



## Clinical trial results:

### Magnetic Resonance Imaging Using Ultrasmall Superparamagnetic Particles of Iron Oxide in Patients Under Surveillance for Abdominal Aortic Aneurysms to Predict Rupture or Surgical Repair: the MA3RS Trial

#### Summary

|                          |                  |
|--------------------------|------------------|
| EudraCT number           | 2012-002448-25   |
| Trial protocol           | GB               |
| Global end of trial date | 01 November 2016 |

#### Results information

|                                |              |
|--------------------------------|--------------|
| Result version number          | v1 (current) |
| This version publication date  | 30 May 2019  |
| First version publication date | 30 May 2019  |

#### Trial information

##### Trial identification

|                       |             |
|-----------------------|-------------|
| Sponsor protocol code | MA3RS Trial |
|-----------------------|-------------|

##### Additional study identifiers

|                                    |                |
|------------------------------------|----------------|
| ISRCTN number                      | ISRCTN76413758 |
| ClinicalTrials.gov id (NCT number) | -              |
| WHO universal trial number (UTN)   | -              |

Notes:

#### Sponsors

|                              |  |
|------------------------------|--|
| Sponsor organisation name    | The University of Edinburgh  |
| Sponsor organisation address | Old College, South Bridge, Edinburgh, United Kingdom, EH8 9YL                              |
| Public contact               | Professor David Newby, The University of Edinburgh, +44 0131 242 6515 , d.e.newby@ed.ac.uk |
| Scientific contact           | Professor David Newby, The University of Edinburgh, +44 0131 242 6515 , d.e.newby@ed.ac.uk |
| Sponsor organisation name    | Lothian Health Board   |
| Sponsor organisation address | Waverley Gate, 2-4 Waterloo Place, Edinburgh, United Kingdom, EH1 3EG                      |
| Public contact               | Professor David Newby, The University of Edinburgh, +44 0131 242 6515 , d.e.newby@ed.ac.uk |
| Scientific contact           | Professor David Newby, The University of Edinburgh, +44 0131 242 6515 , d.e.newby@ed.ac.uk |

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                                | No |

Notes:

**Results analysis stage**

|  |                  |
|--|------------------|
| Analysis stage                                       | Final            |
| Date of interim/final analysis                       | 14 March 2017    |
| Is this the analysis of the primary completion data? | Yes              |
| Primary completion date                              | 01 November 2016 |
| Global end of trial reached?                         | Yes              |
| Global end of trial date                             | 01 November 2016 |
| Was the trial ended prematurely?                     | No               |

Notes:

**General information about the trial**

Main objective of the trial:

An abdominal aortic aneurysm is a swelling of the main blood vessel that supplies the organs in the abdomen and the legs. It most commonly occurs just below the kidneys (approximately at the level of the belly button). It is not yet clear why some people develop aneurysms but they are more common in smokers and in men. Abdominal aortic aneurysms are dangerous because they can rupture and if this happens up to 90% of people affected will die. Of those who make it to hospital, they have a less than 50% chance of surviving. At present, we use size, measured by an ultrasound scan, to best predict which abdominal aortic aneurysms are most likely to rupture. The problem with this is that sometimes small abdominal aortic aneurysms rupture and large abdominal aortic aneurysms go on to grow to 10cm without rupturing. This suggests that size is not the only factor to cause abdominal aortic aneurysms to grow and rupture. The principal objective of this study is to use magnetic resonance

Protection of trial subjects:

None

Background therapy: -

Evidence for comparator: -

|   |                 |
|---|-----------------|
| Actual start date of recruitment                          | 01 October 2012 |
| Long term follow-up planned                               | No              |
| Independent data monitoring committee (IDMC) involvement? | No              |

Notes:

**Population of trial subjects****Subjects enrolled per country**

|                                      |                     |
|--------------------------------------|---------------------|
| Country: Number of subjects enrolled | United Kingdom: 342 |
| Worldwide total number of subjects   | 342                 |
| EEA total number of subjects         | 342                 |

Notes:

**Subjects enrolled per age group**

|   |   |
|---|---|
| In utero                                  | 0 |
| Preterm newborn - gestational age < 37 wk | 0 |
| Newborns (0-27 days)                      | 0 |

|  |     |
|--|-----|
| Infants and toddlers (28 days-23 months) | 0   |
| Children (2-11 years)                    | 0   |
| Adolescents (12-17 years)                | 0   |
| Adults (18-64 years)                     | 115 |
| From 65 to 84 years                      | 227 |
| 85 years and over                        | 0   |

## Subject disposition

### Recruitment

Recruitment details:

Recruitment was across 3 sites in Scotland, UK.

Recruitment opened in November 2012 and closed in December 2014.

There was a temporary halt on recruitment between July 2014 and September 2014 after an urgent update to administration guidelines of study drug

### Pre-assignment

Screening details:

Patients were identified from the surveillance service database and eligibility was assessed either at the surveillance ultrasound appointment or over the telephone. Eligibility was confirmed before consent was taken.

### Period 1

|                              |                             |
|------------------------------|-----------------------------|
| Period 1 title               | Baseline (overall period)   |
| Is this the baseline period? | Yes                         |
| Allocation method            | Non-randomised - controlled |
| Blinding used                | Not blinded                 |

### Arms

|           |              |
|-----------|--------------|
| Arm title | All patients |
|-----------|--------------|

Arm description:

All patients recruited

|  |                                 |
|--|---------------------------------|
| Arm type                               | Experimental                    |
| Investigational medicinal product name | Ferumoxytol                     |
| Investigational medicinal product code | NA                              |
| Other name                             | NA                              |
| Pharmaceutical forms                   | Solution for injection/infusion |
| Routes of administration               | Intravenous use                 |

Dosage and administration details:

The single use vials are diluted and administered as an intravenous infusion over 15-30 minutes. The ferumoxytol dose (4.0 mg/kg) is diluted in sterile 0.9% sodium chloride up to a final concentration of 2-8 mg iron per mL.

|                                       |              |
|---------------------------------------|--------------|
| <b>Number of subjects in period 1</b> | All patients |
| Started                               | 342          |
| Completed                             | 342          |

## Baseline characteristics

### Reporting groups

|                       |          |
|-----------------------|----------|
| Reporting group title | Baseline |
|-----------------------|----------|

Reporting group description: -

| Reporting group values   | Baseline             | Total |  |
|--|----------------------|-------|--|
| Number of subjects   | 342                  | 342   |  |
| Age categorical<br>Units: Subjects                               |                      |       |  |
| Age continuous<br>Units: years<br>median<br>full range (min-max) | 74.0<br>53.0 to 91.0 | -     |  |
| Gender categorical<br>Units: Subjects                            |                      |       |  |
| Female   | 50                   | 50    |  |
| Male   | 292                  | 292   |  |
| Smoking Status<br>Units: Subjects                                |                      |       |  |
| Current  | 101                  | 101   |  |
| Ex-smoker  | 195                  | 195   |  |
| Never  | 46                   | 46    |  |
| Alcohol intake<br>Units: Subjects                                |                      |       |  |
| Missing  | 2                    | 2     |  |
| Yes  | 134                  | 134   |  |
| No   | 206                  | 206   |  |
| CIA<br>Units: Subjects   |                      |       |  |
| No   | 276                  | 276   |  |
| Right  | 21                   | 21    |  |
| Left   | 10                   | 10    |  |
| Both   | 35                   | 35    |  |
| Hypertension<br>Units: Subjects                                  |                      |       |  |
| Yes  | 246                  | 246   |  |
| No   | 96                   | 96    |  |
| Diabetes<br>Units: Subjects                                      |                      |       |  |
| Yes  | 47                   | 47    |  |
| No   | 295                  | 295   |  |
| Hypercholesterolaemia<br>Units: Subjects                         |                      |       |  |
| Yes  | 257                  | 257   |  |
| No   | 85                   | 85    |  |
| IHD  |                      |       |  |

|                    |     |     |  |
|--------------------|-----|-----|--|
| Units: Subjects    |     |     |  |
| No                 | 217 | 217 |  |
| Yes                | 125 | 125 |  |
| Angina             |     |     |  |
| Units: Subjects    |     |     |  |
| Yes                | 50  | 50  |  |
| No                 | 292 | 292 |  |
| MI                 |     |     |  |
| Units: Subjects    |     |     |  |
| Yes                | 92  | 92  |  |
| No                 | 250 | 250 |  |
| PCI                |     |     |  |
| Units: Subjects    |     |     |  |
| Yes                | 34  | 34  |  |
| No                 | 308 | 308 |  |
| CABG               |     |     |  |
| Units: Subjects    |     |     |  |
| Yes                | 42  | 42  |  |
| No                 | 300 | 300 |  |
| PVD                |     |     |  |
| Units: Subjects    |     |     |  |
| No                 | 276 | 276 |  |
| Yes                | 66  | 66  |  |
| PVD - Claudication |     |     |  |
| Units: Subjects    |     |     |  |
| Yes                | 62  | 62  |  |
| No                 | 280 | 280 |  |
| PVD - rest pain    |     |     |  |
| Units: Subjects    |     |     |  |
| Yes                | 2   | 2   |  |
| No                 | 340 | 340 |  |
| PVD - tissue loss  |     |     |  |
| Units: Subjects    |     |     |  |
| Yes                | 2   | 2   |  |
| No                 | 340 | 340 |  |
| PVD - angioplasty  |     |     |  |
| Units: Subjects    |     |     |  |
| Yes                | 11  | 11  |  |
| No                 | 331 | 331 |  |
| PVD - bypass       |     |     |  |
| Units: Subjects    |     |     |  |
| Yes                | 8   | 8   |  |
| No                 | 334 | 334 |  |
| CVD                |     |     |  |
| Units: Subjects    |     |     |  |
| No                 | 296 | 296 |  |
| Yes                | 46  | 46  |  |
| CD TIA             |     |     |  |
| Units: Subjects    |     |     |  |
| Yes                | 28  | 28  |  |
| No                 | 314 | 314 |  |

|                       |     |     |  |
|-----------------------|-----|-----|--|
| CD CVA                |     |     |  |
| Units: Subjects       |     |     |  |
| Yes                   | 19  | 19  |  |
| No                    | 323 | 323 |  |
| Family History of AAA |     |     |  |
| Units: Subjects       |     |     |  |
| Yes                   | 61  | 61  |  |
| No                    | 281 | 281 |  |
| ACE-1                 |     |     |  |
| Units: Subjects       |     |     |  |
| Yes                   | 123 | 123 |  |
| No                    | 219 | 219 |  |
| Anticoagulant         |     |     |  |
| Units: Subjects       |     |     |  |
| No                    | 317 | 317 |  |
| Yes                   | 25  | 25  |  |
| Antiplatelet          |     |     |  |
| Units: Subjects       |     |     |  |
| Yes                   | 224 | 224 |  |
| No                    | 118 | 118 |  |
| Beta blocker          |     |     |  |
| Units: Subjects       |     |     |  |
| Yes                   | 120 | 120 |  |
| No                    | 222 | 222 |  |
| Statin                |     |     |  |
| Units: Subjects       |     |     |  |
| No                    | 72  | 72  |  |
| Yes                   | 270 | 270 |  |

### Subject analysis sets

|                            |                  |
|----------------------------|------------------|
| Subject analysis set title | All participants |
| Subject analysis set type  | Full analysis    |

Subject analysis set description:

Consented patients who were non-withdrawn during baseline assessment phase

|                               |                  |  |  |
|-------------------------------|------------------|--|--|
| <b>Reporting group values</b> | All participants |  |  |
| Number of subjects            | 342              |  |  |
| Age categorical               |                  |  |  |
| Units: Subjects               |                  |  |  |

|                      |              |  |  |
|----------------------|--------------|--|--|
| Age continuous       |              |  |  |
| Units: years         |              |  |  |
| median               | 74.0         |  |  |
| full range (min-max) | 53.0 to 91.0 |  |  |
| Gender categorical   |              |  |  |
| Units: Subjects      |              |  |  |
| Female               | 50           |  |  |
| Male                 | 292          |  |  |

|                       |     |  |  |
|-----------------------|-----|--|--|
| Smoking Status        |     |  |  |
| Units: Subjects       |     |  |  |
| Current               | 101 |  |  |
| Ex-smoker             | 195 |  |  |
| Never                 | 46  |  |  |
| Alcohol intake        |     |  |  |
| Units: Subjects       |     |  |  |
| Missing               | 2   |  |  |
| Yes                   | 134 |  |  |
| No                    | 206 |  |  |
| CIA                   |     |  |  |
| Units: Subjects       |     |  |  |
| No                    | 276 |  |  |
| Right                 | 21  |  |  |
| Left                  | 10  |  |  |
| Both                  | 35  |  |  |
| Hypertension          |     |  |  |
| Units: Subjects       |     |  |  |
| Yes                   | 246 |  |  |
| No                    | 96  |  |  |
| Diabetes              |     |  |  |
| Units: Subjects       |     |  |  |
| Yes                   | 47  |  |  |
| No                    | 295 |  |  |
| Hypercholesterolaemia |     |  |  |
| Units: Subjects       |     |  |  |
| Yes                   | 257 |  |  |
| No                    | 85  |  |  |
| IHD                   |     |  |  |
| Units: Subjects       |     |  |  |
| No                    | 217 |  |  |
| Yes                   | 125 |  |  |
| Angina                |     |  |  |
| Units: Subjects       |     |  |  |
| Yes                   | 50  |  |  |
| No                    | 292 |  |  |
| MI                    |     |  |  |
| Units: Subjects       |     |  |  |
| Yes                   | 92  |  |  |
| No                    | 250 |  |  |
| PCI                   |     |  |  |
| Units: Subjects       |     |  |  |
| Yes                   | 34  |  |  |
| No                    | 308 |  |  |
| CABG                  |     |  |  |
| Units: Subjects       |     |  |  |
| Yes                   | 42  |  |  |
| No                    | 300 |  |  |
| PVD                   |     |  |  |
| Units: Subjects       |     |  |  |
| No                    | 276 |  |  |



|  |     |  |  |
|--|-----|--|--|
| Yes                                      | 66  |  |  |
| PVD - Claudication<br>Units: Subjects    |     |  |  |
| Yes                                      | 62  |  |  |
| No                                       | 280 |  |  |
| PVD - rest pain<br>Units: Subjects       |     |  |  |
| Yes                                      | 2   |  |  |
| No                                       | 340 |  |  |
| PVD - tissue loss<br>Units: Subjects     |     |  |  |
| Yes                                      | 2   |  |  |
| No                                       | 340 |  |  |
| PVD - angioplasty<br>Units: Subjects     |     |  |  |
| Yes                                      | 11  |  |  |
| No                                       | 331 |  |  |
| PVD - bypass<br>Units: Subjects          |     |  |  |
| Yes                                      | 8   |  |  |
| No                                       | 334 |  |  |
| CVD<br>Units: Subjects                   |     |  |  |
| No                                       | 296 |  |  |
| Yes                                      | 46  |  |  |
| CD TIA<br>Units: Subjects                |     |  |  |
| Yes                                      | 28  |  |  |
| No                                       | 314 |  |  |
| CD CVA<br>Units: Subjects                |     |  |  |
| Yes                                      | 19  |  |  |
| No                                       | 323 |  |  |
| Family History of AAA<br>Units: Subjects |     |  |  |
| Yes                                      | 61  |  |  |
| No                                       | 281 |  |  |
| ACE-1<br>Units: Subjects                 |     |  |  |
| Yes                                      | 123 |  |  |
| No                                       | 219 |  |  |
| Anticoagulant<br>Units: Subjects         |     |  |  |
| No                                       | 317 |  |  |
| Yes                                      | 25  |  |  |
| Antiplatelet<br>Units: Subjects          |     |  |  |
| Yes                                      | 224 |  |  |
| No                                       | 118 |  |  |
| Beta blocker<br>Units: Subjects          |     |  |  |

|                           |     |  |  |
|---------------------------|-----|--|--|
| Yes                       | 120 |  |  |
| No                        | 222 |  |  |
| Statin<br>Units: Subjects |     |  |  |
| No                        | 72  |  |  |
| Yes                       | 270 |  |  |

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## End points

### End points reporting groups

|  |                  |
|--|------------------|
| Reporting group title  | All patients     |
| Reporting group description:   |                  |
| All patients recruited   |                  |
| Subject analysis set title   | All participants |
| Subject analysis set type  | Full analysis    |
| Subject analysis set description:  |                  |
| Consented patients who were non-withdrawn during baseline assessment phase |                  |

### Primary: AAA Rupture and Repair

|  |                                       |
|--|---------------------------------------|
| End point title  | AAA Rupture and Repair <sup>[1]</sup> |
| End point description:   |                                       |
| Number of days between consent and rupture, where no rupture or repair has occurred participants have been censored at 21st November 2016 or date of death |                                       |
| End point type   | Primary                               |
| End point timeframe:   |                                       |
| Start date - 21st November 2016  |                                       |

Notes:

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

Justification: There was no statistical analyses for this end point

|                             |                      |  |  |  |
|-----------------------------|----------------------|--|--|--|
| End point values            | All participants     |  |  |  |
| Subject group type          | Subject analysis set |  |  |  |
| Number of subjects analysed | 342                  |  |  |  |
| Units: Number of events     | 140                  |  |  |  |

### Statistical analyses

No statistical analyses for this end point

### Primary: AAA Repair

|   |                           |
|---|---------------------------|
| End point title   | AAA Repair <sup>[2]</sup> |
| End point description:  |                           |
| Time to event has been determined by the number of days between consent and repair, where no repair has occurred participants have been censored at 21st November or at date of death |                           |
| End point type  | Primary                   |
| End point timeframe:  |                           |
| Start date - 21st November 2016   |                           |

Notes:

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

Justification: There was no statistical analyses for this primary end point

|                             |                      |  |  |  |
|-----------------------------|----------------------|--|--|--|
| <b>End point values</b>     | All participants     |  |  |  |
| Subject group type          | Subject analysis set |  |  |  |
| Number of subjects analysed |                      |  |  |  |
| Units: Number of events     | 126                  |  |  |  |

## Statistical analyses

No statistical analyses for this end point

### Primary: AAA Rupture

|                 |                            |
|-----------------|----------------------------|
| End point title | AAA Rupture <sup>[3]</sup> |
|-----------------|----------------------------|

End point description:

Time to event has been determined by the number of days between consent and rupture, where no rupture has occurred participants have been censored at 21st November 2016 or date of death

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

End point timeframe:

Start date - 21st November 2016

Notes:

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

Justification: There was no statistical analyses for this primary end point

|                             |                      |  |  |  |
|-----------------------------|----------------------|--|--|--|
| <b>End point values</b>     | All participants     |  |  |  |
| Subject group type          | Subject analysis set |  |  |  |
| Number of subjects analysed |                      |  |  |  |
| Units: Number of events     | 17                   |  |  |  |

## Statistical analyses

No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Date participant signs the consent form to last trial follow-up visit

Adverse event reporting additional description:

Trial nurses asked participants about AEs during follow-up visits and details of all events were recorded on the trial AE logs

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

### Dictionary used

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

|                    |      |
|--------------------|------|
| Dictionary version | 19.1 |
|--------------------|------|

### Reporting groups

|                       |                            |
|-----------------------|----------------------------|
| Reporting group title | All consented participants |
|-----------------------|----------------------------|

Reporting group description:

All participants who have given consent for the trial are included in this group

| Serious adverse events  | All consented participants |  |  |
|---|----------------------------|--|--|
| Total subjects affected by serious adverse events                   |                            |  |  |
| subjects affected / exposed   | 163 / 342 (47.66%)         |  |  |
| number of deaths (all causes)                                       | 48                         |  |  |
| number of deaths resulting from adverse events                      | 33                         |  |  |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) |                            |  |  |
| any neoplasms benign, malignant and unspecified                     |                            |  |  |
| subjects affected / exposed   | 21 / 342 (6.14%)           |  |  |
| occurrences causally related to treatment / all                     | 0 / 22                     |  |  |
| deaths causally related to treatment / all                          | 0 / 8                      |  |  |
| Vascular disorders  |                            |  |  |
| Any vascular disorder   |                            |  |  |
| subjects affected / exposed   | 9 / 342 (2.63%)            |  |  |
| occurrences causally related to treatment / all                     | 0 / 9                      |  |  |
| deaths causally related to treatment / all                          | 0 / 2                      |  |  |
| Surgical and medical procedures                                     |                            |  |  |
| Any surgical and medical procedure                                  |                            |  |  |
| subjects affected / exposed   | 20 / 342 (5.85%)           |  |  |
| occurrences causally related to treatment / all                     | 0 / 20                     |  |  |
| deaths causally related to treatment / all                          | 0 / 0                      |  |  |
| General disorders and administration                                |                            |  |  |

|  |                  |  |  |
|--|------------------|--|--|
| site conditions  |                  |  |  |
| Any general disorders and administration site conditions |                  |  |  |
| subjects affected / exposed                              | 15 / 342 (4.39%) |  |  |
| occurrences causally related to treatment / all          | 0 / 16           |  |  |
| deaths causally related to treatment / all               | 0 / 8            |  |  |
| Reproductive system and breast disorders                 |                  |  |  |
| Any reproductive system and breast disorders             |                  |  |  |
| subjects affected / exposed                              | 3 / 342 (0.88%)  |  |  |
| occurrences causally related to treatment / all          | 0 / 3            |  |  |
| deaths causally related to treatment / all               | 0 / 0            |  |  |
| Respiratory, thoracic and mediastinal disorders          |                  |  |  |
| Any respiratory, thoracic and mediastinal disorder       |                  |  |  |
| subjects affected / exposed                              | 4 / 342 (1.17%)  |  |  |
| occurrences causally related to treatment / all          | 0 / 4            |  |  |
| deaths causally related to treatment / all               | 0 / 0            |  |  |
| Investigations   |                  |  |  |
| Any investigations                                       |                  |  |  |
| subjects affected / exposed                              | 2 / 342 (0.58%)  |  |  |
| occurrences causally related to treatment / all          | 0 / 2            |  |  |
| deaths causally related to treatment / all               | 0 / 0            |  |  |
| Injury, poisoning and procedural complications           |                  |  |  |
| any injury, poisoning and procedural complications       |                  |  |  |
| subjects affected / exposed                              | 10 / 342 (2.92%) |  |  |
| occurrences causally related to treatment / all          | 0 / 10           |  |  |
| deaths causally related to treatment / all               | 0 / 0            |  |  |
| Cardiac disorders  |                  |  |  |
| Any cardiac disorder                                     |                  |  |  |
| subjects affected / exposed                              | 16 / 342 (4.68%) |  |  |
| occurrences causally related to treatment / all          | 0 / 18           |  |  |
| deaths causally related to treatment / all               | 0 / 7            |  |  |
| Nervous system disorders                                 |                  |  |  |
| Any nervous system disorder                              |                  |  |  |

|   |                  |  |  |
|---|------------------|--|--|
| subjects affected / exposed                         | 8 / 342 (2.34%)  |  |  |
| occurrences causally related to treatment / all     | 0 / 11           |  |  |
| deaths causally related to treatment / all          | 0 / 2            |  |  |
| Gastrointestinal disorders                          |                  |  |  |
| Any gastrointestinal disorder                       |                  |  |  |
| subjects affected / exposed                         | 11 / 342 (3.22%) |  |  |
| occurrences causally related to treatment / all     | 0 / 12           |  |  |
| deaths causally related to treatment / all          | 0 / 1            |  |  |
| Hepatobiliary disorders                             |                  |  |  |
| Any hepatobiliary disorders                         |                  |  |  |
| subjects affected / exposed                         | 1 / 342 (0.29%)  |  |  |
| occurrences causally related to treatment / all     | 0 / 1            |  |  |
| deaths causally related to treatment / all          | 0 / 0            |  |  |
| Renal and urinary disorders                         |                  |  |  |
| Any renal and urinary disorders                     |                  |  |  |
| subjects affected / exposed                         | 5 / 342 (1.46%)  |  |  |
| occurrences causally related to treatment / all     | 0 / 5            |  |  |
| deaths causally related to treatment / all          | 0 / 0            |  |  |
| Musculoskeletal and connective tissue disorders     |                  |  |  |
| Any musculoskeletal and connective tissue disorders |                  |  |  |
| subjects affected / exposed                         | 5 / 342 (1.46%)  |  |  |
| occurrences causally related to treatment / all     | 0 / 5            |  |  |
| deaths causally related to treatment / all          | 0 / 0            |  |  |
| Infections and infestations                         |                  |  |  |
| Any infections and infestations                     |                  |  |  |
| subjects affected / exposed                         | 32 / 342 (9.36%) |  |  |
| occurrences causally related to treatment / all     | 0 / 38           |  |  |
| deaths causally related to treatment / all          | 0 / 5            |  |  |
| Metabolism and nutrition disorders                  |                  |  |  |
| Any metabolism and nutrition disorder               |                  |  |  |
| subjects affected / exposed                         | 1 / 342 (0.29%)  |  |  |
| occurrences causally related to treatment / all     | 0 / 1            |  |  |
| deaths causally related to treatment / all          | 0 / 0            |  |  |

Frequency threshold for reporting non-serious adverse events: 0 %

| <b>Non-serious adverse events</b>                                   | All consented participants |  |  |
|---|----------------------------|--|--|
| Total subjects affected by non-serious adverse events               |                            |  |  |
| subjects affected / exposed   | 184 / 342 (53.80%)         |  |  |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) |                            |  |  |
| Any neoplasms benign, malignant and unspecified                     |                            |  |  |
| subjects affected / exposed   | 23 / 342 (6.73%)           |  |  |
| occurrences (all)   | 24                         |  |  |
| Vascular disorders  |                            |  |  |
| Any vascular disorder   |                            |  |  |
| subjects affected / exposed   | 11 / 342 (3.22%)           |  |  |
| occurrences (all)   | 11                         |  |  |
| Surgical and medical procedures                                     |                            |  |  |
| Any surgical and medical procedure                                  |                            |  |  |
| subjects affected / exposed   | 28 / 342 (8.19%)           |  |  |
| occurrences (all)   | 31                         |  |  |
| General disorders and administration site conditions                |                            |  |  |
| Any general disorder and administration site condition              |                            |  |  |
| subjects affected / exposed   | 11 / 342 (3.22%)           |  |  |
| occurrences (all)   | 12                         |  |  |
| Respiratory, thoracic and mediastinal disorders                     |                            |  |  |
| Any respiratory, thoracic and mediastinal disorder                  |                            |  |  |
| subjects affected / exposed   | 16 / 342 (4.68%)           |  |  |
| occurrences (all)   | 19                         |  |  |
| Investigations  |                            |  |  |
| Any investigation   |                            |  |  |
| subjects affected / exposed   | 25 / 342 (7.31%)           |  |  |
| occurrences (all)   | 25                         |  |  |
| Injury, poisoning and procedural complications                      |                            |  |  |
| Any injury, poisoning and procedural complication                   |                            |  |  |
| subjects affected / exposed   | 23 / 342 (6.73%)           |  |  |
| occurrences (all)   | 24                         |  |  |
| Cardiac disorders   |                            |  |  |



|   |                        |  |  |
|---|------------------------|--|--|
| Any cardiac disorders<br>subjects affected / exposed<br>occurrences (all)   | 20 / 342 (5.85%)<br>21 |  |  |
| Nervous system disorders<br>Any nervous system disorder<br>subjects affected / exposed<br>occurrences (all)   | 13 / 342 (3.80%)<br>16 |  |  |
| Blood and lymphatic system disorders<br>Any blood and lymphatic system<br>disorder<br>subjects affected / exposed<br>occurrences (all)                          | 1 / 342 (0.29%)<br>1   |  |  |
| Eye disorders<br>Any eye disorder<br>subjects affected / exposed<br>occurrences (all)   | 1 / 342 (0.29%)<br>1   |  |  |
| Gastrointestinal disorders<br>Any gastrointestinal disorders<br>subjects affected / exposed<br>occurrences (all)  | 27 / 342 (7.89%)<br>30 |  |  |
| Skin and subcutaneous tissue disorders<br>Any skin and subcutaneous tissue<br>disorders<br>subjects affected / exposed<br>occurrences (all)                     | 2 / 342 (0.58%)<br>2   |  |  |
| Renal and urinary disorders<br>Any renal and urinary disorder<br>subjects affected / exposed<br>occurrences (all)   | 4 / 342 (1.17%)<br>4   |  |  |
| Endocrine disorders<br>Any endocrine disorders<br>subjects affected / exposed<br>occurrences (all)  | 1 / 342 (0.29%)<br>1   |  |  |
| Musculoskeletal and connective tissue<br>disorders<br>Any musculoskeletal and connective<br>tissue disorder<br>subjects affected / exposed<br>occurrences (all) | 16 / 342 (4.68%)<br>17 |  |  |
| Infections and infestations   |                        |  |  |

|  |                         |  |  |
|--|-------------------------|--|--|
| Any infection and and infestation<br>subjects affected / exposed<br>occurrences (all)  | 53 / 342 (15.50%)<br>60 |  |  |
| Metabolism and nutrition disorders<br>Any metabolism and nutrition<br>disorder<br>subjects affected / exposed<br>occurrences (all) | 3 / 342 (0.88%)<br>3    |  |  |

## 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

Limitations of the trial such as small numbers of subjects analysed or technical problems leading to unreliable data.

|    |
|----|
| NA |
|----|

Notes: