3] - Crude estimate of the cumulative incidence for rivaroxaban (Xarelto, BAY59-7939): 0.51% (0.20% - 1.17%). Crude estimate of the cumulative incidence for Vitamin K antagonist (VKA): 1.02% (0.40% - 2.34%).

**Primary: Number of Subjects with Major Bleedings as per Central Adjudication**

|                 |   |
|-----------------|---|
| End point title | Number of Subjects with Major Bleedings as per Central Adjudication |
|-----------------|---|

End point description:

Bleeding events were adjudicated and confirmed by CEC blinded to treatment. The CEC categorized the bleeding events as major or non-major. The bleeding events were defined per the International Society on Thrombosis and Hemostasis (ISTH) criteria. Major bleeding was clinically overt bleeding associated with a fall in hemoglobin of 2 gram per deciliter (g/dL) or higher, leading to a transfusion of 2 or more units of packed red blood cells or whole blood, occurring in a critical site or contributing to death. Number of subjects with confirmed adjudicated bleeding events occurring in greater than (>)1 total subjects were reported.

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

End point timeframe:

From randomization up to the date of the last dose of study drug + 2 days

|                             |                                   |                            |  |  |
|-----------------------------|-----------------------------------|----------------------------|--|--|
| <b>End point values</b>     | Rivaroxaban (Xarelto; BAY59-7939) | Vitamin K antagonist (VKA) |  |  |
| Subject group type          | Reporting group                   | Reporting group            |  |  |
| Number of subjects analysed | 988 <sup>[4]</sup>                | 499 <sup>[5]</sup>         |  |  |
| Units: subjects             | 6                                 | 4                          |  |  |

Notes:

[4] - SAF population included all randomized subjects who received at least 1 dose of study medication.

[5] - SAF population included all randomized subjects who received at least 1 dose of study medication.

**Statistical analyses**

|                                   |                        |
|-----------------------------------|------------------------|
| <b>Statistical analysis title</b> | Statistical analysis 1 |
|-----------------------------------|------------------------|

Statistical analysis description:

No test performed; Descriptive comparison of crude estimates of the cumulative incidence and estimation of risk ratio, all with 95% confidence intervals

|   |  |
|---|--|
| Comparison groups                       | Rivaroxaban (Xarelto; BAY59-7939) v Vitamin K antagonist (VKA) |
| Number of subjects included in analysis | 1487   |
| Analysis specification                  | Pre-specified  |
| Analysis type                           | other <sup>[6]</sup>   |
| Parameter estimate                      | Risk ratio (RR)  |
| Point estimate                          | 0.76   |
| Confidence interval                     |  |
| level                                   | 95 %   |
| sides                                   | 2-sided  |
| lower limit                             | 0.21   |
| upper limit                             | 2.67   |

Notes:

[6] - Crude estimate of the cumulative incidence for rivaroxaban (Xarelto, BAY59-7939): 0.61% (0.26% - 1.27%). Crude estimate of the cumulative incidence for Vitamin K antagonist (VKA): 0.80% (0.27% - 2.00%).

**Secondary: Number of Subjects with Composite of Strokes and Non-central Nervous System Systemic Embolisms**

|                 |  |
|-----------------|--|
| End point title | Number of Subjects with Composite of Strokes and Non-central Nervous System Systemic Embolisms |
|-----------------|--|

**End point description:**

Stroke and Non-CNS Embolism were adjudicated and confirmed by CEC. Stroke included hemorrhagic and ischemic infarction. Non CNS systemic embolism included emboli in peripheral arterial of the upper and lower extremities, ocular and retinal (pulmonary embolism and MI were excluded from the category). Number of subjects with composite events were reported.

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

**End point timeframe:**

From randomization to the date of last dose of study drug +2 days for subjects who completed planned treatment or the earlier date [last planned dose, follow-up visit at the end of 30-day follow-up period] for subjects who prematurely stopped treatment

| End point values            | Rivaroxaban (Xarelto; BAY59-7939) | Vitamin K antagonist (VKA) |  |  |
|-----------------------------|-----------------------------------|----------------------------|--|--|
| Subject group type          | Reporting group                   | Reporting group            |  |  |
| Number of subjects analysed | 978 <sup>[7]</sup>                | 492 <sup>[8]</sup>         |  |  |
| Units: subjects             | 2                                 | 3                          |  |  |

**Notes:**

[7] - The primary population for the efficacy analysis was the mITT population.

[8] - The primary population for the efficacy analysis was the mITT population.

**Statistical analyses**

|                                   |                        |
|-----------------------------------|------------------------|
| <b>Statistical analysis title</b> | Statistical analysis 1 |
|-----------------------------------|------------------------|

**Statistical analysis description:**

No statistical test performed; Descriptive comparison of crude estimates of the cumulative incidence and estimation of risk ratio, all with 95% confidence intervals.

|   |  |
|---|--|
| Comparison groups                       | Rivaroxaban (Xarelto; BAY59-7939) v Vitamin K antagonist (VKA) |
| Number of subjects included in analysis | 1470   |
| Analysis specification                  | Pre-specified  |
| Analysis type                           | other <sup>[9]</sup>   |
| Parameter estimate                      | Risk ratio (RR)  |
| Point estimate                          | 0.34   |
| Confidence interval                     |  |
| level                                   | 95 %   |
| sides                                   | 2-sided  |
| lower limit                             | 0.06   |
| upper limit                             | 2  |

**Notes:**

[9] - Crude estimate of the cumulative incidence for rivaroxaban (Xarelto, BAY59-7939): 0.20% (0.04% - 0.71%). Crude estimate of the cumulative incidence for Vitamin K antagonist (VKA): 0.61% (0.17% - 1.72%).

### **Secondary: Number of subjects with Composite of Strokes, Transient Ischemic Attacks, Non-central Nervous System Systemic Embolisms, Myocardial Infarctions and All-cause Mortality**

|                 |   |
|-----------------|---|
| End point title | Number of subjects with Composite of Strokes, Transient Ischemic Attacks, Non-central Nervous System Systemic Embolisms, Myocardial Infarctions and All-cause Mortality |
|-----------------|---|

**End point description:**

Stroke, TIA, Non- CNS systemic embolism, MI and all-cause mortality were adjudicated and confirmed by CEC. Stroke included hemorrhagic and ischemic infarction. TIA including information if with or without matching lesion. Non CNS systemic embolism included emboli in peripheral arterial of the upper and lower extremities, ocular and retinal (pulmonary embolism and MI were excluded from the

category). MI was assessed based on either cardiac biomarkers, new abnormal Q waves appeared on electrocardiogram for  $\geq 2$  leads, or autopsy confirmation. All-cause mortality included vascular death and non-vascular death. Number of subjects with composite events were reported.

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

End point timeframe:

From randomization to the date of last dose of study drug +2 days for subjects who completed planned treatment or the earlier date [last planned dose, follow-up visit at the end of 30-day follow-up period] for subjects who prematurely stopped treatment

| End point values            | Rivaroxaban (Xarelto; BAY59-7939) | Vitamin K antagonist (VKA) |  |  |
|-----------------------------|-----------------------------------|----------------------------|--|--|
| Subject group type          | Reporting group                   | Reporting group            |  |  |
| Number of subjects analysed | 978 <sup>[10]</sup>               | 492 <sup>[11]</sup>        |  |  |
| Units: subjects             | 6                                 | 6                          |  |  |

Notes:

[10] - The primary population for the efficacy analysis was the mITT population.

[11] - The primary population for the efficacy analysis was the mITT population.

## Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|----------------------------|------------------------|
|----------------------------|------------------------|

Statistical analysis description:

No statistical test performed; Descriptive comparison of crude estimates of the cumulative incidence and estimation of risk ratio, all with 95% confidence intervals

|   |  |
|---|--|
| Comparison groups                       | Rivaroxaban (Xarelto; BAY59-7939) v Vitamin K antagonist (VKA) |
| Number of subjects included in analysis | 1470   |
| Analysis specification                  | Pre-specified  |
| Analysis type                           | other <sup>[12]</sup>  |
| Parameter estimate                      | Risk ratio (RR)  |
| Point estimate                          | 0.5  |
| Confidence interval                     |  |
| level                                   | 95 %   |
| sides                                   | 2-sided  |
| lower limit                             | 0.16   |
| upper limit                             | 1.55   |

Notes:

[12] - Crude estimate of the cumulative incidence for rivaroxaban (Xarelto, BAY59-7939): 0.61% (0.27% - 1.29%). Crude estimate of the cumulative incidence for Vitamin K antagonist (VKA): 1.22% (0.53% - 2.51%).

## Secondary: Number of subjects with Strokes

|                 |                                 |
|-----------------|---------------------------------|
| End point title | Number of subjects with Strokes |
|-----------------|---------------------------------|

End point description:

All events were adjudicated and confirmed by a CEC blinded to treatment. Stroke included hemorrhagic (Stroke with local collections of intraparenchymal blood. Subarachnoid hemorrhage, subdural hemorrhage, and epidural hemorrhage were excluded), ischemic infarction (Stroke without focal collection of intracranial blood) and unknown (No imaging data and anatomic findings were available). Number of subjects with strokes were reported.

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

End point timeframe:

From randomization to the date of last dose of study drug +2 days for subjects who completed planned treatment or the earlier date [last planned dose, follow-up visit at the end of 30-day follow-up period]

| End point values            | Rivaroxaban<br>(Xarelto;<br>BAY59-7939) | Vitamin K<br>antagonist<br>(VKA) |  |  |
|-----------------------------|---|----------------------------------|--|--|
| Subject group type          | Reporting group                         | Reporting group                  |  |  |
| Number of subjects analysed | 978 <sup>[13]</sup>                     | 492 <sup>[14]</sup>              |  |  |
| Units: subjects             | 2                                       | 2                                |  |  |

Notes:

[13] - The primary population for the efficacy analysis was the mITT population.

[14] - The primary population for the efficacy analysis was the mITT population.

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of subjects with Transient Ischemic Attacks

|                 |  |
|-----------------|--|
| End point title | Number of subjects with Transient Ischemic Attacks |
|-----------------|--|

End point description:

All events were adjudicated and confirmed by a CEC blinded to treatment. Number of subjects with TIA were reported.

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

End point timeframe:

From randomization to the date of last dose of study drug +2 days for subjects who completed planned treatment or the earlier date [last planned dose, follow-up visit at the end of 30-day follow-up period] for subjects who prematurely stopped treatment

| End point values            | Rivaroxaban<br>(Xarelto;<br>BAY59-7939) | Vitamin K<br>antagonist<br>(VKA) |  |  |
|-----------------------------|---|----------------------------------|--|--|
| Subject group type          | Reporting group                         | Reporting group                  |  |  |
| Number of subjects analysed | 978 <sup>[15]</sup>                     | 492 <sup>[16]</sup>              |  |  |
| Units: subjects             | 0                                       | 0                                |  |  |

Notes:

[15] - The primary population for the efficacy analysis was the mITT population.

[16] - The primary population for the efficacy analysis was the mITT population.

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of subjects with Non-Central Nervous System Systemic Embolisms

|                 |   |
|-----------------|---|
| End point title | Number of subjects with Non-Central Nervous System Systemic Embolisms |
|-----------------|---|

End point description:

All events were adjudicated and confirmed by a CEC blinded to treatment. Non CNS systemic embolism included emboli in peripheral arterial of the upper and lower extremities, ocular and retinal (pulmonary embolism and MI were excluded from the category). Number of subjects with non-CNS embolism were reported.

|  |           |
|--|-----------|
| End point type   | Secondary |
| End point timeframe:   |           |
| From randomization to the date of last dose of study drug +2 days for subjects who completed planned treatment or the earlier date [last planned dose, follow-up visit at the end of 30-day follow-up period] for subjects who prematurely stopped treatment |           |

|                             |                                   |                            |  |  |
|-----------------------------|-----------------------------------|----------------------------|--|--|
| <b>End point values</b>     | Rivaroxaban (Xarelto; BAY59-7939) | Vitamin K antagonist (VKA) |  |  |
| Subject group type          | Reporting group                   | Reporting group            |  |  |
| Number of subjects analysed | 978 <sup>[17]</sup>               | 492 <sup>[18]</sup>        |  |  |
| Units: subjects             | 0                                 | 1                          |  |  |

Notes:

[17] - The primary population for the efficacy analysis was the mITT population.

[18] - The primary population for the efficacy analysis was the mITT population.

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of subjects with Myocardial Infarctions

|  |  |
|--|--|
| End point title  | Number of subjects with Myocardial Infarctions |
| End point description:   |  |
| All events were adjudicated and confirmed by a CEC blinded to treatment. MI was assessed based on either cardiac biomarkers, new abnormal Q waves appeared on electrocardiogram for >= 2 leads, or autopsy confirmation. Number of subjects with MI were reported. |  |
| End point type   | Secondary                                      |
| End point timeframe:   |  |
| From randomization to the date of last dose of study drug +2 days for subjects who completed planned treatment or the earlier date [last planned dose, follow-up visit at the end of 30-day follow-up period] for subjects who prematurely stopped treatment       |  |

|                             |                                   |                            |  |  |
|-----------------------------|-----------------------------------|----------------------------|--|--|
| <b>End point values</b>     | Rivaroxaban (Xarelto; BAY59-7939) | Vitamin K antagonist (VKA) |  |  |
| Subject group type          | Reporting group                   | Reporting group            |  |  |
| Number of subjects analysed | 978 <sup>[19]</sup>               | 492 <sup>[20]</sup>        |  |  |
| Units: subjects             | 1                                 | 1                          |  |  |

Notes:

[19] - The primary population for the efficacy analysis was the mITT population.

[20] - The primary population for the efficacy analysis was the mITT population.

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of subjects with Cardiovascular Deaths

|                 |   |  |  |  |
|-----------------|---|--|--|--|
| End point title | Number of subjects with Cardiovascular Deaths |  |  |  |
|-----------------|---|--|--|--|

**End point description:**

All events were adjudicated and confirmed by a CEC blinded to treatment. Any death that was not clearly non-vascular (e.g., deaths due to spontaneous bleeding, myocardial infarction, stroke, cardiac failure, and arrhythmia). Number of subjects with cardiovascular deaths were reported.

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

**End point timeframe:**

From randomization to the date of last dose of study drug +2 days for subjects who completed planned treatment or the earlier date [last planned dose, follow-up visit at the end of 30-day follow-up period] for subjects who prematurely stopped treatment

| End point values            | Rivaroxaban (Xarelto; BAY59-7939) | Vitamin K antagonist (VKA) |  |  |
|-----------------------------|-----------------------------------|----------------------------|--|--|
| Subject group type          | Reporting group                   | Reporting group            |  |  |
| Number of subjects analysed | 978 <sup>[21]</sup>               | 492 <sup>[22]</sup>        |  |  |
| Units: subjects             | 4                                 | 2                          |  |  |

**Notes:**

[21] - The primary population for the efficacy analysis was the mITT population.

[22] - The primary population for the efficacy analysis was the mITT population.

**Statistical analyses**

|                                   |                        |
|-----------------------------------|------------------------|
| <b>Statistical analysis title</b> | Statistical analysis 1 |
|-----------------------------------|------------------------|

**Statistical analysis description:**

No statistical test performed; Descriptive comparison of crude estimates of the cumulative incidence and estimation of risk ratio, all with 95% confidence intervals.

|   |  |
|---|--|
| Comparison groups                       | Rivaroxaban (Xarelto; BAY59-7939) v Vitamin K antagonist (VKA) |
| Number of subjects included in analysis | 1470   |
| Analysis specification                  | Pre-specified  |
| Analysis type                           | other <sup>[23]</sup>  |
| Parameter estimate                      | Risk ratio (RR)  |
| Point estimate                          | 1.01   |
| Confidence interval                     |  |
| level                                   | 95 %   |
| sides                                   | 2-sided  |
| lower limit                             | 0.18   |
| upper limit                             | 5.47   |

**Notes:**

[23] - Crude estimate of the cumulative incidence for rivaroxaban (Xarelto, BAY59-7939): 0.41% (0.14% - 1.02%). Crude estimate of the cumulative incidence for Vitamin K antagonist (VKA): 0.41% (0.07% - 1.41%).

**Secondary: Number of subjects with All-cause Mortality**

|                 |   |
|-----------------|---|
| End point title | Number of subjects with All-cause Mortality |
|-----------------|---|

**End point description:**

All events were adjudicated and confirmed by a CEC blinded to treatment. All-cause mortality included vascular death and non-vascular death. Number of subjects with all-cause mortality were reported.

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

**End point timeframe:**

From randomization to the date of last dose of study drug +2 days for subjects who completed planned treatment or the earlier date [last planned dose, follow-up visit at the end of 30-day follow-up period] for subjects who prematurely stopped treatment



| <b>End point values</b>     | Rivaroxaban<br>(Xarelto;<br>BAY59-7939) | Vitamin K<br>antagonist<br>(VKA) |  |  |
|-----------------------------|---|----------------------------------|--|--|
| Subject group type          | Reporting group                         | Reporting group                  |  |  |
| Number of subjects analysed | 978 <sup>[24]</sup>                     | 492 <sup>[25]</sup>              |  |  |
| Units: subjects             | 5                                       | 3                                |  |  |

Notes:

[24] - The primary population for the efficacy analysis was the mITT population.

[25] - The primary population for the efficacy analysis was the mITT population.

## Statistical analyses

| <b>Statistical analysis title</b> | Statistical analysis 1 |
|-----------------------------------|------------------------|
|-----------------------------------|------------------------|

Statistical analysis description:

No statistical test performed; Descriptive comparison of crude estimates of the cumulative incidence and estimation of risk ratio, all with 95% confidence intervals.

|   |  |
|---|--|
| Comparison groups                       | Rivaroxaban (Xarelto; BAY59-7939) v Vitamin K antagonist (VKA) |
| Number of subjects included in analysis | 1470   |
| Analysis specification                  | Pre-specified  |
| Analysis type                           | other <sup>[26]</sup>  |
| Parameter estimate                      | Risk ratio (RR)  |
| Point estimate                          | 0.84   |
| Confidence interval                     |  |
| level                                   | 95 %   |
| sides                                   | 2-sided  |
| lower limit                             | 0.2  |
| upper limit                             | 3.49   |

Notes:

[26] - Crude estimate of the cumulative incidence for rivaroxaban (Xarelto, BAY59-7939): 0.51% (0.20% - 1.17%). Crude estimate of the cumulative incidence for Vitamin K antagonist (VKA): 0.61% (0.17% - 1.72%).

## Secondary: Number of subjects with Composite of Major and Non-major Bleeding Events

|                 |  |
|-----------------|--|
| End point title | Number of subjects with Composite of Major and Non-major Bleeding Events |
|-----------------|--|

End point description:

All events were adjudicated and confirmed by a CEC blinded to treatment. The CEC categorized the bleeding events as major or non-major. The bleeding events were defined per the ISTH criteria. Clinically relevant bleeding included major bleeding (overt bleeding associated with 2 g/dL or greater fall in hemoglobin, leading to a transfusion of 2 or more units of packed red blood cells or whole blood, occurring in a critical site or contributing to death) and non-major bleeding associated with medical intervention, unscheduled physician contact, (temporary) cessation of study treatment, discomfort for the participants such as pain, or impairment of activities of daily life. Number of subjects with clinically relevant major and non-major bleeding events were reported.

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

End point timeframe:

From randomization up to the date of the last dose of study drug + 2 days

| <b>End point values</b>     | Rivaroxaban<br>(Xarelto;<br>BAY59-7939) | Vitamin K<br>antagonist<br>(VKA) |  |  |
|-----------------------------|---|----------------------------------|--|--|
| Subject group type          | Reporting group                         | Reporting group                  |  |  |
| Number of subjects analysed | 988 <sup>[27]</sup>                     | 499 <sup>[28]</sup>              |  |  |
| Units: subjects             | 33                                      | 14                               |  |  |

Notes:

[27] - SAF population included all randomized subjects who received at least 1 dose of study medication.

[28] - SAF population included all randomized subjects who received at least 1 dose of study medication.

## Statistical analyses

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No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

From first administration of study drug to date of last study drug + 2 days

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

### Dictionary used

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

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

### Reporting groups

|                       |                            |
|-----------------------|----------------------------|
| Reporting group title | Vitamin K Antagonist (VKA) |
|-----------------------|----------------------------|

Reporting group description:

Subjects assigned to treatment with VKA received VKA orally once daily titrated to a target INR of 2.5 (range 2.0-3.0, inclusive). The specific VKA was assigned by the investigator according to the local standard of practice. For subjects randomized to receive VKA, the investigator assessed if a parenteral anticoagulant drug, particularly prior to cardioversion, was needed as bridging therapy with VKA as standard of care (until target INR was achieved). The duration depended on the cardioversion strategy. For subjects in the Direct Cardioversion Strategy, the cardioversion procedure was performed within 1-5 days after randomization. VKA was given for 1-5 days before cardioversion and for 42 days thereafter. Subjects in the Delayed Cardioversion Strategy received VKA for 21 (+4) to 56 (+4) days before cardioversion and for 42 days thereafter.

|                       |                                   |
|-----------------------|-----------------------------------|
| Reporting group title | Rivaroxaban (Xarelto; BAY59-7939) |
|-----------------------|-----------------------------------|

Reporting group description:

Subjects randomized to treatment with rivaroxaban received rivaroxaban 20 milligram (mg) orally... more once daily. Subjects with moderate renal impairment [i.e., Creatinine clearance (CrCl) of 30 to 49 milliliter per minute (mL/min), inclusive] at screening received the adjusted dose of 15 mg once daily. The duration of the treatment period for a given subject depended on the cardioversion strategy. For subjects in the Direct Cardioversion Strategy, the cardioversion procedure was performed within 1-5 days after randomization. Rivaroxaban was given for 1-5 days before planned direct cardioversion and for 42 days thereafter. Subjects in the Delayed Cardioversion Strategy received rivaroxaban for 21 (+4) to 56 (+4) days prior to cardioversion and for 42 days thereafter.

| Serious adverse events  | Vitamin K Antagonist (VKA) | Rivaroxaban (Xarelto; BAY59-7939) |  |
|---|----------------------------|-----------------------------------|--|
| Total subjects affected by serious adverse events                   |                            |                                   |  |
| subjects affected / exposed   | 38 / 499 (7.62%)           | 93 / 988 (9.41%)                  |  |
| number of deaths (all causes)                                       | 3                          | 8                                 |  |
| number of deaths resulting from adverse events                      |                            |                                   |  |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) |                            |                                   |  |
| Bladder neoplasm  |                            |                                   |  |
| subjects affected / exposed   | 0 / 499 (0.00%)            | 1 / 988 (0.10%)                   |  |
| occurrences causally related to treatment / all                     | 0 / 0                      | 0 / 1                             |  |
| deaths causally related to treatment / all                          | 0 / 0                      | 0 / 0                             |  |
| Malignant pleural effusion  |                            |                                   |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Lung neoplasm malignant                         |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 1           |  |
| Vascular disorders                              |                 |                 |  |
| Hypotension                                     |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 2 / 988 (0.20%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 2           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Surgical and medical procedures                 |                 |                 |  |
| Bladder catheterisation                         |                 |                 |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 0 / 988 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Cardiac ablation                                |                 |                 |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 3 / 988 (0.30%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 3           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Implantable defibrillator insertion             |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Plastic surgery                                 |                 |                 |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 0 / 988 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Shoulder arthroplasty                           |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| General disorders and administration            |                 |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| site conditions                                 |                 |                 |  |
| Chest discomfort                                |                 |                 |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Chest pain                                      |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 5 / 988 (0.51%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 6           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Medical device site reaction                    |                 |                 |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 0 / 988 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Non-cardiac chest pain                          |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Reproductive system and breast disorders        |                 |                 |  |
| Vaginal haemorrhage                             |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Respiratory, thoracic and mediastinal disorders |                 |                 |  |
| Acute pulmonary oedema                          |                 |                 |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 0 / 988 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Asthma  |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Dyspnoea  |                 |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 1 / 499 (0.20%) | 4 / 988 (0.40%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 4           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Pulmonary alveolar haemorrhage                  |                 |                 |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 0 / 988 (0.00%) |  |
| occurrences causally related to treatment / all | 1 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Pulmonary congestion                            |                 |                 |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 0 / 988 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Pulmonary fibrosis                              |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 1           |  |
| Pulmonary hypertension                          |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Pulmonary oedema                                |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Respiratory disorder                            |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Sleep apnoea syndrome                           |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| 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                           | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all       | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all            | 0 / 0           | 0 / 0           |  |
| <b>Investigations</b>                                 |                 |                 |  |
| Arteriogram coronary                                  |                 |                 |  |
| subjects affected / exposed                           | 1 / 499 (0.20%) | 0 / 988 (0.00%) |  |
| occurrences causally related to treatment / all       | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all            | 0 / 0           | 0 / 0           |  |
| Electrocardiogram PR prolongation                     |                 |                 |  |
| subjects affected / exposed                           | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all       | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all            | 0 / 0           | 0 / 0           |  |
| Electrocardiogram T wave abnormal                     |                 |                 |  |
| subjects affected / exposed                           | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all       | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all            | 0 / 0           | 0 / 0           |  |
| Liver function test abnormal                          |                 |                 |  |
| subjects affected / exposed                           | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all       | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all            | 0 / 0           | 0 / 0           |  |
| <b>Injury, poisoning and procedural complications</b> |                 |                 |  |
| Subdural haematoma                                    |                 |                 |  |
| subjects affected / exposed                           | 1 / 499 (0.20%) | 0 / 988 (0.00%) |  |
| occurrences causally related to treatment / all       | 1 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all            | 0 / 0           | 0 / 0           |  |
| Wound haemorrhage                                     |                 |                 |  |
| subjects affected / exposed                           | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all       | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all            | 0 / 0           | 0 / 0           |  |
| <b>Cardiac disorders</b>                              |                 |                 |  |
| Angina pectoris                                       |                 |                 |  |
| subjects affected / exposed                           | 0 / 499 (0.00%) | 2 / 988 (0.20%) |  |
| occurrences causally related to treatment / all       | 0 / 0           | 0 / 2           |  |
| deaths causally related to treatment / all            | 0 / 0           | 0 / 0           |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| Acute myocardial infarction                     |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 1           |  |
| Arrhythmia supraventricular                     |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Atrial fibrillation                             |                 |                 |  |
| subjects affected / exposed                     | 4 / 499 (0.80%) | 8 / 988 (0.81%) |  |
| occurrences causally related to treatment / all | 0 / 4           | 0 / 10          |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Atrial flutter                                  |                 |                 |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 4 / 988 (0.40%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 4           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Atrial tachycardia                              |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Bradyarrhythmia                                 |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Atrial thrombosis                               |                 |                 |  |
| subjects affected / exposed                     | 3 / 499 (0.60%) | 4 / 988 (0.40%) |  |
| occurrences causally related to treatment / all | 0 / 3           | 0 / 4           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Bradycardia                                     |                 |                 |  |
| subjects affected / exposed                     | 3 / 499 (0.60%) | 3 / 988 (0.30%) |  |
| occurrences causally related to treatment / all | 0 / 3           | 0 / 3           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Cardiac arrest                                  |                 |                 |  |



|   |                 |                  |  |
|---|-----------------|------------------|--|
| subjects affected / exposed                     | 0 / 499 (0.00%) | 3 / 988 (0.30%)  |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 3            |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 1            |  |
| Cardiac failure                                 |                 |                  |  |
| subjects affected / exposed                     | 2 / 499 (0.40%) | 8 / 988 (0.81%)  |  |
| occurrences causally related to treatment / all | 0 / 2           | 0 / 8            |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 1            |  |
| Cardiac failure acute                           |                 |                  |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%)  |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1            |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0            |  |
| Cardiac failure chronic                         |                 |                  |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%)  |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1            |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0            |  |
| Cardiac failure congestive                      |                 |                  |  |
| subjects affected / exposed                     | 2 / 499 (0.40%) | 10 / 988 (1.01%) |  |
| occurrences causally related to treatment / all | 0 / 2           | 0 / 10           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0            |  |
| Cardiogenic shock                               |                 |                  |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 0 / 988 (0.00%)  |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0            |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0            |  |
| Cardiomyopathy                                  |                 |                  |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 0 / 988 (0.00%)  |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0            |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0            |  |
| Coronary artery disease                         |                 |                  |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 0 / 988 (0.00%)  |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0            |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0            |  |
| Intracardiac thrombus                           |                 |                  |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| 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                     | 0 / 499 (0.00%) | 3 / 988 (0.30%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 3           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Pericardial effusion                            |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Rhythm idioventricular                          |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Sick sinus syndrome                             |                 |                 |  |
| subjects affected / exposed                     | 2 / 499 (0.40%) | 0 / 988 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 2           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Sinus bradycardia                               |                 |                 |  |
| subjects affected / exposed                     | 2 / 499 (0.40%) | 0 / 988 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 2           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Tachycardia induced cardiomyopathy              |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Ventricular arrhythmia                          |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| 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 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| <b>Nervous system disorders</b>                 |                 |                 |  |
| Carotid artery stenosis                         |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Dizziness                                       |                 |                 |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 0 / 988 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Haemorrhage intracranial                        |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 1 / 1           |  |
| Presyncope                                      |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 2           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Syncope   |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 2 / 988 (0.20%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 2           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Thalamus haemorrhage                            |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| <b>Blood and lymphatic system disorders</b>     |                 |                 |  |
| Anaemia   |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| <b>Eye disorders</b>                            |                 |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| Blindness transient                             |                 |                 |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 0 / 988 (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 pain                                  |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 4 / 988 (0.40%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 4           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Constipation                                    |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Diarrhoea                                       |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Gastrointestinal haemorrhage                    |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Haematochezia                                   |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Lower gastrointestinal haemorrhage              |                 |                 |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 1 / 1           | 1 / 1           |  |
| deaths causally related to treatment / all      | 1 / 1           | 0 / 0           |  |
| Nausea  |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 2 / 988 (0.20%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 2           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Oesophagitis                                    |                 |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 1 / 499 (0.20%) | 0 / 988 (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 / 499 (0.00%) | 2 / 988 (0.20%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 2 / 2           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Upper gastrointestinal haemorrhage              |                 |                 |  |
| subjects affected / exposed                     | 2 / 499 (0.40%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 2 / 2           | 1 / 1           |  |
| deaths causally related to treatment / all      | 1 / 1           | 0 / 0           |  |
| Vomiting  |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Renal and urinary disorders                     |                 |                 |  |
| Haematuria                                      |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Renal failure acute                             |                 |                 |  |
| subjects affected / exposed                     | 2 / 499 (0.40%) | 0 / 988 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 2           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Urogenital haemorrhage                          |                 |                 |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 0 / 988 (0.00%) |  |
| occurrences causally related to treatment / all | 1 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Musculoskeletal and connective tissue disorders |                 |                 |  |
| Arthritis reactive                              |                 |                 |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 0 / 988 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| Back pain                                       |                 |                 |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 0 / 988 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Infections and infestations                     |                 |                 |  |
| Bronchitis                                      |                 |                 |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Bronchitis viral                                |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Diverticulitis                                  |                 |                 |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 0 / 988 (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                     | 1 / 499 (0.20%) | 2 / 988 (0.20%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 2           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Gastroenteritis                                 |                 |                 |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 0 / 988 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Pharyngitis                                     |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Pneumonia                                       |                 |                 |  |
| subjects affected / exposed                     | 3 / 499 (0.60%) | 2 / 988 (0.20%) |  |
| occurrences causally related to treatment / all | 0 / 3           | 0 / 2           |  |
| deaths causally related to treatment / all      | 0 / 1           | 0 / 0           |  |
| Pseudomembranous colitis                        |                 |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Urinary tract infection                         |                 |                 |  |
| subjects affected / exposed                     | 1 / 499 (0.20%) | 0 / 988 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Metabolism and nutrition disorders              |                 |                 |  |
| Hyponatraemia                                   |                 |                 |  |
| subjects affected / exposed                     | 0 / 499 (0.00%) | 1 / 988 (0.10%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |

Frequency threshold for reporting non-serious adverse events: 1 %

| <b>Non-serious adverse events</b>                     | Vitamin K Antagonist (VKA) | Rivaroxaban (Xarelto; BAY59-7939) |  |
|---|----------------------------|-----------------------------------|--|
| Total subjects affected by non-serious adverse events |                            |                                   |  |
| subjects affected / exposed                           | 126 / 499 (25.25%)         | 272 / 988 (27.53%)                |  |
| Investigations  |                            |                                   |  |
| International normalised ratio increased              |                            |                                   |  |
| subjects affected / exposed                           | 9 / 499 (1.80%)            | 1 / 988 (0.10%)                   |  |
| occurrences (all)                                     | 10                         | 1                                 |  |
| Injury, poisoning and procedural complications        |                            |                                   |  |
| Contusion   |                            |                                   |  |
| subjects affected / exposed                           | 5 / 499 (1.00%)            | 3 / 988 (0.30%)                   |  |
| occurrences (all)                                     | 5                          | 5                                 |  |
| Vascular disorders                                    |                            |                                   |  |
| Hypertension  |                            |                                   |  |
| subjects affected / exposed                           | 4 / 499 (0.80%)            | 22 / 988 (2.23%)                  |  |
| occurrences (all)                                     | 4                          | 22                                |  |
| Cardiac disorders                                     |                            |                                   |  |
| Atrial fibrillation                                   |                            |                                   |  |
| subjects affected / exposed                           | 7 / 499 (1.40%)            | 2 / 988 (0.20%)                   |  |
| occurrences (all)                                     | 7                          | 2                                 |  |
| Atrial thrombosis                                     |                            |                                   |  |

|   |                        |                        |  |
|---|------------------------|------------------------|--|
| subjects affected / exposed<br>occurrences (all)  | 6 / 499 (1.20%)<br>6   | 16 / 988 (1.62%)<br>16 |  |
| Atrioventricular block first degree<br>subjects affected / exposed<br>occurrences (all) | 25 / 499 (5.01%)<br>25 | 40 / 988 (4.05%)<br>40 |  |
| Bradycardia<br>subjects affected / exposed<br>occurrences (all)                         | 13 / 499 (2.61%)<br>15 | 30 / 988 (3.04%)<br>30 |  |
| Sinus bradycardia<br>subjects affected / exposed<br>occurrences (all)                   | 12 / 499 (2.40%)<br>12 | 25 / 988 (2.53%)<br>25 |  |
| Nervous system disorders  |                        |                        |  |
| Dizziness<br>subjects affected / exposed<br>occurrences (all)                           | 9 / 499 (1.80%)<br>9   | 25 / 988 (2.53%)<br>28 |  |
| Headache<br>subjects affected / exposed<br>occurrences (all)                            | 7 / 499 (1.40%)<br>7   | 25 / 988 (2.53%)<br>25 |  |
| General disorders and administration<br>site conditions                                 |                        |                        |  |
| Fatigue<br>subjects affected / exposed<br>occurrences (all)                             | 9 / 499 (1.80%)<br>9   | 14 / 988 (1.42%)<br>15 |  |
| Oedema peripheral<br>subjects affected / exposed<br>occurrences (all)                   | 5 / 499 (1.00%)<br>5   | 20 / 988 (2.02%)<br>20 |  |
| Gastrointestinal disorders  |                        |                        |  |
| Constipation<br>subjects affected / exposed<br>occurrences (all)                        | 3 / 499 (0.60%)<br>3   | 10 / 988 (1.01%)<br>11 |  |
| Diarrhoea<br>subjects affected / exposed<br>occurrences (all)                           | 3 / 499 (0.60%)<br>3   | 18 / 988 (1.82%)<br>18 |  |
| Nausea<br>subjects affected / exposed<br>occurrences (all)                              | 1 / 499 (0.20%)<br>1   | 17 / 988 (1.72%)<br>17 |  |
| Respiratory, thoracic and mediastinal<br>disorders                                      |                        |                        |  |



|  |                        |                        |  |
|--|------------------------|------------------------|--|
| Cough<br>subjects affected / exposed<br>occurrences (all)  | 3 / 499 (0.60%)<br>3   | 13 / 988 (1.32%)<br>13 |  |
| Dyspnoea<br>subjects affected / exposed<br>occurrences (all)                                       | 12 / 499 (2.40%)<br>12 | 16 / 988 (1.62%)<br>18 |  |
| Epistaxis<br>subjects affected / exposed<br>occurrences (all)                                      | 9 / 499 (1.80%)<br>9   | 30 / 988 (3.04%)<br>36 |  |
| Skin and subcutaneous tissue disorders<br>Rash<br>subjects affected / exposed<br>occurrences (all) | 5 / 499 (1.00%)<br>5   | 12 / 988 (1.21%)<br>12 |  |
| Infections and infestations<br>Nasopharyngitis<br>subjects affected / exposed<br>occurrences (all) | 5 / 499 (1.00%)<br>6   | 12 / 988 (1.21%)<br>12 |  |
| Influenza<br>subjects affected / exposed<br>occurrences (all)                                      | 5 / 499 (1.00%)<br>5   | 3 / 988 (0.30%)<br>3   |  |
| Urinary tract infection<br>subjects affected / exposed<br>occurrences (all)                        | 5 / 499 (1.00%)<br>5   | 7 / 988 (0.71%)<br>9   |  |

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? No

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### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported

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### Online references

<http://www.ncbi.nlm.nih.gov/pubmed/25182247>

<http://www.ncbi.nlm.nih.gov/pubmed/24944325>