



Clinical trial results:

Immunological responses after concomitant vaccination with the yellow fever-vaccine Stamaril and the TBE-vaccine FSME Immun, or JE-vaccine Ixiaro

Summary

| | |
|--------------------------|----------------|
| EudraCT number | 2017-002137-32 |
| Trial protocol | SE |
| Global end of trial date | 16 April 2019 |

Results information

| | |
|--------------------------------|---------------|
| Result version number | v1 (current) |
| This version publication date | 08 April 2022 |
| First version publication date | 08 April 2022 |

Trial information

Trial identification

| | |
|-----------------------|-------|
| Sponsor protocol code | FV001 |
|-----------------------|-------|

Additional study identifiers

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

Notes:

Sponsors

| | |
|------------------------------|---|
| Sponsor organisation name | Karolinska Institutet, Department of Medicine, Center for Infectious Medicine |
| Sponsor organisation address | Alfred Nobels Allé 8, Huddinge, Sweden, 14152 |
| Public contact | Hans-Gustaf Ljunggren, Karolinska Institutet, Department of Medicine, Center for Infectious Medicine, hans-gustaf.ljunggren@ki.se |
| Scientific contact | Hans-Gustaf Ljunggren, Karolinska Institutet, Department of Medicine, Center for Infectious Medicine, hans-gustaf.ljunggren@ki.se |

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 | 16 April 2019 |
| Is this the analysis of the primary completion data? | No |
| Global end of trial reached? | Yes |
| Global end of trial date | 16 April 2019 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

To study if individuals that have received concomittant vaccinations with FSME Immun and Stamaril generate a better immune response against TBE compared to individuals that only received FSME Immun and to study if individuals that have received concomittant vaccinations with Ixiaro and Stamaril generate a better immune response against JE compared to individuals that only received Ixiaro.

Protection of trial subjects:

The study was conducted in compliance with the protocol, regulatory requirements, good clinical practice (GCP) and the ethical principles of the latest revision of the Declaration of Helsinki as adopted by the World Medical Association.

Background therapy:

Concomitant medications not mentioned in the exclusion criteria were permitted. Medications that were not permitted were those that have a lasting effect on the individual's immune response and those that may endanger the individual during vaccination. Examples of the above are long-term antiviral treatment, such as treatment for HIV and HCV infection, chronic immunosuppressive treatment or anticoagulants.

Concomitant medications were recorded in the CRF.

Evidence for comparator: -

| | |
|---|------------------|
| Actual start date of recruitment | 15 November 2017 |
| 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 | Sweden: 145 |
| Worldwide total number of subjects | 145 |
| EEA total number of subjects | 145 |

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) | 145 |
| From 65 to 84 years | 0 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details: -

Pre-assignment

Screening details:

A total of 161 subjects who wanted vaccination against TBE, JE and/or Yellow fever were screened in order to reach the planned number of subjects for the trial. 16 of the 161 screened subjects did not meet the inclusion criteria.

Period 1

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

Arms

| | |
|------------------------------|--------------------------------|
| Are arms mutually exclusive? | Yes |
| Arm title | Cohort A1 TBE and Yellow fever |

Arm description:

Individuals that were vaccinated against TBE and Yellow fever. The vaccinations were administered in different arms.

| | |
|--|--|
| Arm type | Experimental |
| Investigational medicinal product name | FSME-IMMUN |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Suspension for injection in pre-filled syringe |
| Routes of administration | Intramuscular use |

Dosage and administration details:

0,5 mL administered day 0, day 30 and day 180

| | |
|--|---|
| Investigational medicinal product name | Stamaril |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Powder and solvent for suspension for injection in pre-filled syringe |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

0,5 mL administered day 0 (single dose)

| | |
|------------------|--------------------------------|
| Arm title | Cohort A2 TBE and Yellow fever |
|------------------|--------------------------------|

Arm description:

Individuals that were vaccinated against TBE and Yellow fever. The vaccinations were administered in the same arm.

| | |
|--|--|
| Arm type | Experimental |
| Investigational medicinal product name | FSME-IMMUN |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Suspension for injection in pre-filled syringe |
| Routes of administration | Intramuscular use |

Dosage and administration details:

0,5 mL administered day 0, day 30 and day 180

| | |
|---|---|
| Investigational medicinal product name | Stamaril |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Powder and solvent for suspension for injection in pre-filled syringe |
| Routes of administration | Subcutaneous use |
| Dosage and administration details: 0,5 mL administered day 0 (single dose) | |
| Arm title | Cohort B1 JE and Yellow fever |
| Arm description: Individuals that were vaccinated against JE and Yellow fever. The vaccinations were administered in different arms. | |
| Arm type | Experimental |
| Investigational medicinal product name | IXIARO |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Suspension for injection in pre-filled syringe |
| Routes of administration | Intramuscular use |
| Dosage and administration details: 0,5 mL administered day 0 and day 30 | |
| Investigational medicinal product name | Stamaril |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Powder and solvent for suspension for injection in pre-filled syringe |
| Routes of administration | Subcutaneous use |
| Dosage and administration details: 0,5 mL administered day 0 (single dose) | |
| Arm title | Cohort B2 JE and Yellow fever |
| Arm description: Individuals that were vaccinated against JE and Yellow fever. The vaccinations were administered in the same arm. | |
| Arm type | Experimental |
| Investigational medicinal product name | IXIARO |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Suspension for injection in pre-filled syringe |
| Routes of administration | Intramuscular use |
| Dosage and administration details: 0,5 mL administered day 0 and day 30 | |
| Investigational medicinal product name | Stamaril |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Powder and solvent for suspension for injection in pre-filled syringe |
| Routes of administration | Subcutaneous use |
| Dosage and administration details: 0,5 mL administered day 0 (single dose) | |
| Arm title | Cohort C TBE |
| Arm description: Individuals that were vaccinated against TBE. | |
| Arm type | Active comparator |

| | |
|--|--|
| Investigational medicinal product name | FSME-IMMUN |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Suspension for injection in pre-filled syringe |
| Routes of administration | Intramuscular use |

Dosage and administration details:

0,5 mL administered day 0, day 30 and day 180

| | |
|------------------|-------------|
| Arm title | Cohort D JE |
|------------------|-------------|

Arm description:

Individuals that were vaccinated against JE.

| | |
|--|--|
| Arm type | Active comparator |
| Investigational medicinal product name | IXIARO |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Suspension for injection in pre-filled syringe |
| Routes of administration | Intramuscular use |

Dosage and administration details:

0,5 mL administered day 0 and day 30

| | |
|------------------|-----------------------|
| Arm title | Cohort E Yellow fever |
|------------------|-----------------------|

Arm description:

Individuals that were vaccinated against Yellow fever.

| | |
|--|---|
| Arm type | Active comparator |
| Investigational medicinal product name | Stamaril |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Powder and solvent for suspension for injection in pre-filled syringe |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

0,5 mL administered day 0 (single dose)

| Number of subjects in period 1 | Cohort A1 TBE and Yellow fever | Cohort A2 TBE and Yellow fever | Cohort B1 JE and Yellow fever |
|---------------------------------------|--------------------------------|--------------------------------|-------------------------------|
| Started | 23 | 20 | 21 |
| Completed | 20 | 20 | 20 |
| Not completed | 3 | 0 | 1 |
| Adverse event, non-fatal | 1 | - | - |
| Poor compliance | 2 | - | 1 |
| Subject moved to another location | - | - | - |

| Number of subjects in period 1 | Cohort B2 JE and Yellow fever | Cohort C TBE | Cohort D JE |
|---------------------------------------|-------------------------------|--------------|-------------|
| Started | 21 | 20 | 20 |
| Completed | 20 | 19 | 20 |
| Not completed | 1 | 1 | 0 |
| Adverse event, non-fatal | 1 | - | - |
| Poor compliance | - | - | - |

| | | | |
|-----------------------------------|---|---|---|
| Subject moved to another location | - | 1 | - |
|-----------------------------------|---|---|---|

| Number of subjects in period 1 | Cohort E Yellow fever |
|---------------------------------------|-----------------------|
| Started | 20 |
| Completed | 20 |
| Not completed | 0 |
| Adverse event, non-fatal | - |
| Poor compliance | - |
| Subject moved to another location | - |

Baseline characteristics

Reporting groups

| | |
|--|--------------------------------|
| Reporting group title | Cohort A1 TBE and Yellow fever |
| Reporting group description: Individuals that were vaccinated against TBE and Yellow fever. The vaccinations were administered in different arms. | |
| Reporting group title | Cohort A2 TBE and Yellow fever |
| Reporting group description: Individuals that were vaccinated against TBE and Yellow fever. The vaccinations were administered in the same arm. | |
| Reporting group title | Cohort B1 JE and Yellow fever |
| Reporting group description: Individuals that were vaccinated against JE and Yellow fever. The vaccinations were administered in different arms. | |
| Reporting group title | Cohort B2 JE and Yellow fever |
| Reporting group description: Individuals that were vaccinated against JE and Yellow fever. The vaccinations were administered in the same arm. | |
| Reporting group title | Cohort C TBE |
| Reporting group description: Individuals that were vaccinated against TBE. | |
| Reporting group title | Cohort D JE |
| Reporting group description: Individuals that were vaccinated against JE. | |
| Reporting group title | Cohort E Yellow fever |
| Reporting group description: Individuals that were vaccinated against Yellow fever. | |

| Reporting group values | Cohort A1 TBE and Yellow fever | Cohort A2 TBE and Yellow fever | Cohort B1 JE and Yellow fever |
|---|--------------------------------|--------------------------------|-------------------------------|
| Number of subjects | 23 | 20 | 21 |
| Age categorical Units: Subjects | | | |
| In utero Preterm newborn infants (gestational age < 37 wks) Newborns (0-27 days) Infants and toddlers (28 days-23 months) Children (2-11 years) Adolescents (12-17 years) Adults (18-64 years) From 65-84 years 85 years and over | | | |
| Age continuous | | | |
| Age is reported for the subjects that completed the study. | | | |
| Units: years | | | |
| arithmetic mean | 31.3 | 28.9 | 28.3 |
| standard deviation | ± 9.0 | ± 7.1 | ± 10.2 |

| | | | |
|---|----|----|----|
| Gender categorical | | | |
| Gender is reported for the subjects that completed the study. | | | |
| Units: Subjects | | | |
| Female | 13 | 14 | 11 |
| Male | 7 | 6 | 9 |
| Not recorded | 3 | 0 | 1 |

| | | | |
|--|-------------------------------|--------------|-------------|
| Reporting group values | Cohort B2 JE and Yellow fever | Cohort C TBE | Cohort D JE |
| Number of subjects | 21 | 20 | 20 |
| Age categorical | | | |
| Units: Subjects | | | |
| In utero | | | |
| Preterm newborn infants (gestational age < 37 wks) | | | |
| Newborns (0-27 days) | | | |
| Infants and toddlers (28 days-23 months) | | | |
| Children (2-11 years) | | | |
| Adolescents (12-17 years) | | | |
| Adults (18-64 years) | | | |
| From 65-84 years | | | |
| 85 years and over | | | |
| Age continuous | | | |

| | | | |
|---|-------|-------|-------|
| Age is reported for the subjects that completed the study. | | | |
| Units: years | | | |
| arithmetic mean | 27.8 | 24.4 | 26.0 |
| standard deviation | ± 4.6 | ± 5.9 | ± 6.3 |
| Gender categorical | | | |
| Gender is reported for the subjects that completed the study. | | | |
| Units: Subjects | | | |
| Female | 10 | 13 | 13 |
| Male | 10 | 6 | 7 |
| Not recorded | 1 | 1 | 0 |

| | | | |
|--|-----------------------|-------|--|
| Reporting group values | Cohort E Yellow fever | Total | |
| Number of subjects | 20 | 145 | |
| Age categorical | | | |
| Units: Subjects | | | |
| In utero | | 0 | |
| Preterm newborn infants (gestational age < 37 wks) | | 0 | |
| Newborns (0-27 days) | | 0 | |
| Infants and toddlers (28 days-23 months) | | 0 | |
| Children (2-11 years) | | 0 | |
| Adolescents (12-17 years) | | 0 | |
| Adults (18-64 years) | | 0 | |
| From 65-84 years | | 0 | |
| 85 years and over | | 0 | |
| Age continuous | | | |
| Age is reported for the subjects that completed the study. | | | |
| Units: years | | | |

| | | | |
|--------------------|-------|---|--|
| arithmetic mean | 29.7 | | |
| standard deviation | ± 9.5 | - | |

| | | | |
|---|----|----|--|
| Gender categorical | | | |
| Gender is reported for the subjects that completed the study. | | | |
| Units: Subjects | | | |
| Female | 12 | 86 | |
| Male | 8 | 53 | |
| Not recorded | 0 | 6 | |

End points

End points reporting groups

| | |
|------------------------------|--|
| Reporting group title | Cohort A1 TBE and Yellow fever |
| Reporting group description: | Individuals that were vaccinated against TBE and Yellow fever. The vaccinations were administered in different arms. |
| Reporting group title | Cohort A2 TBE and Yellow fever |
| Reporting group description: | Individuals that were vaccinated against TBE and Yellow fever. The vaccinations were administered in the same arm. |
| Reporting group title | Cohort B1 JE and Yellow fever |
| Reporting group description: | Individuals that were vaccinated against JE and Yellow fever. The vaccinations were administered in different arms. |
| Reporting group title | Cohort B2 JE and Yellow fever |
| Reporting group description: | Individuals that were vaccinated against JE and Yellow fever. The vaccinations were administered in the same arm. |
| Reporting group title | Cohort C TBE |
| Reporting group description: | Individuals that were vaccinated against TBE. |
| Reporting group title | Cohort D JE |
| Reporting group description: | Individuals that were vaccinated against JE. |
| Reporting group title | Cohort E Yellow fever |
| Reporting group description: | Individuals that were vaccinated against Yellow fever. |

Primary: Neutralizing antibodies against TBEV

| | |
|------------------------|--|
| End point title | Neutralizing antibodies against TBEV ^[1] |
| End point description: | Number of subjects with neutralizing antibodies (nAbs) against TBE virus |
| End point type | Primary |
| End point timeframe: | Final time point, 30 (+14) days after last dose of vaccine |

Notes:

[1] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period. Justification: This endpoint is only applicable for subjects receiving vaccine against TBE, hence only applicable for cohorts A1, A2 and C.

| End point values | Cohort A1 TBE and Yellow fever | Cohort A2 TBE and Yellow fever | Cohort C TBE | |
|-----------------------------|--------------------------------|--------------------------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 20 | 20 | 19 | |
| Units: subjects | 17 | 19 | 16 | |

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Comparison of nAbs (TBEV) titers between cohorts |
| Comparison groups | Cohort A1 TBE and Yellow fever v Cohort A2 TBE and Yellow fever v Cohort C TBE |
| Number of subjects included in analysis | 59 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | < 0.05 |
| Method | Kruskal-wallis |

Primary: Neutralizing antibodies against JEV

| | |
|---|--|
| End point title | Neutralizing antibodies against JEV ^[2] |
| End point description: | |
| Number of subjects with neutralizing antibodies (nAbs) against JE virus | |
| End point type | Primary |
| End point timeframe: | |
| Final time point, 30 (+14) days after last dose of vaccine | |

Notes:

[2] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period.

Justification: This endpoint is only applicable for subjects receiving vaccine against JE, hence only applicable for cohorts B1, B2 and D.

| End point values | Cohort B1 JE and Yellow fever | Cohort B2 JE and Yellow fever | Cohort D JE | |
|-----------------------------|-------------------------------|-------------------------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 20 | 20 | 20 | |
| Units: subjects | 17 | 11 | 12 | |

Statistical analyses

| | |
|-----------------------------------|---|
| Statistical analysis title | Comparison of nAbs (JEV) titers between cohorts |
| Comparison groups | Cohort B1 JE and Yellow fever v Cohort B2 JE and Yellow fever v Cohort D JE |

| | |
|---|----------------|
| Number of subjects included in analysis | 60 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | < 0.05 |
| Method | Kruskal-wallis |

Primary: Neutralizing antibodies against YFV

| | |
|---|--|
| End point title | Neutralizing antibodies against YFV ^[3] |
| End point description: | |
| Number of subjects with neutralizing antibodies (nAbs) against YF virus | |
| End point type | Primary |
| End point timeframe: | |
| Final time point: for cohort A1, A2, B1 and B2 30 (+14) days after last dose of vaccine, for cohort E 60 (+14) days after vaccination | |

Notes:

[3] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period. Justification: This endpoint is only applicable for subjects receiving vaccine against YF, hence only applicable for cohorts A1, A2, B1, B2 and E.

| End point values | Cohort A1 TBE and Yellow fever | Cohort A2 TBE and Yellow fever | Cohort B1 JE and Yellow fever | Cohort B2 JE and Yellow fever |
|-----------------------------|--------------------------------|--------------------------------|-------------------------------|-------------------------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 20 | 20 | 20 | 20 |
| Units: subjects | 20 | 20 | 20 | 20 |

| End point values | Cohort E Yellow fever | | | |
|-----------------------------|-----------------------|--|--|--|
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 20 | | | |
| Units: subjects | 20 | | | |

Statistical analyses

| | |
|---|---|
| Statistical analysis title | Comparison of nAbs (YFV) titers between cohorts |
| Comparison groups | Cohort A1 TBE and Yellow fever v Cohort A2 TBE and Yellow fever v Cohort B1 JE and Yellow fever v Cohort B2 JE and Yellow fever v Cohort E Yellow fever |
| Number of subjects included in analysis | 100 |
| Analysis specification | Pre-specified |
| Analysis type | other |
| P-value | < 0.05 |
| Method | Kruskal-wallis |

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Adverse events were reported from the time point of the first vaccination until end of study for each subject.

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

Dictionary used

| | |
|--------------------|--------|
| Dictionary name | MedDRA |
| Dictionary version | 23 |

Reporting groups

| | |
|-----------------------|--------------------------------|
| Reporting group title | Cohort A1 TBE and Yellow fever |
|-----------------------|--------------------------------|

Reporting group description:

Individuals that were vaccinated against TBE and Yellow fever. The vaccinations were administered in different arms.

| | |
|-----------------------|--------------------------------|
| Reporting group title | Cohort A2 TBE and Yellow fever |
|-----------------------|--------------------------------|

Reporting group description:

Individuals that were vaccinated against TBE and Yellow fever. The vaccinations were administered in the same arm.

| | |
|-----------------------|-------------------------------|
| Reporting group title | Cohort B1 JE and Yellow fever |
|-----------------------|-------------------------------|

Reporting group description:

Individuals that were vaccinated against JE and Yellow fever. The vaccinations were administered in different arms.

| | |
|-----------------------|-------------------------------|
| Reporting group title | Cohort B2 JE and Yellow fever |
|-----------------------|-------------------------------|

Reporting group description:

Individuals that were vaccinated against JE and Yellow fever. The vaccinations were administered in the same arm.

| | |
|-----------------------|--------------|
| Reporting group title | Cohort C TBE |
|-----------------------|--------------|

Reporting group description:

Individuals that were vaccinated against TBE.

| | |
|-----------------------|-------------|
| Reporting group title | Cohort D JE |
|-----------------------|-------------|

Reporting group description:

Individuals that were vaccinated against JE.

| | |
|-----------------------|-----------------------|
| Reporting group title | Cohort E Yellow fever |
|-----------------------|-----------------------|

Reporting group description:

Individuals that were vaccinated against Yellow fever.

| Serious adverse events | Cohort A1 TBE and Yellow fever | Cohort A2 TBE and Yellow fever | Cohort B1 JE and Yellow fever |
|---|--------------------------------|--------------------------------|-------------------------------|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 1 / 20 (5.00%) | 0 / 21 (0.00%) |
| number of deaths (all causes) | 0 | 0 | 0 |
| number of deaths resulting from adverse events | 0 | 0 | 0 |
| Injury, poisoning and procedural complications | | | |
| Fall | | | |

| | | | |
|--|----------------|----------------|----------------|
| subjects affected / exposed | 1 / 23 (4.35%) | 0 / 20 (0.00%) | 0 / 21 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Reproductive system and breast disorders | | | |
| Dislocation of hip, baby | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 1 / 20 (5.00%) | 0 / 21 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Respiratory, thoracic and mediastinal disorders | | | |
| Pneumonitis | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 0 / 20 (0.00%) | 0 / 21 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Psychiatric disorders | | | |
| Depression | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 0 / 20 (0.00%) | 0 / 21 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| Serious adverse events | Cohort B2 JE and Yellow fever | Cohort C TBE | Cohort D JE |
|--|-------------------------------|----------------|----------------|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 0 / 21 (0.00%) | 1 / 20 (5.00%) | 0 / 20 (0.00%) |
| number of deaths (all causes) | 0 | 0 | 0 |
| number of deaths resulting from adverse events | 0 | 0 | 0 |
| Injury, poisoning and procedural complications | | | |
| Fall | | | |
| subjects affected / exposed | 0 / 21 (0.00%) | 0 / 20 (0.00%) | 0 / 20 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Reproductive system and breast disorders | | | |
| Dislocation of hip, baby | | | |
| subjects affected / exposed | 0 / 21 (0.00%) | 0 / 20 (0.00%) | 0 / 20 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|----------------|----------------|----------------|
| Respiratory, thoracic and mediastinal disorders | | | |
| Pneumonitis | | | |
| subjects affected / exposed | 0 / 21 (0.00%) | 0 / 20 (0.00%) | 0 / 20 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Psychiatric disorders | | | |
| Depression | | | |
| subjects affected / exposed | 0 / 21 (0.00%) | 1 / 20 (5.00%) | 0 / 20 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------------|--|--|
| Serious adverse events | Cohort E Yellow fever | | |
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 1 / 20 (5.00%) | | |
| number of deaths (all causes) | 0 | | |
| number of deaths resulting from adverse events | 0 | | |
| Injury, poisoning and procedural complications | | | |
| Fall | | | |
| subjects affected / exposed | 0 / 20 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Reproductive system and breast disorders | | | |
| Dislocation of hip, baby | | | |
| subjects affected / exposed | 0 / 20 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Pneumonitis | | | |
| subjects affected / exposed | 1 / 20 (5.00%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Psychiatric disorders | | | |
| Depression | | | |

| | | | |
|---|----------------|--|--|
| subjects affected / exposed | 0 / 20 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

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

| Non-serious adverse events | Cohort A1 TBE and Yellow fever | Cohort A2 TBE and Yellow fever | Cohort B1 JE and Yellow fever |
|---|--------------------------------|--------------------------------|-------------------------------|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 19 / 23 (82.61%) | 16 / 20 (80.00%) | 12 / 21 (57.14%) |
| General disorders and administration site conditions | | | |
| Flu like symptoms | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 3 / 20 (15.00%) | 3 / 21 (14.29%) |
| occurrences (all) | 1 | 3 | 3 |
| Injection site abscess | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 1 / 20 (5.00%) | 0 / 21 (0.00%) |
| occurrences (all) | 1 | 1 | 0 |
| Pain/redness at site | | | |
| subjects affected / exposed | 7 / 23 (30.43%) | 7 / 20 (35.00%) | 1 / 21 (4.76%) |
| occurrences (all) | 7 | 7 | 1 |
| Fatigue | | | |
| subjects affected / exposed | 2 / 23 (8.70%) | 2 / 20 (10.00%) | 0 / 21 (0.00%) |
| occurrences (all) | 2 | 2 | 0 |
| Fever | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 3 / 20 (15.00%) | 3 / 21 (14.29%) |
| occurrences (all) | 0 | 4 | 3 |
| Reproductive system and breast disorders | | | |
| Scrotal pain | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 0 / 20 (0.00%) | 0 / 21 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Pregnancy | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 1 / 20 (5.00%) | 0 / 21 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Dysmenorrhoea | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 0 / 20 (0.00%) | 1 / 21 (4.76%) |
| occurrences (all) | 0 | 0 | 2 |

| | | | |
|---|-----------------|-----------------|----------------|
| Respiratory, thoracic and mediastinal disorders | | | |
| Cough | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 0 / 20 (0.00%) | 1 / 21 (4.76%) |
| occurrences (all) | 0 | 0 | 1 |
| Sore throat | | | |
| subjects affected / exposed | 3 / 23 (13.04%) | 0 / 20 (0.00%) | 2 / 21 (9.52%) |
| occurrences (all) | 3 | 0 | 2 |
| Asthma | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 1 / 20 (5.00%) | 0 / 21 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| allergic rhinitis | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 0 / 20 (0.00%) | 1 / 21 (4.76%) |
| occurrences (all) | 0 | 0 | 1 |
| Psychiatric disorders | | | |
| Depression | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 0 / 20 (0.00%) | 1 / 21 (4.76%) |
| occurrences (all) | 0 | 0 | 1 |
| Anxiety | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 0 / 20 (0.00%) | 0 / 21 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Injury, poisoning and procedural complications | | | |
| Bruising | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 1 / 20 (5.00%) | 0 / 21 (0.00%) |
| occurrences (all) | 1 | 1 | 0 |
| Cut | | | |
| subjects affected / exposed | 0 / 23 (0.00%) | 1 / 20 (5.00%) | 0 / 21 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Fall | | | |
| subjects affected / exposed | 1 / 23 (4.35%) | 0 / 20 (0.00%) | 0 / 21 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed | 3 / 23 (13.04%) | 4 / 20 (20.00%) | 2 / 21 (9.52%) |
| occurrences (all) | 4 | 6 | 2 |
| Dizziness | | | |

| | | | |
|--|---------------------|---------------------|---------------------|
| subjects affected / exposed occurrences (all) | 0 / 23 (0.00%) 0 | 0 / 20 (0.00%) 0 | 0 / 21 (0.00%) 0 |
| Blood and lymphatic system disorders Lymph node pain subjects affected / exposed occurrences (all) | 0 / 23 (0.00%) 0 | 1 / 20 (5.00%) 1 | 0 / 21 (0.00%) 0 |
| Ear and labyrinth disorders Middle ear inflammation subjects affected / exposed occurrences (all) | 1 / 23 (4.35%) 1 | 0 / 20 (0.00%) 0 | 0 / 21 (0.00%) 0 |
| Gastrointestinal disorders Toothache subjects affected / exposed occurrences (all) | 1 / 23 (4.35%) 1 | 0 / 20 (0.00%) 0 | 0 / 21 (0.00%) 0 |
| Nausea/vomiting subjects affected / exposed occurrences (all) | 1 / 23 (4.35%) 1 | 0 / 20 (0.00%) 0 | 0 / 21 (0.00%) 0 |
| Stomach flu subjects affected / exposed occurrences (all) | 0 / 23 (0.00%) 0 | 1 / 20 (5.00%) 1 | 0 / 21 (0.00%) 0 |
| Gastric ulcer subjects affected / exposed occurrences (all) | 0 / 23 (0.00%) 0 | 0 / 20 (0.00%) 0 | 1 / 21 (4.76%) 1 |
| Diarrhoea subjects affected / exposed occurrences (all) | 0 / 23 (0.00%) 0 | 0 / 20 (0.00%) 0 | 1 / 21 (4.76%) 1 |
| Skin and subcutaneous tissue disorders Skin hyperpigmentation subjects affected / exposed occurrences (all) | 0 / 23 (0.00%) 0 | 1 / 20 (5.00%) 1 | 0 / 21 (0.00%) 0 |
| Localised infection subjects affected / exposed occurrences (all) | 0 / 23 (0.00%) 0 | 1 / 20 (5.00%) 1 | 0 / 21 (0.00%) 0 |
| Musculoskeletal and connective tissue disorders Joint pain | | | |

| | | | |
|---|-----------------------|-----------------------|----------------------|
| subjects affected / exposed occurrences (all) | 1 / 23 (4.35%) 1 | 0 / 20 (0.00%) 0 | 2 / 21 (9.52%) 2 |
| Back pain subjects affected / exposed occurrences (all) | 1 / 23 (4.35%) 1 | 0 / 20 (0.00%) 0 | 0 / 21 (0.00%) 0 |
| Muscle (body) pain subjects affected / exposed occurrences (all) | 2 / 23 (8.70%) 2 | 1 / 20 (5.00%) 1 | 1 / 21 (4.76%) 1 |
| Heel spur subjects affected / exposed occurrences (all) | 0 / 23 (0.00%) 0 | 0 / 20 (0.00%) 0 | 1 / 21 (4.76%) 1 |
| Infections and infestations | | | |
| Upper respiratory infection subjects affected / exposed occurrences (all) | 8 / 23 (34.78%) 12 | 7 / 20 (35.00%) 12 | 3 / 21 (14.29%) 4 |
| Urinary tract infection subjects affected / exposed occurrences (all) | 0 / 23 (0.00%) 0 | 2 / 20 (10.00%) 2 | 0 / 21 (0.00%) 0 |
| Vaginal infection subjects affected / exposed occurrences (all) | 0 / 23 (0.00%) 0 | 3 / 20 (15.00%) 3 | 0 / 21 (0.00%) 0 |
| Herpes simplex subjects affected / exposed occurrences (all) | 0 / 23 (0.00%) 0 | 1 / 20 (5.00%) 1 | 0 / 21 (0.00%) 0 |
| Metabolism and nutrition disorders | | | |
| Diabetes type 2 subjects affected / exposed occurrences (all) | 1 / 23 (4.35%) 1 | 0 / 20 (0.00%) 0 | 0 / 21 (0.00%) 0 |
| Iron deficiency subjects affected / exposed occurrences (all) | 0 / 23 (0.00%) 0 | 1 / 20 (5.00%) 1 | 0 / 21 (0.00%) 0 |

| Non-serious adverse events | Cohort B2 JE and Yellow fever | Cohort C TBE | Cohort D JE |
|---|----------------------------------|------------------|------------------|
| Total subjects affected by non-serious adverse events subjects affected / exposed | 10 / 21 (47.62%) | 16 / 20 (80.00%) | 16 / 20 (80.00%) |
| General disorders and administration site conditions | | | |

| | | | |
|---|----------------|-----------------|-----------------|
| Flu like symptoms | | | |
| subjects affected / exposed | 1 / 21 (4.76%) | 0 / 20 (0.00%) | 1 / 20 (5.00%) |
| occurrences (all) | 2 | 0 | 1 |
| Injection site abscess | | | |
| subjects affected / exposed | 0 / 21 (0.00%) | 0 / 20 (0.00%) | 0 / 20 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Pain/redness at site | | | |
| subjects affected / exposed | 2 / 21 (9.52%) | 3 / 20 (15.00%) | 3 / 20 (15.00%) |
| occurrences (all) | 2 | 4 | 3 |
| Fatigue | | | |
| subjects affected / exposed | 0 / 21 (0.00%) | 1 / 20 (5.00%) | 0 / 20 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Fever | | | |
| subjects affected / exposed | 2 / 21 (9.52%) | 2 / 20 (10.00%) | 0 / 20 (0.00%) |
| occurrences (all) | 2 | 2 | 0 |
| Reproductive system and breast disorders | | | |
| Scrotal pain | | | |
| subjects affected / exposed | 0 / 21 (0.00%) | 0 / 20 (0.00%) | 0 / 20 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Pregnancy | | | |
| subjects affected / exposed | 0 / 21 (0.00%) | 0 / 20 (0.00%) | 0 / 20 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Dysmenorrhoea | | | |
| subjects affected / exposed | 0 / 21 (0.00%) | 2 / 20 (10.00%) | 0 / 20 (0.00%) |
| occurrences (all) | 0 | 4 | 0 |
| Respiratory, thoracic and mediastinal disorders | | | |
| Cough | | | |
| subjects affected / exposed | 0 / 21 (0.00%) | 0 / 20 (0.00%) | 0 / 20 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Sore throat | | | |
| subjects affected / exposed | 0 / 21 (0.00%) | 0 / 20 (0.00%) | 0 / 20 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Asthma | | | |
| subjects affected / exposed | 0 / 21 (0.00%) | 1 / 20 (5.00%) | 0 / 20 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| allergic rhinitis | | | |

| | | | |
|--|---------------------|----------------------|----------------------|
| subjects affected / exposed occurrences (all) | 0 / 21 (0.00%) 0 | 0 / 20 (0.00%) 0 | 2 / 20 (10.00%) 2 |
| Psychiatric disorders | | | |
| Depression | | | |
| subjects affected / exposed occurrences (all) | 0 / 21 (0.00%) 0 | 0 / 20 (0.00%) 0 | 0 / 20 (0.00%) 0 |
| Anxiety | | | |
| subjects affected / exposed occurrences (all) | 0 / 21 (0.00%) 0 | 1 / 20 (5.00%) 1 | 0 / 20 (0.00%) 0 |
| Injury, poisoning and procedural complications | | | |
| Bruising | | | |
| subjects affected / exposed occurrences (all) | 0 / 21 (0.00%) 0 | 0 / 20 (0.00%) 0 | 0 / 20 (0.00%) 0 |
| Cut | | | |
| subjects affected / exposed occurrences (all) | 0 / 21 (0.00%) 0 | 1 / 20 (5.00%) 1 | 0 / 20 (0.00%) 0 |
| Fall | | | |
| subjects affected / exposed occurrences (all) | 0 / 21 (0.00%) 0 | 0 / 20 (0.00%) 0 | 0 / 20 (0.00%) 0 |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed occurrences (all) | 2 / 21 (9.52%) 2 | 3 / 20 (15.00%) 3 | 2 / 20 (10.00%) 5 |
| Dizziness | | | |
| subjects affected / exposed occurrences (all) | 0 / 21 (0.00%) 0 | 1 / 20 (5.00%) 1 | 0 / 20 (0.00%) 0 |
| Blood and lymphatic system disorders | | | |
| Lymph node pain | | | |
| subjects affected / exposed occurrences (all) | 1 / 21 (4.76%) 1 | 0 / 20 (0.00%) 0 | 0 / 20 (0.00%) 0 |
| Ear and labyrinth disorders | | | |
| Middle ear inflammation | | | |
| subjects affected / exposed occurrences (all) | 0 / 21 (0.00%) 0 | 0 / 20 (0.00%) 0 | 0 / 20 (0.00%) 0 |
| Gastrointestinal disorders | | | |

| | | | |
|--|---------------------|----------------------|----------------------|
| Toothache subjects affected / exposed occurrences (all) | 2 / 21 (9.52%) 2 | 0 / 20 (0.00%) 0 | 0 / 20 (0.00%) 0 |
| Nausea/vomiting subjects affected / exposed occurrences (all) | 1 / 21 (4.76%) 1 | 2 / 20 (10.00%) 2 | 0 / 20 (0.00%) 0 |
| Stomach flu subjects affected / exposed occurrences (all) | 0 / 21 (0.00%) 0 | 1 / 20 (5.00%) 1 | 2 / 20 (10.00%) 2 |
| Gastric ulcer subjects affected / exposed occurrences (all) | 0 / 21 (0.00%) 0 | 0 / 20 (0.00%) 0 | 0 / 20 (0.00%) 0 |
| Diarrhoea subjects affected / exposed occurrences (all) | 0 / 21 (0.00%) 0 | 1 / 20 (5.00%) 1 | 1 / 20 (5.00%) 1 |
| Skin and subcutaneous tissue disorders | | | |
| Skin hyperpigmentation subjects affected / exposed occurrences (all) | 0 / 21 (0.00%) 0 | 0 / 20 (0.00%) 0 | 0 / 20 (0.00%) 0 |
| Localised infection subjects affected / exposed occurrences (all) | 0 / 21 (0.00%) 0 | 0 / 20 (0.00%) 0 | 0 / 20 (0.00%) 0 |
| Musculoskeletal and connective tissue disorders | | | |
| Joint pain subjects affected / exposed occurrences (all) | 0 / 21 (0.00%) 0 | 0 / 20 (0.00%) 0 | 0 / 20 (0.00%) 0 |
| Back pain subjects affected / exposed occurrences (all) | 0 / 21 (0.00%) 0 | 0 / 20 (0.00%) 0 | 2 / 20 (10.00%) 2 |
| Muscle (body) pain subjects affected / exposed occurrences (all) | 1 / 21 (4.76%) 2 | 1 / 20 (5.00%) 1 | 2 / 20 (10.00%) 2 |
| Heel spur subjects affected / exposed occurrences (all) | 0 / 21 (0.00%) 0 | 0 / 20 (0.00%) 0 | 0 / 20 (0.00%) 0 |
| Infections and infestations | | | |

| | | | |
|---|----------------------|------------------------|------------------------|
| Upper respiratory infection subjects affected / exposed occurrences (all) | 5 / 21 (23.81%) 6 | 10 / 20 (50.00%) 12 | 11 / 20 (55.00%) 13 |
| Urinary tract infection subjects affected / exposed occurrences (all) | 0 / 21 (0.00%) 0 | 0 / 20 (0.00%) 0 | 0 / 20 (0.00%) 0 |
| Vaginal infection subjects affected / exposed occurrences (all) | 1 / 21 (4.76%) 1 | 0 / 20 (0.00%) 0 | 0 / 20 (0.00%) 0 |
| Herpes simplex subjects affected / exposed occurrences (all) | 0 / 21 (0.00%) 0 | 0 / 20 (0.00%) 0 | 0 / 20 (0.00%) 0 |
| Metabolism and nutrition disorders | | | |
| Diabetes type 2 subjects affected / exposed occurrences (all) | 0 / 21 (0.00%) 0 | 0 / 20 (0.00%) 0 | 0 / 20 (0.00%) 0 |
| Iron deficiency subjects affected / exposed occurrences (all) | 0 / 21 (0.00%) 0 | 1 / 20 (5.00%) 1 | 0 / 20 (0.00%) 0 |

| Non-serious adverse events | Cohort E Yellow fever | | |
|--|-----------------------|--|--|
| Total subjects affected by non-serious adverse events subjects affected / exposed | 11 / 20 (55.00%) | | |
| General disorders and administration site conditions | | | |
| Flu like symptoms subjects affected / exposed occurrences (all) | 0 / 20 (0.00%) 0 | | |
| Injection site abscess subjects affected / exposed occurrences (all) | 0 / 20 (0.00%) 0 | | |
| Pain/redness at site subjects affected / exposed occurrences (all) | 2 / 20 (10.00%) 2 | | |
| Fatigue subjects affected / exposed occurrences (all) | 0 / 20 (0.00%) 0 | | |

| | | | |
|--|--|--|--|
| Fever subjects affected / exposed occurrences (all) | 0 / 20 (0.00%) 0 | | |
| Reproductive system and breast disorders Scrotal pain subjects affected / exposed occurrences (all) Pregnancy subjects affected / exposed occurrences (all) Dysmenorrhoea subjects affected / exposed occurrences (all) | 0 / 20 (0.00%) 0 0 / 20 (0.00%) 0 0 / 20 (0.00%) 0 | | |
| Respiratory, thoracic and mediastinal disorders Cough subjects affected / exposed occurrences (all) Sore throat subjects affected / exposed occurrences (all) Asthma subjects affected / exposed occurrences (all) allergic rhinitis subjects affected / exposed occurrences (all) | 1 / 20 (5.00%) 1 1 / 20 (5.00%) 1 0 / 20 (0.00%) 0 0 / 20 (0.00%) 0 | | |
| Psychiatric disorders Depression subjects affected / exposed occurrences (all) Anxiety subjects affected / exposed occurrences (all) | 0 / 20 (0.00%) 0 0 / 20 (0.00%) 0 | | |
| Injury, poisoning and procedural complications | | | |

| | | | |
|---|---------------------|--|--|
| Bruising subjects affected / exposed occurrences (all) | 0 / 20 (0.00%) 0 | | |
| Cut subjects affected / exposed occurrences (all) | 0 / 20 (0.00%) 0 | | |
| Fall subjects affected / exposed occurrences (all) | 0 / 20 (0.00%) 0 | | |
| Nervous system disorders Headache subjects affected / exposed occurrences (all) | 0 / 20 (0.00%) 0 | | |
| Dizziness subjects affected / exposed occurrences (all) | 0 / 20 (0.00%) 0 | | |
| Blood and lymphatic system disorders Lymph node pain subjects affected / exposed occurrences (all) | 0 / 20 (0.00%) 0 | | |
| Ear and labyrinth disorders Middle ear inflammation subjects affected / exposed occurrences (all) | 0 / 20 (0.00%) 0 | | |
| Gastrointestinal disorders Toothache subjects affected / exposed occurrences (all) | 1 / 20 (5.00%) 1 | | |
| Nausea/vomiting subjects affected / exposed occurrences (all) | 1 / 20 (5.00%) 1 | | |
| Stomach flu subjects affected / exposed occurrences (all) | 1 / 20 (5.00%) 1 | | |
| Gastric ulcer subjects affected / exposed occurrences (all) | 0 / 20 (0.00%) 0 | | |

| | | | |
|--|---|--|--|
| Diarrhoea subjects affected / exposed occurrences (all) | 0 / 20 (0.00%) 0 | | |
| Skin and subcutaneous tissue disorders Skin hyperpigmentation subjects affected / exposed occurrences (all) Localised infection subjects affected / exposed occurrences (all) | 0 / 20 (0.00%) 0 0 / 20 (0.00%) 0 | | |
| Musculoskeletal and connective tissue disorders Joint pain subjects affected / exposed occurrences (all) Back pain subjects affected / exposed occurrences (all) Muscle (body) pain subjects affected / exposed occurrences (all) Heel spur subjects affected / exposed occurrences (all) | 0 / 20 (0.00%) 0 1 / 20 (5.00%) 1 1 / 20 (5.00%) 1 0 / 20 (0.00%) 0 | | |
| Infections and infestations Upper respiratory infection subjects affected / exposed occurrences (all) Urinary tract infection subjects affected / exposed occurrences (all) Vaginal infection subjects affected / exposed occurrences (all) Herpes simplex subjects affected / exposed occurrences (all) | 7 / 20 (35.00%) 9 0 / 20 (0.00%) 0 0 / 20 (0.00%) 0 0 / 20 (0.00%) 0 | | |

| | | | |
|------------------------------------|----------------|--|--|
| Metabolism and nutrition disorders | | | |
| Diabetes type 2 | | | |
| subjects affected / exposed | 0 / 20 (0.00%) | | |
| occurrences (all) | 0 | | |
| Iron deficiency | | | |
| subjects affected / exposed | 0 / 20 (0.00%) | | |
| occurrences (all) | 0 | | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|---------------|--|
| 03 April 2018 | <p>Changes in protocol version 3 compared to version 2:</p> <ul style="list-style-type: none">- Introduced the possibility of recruiting subjects to more than one cohort at a time.- Subjects receiving dose 2 and 3 should stay 30 minutes instead of 60 minutes. The risk of an allergic reaction is very small after receiving the second and third dose of the same vaccine.- Extended the time window for the third dose TBE vaccine from 5 months (+/- 14 days) after the second dose to 5-12 months after the second dose (according to SmPC).- The use of corticosteroids may be permitted, but not orally or if it is used so frequently or in such doses that it can be considered to significantly affect the effect of the vaccine.- Introduced the possibility for a subject to continue in the study with blood sampling only, if vaccination has been stopped due to safety reasons.- Discontinued subjects will be offered a final follow-up visit.- Introduced the possibility to replace a subject that has dropped out before visit 4. |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported