

**Clinical trial results:**

A Phase II, open (partially double-blind), randomized, controlled dose-range study to evaluate the immunogenicity, reactogenicity and safety of four different formulations of GlaxoSmithKline (GSK) Biologicals' new generations meningococcal serogroups A, C, W-135, Y tetanus toxoid conjugate (MenACWY-TT) vaccine versus MENINGITEC™ or MENCEVAX™ ACWY when given as one dose to children aged 12 to 14 months and 3 to 5 years old.

Due to a system error, the data reported in v1 is not correct and has been removed from public view.

Summary

| | |
|--------------------------|------------------|
| EudraCT number | 2005-001288-73 |
| Trial protocol | AT DE |
| Global end of trial date | 13 February 2008 |

Results information

| | |
|--------------------------------|--|
| Result version number | v2 (current) |
| This version publication date | 10 June 2016 |
| First version publication date | 05 June 2015 |
| Version creation reason | • Correction of full data set Data correction due to a system error in EudraCT – Results. |

Trial information**Trial identification**

| | |
|-----------------------|----------------|
| Sponsor protocol code | 104703, 104704 |
|-----------------------|----------------|

Additional study identifiers

| | |
|------------------------------------|-------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT00126984 |
| WHO universal trial number (UTN) | - |

Notes:

Sponsors

| | |
|------------------------------|---|
| Sponsor organisation name | GlaxoSmithKline Biologicals |
| Sponsor organisation address | Rue de l'Institut 89, Rixensart, Belgium, B-1330 |
| Public contact | Clinical Trials Call Center, GlaxoSmithKline Biologicals, 044 2089-904466, GSKClinicalSupportHD@gsk.com |
| Scientific contact | Clinical Trials Call Center, GlaxoSmithKline Biologicals, 044 2089-904466, GSKClinicalSupportHD@gsk.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? | Yes |
|--|-----|

Notes:

Results analysis stage

| | |
|--|---------------|
| Analysis stage | Interim |
| Date of interim/final analysis | 13 April 2007 |
| Is this the analysis of the primary completion data? | No |

| | |
|----------------------------------|------------------|
| Global end of trial reached? | Yes |
| Global end of trial date | 13 February 2008 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

Based on the immune response induced one month post vaccination, to select the best of four different formulations of GSK Biologicals' new generations MenACWY-TT conjugate vaccine when given as one single dose to healthy children aged 12-14 months and 3-5 years.

Protection of trial subjects:

Vaccines were administered by qualified and trained personnel. Vaccines were administered only to eligible subjects that had no contraindications to any components of the vaccines.

Background therapy: -

Evidence for comparator: -

| | |
|---|--------------|
| Actual start date of recruitment | 26 July 2005 |
| Long term follow-up planned | Yes |
| Long term follow-up rationale | Efficacy |
| Long term follow-up duration | 16 Months |
| Independent data monitoring committee (IDMC) involvement? | No |

Notes:

Population of trial subjects

Subjects enrolled per country

| | |
|--------------------------------------|--------------|
| Country: Number of subjects enrolled | Austria: 110 |
| Country: Number of subjects enrolled | Germany: 398 |
| Worldwide total number of subjects | 508 |
| EEA total number of subjects | 508 |

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 | 240 |

| | |
|---------------------------|-----|
| months) | |
| Children (2-11 years) | 268 |
| Adolescents (12-17 years) | 0 |
| Adults (18-64 years) | 0 |
| From 65 to 84 years | 0 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details: -

Pre-assignment

Screening details:

During the screening the following steps occurred: check for inclusion/exclusion criteria, contraindications/precautions, medical history of the subjects and signing informed consent forms.

Period 1

| | |
|------------------------------|-------------------------|
| Period 1 title | Primary study |
| Is this the baseline period? | Yes |
| Allocation method | Randomised - controlled |
| Blinding used | Double blind |
| Roles blinded | Investigator, Subject |

Blinding implementation details:

The 4 different formulations of MenACWY-TT vaccine were administered in a double-blind manner, while the control vaccines, MenC and MenACWY were given to the subjects in an open manner.

Arms

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

| | |
|------------------|---|
| Arm title | 12-14 months of age Formulation 1 Group |
|------------------|---|

Arm description: -

| | |
|--|-------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Nimenrix™ |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

1 dose of Nimenrix™ vaccine Formulation 1 at Day 0, intramuscularly in the left deltoid.

| | |
|--|---|
| Investigational medicinal product name | DTPa/Hib |
| Investigational medicinal product code | |
| Other name | GSK Biologicals' combined diphtheria, tetanus, acellular pertussis vaccine mixed with Haemophilus influenzae type |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

1 booster dose 1 months after the administration of Nimenrix, injected intramuscularly into the left anterolateral thigh or into the left deltoid according to local requirements.

| | |
|------------------|---|
| Arm title | 12-14 months of age Formulation 2 Group |
|------------------|---|

Arm description: -

| | |
|--|-------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Nimenrix™ |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

1 dose of Nimenrix™ vaccine Formulation 2 at Day 0, intramuscularly in the left deltoid.

| | |
|--|---|
| Investigational medicinal product name | DTPa/Hib |
| Investigational medicinal product code | |
| Other name | GSK Biologicals' combined diphtheria, tetanus, acellular pertussis vaccine mixed with Haemophilus influenzae type |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |
| Dosage and administration details: | |
| 1 booster dose 1 months after the administration of Nimenrix, injected intramuscularly into the left anterolateral thigh or into the left deltoid according to local requirements. | |
| Arm title | 12-14 months of age Formulation 3 Group |
| Arm description: - | |
| Arm type | Experimental |
| Investigational medicinal product name | Nimenrix™ |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |
| Dosage and administration details: | |
| 1 dose of Nimenrix™ vaccine Formulation 3 at Day 0, intramuscularly in the left deltoid. | |
| Investigational medicinal product name | DTPa/Hib |
| Investigational medicinal product code | |
| Other name | GSK Biologicals' combined diphtheria, tetanus, acellular pertussis vaccine mixed with Haemophilus influenzae type |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |
| Dosage and administration details: | |
| 1 booster dose 1 months after the administration of Nimenrix, injected intramuscularly into the left anterolateral thigh or into the left deltoid according to local requirements. | |
| Arm title | 12-14 months of age Formulation 4 Group |
| Arm description: - | |
| Arm type | Experimental |
| Investigational medicinal product name | Nimenrix™ |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |
| Dosage and administration details: | |
| 1 dose of Nimenrix™ vaccine Formulation 4 at Day 0, intramuscularly in the left deltoid. | |
| Investigational medicinal product name | DTPa/Hib |
| Investigational medicinal product code | |
| Other name | GSK Biologicals' combined diphtheria, tetanus, acellular pertussis vaccine mixed with Haemophilus influenzae type |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |
| Dosage and administration details: | |
| 1 booster dose 1 months after the administration of Nimenrix, injected intramuscularly into the left anterolateral thigh or into the left deltoid according to local requirements. | |
| Arm title | 12-14 months of age Control Group |
| Arm description: - | |
| Arm type | Active comparator |

| | |
|--|---|
| Investigational medicinal product name | Meningitec™ |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |
| Dosage and administration details: | |
| 1 dose of Meningitec™ at Day 0, intramuscularly into the left deltoid. | |
| Investigational medicinal product name | DTPa/Hib |
| Investigational medicinal product code | |
| Other name | GSK Biologicals' combined diphtheria, tetanus, acellular pertussis vaccine mixed with Haemophilus influenzae type |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |
| Dosage and administration details: | |
| 1 booster dose 1 months after the administration of Nimenrix, injected intramuscularly into the left anterolateral thigh or into the left deltoid according to local requirements. | |
| Arm title | 3-5 years of age Formulation 1 Group |
| Arm description: - | |
| Arm type | Experimental |
| Investigational medicinal product name | Nimenrix™ |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |
| Dosage and administration details: | |
| 1 dose of Nimenrix™ vaccine Formulation 1 at Day 0. | |
| Arm title | 3-5 years of age Formulation 2 Group |
| Arm description: - | |
| Arm type | Experimental |
| Investigational medicinal product name | Nimenrix™ |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |
| Dosage and administration details: | |
| 1 dose of Nimenrix™ vaccine Formulation 2 at Day 0. | |
| Arm title | 3-5 years of age Formulation 3 Group |
| Arm description: - | |
| Arm type | Experimental |
| Investigational medicinal product name | Nimenrix™ |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |
| Dosage and administration details: | |
| 1 dose of Nimenrix™ vaccine Formulation 3 at Day 0. | |
| Arm title | 3-5 years of age Formulation 4 Group |
| Arm description: - | |
| Arm type | Experimental |

| | |
|---|--------------------------------|
| Investigational medicinal product name | Nimenrix™ |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |
| Dosage and administration details: | |
| 1 dose of Nimenrix™ vaccine Formulation 4 at Day 0. | |
| Arm title | 3-5 years of age Control Group |
| Arm description: - | |
| Arm type | Active comparator |
| Investigational medicinal product name | Meningitec™ |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |
| Dosage and administration details: | |
| 1 dose of Meningitec™ at Day 0. | |

| Number of subjects in period 1 | 12-14 months of age Formulation 1 Group | 12-14 months of age Formulation 2 Group | 12-14 months of age Formulation 3 Group |
|---------------------------------------|---|---|---|
| Started | 48 | 48 | 48 |
| Completed at Visit 2 | 0 [1] | 0 [2] | 0 [3] |
| Completed at Visit 3 | 48 | 45 | 48 |
| Completed | 48 | 45 | 48 |
| Not completed | 0 | 3 | 0 |
| Other | - | 3 | - |

| Number of subjects in period 1 | 12-14 months of age Formulation 4 Group | 12-14 months of age Control Group | 3-5 years of age Formulation 1 Group |
|---------------------------------------|---|-----------------------------------|--------------------------------------|
| Started | 48 | 48 | 54 |
| Completed at Visit 2 | 0 [4] | 0 [5] | 53 |
| Completed at Visit 3 | 47 | 47 | 0 [6] |
| Completed | 47 | 47 | 53 |
| Not completed | 1 | 1 | 1 |
| Other | 1 | 1 | 1 |

| Number of subjects in period 1 | 3-5 years of age Formulation 2 Group | 3-5 years of age Formulation 3 Group | 3-5 years of age Formulation 4 Group |
|---------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Started | 53 | 54 | 54 |
| Completed at Visit 2 | 53 | 54 | 54 |
| Completed at Visit 3 | 0 [7] | 0 [8] | 0 [9] |
| Completed | 53 | 54 | 54 |
| Not completed | 0 | 0 | 0 |
| Other | - | - | - |

| Number of subjects in period 1 | 3-5 years of age Control Group |
|--------------------------------|-----------------------------------|
| Started | 53 |
| Completed at Visit 2 | 53 |
| Completed at Visit 3 | 0 ^[10] |
| Completed | 53 |
| Not completed | 0 |
| Other | - |

Notes:

[1] - The number of subjects at this milestone seems inconsistent with the number of subjects in the arm. It is expected that the number of subjects will be greater than, or equal to the number that completed, minus those who left.

Justification: The children (3-5 years) groups completed the study at Visit 2, while the toddlers (12-14 months) groups completed it at Visit 3.

[2] - The number of subjects at this milestone seems inconsistent with the number of subjects in the arm. It is expected that the number of subjects will be greater than, or equal to the number that completed, minus those who left.

Justification: The children (3-5 years) groups completed the study at Visit 2, while the toddlers (12-14 months) groups completed it at Visit 3.

[3] - The number of subjects at this milestone seems inconsistent with the number of subjects in the arm. It is expected that the number of subjects will be greater than, or equal to the number that completed, minus those who left.

Justification: The children (3-5 years) groups completed the study at Visit 2, while the toddlers (12-14 months) groups completed it at Visit 3.

[4] - The number of subjects at this milestone seems inconsistent with the number of subjects in the arm. It is expected that the number of subjects will be greater than, or equal to the number that completed, minus those who left.

Justification: The children (3-5 years) groups completed the study at Visit 2, while the toddlers (12-14 months) groups completed it at Visit 3.

[5] - The number of subjects at this milestone seems inconsistent with the number of subjects in the arm. It is expected that the number of subjects will be greater than, or equal to the number that completed, minus those who left.

Justification: The children (3-5 years) groups completed the study at Visit 2, while the toddlers (12-14 months) groups completed it at Visit 3.

[6] - The number of subjects at this milestone seems inconsistent with the number of subjects in the arm. It is expected that the number of subjects will be greater than, or equal to the number that completed, minus those who left.

Justification: The children (3-5 years) groups completed the study at Visit 2, while the toddlers (12-14 months) groups completed it at Visit 3.

[7] - The number of subjects at this milestone seems inconsistent with the number of subjects in the arm. It is expected that the number of subjects will be greater than, or equal to the number that completed, minus those who left.

Justification: The children (3-5 years) groups completed the study at Visit 2, while the toddlers (12-14 months) groups completed it at Visit 3.

[8] - The number of subjects at this milestone seems inconsistent with the number of subjects in the arm. It is expected that the number of subjects will be greater than, or equal to the number that completed, minus those who left.

Justification: The children (3-5 years) groups completed the study at Visit 2, while the toddlers (12-14 months) groups completed it at Visit 3.

[9] - The number of subjects at this milestone seems inconsistent with the number of subjects in the arm. It is expected that the number of subjects will be greater than, or equal to the number that completed, minus those who left.

Justification: The children (3-5 years) groups completed the study at Visit 2, while the toddlers (12-14 months) groups completed it at Visit 3.

[10] - The number of subjects at this milestone seems inconsistent with the number of subjects in the arm. It is expected that the number of subjects will be greater than, or equal to the number that completed, minus those who left.

Justification: The children (3-5 years) groups completed the study at Visit 2, while the toddlers (12-14 months) groups completed it at Visit 3.

Period 2

| | |
|------------------------------|-----------------------------|
| Period 2 title | Persistence/challenge study |
| Is this the baseline period? | No |
| Allocation method | Randomised - controlled |
| Blinding used | Not blinded |

Arms

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

| | |
|------------------|-------------------------------------|
| Arm title | 12-14 months of age Challenge Group |
|------------------|-------------------------------------|

Arm description: -

| | |
|--|-------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Mencevax™ ACWY |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

1/5 of a dose of Mencevax™ ACWY at Month 15

| | |
|------------------|-----------------------------------|
| Arm title | 12-14 months of age Control Group |
|------------------|-----------------------------------|

Arm description: -

| | |
|--|-------------------|
| Arm type | Active comparator |
| Investigational medicinal product name | Mencevax™ ACWY |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

The subjects in the toddler age stratum vaccinated with the selected MenACWY-TT formulation or with the control vaccine were given 1/5 of a dose of MenACWY at Month 15. MenACWY-TT vaccines were administered intramuscularly in the left deltoid.

| | |
|------------------|----------------------------------|
| Arm title | 3-5 years of age Challenge Group |
|------------------|----------------------------------|

Arm description: -

| | |
|---|-----------------|
| Arm type | No intervention |
| No investigational medicinal product assigned in this arm | |

| | |
|------------------|--------------------------------|
| Arm title | 3-5 years of age Control Group |
|------------------|--------------------------------|

Arm description: -

| | |
|---|-----------------|
| Arm type | No intervention |
| No investigational medicinal product assigned in this arm | |

| Number of subjects in period 2^[11] | 12-14 months of age Challenge Group | 12-14 months of age Control Group | 3-5 years of age Challenge Group |
|--|-------------------------------------|-----------------------------------|----------------------------------|
| Started | 42 | 43 | 50 |
| Completed | 42 | 42 | 50 |
| Not completed | 0 | 1 | 0 |
| Other | - | 1 | - |

| | |
|---------------------------------------|--------------------------------|
| Number of subjects in period 2 | 3-5 years of age Control Group |
|---------------------------------------|--------------------------------|

| | |
|---------------|----|
| [11] | |
| Started | 50 |
| Completed | 50 |
| Not completed | 0 |
| Other | - |

Notes:

[11] - The number of subjects starting the period is not consistent with the number completing the preceding period. It is expected the number of subjects starting the subsequent period will be the same as the number completing the preceding period.

Justification: Subjects not returning for a specific visit were not withdrawn and could participate in the subsequent follow-up phase. Actual enrollment differed depending on the rate of return for the follow-up phase, so not all enrolled subjects came to each visit.

Baseline characteristics

Reporting groups

| | |
|--------------------------------|---|
| Reporting group title | 12-14 months of age Formulation 1 Group |
| Reporting group description: - | |
| Reporting group title | 12-14 months of age Formulation 2 Group |
| Reporting group description: - | |
| Reporting group title | 12-14 months of age Formulation 3 Group |
| Reporting group description: - | |
| Reporting group title | 12-14 months of age Formulation 4 Group |
| Reporting group description: - | |
| Reporting group title | 12-14 months of age Control Group |
| Reporting group description: - | |
| Reporting group title | 3-5 years of age Formulation 1 Group |
| Reporting group description: - | |
| Reporting group title | 3-5 years of age Formulation 2 Group |
| Reporting group description: - | |
| Reporting group title | 3-5 years of age Formulation 3 Group |
| Reporting group description: - | |
| Reporting group title | 3-5 years of age Formulation 4 Group |
| Reporting group description: - | |
| Reporting group title | 3-5 years of age Control Group |
| Reporting group description: - | |

| Reporting group values | 12-14 months of age Formulation 1 Group | 12-14 months of age Formulation 2 Group | 12-14 months of age Formulation 3 Group |
|---|---|---|---|
| Number of subjects | 48 | 48 | 48 |
| 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 Units: months | | | |
| arithmetic mean standard deviation | 12.6 ± 0.79 | 12.5 ± 0.8 | 12.7 ± 0.84 |
| Gender categorical Units: Subjects | | | |
| Female | 20 | 25 | 25 |
| Male | 28 | 23 | 23 |

| Reporting group values | 12-14 months of age Formulation 4 Group | 12-14 months of age Control Group | 3-5 years of age Formulation 1 Group |
|---|---|-----------------------------------|--------------------------------------|
| Number of subjects | 48 | 48 | 54 |
| 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 Units: months | | | |
| arithmetic mean | 12.4 | 12.6 | 47.1 |
| standard deviation | ± 0.71 | ± 0.77 | ± 7.7 |
| Gender categorical Units: Subjects | | | |
| Female | 29 | 27 | 18 |
| Male | 19 | 21 | 36 |

| Reporting group values | 3-5 years of age Formulation 2 Group | 3-5 years of age Formulation 3 Group | 3-5 years of age Formulation 4 Group |
|---|--------------------------------------|--------------------------------------|--------------------------------------|
| Number of subjects | 53 | 54 | 54 |
| 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 Units: months | | | |
| arithmetic mean | 45.9 | 47.4 | 46.7 |
| standard deviation | ± 7.93 | ± 6.91 | ± 6.66 |
| Gender categorical Units: Subjects | | | |
| Female | 27 | 29 | 27 |
| Male | 26 | 25 | 27 |

| Reporting group values | 3-5 years of age Control Group | Total | |
|------------------------|--------------------------------|-------|--|
| Number of subjects | 53 | 508 | |

| | | | |
|---|--------|-----|--|
| Age categorical Units: Subjects | | | |
| In utero | | 0 | |
| Preterm newborn infants (gestational age < 37 wks) | | 0 | |
| Newborns (0-27 days) | | 0 | |
| Infants and toddlers (28 days-23 months) | | 0 | |
| Children (2-11 years) | | 0 | |
| Adolescents (12-17 years) | | 0 | |
| Adults (18-64 years) | | 0 | |
| From 65-84 years | | 0 | |
| 85 years and over | | 0 | |
| Age continuous Units: months | | | |
| arithmetic mean | 47.8 | | |
| standard deviation | ± 7.47 | - | |
| Gender categorical Units: Subjects | | | |
| Female | 28 | 255 | |
| Male | 25 | 253 | |

End points

End points reporting groups

| | |
|--------------------------------|---|
| Reporting group title | 12-14 months of age Formulation 1 Group |
| Reporting group description: - | |
| Reporting group title | 12-14 months of age Formulation 2 Group |
| Reporting group description: - | |
| Reporting group title | 12-14 months of age Formulation 3 Group |
| Reporting group description: - | |
| Reporting group title | 12-14 months of age Formulation 4 Group |
| Reporting group description: - | |
| Reporting group title | 12-14 months of age Control Group |
| Reporting group description: - | |
| Reporting group title | 3-5 years of age Formulation 1 Group |
| Reporting group description: - | |
| Reporting group title | 3-5 years of age Formulation 2 Group |
| Reporting group description: - | |
| Reporting group title | 3-5 years of age Formulation 3 Group |
| Reporting group description: - | |
| Reporting group title | 3-5 years of age Formulation 4 Group |
| Reporting group description: - | |
| Reporting group title | 3-5 years of age Control Group |
| Reporting group description: - | |
| Reporting group title | 12-14 months of age Challenge Group |
| Reporting group description: - | |
| Reporting group title | 12-14 months of age Control Group |
| Reporting group description: - | |
| Reporting group title | 3-5 years of age Challenge Group |
| Reporting group description: - | |
| Reporting group title | 3-5 years of age Control Group |
| Reporting group description: - | |

Primary: Number of subjects with an immune response to the serum bactericidal assay meningococcal serogroup A using rabbit complement (rSBA-MenA), rSBA-MenC, rSBA-MenW-135, rSBA-MenY

| | |
|--------------------------------------|--|
| End point title | Number of subjects with an immune response to the serum bactericidal assay meningococcal serogroup A using rabbit complement (rSBA-MenA), rSBA-MenC, rSBA-MenW-135, rSBA-MenY ^[1] |
| End point description: | |
| End point type | Primary |
| End point timeframe: | |
| One month after primary vaccination. | |
| 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: The scope of this primary endpoint was descriptive, no statistical analyses were conducted.

| End point values | 12-14 months of age Formulation 1 Group | 12-14 months of age Formulation 2 Group | 12-14 months of age Formulation 3 Group | 12-14 months of age Formulation 4 Group |
|--|---|---|---|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 43 | 41 | 42 | 41 |
| Units: Subjects | | | | |
| rSBA-MenA (N=36,35,36,35,31,34,37,40,36,31) | 36 | 35 | 35 | 34 |
| rSBA-MenC (N=43,40,41,41,45,47,47,47,49,32) | 42 | 39 | 40 | 39 |
| rSBA-MenW-135 (N=43,41,42,40,44,47,47,47,49,32) | 43 | 39 | 41 | 40 |
| rSBA-MenY (N=43,41,40,41,44,46,47,48,50,34) | 42 | 40 | 35 | 39 |

| End point values | 12-14 months of age Control Group | 3-5 years of age Formulation 1 Group | 3-5 years of age Formulation 2 Group | 3-5 years of age Formulation 3 Group |
|--|-----------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 45 | 47 | 47 | 48 |
| Units: Subjects | | | | |
| rSBA-MenA (N=36,35,36,35,31,34,37,40,36,31) | 3 | 31 | 34 | 37 |
| rSBA-MenC (N=43,40,41,41,45,47,47,47,49,32) | 41 | 46 | 46 | 44 |
| rSBA-MenW-135 (N=43,41,42,40,44,47,47,47,49,32) | 6 | 46 | 47 | 47 |
| rSBA-MenY (N=43,41,40,41,44,46,47,48,50,34) | 5 | 43 | 42 | 48 |

| End point values | 3-5 years of age Formulation 4 Group | 3-5 years of age Control Group | | |
|--|--------------------------------------|--------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 50 | 34 | | |
| Units: Subjects | | | | |
| rSBA-MenA (N=36,35,36,35,31,34,37,40,36,31) | 36 | 25 | | |
| rSBA-MenC (N=43,40,41,41,45,47,47,47,49,32) | 43 | 26 | | |
| rSBA-MenW-135 (N=43,41,42,40,44,47,47,47,49,32) | 43 | 31 | | |
| rSBA-MenY (N=43,41,40,41,44,46,47,48,50,34) | 49 | 27 | | |

Statistical analyses

Secondary: Number of subjects with rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY titers $\geq 1:8$

| | |
|--|---|
| End point title | Number of subjects with rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY titers $\geq 1:8$ |
| End point description: | |
| End point type | Secondary |
| End point timeframe: | |
| Prior to (PRE) and one month after (M1) the first vaccine dose | |

| End point values | 12-14 months of age Formulation 1 Group | 12-14 months of age Formulation 2 Group | 12-14 months of age Formulation 3 Group | 12-14 months of age Formulation 4 Group |
|---|--|--|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 44 | 41 | 43 | 42 |
| Units: Subjects | | | | |
| rSBA-MenA, PRE (N=37,35,37,35,37,34,39,40,36,31) | 10 | 13 | 19 | 18 |
| rSBA-MenA, M1 (N=44,41,42,42,39,48,46,49,50,33) | 44 | 41 | 42 | 42 |
| rSBA-MenC, PRE (N=44,40,42,41,45,47,47,49,32) | 7 | 9 | 3 | 4 |
| rSBA-MenC, M1 (N=44,41,42,42,46,48,48,49,50,34) | 43 | 41 | 42 | 42 |
| rSBA-MenW-135,PRE(N=44,41,42,40,45,47,47,47,45) | 17 | 8 | 15 | 13 |
| rSBA-MenW-135,M1 (N=44,41,43,42,45,48,48,49,50,34) | 44 | 41 | 43 | 42 |
| rSBA-MenY, PRE (N=44,41,41,41,45,46,47,48,50,34) | 24 | 16 | 24 | 20 |
| rSBA-MenY, M1 (N=44,41,42,42,45,48,48,49,50,34) | 44 | 41 | 42 | 42 |

| End point values | 12-14 months of age Control Group | 3-5 years of age Formulation 1 Group | 3-5 years of age Formulation 2 Group | 3-5 years of age Formulation 3 Group |
|---|--------------------------------------|---|---|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 46 | 48 | 48 | 49 |
| Units: Subjects | | | | |
| rSBA-MenA, PRE (N=37,35,37,35,37,34,39,40,36,31) | 7 | 30 | 38 | 32 |
| rSBA-MenA, M1 (N=44,41,42,42,39,48,46,49,50,33) | 14 | 48 | 46 | 49 |
| rSBA-MenC, PRE (N=44,40,42,41,45,47,47,49,32) | 4 | 11 | 11 | 11 |
| rSBA-MenC, M1 (N=44,41,42,42,46,48,48,49,50,34) | 45 | 48 | 48 | 49 |

| | | | | |
|---|----|----|----|----|
| rSBA-MenW-135,PRE(N=44,41,42,40,45,47,47,47,45) | 14 | 27 | 25 | 24 |
| rSBA-MenW-135,M1 (N=44,41,43,42,45,48,48,49,50,34) | 15 | 47 | 48 | 49 |
| rSBA-MenY, PRE (N=44,41,41,41,45,46,47,48,50,34) | 20 | 33 | 29 | 33 |
| rSBA-MenY, M1 (N=44,41,42,42,45,48,48,49,50,34) | 21 | 48 | 48 | 49 |

| End point values | 3-5 years of age Formulation 4 Group | 3-5 years of age Control Group | | |
|---|--|--------------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 50 | 34 | | |
| Units: Subjects | | | | |
| rSBA-MenA, PRE (N=37,35,37,35,37,34,39,40,36,31) | 31 | 22 | | |
| rSBA-MenA, M1 (N=44,41,42,42,39,48,46,49,50,33) | 50 | 33 | | |
| rSBA-MenC, PRE (N=44,40,42,41,45,47,47,47,49,32) | 10 | 11 | | |
| rSBA-MenC, M1 (N=44,41,42,42,46,48,48,49,50,34) | 50 | 33 | | |
| rSBA-MenW-135,PRE(N=44,41,42,40,45,47,47,47,45) | 20 | 17 | | |
| rSBA-MenW-135,M1 (N=44,41,43,42,45,48,48,49,50,34) | 50 | 34 | | |
| rSBA-MenY, PRE (N=44,41,41,41,45,46,47,48,50,34) | 30 | 22 | | |
| rSBA-MenY, M1 (N=44,41,42,42,45,48,48,49,50,34) | 50 | 34 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY titers $\geq 1:128$.

| | |
|-----------------|---|
| End point title | Number of subjects with rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY titers $\geq 1:128$. |
|-----------------|---|

End point description:

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

End point timeframe:

Prior to (PRE) and one month after (M1) the first vaccine dose

| End point values | 12-14 months of age Formulation 1 Group | 12-14 months of age Formulation 2 Group | 12-14 months of age Formulation 3 Group | 12-14 months of age Formulation 4 Group |
|--|--|--|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 44 | 41 | 43 | 42 |
| Units: Subjects | | | | |
| rSBA-MenA, PRE (N=37,35,37,35,37,34,39,40,36,31) | 6 | 10 | 18 | 16 |
| rSBA-MenA, M1 (N=44,41,42,42,39,48,46,49,50,33) | 44 | 41 | 42 | 42 |
| rSBA-MenC, PRE (N=44,40,42,41,45,47,47,47,49,32) | 2 | 2 | 1 | 3 |
| rSBA-MenC, M1 (N=44,41,42,42,46,48,48,49,50,34) | 40 | 38 | 40 | 37 |
| rSBA-MenW-135,PRE (N=44,41,42,40,45,47,47,47,45,32) | 3 | 3 | 4 | 5 |
| rSBA-MenW-135,M1 (N=44,41,43,42,45,48,48,49,50,34) | 44 | 41 | 43 | 42 |
| rSBA-MenY, PRE (N=44,41,41,41,45,46,47,48,50,34) | 12 | 12 | 14 | 11 |
| rSBA-MenY, M1(N=44,41,42,42,45,48,48,49,50,34) | 44 | 40 | 42 | 42 |

| End point values | 12-14 months of age Control Group | 3-5 years of age Formulation 1 Group | 3-5 years of age Formulation 2 Group | 3-5 years of age Formulation 3 Group |
|--|--------------------------------------|---|---|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 46 | 48 | 48 | 49 |
| Units: Subjects | | | | |
| rSBA-MenA, PRE (N=37,35,37,35,37,34,39,40,36,31) | 7 | 26 | 38 | 32 |
| rSBA-MenA, M1 (N=44,41,42,42,39,48,46,49,50,33) | 14 | 48 | 46 | 49 |
| rSBA-MenC, PRE (N=44,40,42,41,45,47,47,47,49,32) | 1 | 4 | 5 | 9 |
| rSBA-MenC, M1 (N=44,41,42,42,46,48,48,49,50,34) | 40 | 47 | 48 | 48 |
| rSBA-MenW-135,PRE (N=44,41,42,40,45,47,47,47,45,32) | 5 | 9 | 14 | 12 |
| rSBA-MenW-135,M1 (N=44,41,43,42,45,48,48,49,50,34) | 10 | 47 | 48 | 49 |
| rSBA-MenY, PRE (N=44,41,41,41,45,46,47,48,50,34) | 10 | 21 | 22 | 25 |
| rSBA-MenY, M1(N=44,41,42,42,45,48,48,49,50,34) | 15 | 48 | 48 | 49 |

| End point values | 3-5 years of age Formulation 4 Group | 3-5 years of age Control Group | | |
|-----------------------------|---|-----------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 50 | 45 | | |

| Units: Subjects | | | | |
|--|----|----|--|--|
| rSBA-MenA, PRE (N=37,35,37,35,37,34,39,40,36,31) | 30 | 22 | | |
| rSBA-MenA, M1 (N=44,41,42,42,39,48,46,49,50,33) | 50 | 33 | | |
| rSBA-MenC, PRE (N=44,40,42,41,45,47,47,47,49,32) | 7 | 6 | | |
| rSBA-MenC, M1 (N=44,41,42,42,46,48,48,49,50,34) | 48 | 30 | | |
| rSBA-MenW-135,PRE (N=44,41,42,40,45,47,47,47,45,32) | 13 | 8 | | |
| rSBA-MenW-135,M1 (N=44,41,43,42,45,48,48,49,50,34) | 50 | 34 | | |
| rSBA-MenY, PRE (N=44,41,41,41,45,46,47,48,50,34) | 22 | 17 | | |
| rSBA-MenY, M1(N=44,41,42,42,45,48,48,49,50,34) | 50 | 33 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY antibody titers

| | |
|-----------------|---|
| End point title | rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY antibody titers |
|-----------------|---|

End point description:

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

End point timeframe:

Prior to (PRE) and one month after (M1) the first vaccine dose

| End point values | 12-14 months of age Formulation 1 Group | 12-14 months of age Formulation 2 Group | 12-14 months of age Formulation 3 Group | 12-14 months of age Formulation 4 Group |
|--|---|---|---|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 44 | 41 | 43 | 42 |
| Units: Titers | | | | |
| geometric mean (confidence interval 95%) | | | | |
| rSBA-MenA, PRE (N=37,35,37,35,37,34,39,40,36,31) | 11.2 (6.2 to 20.1) | 17.1 (8.5 to 34.5) | 44.1 (19.5 to 99.6) | 41.2 (18.2 to 93) |
| rSBA-MenA, M1 (N=44,41,42,42,39,48,46,49,50,33) | 4050.6 (3087.4 to 5314.3) | 6060.2 (4447 to 8258.6) | 5665.2 (4086 to 7854.9) | 4859.8 (3488.7 to 6769.8) |
| rSBA-MenC, PRE (N=44,40,42,41,45,47,47,47,49,32) | 6.4 (4.6 to 8.9) | 7.8 (5.2 to 11.9) | 5.4 (3.8 to 7.8) | 6 (4 to 9) |
| rSBA-MenC, M1 (N=44,41,42,42,46,48,48,49,50,34) | 536.8 (365.8 to 787.7) | 1075.3 (744.4 to 1553.2) | 983.5 (718.7 to 1345.9) | 543.9 (380.9 to 776.8) |
| rSBA-MenW-135,PRE (N=44,41,42,40,45,47,47,47,45,32) | 12.6 (7.8 to 20.3) | 7.9 (5 to 12.4) | 12 (7.4 to 19.4) | 11.4 (6.9 to 18.9) |

| | | | | |
|---|---------------------------|---------------------------|---------------------------|---------------------------|
| rSBA-MenW-135,M1 (N=44,41,43,42,45,48,48,49,50,34) | 3389.6 (2581.6 to 4450.4) | 2665.9 (1985.9 to 3578.8) | 3975.2 (3065.7 to 5154.5) | 3240.7 (2375.9 to 4420.4) |
| rSBA-MenY, PRE (N=44,41,41,41,45,46,47,48,50,34) | 27 (15.1 to 48.3) | 19.4 (10 to 37.7) | 42.1 (21.2 to 83.8) | 23.9 (12.5 to 46) |
| rSBA-MenY, M1(N=44,41,42,42,45,48,48,49,50,34) | 2010.3 (1458.8 to 2770.3) | 2196.3 (1510 to 3194.5) | 2295.1 (1701.5 to 3095.8) | 2006.5 (1477 to 2725.9) |

| End point values | 12-14 months of age Control Group | 3-5 years of age Formulation 1 Group | 3-5 years of age Formulation 2 Group | 3-5 years of age Formulation 3 Group |
|--|-----------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 46 | 48 | 48 | 49 |
| Units: Titers | | | | |
| geometric mean (confidence interval 95%) | | | | |
| rSBA-MenA, PRE (N=37,35,37,35,37,34,39,40,36,31) | 9.1 (5.1 to 16.3) | 236.6 (129.6 to 432.2) | 441.3 (317.6 to 613.2) | 192.8 (100.1 to 371.4) |
| rSBA-MenA, M1 (N=44,41,42,42,39,48,46,49,50,33) | 20.5 (9.7 to 43.3) | 7223.8 (5905 to 8837.1) | 9287.4 (7177.6 to 12017.4) | 8299.4 (6734.2 to 10228.4) |
| rSBA-MenC, PRE (N=44,40,42,41,45,47,47,47,49,32) | 5.3 (4 to 7) | 8.2 (5.4 to 12.4) | 8.8 (5.5 to 13.9) | 10.1 (6.1 to 16.9) |
| rSBA-MenC, M1 (N=44,41,42,42,46,48,48,49,50,34) | 372.5 (257.7 to 538.4) | 1325.4 (954.9 to 1839.7) | 1951.1 (1402 to 2715.1) | 1577.8 (1123.5 to 2215.9) |
| rSBA-MenW-135,PRE (N=44,41,42,40,45,47,47,47,45,32) | 10.8 (6.7 to 17.4) | 25.2 (15.4 to 41.4) | 27.7 (15.6 to 49.3) | 22.9 (13.3 to 39.4) |
| rSBA-MenW-135,M1 (N=44,41,43,42,45,48,48,49,50,34) | 14.6 (8 to 26.6) | 4736.7 (3302 to 6794.9) | 6400.6 (5037.9 to 8132) | 5987.2 (4846.9 to 7395.7) |
| rSBA-MenY, PRE (N=44,41,41,41,45,46,47,48,50,34) | 21 (11.3 to 39) | 73.1 (38.8 to 137.5) | 62.8 (31.4 to 125.4) | 80.3 (42.5 to 151.7) |
| rSBA-MenY, M1(N=44,41,42,42,45,48,48,49,50,34) | 27.8 (14 to 55.3) | 4456.2 (3489.7 to 5690.4) | 4670.4 (3541.9 to 6158.4) | 6433 (4921 to 8409.6) |

| End point values | 3-5 years of age Formulation 4 Group | 3-5 years of age Control Group | | |
|---|--------------------------------------|--------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 50 | 45 | | |
| Units: Titers | | | | |
| geometric mean (confidence interval 95%) | | | | |
| rSBA-MenA, PRE (N=37,35,37,35,37,34,39,40,36,31) | 277.2 (147 to 522.7) | 139 (56.7 to 341.1) | | |
| rSBA-MenA, M1 (N=44,41,42,42,39,48,46,49,50,33) | 9980.3 (8019.4 to 12420.7) | 3798.4 (2888.9 to 4994.2) | | |
| rSBA-MenC, PRE (N=44,40,42,41,45,47,47,47,49,32) | 9.3 (5.5 to 15.6) | 14.1 (7.1 to 28.1) | | |

| | | | | |
|--|---------------------------|---------------------------|--|--|
| rSBA-MenC, M1 (N=44,41,42,42,46,48,48,49,50,34) | 1495.8 (1093.4 to 2046.3) | 445.4 (263.3 to 753.3) | | |
| rSBA-MenW-135,PRE (N=44,41,42,40,45,47,47,47,45,32) | 20.8 (11.6 to 37.4) | 24.4 (12.6 to 47.2) | | |
| rSBA-MenW-135,M1 (N=44,41,43,42,45,48,48,49,50,34) | 7123.1 (5960.2 to 8512.9) | 1811.1 (1233.3 to 2659.5) | | |
| rSBA-MenY, PRE (N=44,41,41,41,45,46,47,48,50,34) | 52.3 (27.2 to 100.4) | 61 (27.5 to 135.2) | | |
| rSBA-MenY, M1(N=44,41,42,42,45,48,48,49,50,34) | 6042.4 (4720.2 to 7734.9) | 1435.5 (972.6 to 2118.7) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with Anti-polysaccharide A (PSA), anti-PSC, anti-PSW-135 and anti- PSY antibody concentrations $\geq 0.3 \mu\text{g/mL}$

| | |
|-----------------|--|
| End point title | Number of subjects with Anti-polysaccharide A (PSA), anti-PSC, anti- PSW-135 and anti- PSY antibody concentrations $\geq 0.3 \mu\text{g/mL}$ |
|-----------------|--|

End point description:

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

End point timeframe:

Prior to (PRE) and one month after (M1) the first vaccine dose

| End point values | 12-14 months of age Formulation 1 Group | 12-14 months of age Formulation 2 Group | 12-14 months of age Formulation 3 Group | 12-14 months of age Formulation 4 Group |
|--|---|---|---|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 46 | 40 | 43 | 41 |
| Units: Subjects | | | | |
| Anti-PSA, PRE (N=43,36,37,38,43,42,42,46,46,30) | 1 | 3 | 2 | 0 |
| Anti-PSC, PRE (N=43,36,38,41,43,44,43,47,47,30) | 0 | 1 | 0 | 1 |
| Anti-PSW-135, PRE (N=39,35,35,37,39,42,41,44,47,29) | 1 | 2 | 0 | 0 |
| Anti-PSY, PRE (N=42,38,39,40,42,45,45,45,49,31) | 2 | 0 | 0 | 2 |
| Anti-PSA, M1 (N=46,39,43,40,43,48,47,49,49,34) | 46 | 39 | 43 | 40 |
| Anti-PSC, M1 (N=46,40,43,41,45,46,47,49,50,34) | 46 | 40 | 43 | 41 |
| Anti-PSW-135, M1 (N=44,38,40,39,40,44,45,48,48,33) | 43 | 37 | 40 | 39 |
| Anti-PSY, M1 (N=44,40,39,41,42,47,46,49,49,34) | 43 | 39 | 39 | 41 |

| End point values | 12-14 months of age Control Group | 3-5 years of age Formulation 1 Group | 3-5 years of age Formulation 2 Group | 3-5 years of age Formulation 3 Group |
|--|-----------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 45 | 48 | 46 | 49 |
| Units: Subjects | | | | |
| Anti-PSA, PRE (N=43,36,37,38,43,42,42,46,46,30) | 2 | 7 | 8 | 6 |
| Anti-PSC, PRE (N=43,36,38,41,43,44,43,47,47,30) | 2 | 2 | 0 | 2 |
| Anti-PSW-135, PRE (N=39,35,35,37,39,42,41,44,47,29) | 0 | 1 | 1 | 0 |
| Anti-PSY, PRE (N=42,38,39,40,42,45,45,49,31) | 1 | 0 | 1 | 1 |
| Anti-PSA, M1 (N=46,39,43,40,43,48,47,49,49,34) | 3 | 47 | 47 | 49 |
| Anti-PSC, M1 (N=46,40,43,41,45,46,47,49,50,34) | 44 | 46 | 47 | 49 |
| Anti-PSW-135, M1 (N=44,38,40,39,40,44,45,48,48,33) | 0 | 43 | 44 | 48 |
| Anti-PSY, M1 (N=44,40,39,41,42,47,46,49,49,34) | 3 | 46 | 46 | 49 |

| End point values | 3-5 years of age Formulation 4 Group | 3-5 years of age Control Group | | |
|--|--------------------------------------|--------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 50 | 34 | | |
| Units: Subjects | | | | |
| Anti-PSA, PRE (N=43,36,37,38,43,42,42,46,46,30) | 7 | 5 | | |
| Anti-PSC, PRE (N=43,36,38,41,43,44,43,47,47,30) | 4 | 5 | | |
| Anti-PSW-135, PRE (N=39,35,35,37,39,42,41,44,47,29) | 1 | 0 | | |
| Anti-PSY, PRE (N=42,38,39,40,42,45,45,49,31) | 3 | 2 | | |
| Anti-PSA, M1 (N=46,39,43,40,43,48,47,49,49,34) | 49 | 34 | | |
| Anti-PSC, M1 (N=46,40,43,41,45,46,47,49,50,34) | 50 | 34 | | |
| Anti-PSW-135, M1 (N=44,38,40,39,40,44,45,48,48,33) | 48 | 33 | | |
| Anti-PSY, M1 (N=44,40,39,41,42,47,46,49,49,34) | 49 | 34 | | |

Statistical analyses

Secondary: Number of subjects with Anti-polysaccharide A (PSA), anti-PSC, anti-PSW-135 and anti- PSY antibody concentrations ≥ 2.0 $\mu\text{g/mL}$

| | |
|-----------------|--|
| End point title | Number of subjects with Anti-polysaccharide A (PSA), anti-PSC, anti- PSW-135 and anti- PSY antibody concentrations ≥ 2.0 $\mu\text{g/mL}$ |
|-----------------|--|

End point description:

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

End point timeframe:

Prior to (PRE) and one month after (M1) the first vaccine dose

| End point values | 12-14 months of age Formulation 1 Group | 12-14 months of age Formulation 2 Group | 12-14 months of age Formulation 3 Group | 12-14 months of age Formulation 4 Group |
|---|---|---|---|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 46 | 40 | 43 | 41 |
| Units: Subjects | | | | |
| Anti-PSA, PRE (N=43,36,37,38,43,42,42,46,46,30) | 0 | 0 | 0 | 0 |
| Anti-PSC, PRE (N=43,36,38,41,43,44,43,47,47,30) | 0 | 1 | 0 | 0 |
| Anti-PSW-135, PRE(N=39,35,35,37,39,42,41,44,47,29) | 0 | 0 | 0 | 0 |
| Anti-PSY, PRE (N=42,38,39,40,42,45,45,49,31) | 0 | 0 | 0 | 0 |
| Anti-PSA, M1 (N=46,39,43,40,43,48,47,49,49,34) | 45 | 39 | 43 | 40 |
| Anti-PSC, M1 (N=46,40,43,41,45,46,47,49,50,34) | 45 | 40 | 42 | 41 |
| Anti-PSW-135, M1 (N=44,38,40,39,40,44,45,48,48,33) | 31 | 28 | 36 | 36 |
| Anti-PSY, M1 (N=44,40,39,41,42,47,46,49,49,34) | 36 | 35 | 37 | 40 |

| End point values | 12-14 months of age Control Group | 3-5 years of age Formulation 1 Group | 3-5 years of age Formulation 2 Group | 3-5 years of age Formulation 3 Group |
|---|---|--|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 45 | 48 | 47 | 49 |
| Units: Subjects | | | | |
| Anti-PSA, PRE (N=43,36,37,38,43,42,42,46,46,30) | 0 | 2 | 3 | 2 |
| Anti-PSC, PRE (N=43,36,38,41,43,44,43,47,47,30) | 0 | 1 | 0 | 1 |
| Anti-PSW-135, PRE(N=39,35,35,37,39,42,41,44,47,29) | 0 | 0 | 0 | 0 |
| Anti-PSY, PRE (N=42,38,39,40,42,45,45,49,31) | 0 | 0 | 0 | 0 |

| | | | | |
|---|----|----|----|----|
| Anti-PSA, M1 (N=46,39,43,40,43,48,47,49,49,34) | 1 | 45 | 47 | 49 |
| Anti-PSC, M1 (N=46,40,43,41,45,46,47,49,50,34) | 42 | 42 | 47 | 49 |
| Anti-PSW-135, M1 (N=44,38,40,39,40,44,45,48,48,33) | 0 | 31 | 29 | 39 |
| Anti-PSY, M1 (N=44,40,39,41,42,47,46,49,49,34) | 1 | 39 | 40 | 44 |

| End point values | 3-5 years of age Formulation 4 Group | 3-5 years of age Control Group | | |
|---|--|--------------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 50 | 34 | | |
| Units: Subjects | | | | |
| Anti-PSA, PRE (N=43,36,37,38,43,42,42,46,46,30) | 3 | 1 | | |
| Anti-PSC, PRE (N=43,36,38,41,43,44,43,47,47,30) | 2 | 1 | | |
| Anti-PSW-135, PRE(N=39,35,35,37,39,42,41,44,47,29) | 1 | 0 | | |
| Anti-PSY, PRE (N=42,38,39,40,42,45,45,45,49,31) | 1 | 1 | | |
| Anti-PSA, M1 (N=46,39,43,40,43,48,47,49,49,34) | 49 | 32 | | |
| Anti-PSC, M1 (N=46,40,43,41,45,46,47,49,50,34) | 50 | 33 | | |
| Anti-PSW-135, M1 (N=44,38,40,39,40,44,45,48,48,33) | 45 | 28 | | |
| Anti-PSY, M1 (N=44,40,39,41,42,47,46,49,49,34) | 48 | 33 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Anti-polysaccharide A (PSA), anti-PSC, anti- PSW-135 and anti-PSY antibody concentrations

| | |
|-----------------|---|
| End point title | Anti-polysaccharide A (PSA), anti-PSC, anti- PSW-135 and anti-PSY antibody concentrations |
|-----------------|---|

End point description:

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

End point timeframe:

Prior to (PRE) and one month after (M1) the first vaccine dose

| End point values | 12-14 months of age Formulation 1 Group | 12-14 months of age Formulation 2 Group | 12-14 months of age Formulation 3 Group | 12-14 months of age Formulation 4 Group |
|---|--|--|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 46 | 40 | 40 | 41 |
| Units: µg/mL | | | | |
| geometric mean (confidence interval 95%) | | | | |
| Anti-PSA, PRE (N=43,36,37,38,43,42,42,46,46,30) | 0.15 (0.15 to 0.16) | 0.17 (0.14 to 0.21) | 0.16 (0.14 to 0.18) | 0.15 (0.15 to 0.15) |
| Anti-PSC, PRE (N=43,36,38,41,43,44,43,47,47,30) | 0.15 (0.15 to 0.15) | 0.16 (0.14 to 0.19) | 0.15 (0.15 to 0.15) | 0.15 (0.15 to 0.16) |
| Anti-PSW-135, PRE(N=39,35,35,37,39,42,41,44,47,29) | 0.15 (0.15 to 0.16) | 0.16 (0.14 to 0.19) | 0.15 (0.15 to 0.15) | 0.15 (0.15 to 0.15) |
| Anti-PSY, PRE (N=42,38,39,40,42,45,45,45,49,31) | 0.16 (0.15 to 0.17) | 0.15 (0.15 to 0.15) | 0.15 (0.15 to 0.15) | 0.16 (0.14 to 0.18) |
| Anti-PSA, M1 (N=46,39,43,40,43,48,47,49,49,34) | 17.24 (12.8 to 23.21) | 28.83 (20.85 to 39.86) | 37.27 (29.31 to 47.4) | 35.37 (27.39 to 45.68) |
| Anti-PSC, M1 (N=46,40,43,41,45,46,47,49,50,34) | 10.49 (8.17 to 13.48) | 18.88 (14.96 to 23.82) | 20.66 (16.66 to 25.61) | 13.26 (10.48 to 16.78) |
| Anti-PSW-135, M1 (N=44,38,40,39,40,44,45,48,48,33) | 3.38 (2.49 to 4.57) | 4.02 (2.91 to 5.56) | 6.81 (5.07 to 9.14) | 6.31 (4.9 to 8.13) |
| Anti-PSY, M1 (N=44,40,39,41,42,47,46,49,49,34) | 6.64 (4.63 to 9.52) | 6.12 (4.17 to 8.98) | 10.89 (8.08 to 14.69) | 9.61 (6.97 to 13.25) |

| End point values | 12-14 months of age Control Group | 3-5 years of age Formulation 1 Group | 3-5 years of age Formulation 2 Group | 3-5 years of age Formulation 3 Group |
|---|--------------------------------------|---|---|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 45 | 48 | 47 | 49 |
| Units: µg/mL | | | | |
| geometric mean (confidence interval 95%) | | | | |
| Anti-PSA, PRE (N=43,36,37,38,43,42,42,46,46,30) | 0.16 (0.14 to 0.18) | 0.2 (0.16 to 0.26) | 0.24 (0.17 to 0.34) | 0.19 (0.16 to 0.24) |
| Anti-PSC, PRE (N=43,36,38,41,43,44,43,47,47,30) | 0.17 (0.14 to 0.19) | 0.16 (0.14 to 0.19) | 0.15 (0.15 to 0.15) | 0.16 (0.14 to 0.19) |
| Anti-PSW-135, PRE(N=39,35,35,37,39,42,41,44,47,29) | 0.15 (0.15 to 0.15) | 0.15 (0.15 to 0.17) | 0.16 (0.14 to 0.17) | 0.15 (0.15 to 0.15) |
| Anti-PSY, PRE (N=42,38,39,40,42,45,45,45,49,31) | 0.15 (0.15 to 0.16) | 0.15 (0.15 to 0.15) | 0.16 (0.14 to 0.18) | 0.15 (0.15 to 0.16) |
| Anti-PSA, M1 (N=46,39,43,40,43,48,47,49,49,34) | 0.17 (0.14 to 0.2) | 18.15 (12.2 to 27) | 29.71 (22.82 to 38.68) | 29.25 (22.57 to 37.9) |
| Anti-PSC, M1 (N=46,40,43,41,45,46,47,49,50,34) | 8.01 (6.01 to 10.67) | 7.43 (5.71 to 9.68) | 10.81 (8.89 to 13.14) | 13.12 (10.27 to 16.76) |
| Anti-PSW-135, M1 (N=44,38,40,39,40,44,45,48,48,33) | 0.15 (0.15 to 0.15) | 3.88 (2.69 to 5.58) | 3.24 (2.25 to 4.65) | 4.07 (3.16 to 5.23) |
| Anti-PSY, M1 (N=44,40,39,41,42,47,46,49,49,34) | 0.18 (0.14 to 0.23) | 5.48 (3.96 to 7.59) | 6.52 (4.67 to 9.12) | 9.15 (6.77 to 12.37) |

| End point values | 3-5 years of age Formulation 4 Group | 3-5 years of age Control Group | | |
|------------------|---|-----------------------------------|--|--|
|------------------|---|-----------------------------------|--|--|

| | Group | | | |
|--|------------------------|-----------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 50 | 34 | | |
| Units: µg/mL | | | | |
| geometric mean (confidence interval 95%) | | | | |
| Anti-PSA, PRE (N=43,36,37,38,43,42,42,46,46,30) | 0.22 (0.16 to 0.3) | 0.2 (0.14 to 0.3) | | |
| Anti-PSC, PRE (N=43,36,38,41,43,44,43,47,47,30) | 0.19 (0.15 to 0.24) | 0.22 (0.16 to 0.3) | | |
| Anti-PSW-135, PRE (N=39,35,35,37,39,42,41,44,47,29) | 0.16 (0.14 to 0.19) | 0.15 (0.15 to 0.15) | | |
| Anti-PSY, PRE (N=42,38,39,40,42,45,45,45,49,31) | 0.17 (0.14 to 0.21) | 0.17 (0.14 to 0.21) | | |
| Anti-PSA, M1 (N=46,39,43,40,43,48,47,49,49,34) | 39.4 (30.83 to 50.36) | 11.43 (7.73 to 16.89) | | |
| Anti-PSC, M1 (N=46,40,43,41,45,46,47,49,50,34) | 11.09 (8.87 to 13.87) | 11.44 (8.35 to 15.67) | | |
| Anti-PSW-135, M1 (N=44,38,40,39,40,44,45,48,48,33) | 7.03 (5.33 to 9.27) | 6.68 (4.3 to 10.38) | | |
| Anti-PSY, M1 (N=44,40,39,41,42,47,46,49,49,34) | 15.06 (10.65 to 21.28) | 14.07 (8.9 to 22.25) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with anti-tetanus (anti-T) antibody titers ≥ 0.1 IU/mL

| | |
|-----------------|---|
| End point title | Number of subjects with anti-tetanus (anti-T) antibody titers ≥ 0.1 IU/mL |
|-----------------|---|

End point description:

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

End point timeframe:

Prior to (PRE) and one month after (M1) the first vaccine dose

| End point values | 12-14 months of age Formulation 1 Group | 12-14 months of age Formulation 2 Group | 12-14 months of age Formulation 3 Group | 12-14 months of age Formulation 4 Group |
|--|---|---|---|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 46 | 41 | 43 | 42 |
| Units: Subjects | | | | |
| Anti-T, PRE (N=46,41,43,42,45,46,48,48,51,33) | 45 | 37 | 39 | 38 |
| Anti-T, M1 (N=46,41,43,41,44,48,48,49,50,34) | 46 | 41 | 43 | 41 |

| End point values | 12-14 months of age Control Group | 3-5 years of age Formulation 1 Group | 3-5 years of age Formulation 2 Group | 3-5 years of age Formulation 3 Group |
|--|-----------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 45 | 48 | 48 | 49 |
| Units: Subjects | | | | |
| Anti-T, PRE (N=46,41,43,42,45,46,48,48,51,33) | 41 | 41 | 43 | 42 |
| Anti-T, M1 (N=46,41,43,41,44,48,48,49,50,34) | 39 | 48 | 48 | 49 |

| End point values | 3-5 years of age Formulation 4 Group | 3-5 years of age Control Group | | |
|--|--------------------------------------|--------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 51 | 34 | | |
| Units: Subjects | | | | |
| Anti-T, PRE (N=46,41,43,42,45,46,48,48,51,33) | 49 | 28 | | |
| Anti-T, M1 (N=46,41,43,41,44,48,48,49,50,34) | 50 | 29 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Anti-tetanus (anti-T) antibody concentrations

| | |
|------------------------|---|
| End point title | Anti-tetanus (anti-T) antibody concentrations |
| End point description: | |

| | |
|--|-----------|
| End point type | Secondary |
| End point timeframe: | |
| Prior to (PRE) and one month after (M1) the first vaccine dose | |

| End point values | 12-14 months of age Formulation 1 Group | 12-14 months of age Formulation 2 Group | 12-14 months of age Formulation 3 Group | 12-14 months of age Formulation 4 Group |
|--------------------------------------|---|---|---|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 46 | 41 | 43 | 42 |
| Units: IU/mL | | | | |
| geometric mean (confidence interval) | | | | |

| | | | | |
|--|---------------------------|---------------------------|---------------------------|---------------------------|
| 95%) | | | | |
| Anti-T, PRE (N=46,41,43,42,45,46,48,48,51,33) | 0.622 (0.457 to 0.847) | 0.555 (0.385 to 0.799) | 0.428 (0.307 to 0.596) | 0.366 (0.26 to 0.514) |
| Anti-T, M1 (N=46,41,43,41,44,48,48,49,50,34) | 6.026 (4.249 to 8.546) | 6.358 (4.267 to 9.474) | 6.456 (4.325 to 9.638) | 3.553 (2.348 to 5.378) |

| End point values | 12-14 months of age Control Group | 3-5 years of age Formulation 1 Group | 3-5 years of age Formulation 2 Group | 3-5 years of age Formulation 3 Group |
|--|---|---|---|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 45 | 48 | 48 | 49 |
| Units: IU/mL | | | | |
| geometric mean (confidence interval 95%) | | | | |
| Anti-T, PRE (N=46,41,43,42,45,46,48,48,51,33) | 0.464 (0.329 to 0.654) | 0.581 (0.395 to 0.854) | 0.659 (0.449 to 0.967) | 0.47 (0.335 to 0.659) |
| Anti-T, M1 (N=46,41,43,41,44,48,48,49,50,34) | 0.423 (0.29 to 0.618) | 11.786 (8.711 to 15.947) | 18.722 (13.704 to 25.576) | 16.696 (12.732 to 21.894) |

| End point values | 3-5 years of age Formulation 4 Group | 3-5 years of age Control Group | | |
|--|---|--------------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 51 | 34 | | |
| Units: IU/mL | | | | |
| geometric mean (confidence interval 95%) | | | | |
| Anti-T, PRE (N=46,41,43,42,45,46,48,48,51,33) | 0.465 (0.357 to 0.605) | 0.363 (0.238 to 0.555) | | |
| Anti-T, M1 (N=46,41,43,41,44,48,48,49,50,34) | 13.877 (10.424 to 18.474) | 0.352 (0.239 to 0.52) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with serum bactericidal assay using human complement (hSBA-MenA, hSBA-MenC ,hSBA-MenW-135, hSBA-MenY) titers ≥ 1:4

| | |
|-----------------|--|
| End point title | Number of subjects with serum bactericidal assay using human complement (hSBA-MenA, hSBA-MenC ,hSBA-MenW-135, hSBA-MenY) titers ≥ 1:4 ^[2] |
|-----------------|--|

End point description:

The hSBA-MenA and hSBA-MenW-135 assays were performed using 2 bacterial strains. For the hSBA-MenA assay, strains with an L10 and L11 immunotype were used. For the hSBA-MenW-135 assay, the 3193 and MP01240070 (referred to as MP) strains were used.

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

End point timeframe:

Prior to (PRE) and 1 month after (M1) the vaccine dose and 15 months after priming (M15)

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: The endpoint analysis was based only on subjects of the control groups and all subjects in the group that received Nimenrix formulation 3.

| End point values | 12-14 months of age Formulation 3 Group | 12-14 months of age Control Group | 3-5 years of age Formulation 3 Group | 3-5 years of age Control Group |
|---|--|-----------------------------------|---|--------------------------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 36 | 43 | 38 | 29 |
| Units: Subjects | | | | |
| hSBA-MenA L10, Pre (N=36,42,38,29) | 2 | 3 | 6 | 4 |
| hSBA-MenA L11, PRE (N=30,34,38,27) | 0 | 1 | 0 | 0 |
| hSBA-MenC, PRE (N=12,14,20,12) | 1 | 1 | 5 | 7 |
| hSBA-MenW-135 MP, PRE (N=34,40,34,23) | 2 | 0 | 6 | 2 |
| hSBA-MenW-135 3193, PRE (N=31,35,34,23) | 0 | 0 | 3 | 1 |
| hSBA-MenY, PRE (N=33,43,38,28) | 2 | 4 | 7 | 7 |
| hSBA-MenA L10, M1 (N=26,30,37,24) | 24 | 4 | 31 | 10 |
| hSBA-MenA L11, M1 (N=22,28,25,24) | 21 | 1 | 19 | 7 |
| hSBA-MenC, M1 (N=11,12,19,12) | 11 | 10 | 18 | 11 |
| hSBA-MenW-135 MP, M1 (N=24,28,30,16) | 20 | 0 | 26 | 10 |
| hSBA-MenW-135 3193, M1 (N=26,27,31,21) | 15 | 0 | 18 | 10 |
| hSBA-MenY, M1 (N=26,31,33,25) | 20 | 2 | 30 | 14 |
| hSBA-MenA, M15 (N=18,20,24,14) | 4 | 1 | 5 | 1 |
| hSBA-MenC, M15 (N=27,27,35,22) | 26 | 18 | 33 | 17 |
| hSBA-MenW-135, M15 (N=18,16,24,6) | 18 | 0 | 23 | 2 |
| hSBA-MenY, M15 (N=26,25,32,19) | 25 | 3 | 29 | 12 |

Statistical analyses

No statistical analyses for this end point

Secondary: hSBA-MenA, hSBA-MenC, hSBA-MenW-135 and hSBA-MenY titers

| | |
|-----------------|---|
| End point title | hSBA-MenA, hSBA-MenC, hSBA-MenW-135 and hSBA-MenY titers ^[3] |
|-----------------|---|

End point description:

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

End point timeframe:

Prior to and 1 month after the vaccine dose and 15 months after priming

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: The endpoint analysis was based only on subjects of the control groups and all subjects in the group that received Nimenrix formulation 3.

| End point values | 12-14 months of age Formulation 3 Group | 12-14 months of age Control Group | 3-5 years of age Formulation 3 Group | 3-5 years of age Control Group |
|--|--|-----------------------------------|---|--------------------------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 36 | 43 | 38 | 29 |
| Units: Titers | | | | |
| geometric mean (confidence interval 95%) | | | | |
| hSBA-MenA L10, Pre (N=36,42,38,29) | 2.1 (1.9 to 2.4) | 2.1 (2 to 2.3) | 2.7 (2.1 to 3.4) | 3.2 (2 to 5) |
| hSBA-MenA L11, PRE (N=30,34,38,27) | 2 (2 to 2) | 2.1 (1.9 to 2.2) | 2 (2 to 2) | 2 (2 to 2) |
| hSBA-MenC, PRE (N=12,14,20,12) | 2.2 (1.8 to 2.7) | 2.1 (1.9 to 2.5) | 3.3 (2.1 to 5.1) | 5.7 (2.6 to 12.4) |
| hSBA-MenW-135 MP, PRE (N=34,40,34,23) | 2.1 (1.9 to 2.4) | 2 (2 to 2) | 4.9 (2.5 to 9.9) | 3 (1.6 to 5.4) |
| hSBA-MenW-135 3193, PRE (N=31,35,34,23) | 2 (2 to 2) | 2 (2 to 2) | 3 (1.9 to 4.6) | 2.1 (1.9 to 2.4) |
| hSBA-MenY, PRE (N=33,43,38,28) | 2.4 (1.8 to 3.2) | 2.5 (1.9 to 3.1) | 3.6 (2.3 to 5.6) | 4 (2.4 to 6.8) |
| hSBA-MenA L10, M1 (N=26,30,37,24) | 39 (23.2 to 65.5) | 2.7 (2 to 3.7) | 24.6 (15 to 40.6) | 5.7 (3 to 10.8) |
| hSBA-MenA L11, M1 (N=22,28,25,24) | 54.3 (32.7 to 90.3) | 2.1 (1.9 to 2.3) | 29.8 (14.4 to 61.6) | 3.8 (2.3 to 6.3) |
| hSBA-MenC, M1 (N=11,12,19,12) | 194.7 (152.4 to 248.7) | 33.4 (11.6 to 96.6) | 89.7 (44.5 to 180.8) | 26.5 (11.4 to 61.5) |
| hSBA-MenW-135 MP, M1 (N=24,28,30,16) | 134.6 (54.3 to 333.3) | 2 (2 to 2) | 247.3 (113.5 to 538.9) | 53.5 (11.3 to 252.8) |
| hSBA-MenW-135 3193, M1 (N=26,27,31,21) | 9.1 (4.9 to 17) | 2 (2 to 2) | 17.3 (8.3 to 36) | 8 (3.7 to 17.4) |
| hSBA-MenY, M1 (N=26,31,33,25) | 21.1 (10.4 to 42.7) | 2.3 (1.9 to 2.8) | 56.2 (33.8 to 93.3) | 12.5 (5.8 to 26.9) |
| hSBA-MenA, M15 (N=18,20,24,14) | 2.8 (2 to 3.9) | 2.2 (1.8 to 2.6) | 3.5 (2.2 to 5.7) | 2.2 (1.8 to 2.7) |
| hSBA-MenC, M15 (N=27,27,35,22) | 189.2 (111.9 to 319.9) | 19.6 (9.6 to 39.9) | 112.4 (70.2 to 180) | 28.1 (12.9 to 61) |
| hSBA-MenW-135, M15 (N=18,16,24,21) | 313.8 (182.6 to 539.2) | 2 (2 to 2) | 221.5 (136.8 to 358.7) | 8.1 (0.8 to 79.7) |
| hSBA-MenY, M15 (N=26,25,32,19) | 95.3 (56.7 to 160.4) | 2.9 (1.8 to 4.6) | 92.3 (48.6 to 175.1) | 20.9 (7.4 to 58.9) |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with solicited local symptoms in children

| | |
|-----------------|---|
| End point title | Number of subjects with solicited local symptoms in children ^[4] |
|-----------------|---|

End point description:

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

End point timeframe:

During the 8-day (Days 0-7) post-vaccination period after each dose and overall

Notes:

[4] - 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: These symptoms were only reported in children.

| End point values | 3-5 years of age Formulation 1 Group | 3-5 years of age Formulation 2 Group | 3-5 years of age Formulation 3 Group | 3-5 years of age Formulation 4 Group |
|-----------------------------|--|--|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 53 | 53 | 54 | 54 |
| Units: Subjects | | | | |
| Any Pain | 16 | 22 | 18 | 15 |
| Any Redness | 23 | 28 | 28 | 26 |
| Any Swelling | 15 | 19 | 18 | 18 |

| End point values | 3-5 years of age Control Group | | | |
|-----------------------------|--------------------------------------|--|--|--|
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 53 | | | |
| Units: Subjects | | | | |
| Any Pain | 23 | | | |
| Any Redness | 20 | | | |
| Any Swelling | 12 | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with solicited local symptoms in toddlers

| | |
|-----------------|---|
| End point title | Number of subjects with solicited local symptoms in toddlers ^[5] |
|-----------------|---|

End point description:

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

End point timeframe:

During the 8-day (Days 0-7) post-vaccination period after each dose and overall

Notes:

[5] - 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: The endpoint analysis was based only on subjects of the control groups and all subjects in the group that received Nimenrix formulation 3.

| End point values | 12-14 months of age Formulation 1 Group | 12-14 months of age Formulation 2 Group | 12-14 months of age Formulation 3 Group | 12-14 months of age Formulation 4 Group |
|--|--|--|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 48 | 47 | 48 | 48 |
| Units: Subjects | | | | |
| Any Pain, Men Vac (N=48,47,48,48,47) | 11 | 5 | 8 | 7 |
| Any Pain, DTPa (N=46,45,48,47,47) | 11 | 10 | 13 | 13 |
| Any Redness, Men Vac (N=48,47,48,48,47) | 19 | 20 | 20 | 27 |
| Any Redness, DTPa (N=46,45,48,47,47) | 20 | 17 | 23 | 26 |
| Any Swelling, Men Vac (N=48,47,48,48,47) | 10 | 8 | 10 | 10 |
| Any Swelling, DTPa (N=46,45,48,47,47) | 14 | 8 | 16 | 16 |

| End point values | 12-14 months of age Control Group | | | |
|--|--------------------------------------|--|--|--|
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 47 | | | |
| Units: Subjects | | | | |
| Any Pain, Men Vac (N=48,47,48,48,47) | 8 | | | |
| Any Pain, DTPa (N=46,45,48,47,47) | 10 | | | |
| Any Redness, Men Vac (N=48,47,48,48,47) | 17 | | | |
| Any Redness, DTPa (N=46,45,48,47,47) | 18 | | | |
| Any Swelling, Men Vac (N=48,47,48,48,47) | 10 | | | |
| Any Swelling, DTPa (N=46,45,48,47,47) | 11 | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with solicited general symptoms in children

| | |
|-----------------|---|
| End point title | Number of subjects with solicited general symptoms in |
|-----------------|---|

End point description:

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

End point timeframe:

During the 8-day (Days 0-7) post-vaccination period

Notes:

[6] - 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: These symptoms were only reported in children.

| End point values | 3-5 years of age Formulation 1 Group | 3-5 years of age Formulation 2 Group | 3-5 years of age Formulation 3 Group | 3-5 years of age Formulation 4 Group |
|-----------------------------|--|--|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 53 | 53 | 54 | 54 |
| Units: Subjects | | | | |
| Any Drowsiness | 11 | 16 | 12 | 16 |
| Any Fever | 4 | 9 | 9 | 7 |
| Any Irritability | 11 | 10 | 10 | 16 |
| Any Loss of appetite | 5 | 16 | 6 | 12 |

| End point values | 3-5 years of age Control Group | | | |
|-----------------------------|--------------------------------------|--|--|--|
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 53 | | | |
| Units: Subjects | | | | |
| Any Drowsiness | 14 | | | |
| Any Fever | 5 | | | |
| Any Irritability | 12 | | | |
| Any Loss of appetite | 7 | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with solicited general symptoms in toddlers

| | |
|-----------------|---|
| End point title | Number of subjects with solicited general symptoms in |
|-----------------|---|

End point description:

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

End point timeframe:

During the 8-day (Days 0-7) post-vaccination period following each study dose

Notes:

[7] - 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: These symptoms were only reported in toddlers.

| End point values | 12-14 months of age Formulation 1 Group | 12-14 months of age Formulation 2 Group | 12-14 months of age Formulation 3 Group | 12-14 months of age Formulation 4 Group |
|---|---|---|---|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 48 | 47 | 48 | 48 |
| Units: Subjects | | | | |
| Any Drowsiness, Men Vac (N=48,47,48,48,47) | 19 | 16 | 17 | 20 |

| | | | | |
|---|----|----|----|----|
| Any Drowsiness, DTPa (N=46,45,48,47,47) | 14 | 8 | 11 | 12 |
| Any Fever, Men Vac (N=48,47,48,48,47) | 9 | 15 | 12 | 12 |
| Any Fever, DTPa (N=46,45,48,47,47) | 15 | 16 | 16 | 14 |
| Any Irritability, Men Vac (N=48,47,48,48,47) | 22 | 16 | 16 | 21 |
| Any Irritability, DTPa (N=46,45,48,47,47) | 15 | 9 | 14 | 15 |
| Any Loss of appetite, Men Vac (N=48,47,48,48,47) | 9 | 10 | 11 | 9 |
| Any Loss of appetite, DTPa (N=46,45,48,47,47) | 9 | 7 | 8 | 12 |

| End point values | 12-14 months of age Control Group | | | |
|---|---|--|--|--|
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 47 | | | |
| Units: Subjects | | | | |
| Any Drowsiness, Men Vac (N=48,47,48,48,47) | 18 | | | |
| Any Drowsiness, DTPa (N=46,45,48,47,47) | 17 | | | |
| Any Fever, Men Vac (N=48,47,48,48,47) | 16 | | | |
| Any Fever, DTPa (N=46,45,48,47,47) | 20 | | | |
| Any Irritability, Men Vac (N=48,47,48,48,47) | 19 | | | |
| Any Irritability, DTPa (N=46,45,48,47,47) | 14 | | | |
| Any Loss of appetite, Men Vac (N=48,47,48,48,47) | 11 | | | |
| Any Loss of appetite, DTPa (N=46,45,48,47,47) | 9 | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with unsolicited Adverse events (AEs)

| | |
|--|--|
| End point title | Number of subjects with unsolicited Adverse events (AEs) |
| End point description: | |
| End point type | Secondary |
| End point timeframe: | |
| Within 31 days (Days 0-30) after the primary vaccination | |

| End point values | 12-14 months of age Formulation 1 Group | 12-14 months of age Formulation 2 Group | 12-14 months of age Formulation 3 Group | 12-14 months of age Formulation 4 Group |
|-----------------------------|---|---|---|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 48 | 48 | 48 | 48 |
| Units: Subjects | | | | |
| Any AEs | 30 | 29 | 30 | 27 |

| End point values | 12-14 months of age Control Group | 3-5 years of age Formulation 1 Group | 3-5 years of age Formulation 2 Group | 3-5 years of age Formulation 3 Group |
|-----------------------------|-----------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 48 | 54 | 53 | 54 |
| Units: Subjects | | | | |
| Any AEs | 29 | 21 | 22 | 21 |

| End point values | 3-5 years of age Formulation 4 Group | 3-5 years of age Control Group | | |
|-----------------------------|--------------------------------------|--------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 54 | 53 | | |
| Units: Subjects | | | | |
| Any AEs | 22 | 15 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number (%) of subjects with Serious Adverse Events (SAEs)

| | |
|--------------------------------------|---|
| End point title | Number (%) of subjects with Serious Adverse Events (SAEs) |
| End point description: | |
| End point type | Secondary |
| End point timeframe: | |
| During the primary vaccination study | |

| End point values | 12-14 months of age Formulation 1 Group | 12-14 months of age Formulation 2 Group | 12-14 months of age Formulation 3 Group | 12-14 months of age Formulation 4 Group |
|-----------------------------|---|---|---|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 48 | 48 | 48 | 48 |
| Units: Subjects | | | | |
| Any SAEs | 1 | 1 | 1 | 3 |

| End point values | 12-14 months of age Control Group | 3-5 years of age Formulation 1 Group | 3-5 years of age Formulation 2 Group | 3-5 years of age Formulation 3 Group |
|-----------------------------|-----------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 48 | 54 | 53 | 54 |
| Units: Subjects | | | | |
| Any SAEs | 1 | 1 | 1 | 0 |

| End point values | 3-5 years of age Formulation 4 Group | 3-5 years of age Control Group | | |
|-----------------------------|--------------------------------------|--------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 54 | 53 | | |
| Units: Subjects | | | | |
| Any SAEs | 0 | 0 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY titers $\geq 1:8$

| | |
|-----------------|--|
| End point title | Number of subjects with rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY titers $\geq 1:8$ ^[8] |
|-----------------|--|

End point description:

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

End point timeframe:

15 months after priming

Notes:

[8] - 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: The endpoint analysis was based only on subjects of the control groups and all subjects in the group that received Nimenrix formulation 3.

| End point values | 12-14 months of age Formulation 3 Group | 12-14 months of age Control Group | 3-5 years of age Formulation 3 Group | 3-5 years of age Control Group |
|------------------------------------|---|-----------------------------------|--------------------------------------|--------------------------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 40 | 41 | 46 | 34 |
| Units: Subjects | | | | |
| rSBA-MenA L10 (N=40,36,45,29) | 39 | 11 | 45 | 26 |
| rSBA-MenA L11 (N=39,31,46,33) | 38 | 25 | 46 | 32 |
| rSBA-MenC (N=39,40,46,32) | 36 | 24 | 46 | 19 |
| rSBA-MenW-135 3193 (N=40,40,46,34) | 39 | 17 | 46 | 32 |
| rSBA-MenW-135 MP (N=40,41,46,32) | 39 | 17 | 46 | 30 |
| rSBA-MenY (N= 40,40,46,33) | 39 | 30 | 46 | 26 |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY titers $\geq 1:128$.

| | |
|-----------------|--|
| End point title | Number of subjects with rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY titers $\geq 1:128$. ^[9] |
|-----------------|--|

End point description:

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

End point timeframe:

15 months after priming

Notes:

[9] - 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: The endpoint analysis was based only on subjects of the control groups and all subjects in the group that received Nimenrix formulation 3.

| End point values | 12-14 months of age Formulation 3 Group | 12-14 months of age Control Group | 3-5 years of age Formulation 3 Group | 3-5 years of age Control Group |
|------------------------------------|---|-----------------------------------|--------------------------------------|--------------------------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 40 | 41 | 46 | 34 |
| Units: Subjects | | | | |
| rSBA-MenA L10 (N=40,36,45,29) | 37 | 10 | 44 | 24 |
| rSBA-MenA L11 (N=39,31,46,33) | 36 | 23 | 46 | 32 |
| rSBA-MenC (N=39,40,46,32) | 27 | 11 | 30 | 9 |
| rSBA-MenW-135 3193 (N=40,40,46,34) | 38 | 10 | 46 | 30 |
| rSBA-MenW-135 MP (N=40,41,46,32) | 36 | 11 | 46 | 30 |
| rSBA-MenY (N= 40,40,46,33) | 36 | 18 | 46 | 22 |

Statistical analyses

No statistical analyses for this end point

Secondary: rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY antibody titers

| | |
|-----------------|---|
| End point title | rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY antibody titers ^[10] |
|-----------------|---|

End point description:

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

End point timeframe:

15 months after priming

Notes:

[10] - 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: The endpoint analysis was based only on subjects of the control groups and all subjects in the group that received Nimenrix formulation 3.

| End point values | 12-14 months of age Formulation 3 Group | 12-14 months of age Control Group | 3-5 years of age Formulation 3 Group | 3-5 years of age Control Group |
|--|--|--------------------------------------|---|-----------------------------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 40 | 41 | 46 | 34 |
| Units: Titers | | | | |
| geometric mean (confidence interval 95%) | | | | |
| rSBA-MenA L10 (N=40,36,45,29) | 573.7 (373.3 to 881.7) | 14.3 (7.3 to 27.8) | 891.1 (693.1 to 1145.8) | 251.3 (137.4 to 459.8) |
| rSBA-MenA L11 (N=39,31,46,33) | 1385.1 (820.5 to 2338.3) | 184.6 (85.5 to 398.7) | 2619.6 (2125.2 to 3229.1) | 879.5 (579 to 1336) |
| rSBA-MenC (N=39,40,46,32) | 172 (108.7 to 272.1) | 28 (15 to 52.6) | 187.6 (124.3 to 283.2) | 28.6 (14.3 to 57.1) |
| rSBA-MenW-135 3193 (N=40,40,46,34) | 528.2 (368.6 to 756.7) | 18.6 (10.2 to 33.9) | 961.6 (731.2 to 1264.6) | 239.3 (157.1 to 364.7) |
| rSBA-MenW-135 MP (N=40,41,46,32) | 692 (462.4 to 1035.6) | 18.7 (10.1 to 34.7) | 1564.1 (1174.6 to 2082.7) | 365.9 (228.4 to 586.2) |
| rSBA-MenY (N= 40,40,46,33) | 477.2 (321.3 to 708.6) | 76.9 (41.2 to 143.5) | 1287.4 (1001.8 to 1654.3) | 139.4 (66.9 to 290.7) |

Statistical analyses

No statistical analyses for this end point

Secondary: Anti-polysaccharide A (PSA), anti-PSC, anti- PSW-135 and anti-PSY antibody concentrations

| | |
|-----------------|---|
| End point title | Anti-polysaccharide A (PSA), anti-PSC, anti- PSW-135 and anti-PSY antibody concentrations ^[11] |
|-----------------|---|

End point description:

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

End point timeframe:
15 months after priming

Notes:

[11] - 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: The endpoint analysis was based only on subjects of the control groups and all subjects in the group that received Nimenrix formulation 3.

| End point values | 12-14 months of age Formulation 3 Group | 12-14 months of age Control Group | 3-5 years of age Formulation 3 Group | 3-5 years of age Control Group |
|--|---|-----------------------------------|--------------------------------------|--------------------------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 36 | 37 | 32 | 32 |
| Units: µg/mL | | | | |
| geometric mean (confidence interval 95%) | | | | |
| Anti-PSA (N=34,32,40,32) | 0.65 (0.44 to 0.95) | 0.16 (0.14 to 0.17) | 1.04 (0.67 to 1.62) | 2.71 (1.54 to 4.78) |
| Anti-PSC (N=36,37,46,31) | 0.35 (0.25 to 0.49) | 0.27 (0.2 to 0.36) | 0.4 (0.27 to 0.6) | 2.72 (1.68 to 4.42) |
| Anti-PSW-135 (N=34,34,41,31) | 1.09 (0.78 to 1.53) | 0.15 (0.15 to 0.15) | 0.43 (0.34 to 0.54) | 2.33 (1.29 to 4.2) |
| Anti-PSY (N=35,34,40,28) | 1.5 (1.06 to 2.11) | 0.15 (0.15 to 0.15) | 0.71 (0.51 to 0.98) | 4.46 (2.47 to 8.07) |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with Anti-polysaccharide A (PSA), anti-PSC, anti-PSW-135 and anti- PSY antibody concentrations ≥ 0.3 µg/mL

| | |
|-----------------|---|
| End point title | Number of subjects with Anti-polysaccharide A (PSA), anti-PSC, anti- PSW-135 and anti- PSY antibody concentrations ≥ 0.3 µg/mL ^[12] |
|-----------------|---|

End point description:

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

End point timeframe:

15 months after priming

Notes:

[12] - 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: The endpoint analysis was based only on subjects of the control groups and all subjects in the group that received Nimenrix formulation 3.

| End point values | 12-14 months of age Formulation 3 Group | 12-14 months of age Control Group | 3-5 years of age Formulation 3 Group | 3-5 years of age Control Group |
|-----------------------------|---|-----------------------------------|--------------------------------------|--------------------------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 36 | 37 | 41 | 32 |
| Units: Subjects | | | | |
| Anti-PSA (N=34,32,40,32) | 25 | 1 | 33 | 29 |

| | | | | |
|------------------------------|----|----|----|----|
| Anti-PSC (N=36,37,46,31) | 18 | 14 | 19 | 28 |
| Anti-PSW-135 (N=34,34,41,31) | 33 | 0 | 30 | 29 |
| Anti-PSY (N=35,34,40,28) | 33 | 0 | 33 | 26 |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with Anti-polysaccharide A (PSA), anti-PSC, anti-PSW-135 and anti- PSY antibody concentrations ≥ 2.0 $\mu\text{g/mL}$

| | |
|-----------------|--|
| End point title | Number of subjects with Anti-polysaccharide A (PSA), anti-PSC, anti- PSW-135 and anti- PSY antibody concentrations ≥ 2.0 $\mu\text{g/mL}$ ^[13] |
|-----------------|--|

End point description:

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

End point timeframe:

15 months after priming

Notes:

[13] - 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: The endpoint analysis was based only on subjects of the control groups and all subjects in the group that received Nimenrix formulation 3.

| End point values | 12-14 months of age Formulation 3 Group | 12-14 months of age Control Group | 3-5 years of age Formulation 3 Group | 3-5 years of age Control Group |
|------------------------------|--|--------------------------------------|---|-----------------------------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 36 | 37 | 41 | 32 |
| Units: Subjects | | | | |
| Anti-PSA (N=34,32,40,32) | 6 | 0 | 13 | 21 |
| Anti-PSC (N=36,37,46,31) | 3 | 1 | 6 | 21 |
| Anti-PSW-135 (N=34,34,41,31) | 7 | 0 | 1 | 16 |
| Anti-PSY (N=35,34,40,28) | 14 | 0 | 6 | 21 |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with solicited local symptoms

| | |
|-----------------|--|
| End point title | Number of subjects with solicited local symptoms |
|-----------------|--|

End point description:

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

End point timeframe:

During the 8-day follow-up period (Day 0-7) following the vaccine administration

| End point values | 12-14 months of age Challenge Group | 12-14 months of age Control Group | | |
|-----------------------------|--|---|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 42 | 42 | | |
| Units: Subjects | | | | |
| Any Pain | 7 | 8 | | |
| Any Redness | 13 | 12 | | |
| Any Swelling | 4 | 4 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with solicited general symptoms

| | |
|-----------------|--|
| End point title | Number of subjects with solicited general symptoms |
|-----------------|--|

End point description:

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

End point timeframe:

During the 8-day follow-up period (Day 0-7) following the vaccine administration

| End point values | 12-14 months of age Challenge Group | 12-14 months of age Control Group | | |
|-----------------------------|--|---|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 42 | 42 | | |
| Units: Subjects | | | | |
| Any Drowsiness | 9 | 9 | | |
| Any Fever | 9 | 5 | | |
| Any Irritability | 7 | 5 | | |
| Any Loss of appetite | 6 | 10 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with unsolicited Adverse events (AEs)

| | |
|-----------------|--|
| End point title | Number of subjects with unsolicited Adverse events (AEs) |
|-----------------|--|

End point description:

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

End point timeframe:

Within the 31-day follow-up period (Day 0-30) following the vaccine administration

| End point values | 12-14 months of age Challenge Group | 12-14 months of age Control Group | | |
|-----------------------------|-------------------------------------|-----------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 42 | 43 | | |
| Units: Subjects | | | | |
| Any AEs | 14 | 12 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number (%) of subjects with Serious Adverse Events (SAEs)

| | |
|-----------------|---|
| End point title | Number (%) of subjects with Serious Adverse Events (SAEs) |
|-----------------|---|

End point description:

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

End point timeframe:

Between completion of the primary phase and the start of the persistence/challenge phase

| End point values | 12-14 months of age Challenge Group | 12-14 months of age Control Group | 3-5 years of age Challenge Group | 3-5 years of age Control Group |
|-----------------------------|-------------------------------------|-----------------------------------|----------------------------------|--------------------------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 42 | 43 | 50 | 50 |
| Units: Subjects | | | | |
| Any SAEs | 0 | 1 | 1 | 2 |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY titers \geq 1:8

| | |
|-----------------|--|
| End point title | Number of subjects with rSBA-MenA, rSBA-MenC, rSBA-MenW- |
|-----------------|--|

End point description:

End point type Secondary

End point timeframe:

1 month after the administration of the challenge dose

| End point values | 12-14 months of age Challenge Group | 12-14 months of age Control Group | | |
|------------------------------|-------------------------------------|-----------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 32 | 30 | | |
| Units: Subjects | | | | |
| rSBA-MenA L10 (N=25,30) | 25 | 30 | | |
| rSBA-MenA L11 (N=18,29) | 18 | 29 | | |
| rSBA-MenC (N=32,30) | 32 | 30 | | |
| rSBA-MenW-135 3193 (N=32,30) | 32 | 30 | | |
| rSBA-MenW-135 MP (N=32,30) | 32 | 30 | | |
| rSBA-MenY (N=32,30) | 32 | 29 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY titers $\geq 1:128$.

End point title Number of subjects with rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY titers $\geq 1:128$.

End point description:

End point type Secondary

End point timeframe:

1 month after the administration of the challenge dose

| End point values | 12-14 months of age Challenge Group | 12-14 months of age Control Group | | |
|------------------------------|-------------------------------------|-----------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 32 | 30 | | |
| Units: Subjects | | | | |
| rSBA-MenA L10 (N=25,30) | 25 | 27 | | |
| rSBA-MenA L11 (N=18,29) | 18 | 28 | | |
| rSBA-MenC (N=32,30) | 32 | 30 | | |
| rSBA-MenW-135 3193 (N=32,30) | 32 | 29 | | |

| | | | | |
|----------------------------|----|----|--|--|
| rSBA-MenW-135 MP (N=32,30) | 32 | 29 | | |
| rSBA-MenY (N=32,30) | 32 | 28 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY antibody titers

| | |
|--|---|
| End point title | rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY antibody titers |
| End point description: | |
| End point type | Secondary |
| End point timeframe: | |
| 1 month after the administration of the challenge dose | |

| End point values | 12-14 months of age Challenge Group | 12-14 months of age Control Group | | |
|--|-------------------------------------|-----------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 32 | 30 | | |
| Units: Titers | | | | |
| geometric mean (confidence interval 95%) | | | | |
| rSBA-MenA L10 (N=25,30) | 3321.9 (2294.2 to 4810) | 514.1 (354.8 to 744.8) | | |
| rSBA-MenA L11 (N=18,29) | 4271.8 (3092.6 to 5900.8) | 1349.4 (942.5 to 1932) | | |
| rSBA-MenC (N=32,30) | 5965.7 (4128.4 to 8620.7) | 5265.2 (3437.3 to 8065.1) | | |
| rSBA-MenW-135 3193 (N=32,30) | 8677.4 (6501.9 to 11580.8) | 1044.6 (694.7 to 1570.6) | | |
| rSBA-MenW-135 MP (N=32,30) | 11058.1 (8587.2 to 14239.9) | 1386.1 (935.6 to 2053.6) | | |
| rSBA-MenY (N=32,30) | 5736.6 (4215.9 to 7806) | 546.5 (324 to 921.8) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with Anti-polysaccharide A (PSA), anti-PSC, anti-PSW-135 and anti- PSY antibody concentrations $\geq 0.3 \mu\text{g/mL}$

| | |
|-----------------|--|
| End point title | Number of subjects with Anti-polysaccharide A (PSA), anti-PSC, anti- PSW-135 and anti- PSY antibody concentrations $\geq 0.3 \mu\text{g/mL}$ |
|-----------------|--|

End point description:

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

End point timeframe:

1 month after the administration of the challenge dose

| End point values | 12-14 months of age Challenge Group | 12-14 months of age Control Group | | |
|-----------------------------|-------------------------------------|-----------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 31 | 31 | | |
| Units: Subjects | | | | |
| Anti-PSA (N=29,26) | 29 | 25 | | |
| Anti-PSC (N=31,30) | 31 | 30 | | |
| Anti-PSW-135 (N=30,28) | 30 | 26 | | |
| Anti-PSY (N=29,30) | 29 | 29 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with Anti-polysaccharide A (PSA), anti-PSC, anti-PSW-135 and anti- PSY antibody concentrations $\geq 2.0 \mu\text{g/mL}$

| | |
|-----------------|--|
| End point title | Number of subjects with Anti-polysaccharide A (PSA), anti-PSC, anti- PSW-135 and anti- PSY antibody concentrations $\geq 2.0 \mu\text{g/mL}$ |
|-----------------|--|

End point description:

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

End point timeframe:

1 month after the administration of the challenge dose

| End point values | 12-14 months of age Challenge Group | 12-14 months of age Control Group | | |
|-----------------------------|-------------------------------------|-----------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 31 | 30 | | |
| Units: Subjects | | | | |
| Anti-PSA (N=29,26) | 29 | 15 | | |

| | | | | |
|------------------------|----|----|--|--|
| Anti-PSC (N=31,30) | 27 | 30 | | |
| Anti-PSW-135 (N=30,28) | 30 | 16 | | |
| Anti-PSY (N=29,30) | 29 | 23 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Anti-polysaccharide A (PSA), anti-PSC, anti- PSW-135 and anti-PSY antibody concentrations

| | |
|-----------------|---|
| End point title | Anti-polysaccharide A (PSA), anti-PSC, anti- PSW-135 and anti-PSY antibody concentrations |
|-----------------|---|

End point description:

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

End point timeframe:

1 month after the administration of the challenge dose

| End point values | 12-14 months of age Challenge Group | 12-14 months of age Control Group | | |
|--|-------------------------------------|-----------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 31 | 30 | | |
| Units: µg/mL | | | | |
| geometric mean (confidence interval 95%) | | | | |
| Anti-PSA (N=29,26) | 42.51 (29.65 to 60.94) | 2.47 (1.38 to 4.41) | | |
| Anti-PSC (N=31,30) | 6.82 (4.9 to 9.48) | 18.33 (14.36 to 23.4) | | |
| Anti-PSW-135 (N=30,28) | 122.17 (85.74 to 174.07) | 2.08 (1.22 to 3.56) | | |
| Anti-PSY (N=29,30) | 130.17 (91.23 to 185.72) | 4.64 (2.73 to 7.89) | | |

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Solicited symptoms: during the 8-day (Days 0-7) post-vaccination period. Unsolicited AEs: within 31 days (Days 0-30) after each vaccination. SAEs: from the beginning of the primary study up to the end of the booster study.

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

Dictionary used

| | |
|--------------------|--------|
| Dictionary name | MedDRA |
| Dictionary version | 10.0 |

Reporting groups

| | |
|--------------------------------|---|
| Reporting group title | 12-14 months of age Formulation 1 Group |
| Reporting group description: - | |
| Reporting group title | 12-14 months of age Formulation 2 Group |
| Reporting group description: - | |
| Reporting group title | 12-14 months of age Formulation 3 Group |
| Reporting group description: - | |
| Reporting group title | 12-14 months of age Formulation 4 Group |
| Reporting group description: - | |
| Reporting group title | 12-14 months of age Control Group |
| Reporting group description: - | |
| Reporting group title | 3-5 years of age Formulation 1 Group |
| Reporting group description: - | |
| Reporting group title | 3-5 years of age Formulation 2 Group |
| Reporting group description: - | |
| Reporting group title | 3-5 years of age Control Group |
| Reporting group description: - | |
| Reporting group title | 3-5 years of age Formulation 4 Group |
| Reporting group description: - | |
| Reporting group title | 3-5 years of age Formulation 3 Group |
| Reporting group description: - | |
| Reporting group title | 12-14 months of age Control Group |
| Reporting group description: - | |
| Reporting group title | 12-14 months of age Challenge Group |
| Reporting group description: - | |
| Reporting group title | 3-5 years of age Challenge Group |
| Reporting group description: - | |
| Reporting group title | 3-5 years of age Control Group |
| Reporting group description: - | |

| Serious adverse events | 12-14 months of age Formulation 1 Group | 12-14 months of age Formulation 2 Group | 12-14 months of age Formulation 3 Group |
|---|---|---|---|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 1 / 48 (2.08%) | 1 / 48 (2.08%) | 1 / 48 (2.08%) |
| number of deaths (all causes) | 0 | 0 | 0 |
| number of deaths resulting from | 0 | 0 | 0 |

| | | | |
|---|----------------|----------------|----------------|
| adverse events | | | |
| Nervous system disorders | | | |
| Facial paresis | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 0 / 48 (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 |
| Eye disorders | | | |
| Conjunctivitis | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 0 / 48 (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 |
| Gastrointestinal disorders | | | |
| Vomiting | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 0 / 48 (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 |
| Infections and infestations | | | |
| Gastroenteritis | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 0 / 48 (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 |
| Gastroenteritis rotavirus | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 0 / 48 (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 |
| Gastrointestinal infection | | | |
| subjects affected / exposed | 1 / 48 (2.08%) | 0 / 48 (0.00%) | 0 / 48 (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 |
| Mastoiditis | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 1 / 48 (2.08%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pneumonia | | | |

| | | | |
|---|----------------|----------------|----------------|
| subjects affected / exposed | 0 / 48 (0.00%) | 1 / 48 (2.08%) | 0 / 48 (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 |
| Upper respiratory tract infection | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 0 / 48 (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 |
| Otitis media | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 0 / 48 (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 |
| Pseudocroup | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 0 / 48 (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 | 12-14 months of age Formulation 4 Group | 12-14 months of age Control Group | 3-5 years of age Formulation 1 Group |
|---|---|-----------------------------------|--------------------------------------|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 3 / 48 (6.25%) | 1 / 48 (2.08%) | 1 / 54 (1.85%) |
| number of deaths (all causes) | 0 | 0 | 0 |
| number of deaths resulting from adverse events | 0 | 0 | 0 |
| Nervous system disorders | | | |
| Facial paresis | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 0 / 54 (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 |
| Eye disorders | | | |
| Conjunctivitis | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 0 / 54 (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 |
| Gastrointestinal disorders | | | |
| Vomiting | | | |

| | | | |
|---|----------------|----------------|----------------|
| subjects affected / exposed | 1 / 48 (2.08%) | 0 / 48 (0.00%) | 0 / 54 (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 |
| Infections and infestations | | | |
| Gastroenteritis | | | |
| subjects affected / exposed | 1 / 48 (2.08%) | 0 / 48 (0.00%) | 0 / 54 (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 |
| Gastroenteritis rotavirus | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 1 / 48 (2.08%) | 1 / 54 (1.85%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gastrointestinal infection | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 0 / 54 (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 |
| Mastoiditis | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 0 / 54 (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 |
| Pneumonia | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 0 / 54 (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 |
| Upper respiratory tract infection | | | |
| subjects affected / exposed | 1 / 48 (2.08%) | 0 / 48 (0.00%) | 0 / 54 (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 |
| Otitis media | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 0 / 54 (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 |
| Pseudocroup | | | |

| | | | |
|---|----------------|----------------|----------------|
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 0 / 54 (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 | 3-5 years of age Formulation 2 Group | 3-5 years of age Control Group | 3-5 years of age Formulation 4 Group |
|---|---|-----------------------------------|---|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 1 / 53 (1.89%) | 0 / 53 (0.00%) | 0 / 54 (0.00%) |
| number of deaths (all causes) | 0 | 0 | 0 |
| number of deaths resulting from adverse events | 0 | 0 | 0 |
| Nervous system disorders | | | |
| Facial paresis | | | |
| subjects affected / exposed | 0 / 53 (0.00%) | 0 / 53 (0.00%) | 0 / 54 (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 |
| Eye disorders | | | |
| Conjunctivitis | | | |
| subjects affected / exposed | 0 / 53 (0.00%) | 0 / 53 (0.00%) | 0 / 54 (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 |
| Gastrointestinal disorders | | | |
| Vomiting | | | |
| subjects affected / exposed | 0 / 53 (0.00%) | 0 / 53 (0.00%) | 0 / 54 (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 |
| Infections and infestations | | | |
| Gastroenteritis | | | |
| subjects affected / exposed | 0 / 53 (0.00%) | 0 / 53 (0.00%) | 0 / 54 (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 |
| Gastroenteritis rotavirus | | | |
| subjects affected / exposed | 0 / 53 (0.00%) | 0 / 53 (0.00%) | 0 / 54 (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 |
| Gastrointestinal infection | | | |

| | | | |
|---|----------------|----------------|----------------|
| subjects affected / exposed | 0 / 53 (0.00%) | 0 / 53 (0.00%) | 0 / 54 (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 |
| Mastoiditis | | | |
| subjects affected / exposed | 0 / 53 (0.00%) | 0 / 53 (0.00%) | 0 / 54 (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 |
| Pneumonia | | | |
| subjects affected / exposed | 0 / 53 (0.00%) | 0 / 53 (0.00%) | 0 / 54 (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 |
| Upper respiratory tract infection | | | |
| subjects affected / exposed | 0 / 53 (0.00%) | 0 / 53 (0.00%) | 0 / 54 (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 |
| Otitis media | | | |
| subjects affected / exposed | 1 / 53 (1.89%) | 0 / 53 (0.00%) | 0 / 54 (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 |
| Pseudocroup | | | |
| subjects affected / exposed | 0 / 53 (0.00%) | 0 / 53 (0.00%) | 0 / 54 (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 | 3-5 years of age Formulation 3 Group | 12-14 months of age Control Group | 12-14 months of age Challenge Group |
|--|---|--------------------------------------|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 0 / 54 (0.00%) | 1 / 43 (2.33%) | 0 / 42 (0.00%) |
| number of deaths (all causes) | 0 | 0 | 0 |
| number of deaths resulting from adverse events | 0 | 0 | 0 |
| Nervous system disorders | | | |
| Facial paresis | | | |
| subjects affected / exposed | 0 / 54 (0.00%) | 0 / 43 (0.00%) | 0 / 42 (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 |

| | | | |
|---|----------------|----------------|----------------|
| Eye disorders | | | |
| Conjunctivitis | | | |
| subjects affected / exposed | 0 / 54 (0.00%) | 1 / 43 (2.33%) | 0 / 42 (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 |
| Gastrointestinal disorders | | | |
| Vomiting | | | |
| subjects affected / exposed | 0 / 54 (0.00%) | 0 / 43 (0.00%) | 0 / 42 (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 |
| Infections and infestations | | | |
| Gastroenteritis | | | |
| subjects affected / exposed | 0 / 54 (0.00%) | 0 / 43 (0.00%) | 0 / 42 (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 |
| Gastroenteritis rotavirus | | | |
| subjects affected / exposed | 0 / 54 (0.00%) | 0 / 43 (0.00%) | 0 / 42 (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 |
| Gastrointestinal infection | | | |
| subjects affected / exposed | 0 / 54 (0.00%) | 0 / 43 (0.00%) | 0 / 42 (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 |
| Mastoiditis | | | |
| subjects affected / exposed | 0 / 54 (0.00%) | 0 / 43 (0.00%) | 0 / 42 (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 |
| Pneumonia | | | |
| subjects affected / exposed | 0 / 54 (0.00%) | 0 / 43 (0.00%) | 0 / 42 (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 |
| Upper respiratory tract infection | | | |

| | | | |
|---|----------------|----------------|----------------|
| subjects affected / exposed | 0 / 54 (0.00%) | 0 / 43 (0.00%) | 0 / 42 (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 |
| Otitis media | | | |
| subjects affected / exposed | 0 / 54 (0.00%) | 1 / 43 (2.33%) | 0 / 42 (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 |
| Pseudocroup | | | |
| subjects affected / exposed | 0 / 54 (0.00%) | 1 / 43 (2.33%) | 0 / 42 (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 | 3-5 years of age Challenge Group | 3-5 years of age Control Group | |
|---|-------------------------------------|-----------------------------------|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 1 / 50 (2.00%) | 2 / 50 (4.00%) | |
| number of deaths (all causes) | 0 | 0 | |
| number of deaths resulting from adverse events | 0 | 0 | |
| Nervous system disorders | | | |
| Facial paresis | | | |
| subjects affected / exposed | 0 / 50 (0.00%) | 1 / 50 (2.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Eye disorders | | | |
| Conjunctivitis | | | |
| subjects affected / exposed | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastrointestinal disorders | | | |
| Vomiting | | | |
| subjects affected / exposed | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Infections and infestations | | | |
| Gastroenteritis | | | |

| | | | |
|---|----------------|----------------|--|
| subjects affected / exposed | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastroenteritis rotavirus | | | |
| subjects affected / exposed | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastrointestinal infection | | | |
| subjects affected / exposed | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Mastoiditis | | | |
| subjects affected / exposed | 1 / 50 (2.00%) | 0 / 50 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pneumonia | | | |
| subjects affected / exposed | 0 / 50 (0.00%) | 1 / 50 (2.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Upper respiratory tract infection | | | |
| subjects affected / exposed | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Otitis media | | | |
| subjects affected / exposed | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pseudocroup | | | |
| subjects affected / exposed | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

Frequency threshold for reporting non-serious adverse events: 5 %

| Non-serious adverse events | 12-14 months of age Formulation 1 Group | 12-14 months of age Formulation 2 Group | 12-14 months of age Formulation 3 Group |
|---|---|---|---|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 30 / 48 (62.50%) | 29 / 48 (60.42%) | 30 / 48 (62.50%) |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 0 / 48 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| General disorders and administration site conditions | | | |
| Pain | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[1] | 11 / 48 (22.92%) | 5 / 47 (10.64%) | 8 / 46 (17.39%) |
| occurrences (all) | 11 | 5 | 8 |
| Redness | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[2] | 19 / 48 (39.58%) | 20 / 47 (42.55%) | 20 / 48 (41.67%) |
| occurrences (all) | 19 | 20 | 20 |
| Swelling | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[3] | 10 / 48 (20.83%) | 8 / 47 (17.02%) | 10 / 48 (20.83%) |
| occurrences (all) | 10 | 8 | 10 |
| Drowsiness | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[4] | 19 / 48 (39.58%) | 16 / 47 (34.04%) | 17 / 48 (35.42%) |
| occurrences (all) | 19 | 16 | 17 |
| Fever | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[5] | 9 / 48 (18.75%) | 15 / 47 (31.91%) | 12 / 48 (25.00%) |
| occurrences (all) | 9 | 15 | 12 |
| Irritability | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[6] | 22 / 48 (45.83%) | 16 / 47 (34.04%) | 16 / 48 (33.33%) |
| occurrences (all) | 22 | 16 | 16 |

| | | | |
|--|------------------------|------------------------|------------------------|
| Loss of appetite alternative assessment type: Systematic subjects affected / exposed ^[7] occurrences (all) | 9 / 48 (18.75%) 9 | 10 / 47 (21.28%) 10 | 11 / 48 (22.92%) 11 |
| Pyrexia subjects affected / exposed occurrences (all) | 3 / 48 (6.25%) 3 | 4 / 48 (8.33%) 4 | 4 / 48 (8.33%) 4 |
| Pain - Booster Phase alternative assessment type: Systematic subjects affected / exposed ^[8] occurrences (all) | 11 / 48 (22.92%) 11 | 10 / 45 (22.22%) 10 | 13 / 48 (27.08%) 13 |
| Redness - Booster Phase alternative assessment type: Systematic subjects affected / exposed ^[9] occurrences (all) | 20 / 48 (41.67%) 20 | 17 / 45 (37.78%) 17 | 23 / 48 (47.92%) 23 |
| Swelling - Booster Phase alternative assessment type: Systematic subjects affected / exposed ^[10] occurrences (all) | 14 / 46 (30.43%) 14 | 8 / 45 (17.78%) 8 | 16 / 48 (33.33%) 16 |
| Drowsiness - Booster Phase alternative assessment type: Systematic subjects affected / exposed ^[11] occurrences (all) | 14 / 46 (30.43%) 14 | 8 / 45 (17.78%) 8 | 11 / 48 (22.92%) 11 |
| Fever - Booster Phase alternative assessment type: Systematic subjects affected / exposed ^[12] occurrences (all) | 15 / 46 (32.61%) 15 | 16 / 45 (35.56%) 16 | 16 / 48 (33.33%) 16 |
| Irritability - Booster Phase alternative assessment type: Systematic subjects affected / exposed ^[13] occurrences (all) | 15 / 46 (32.61%) 15 | 9 / 45 (20.00%) 9 | 14 / 48 (29.17%) 14 |
| Loss of appetite - Booster Phase alternative assessment type: Systematic | | | |

| | | | |
|--|----------------------|----------------------|----------------------|
| subjects affected / exposed ^[14] occurrences (all) | 9 / 46 (19.57%) 9 | 7 / 45 (15.56%) 7 | 8 / 48 (16.67%) 8 |
| Gastrointestinal disorders | | | |
| Vomiting | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 0 / 48 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Enteritis | | | |
| subjects affected / exposed | 5 / 48 (10.42%) | 3 / 48 (6.25%) | 0 / 48 (0.00%) |
| occurrences (all) | 5 | 3 | 0 |
| Diarrhea | | | |
| subjects affected / exposed | 2 / 48 (4.17%) | 0 / 48 (0.00%) | 3 / 48 (6.25%) |
| occurrences (all) | 2 | 0 | 3 |
| Toothache | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 3 / 48 (6.25%) | 0 / 48 (0.00%) |
| occurrences (all) | 0 | 3 | 0 |
| Respiratory, thoracic and mediastinal disorders | | | |
| Cough | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 0 / 48 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Infections and infestations | | | |
| Upper respiratory tract infection | | | |
| subjects affected / exposed | 7 / 48 (14.58%) | 8 / 48 (16.67%) | 10 / 48 (20.83%) |
| occurrences (all) | 7 | 8 | 10 |
| Nasopharyngitis | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 0 / 48 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Otitis media | | | |
| subjects affected / exposed | 2 / 48 (4.17%) | 6 / 48 (12.50%) | 3 / 48 (6.25%) |
| occurrences (all) | 2 | 6 | 3 |
| Bronchitis | | | |
| subjects affected / exposed | 2 / 48 (4.17%) | 0 / 48 (0.00%) | 5 / 48 (10.42%) |
| occurrences (all) | 2 | 0 | 5 |
| Rhinitis | | | |
| subjects affected / exposed | 2 / 48 (4.17%) | 3 / 48 (6.25%) | 0 / 48 (0.00%) |
| occurrences (all) | 2 | 3 | 0 |
| Pharyngitis | | | |

| | | | |
|-----------------------------|----------------|----------------|----------------|
| subjects affected / exposed | 2 / 48 (4.17%) | 4 / 48 (8.33%) | 0 / 48 (0.00%) |
| occurrences (all) | 2 | 4 | 0 |
| Tonsillitis | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 3 / 48 (6.25%) | 0 / 48 (0.00%) |
| occurrences (all) | 0 | 3 | 0 |

| Non-serious adverse events | 12-14 months of age Formulation 4 Group | 12-14 months of age Control Group | 3-5 years of age Formulation 1 Group |
|---|---|-----------------------------------|--------------------------------------|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 27 / 48 (56.25%) | 29 / 48 (60.42%) | 23 / 54 (42.59%) |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 0 / 54 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| General disorders and administration site conditions | | | |
| Pain | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[1] | 7 / 48 (14.58%) | 8 / 47 (17.02%) | 16 / 53 (30.19%) |
| occurrences (all) | 7 | 8 | 16 |
| Redness | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[2] | 27 / 48 (56.25%) | 17 / 47 (36.17%) | 23 / 53 (43.40%) |
| occurrences (all) | 27 | 17 | 23 |
| Swelling | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[3] | 10 / 48 (20.83%) | 10 / 47 (21.28%) | 15 / 53 (28.30%) |
| occurrences (all) | 10 | 10 | 15 |
| Drowsiness | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[4] | 20 / 48 (41.67%) | 18 / 47 (38.30%) | 11 / 53 (20.75%) |
| occurrences (all) | 20 | 18 | 11 |
| Fever | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[5] | 12 / 48 (25.00%) | 16 / 47 (34.04%) | 4 / 53 (7.55%) |
| occurrences (all) | 12 | 16 | 4 |
| Irritability | | | |

| | | | |
|---|------------------|------------------|------------------|
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[6] | 21 / 48 (43.75%) | 19 / 47 (40.43%) | 11 / 53 (20.75%) |
| occurrences (all) | 21 | 19 | 11 |
| Loss of appetite | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[7] | 9 / 48 (18.75%) | 11 / 47 (23.40%) | 5 / 53 (9.43%) |
| occurrences (all) | 9 | 11 | 5 |
| Pyrexia | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 3 / 48 (6.25%) | 1 / 54 (1.85%) |
| occurrences (all) | 0 | 3 | 1 |
| Pain - Booster Phase | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[8] | 13 / 47 (27.66%) | 10 / 47 (21.28%) | 0 / 54 (0.00%) |
| occurrences (all) | 13 | 10 | 0 |
| Redness - Booster Phase | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[9] | 26 / 47 (55.32%) | 18 / 47 (38.30%) | 0 / 54 (0.00%) |
| occurrences (all) | 26 | 18 | 0 |
| Swelling - Booster Phase | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[10] | 16 / 48 (33.33%) | 11 / 47 (23.40%) | 0 / 54 (0.00%) |
| occurrences (all) | 16 | 11 | 0 |
| Drowsiness - Booster Phase | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[11] | 12 / 47 (25.53%) | 17 / 47 (36.17%) | 0 / 54 (0.00%) |
| occurrences (all) | 12 | 17 | 0 |
| Fever - Booster Phase | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[12] | 14 / 47 (29.79%) | 20 / 47 (42.55%) | 0 / 54 (0.00%) |
| occurrences (all) | 14 | 20 | 0 |
| Irritability - Booster Phase | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[13] | 15 / 47 (31.91%) | 14 / 47 (29.79%) | 0 / 54 (0.00%) |
| occurrences (all) | 15 | 14 | 0 |

| | | | |
|--|------------------------|------------------------|---------------------|
| Loss of appetite - Booster Phase alternative assessment type: Systematic subjects affected / exposed ^[14] occurrences (all) | 12 / 47 (25.53%) 12 | 9 / 47 (19.15%) 9 | 0 / 54 (0.00%) 0 |
| Gastrointestinal disorders | | | |
| Vomiting subjects affected / exposed occurrences (all) | 2 / 48 (4.17%) 2 | 3 / 48 (6.25%) 3 | 1 / 54 (1.85%) 1 |
| Enteritis subjects affected / exposed occurrences (all) | 6 / 48 (12.50%) 6 | 0 / 48 (0.00%) 0 | 0 / 54 (0.00%) 0 |
| Diarrhea subjects affected / exposed occurrences (all) | 2 / 48 (4.17%) 2 | 0 / 48 (0.00%) 0 | 1 / 54 (1.85%) 1 |
| Toothache subjects affected / exposed occurrences (all) | 0 / 48 (0.00%) 0 | 0 / 48 (0.00%) 0 | 0 / 54 (0.00%) 0 |
| Respiratory, thoracic and mediastinal disorders | | | |
| Cough subjects affected / exposed occurrences (all) | 2 / 48 (4.17%) 2 | 0 / 48 (0.00%) 0 | 0 / 54 (0.00%) 0 |
| Infections and infestations | | | |
| Upper respiratory tract infection subjects affected / exposed occurrences (all) | 8 / 48 (16.67%) 8 | 10 / 48 (20.83%) 10 | 3 / 54 (5.56%) 3 |
| Nasopharyngitis subjects affected / exposed occurrences (all) | 0 / 48 (0.00%) 0 | 0 / 48 (0.00%) 0 | 1 / 54 (1.85%) 1 |
| Otitis media subjects affected / exposed occurrences (all) | 4 / 48 (8.33%) 4 | 5 / 48 (10.42%) 5 | 1 / 54 (1.85%) 1 |
| Bronchitis subjects affected / exposed occurrences (all) | 2 / 48 (4.17%) 2 | 4 / 48 (8.33%) 4 | 1 / 54 (1.85%) 1 |
| Rhinitis | | | |

| | | | |
|-----------------------------|----------------|----------------|----------------|
| subjects affected / exposed | 2 / 48 (4.17%) | 3 / 48 (6.25%) | 2 / 54 (3.70%) |
| occurrences (all) | 2 | 3 | 2 |
| Pharyngitis | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 3 / 48 (6.25%) | 2 / 54 (3.70%) |
| occurrences (all) | 0 | 3 | 2 |
| Tonsillitis | | | |
| subjects affected / exposed | 0 / 48 (0.00%) | 0 / 48 (0.00%) | 1 / 54 (1.85%) |
| occurrences (all) | 0 | 0 | 1 |

| Non-serious adverse events | 3-5 years of age Formulation 2 Group | 3-5 years of age Control Group | 3-5 years of age Formulation 4 Group |
|---|---|-----------------------------------|---|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 28 / 53 (52.83%) | 23 / 53 (43.40%) | 26 / 54 (48.15%) |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed | 0 / 53 (0.00%) | 3 / 53 (5.66%) | 0 / 54 (0.00%) |
| occurrences (all) | 0 | 3 | 0 |
| General disorders and administration site conditions | | | |
| Pain | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[1] | 22 / 53 (41.51%) | 23 / 53 (43.40%) | 15 / 54 (27.78%) |
| occurrences (all) | 22 | 23 | 15 |
| Redness | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[2] | 28 / 53 (52.83%) | 20 / 53 (37.74%) | 26 / 54 (48.15%) |
| occurrences (all) | 28 | 20 | 26 |
| Swelling | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[3] | 19 / 53 (35.85%) | 12 / 53 (22.64%) | 18 / 54 (33.33%) |
| occurrences (all) | 19 | 12 | 18 |
| Drowsiness | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[4] | 16 / 53 (30.19%) | 14 / 53 (26.42%) | 16 / 54 (29.63%) |
| occurrences (all) | 16 | 14 | 16 |
| Fever | | | |
| alternative assessment type: Systematic | | | |

| | | | |
|---|------------------|------------------|------------------|
| subjects affected / exposed ^[5] | 9 / 53 (16.98%) | 5 / 53 (9.43%) | 7 / 54 (12.96%) |
| occurrences (all) | 9 | 5 | 7 |
| Irritability | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[6] | 10 / 53 (18.87%) | 12 / 53 (22.64%) | 16 / 54 (29.63%) |
| occurrences (all) | 10 | 12 | 16 |
| Loss of appetite | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[7] | 16 / 53 (30.19%) | 7 / 53 (13.21%) | 12 / 54 (22.22%) |
| occurrences (all) | 16 | 7 | 12 |
| Pyrexia | | | |
| subjects affected / exposed | 3 / 53 (5.66%) | 0 / 53 (0.00%) | 4 / 54 (7.41%) |
| occurrences (all) | 3 | 0 | 4 |
| Pain - Booster Phase | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[8] | 0 / 53 (0.00%) | 0 / 53 (0.00%) | 0 / 54 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Redness - Booster Phase | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[9] | 0 / 53 (0.00%) | 0 / 53 (0.00%) | 0 / 54 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Swelling - Booster Phase | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[10] | 0 / 53 (0.00%) | 0 / 53 (0.00%) | 0 / 54 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Drowsiness - Booster Phase | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[11] | 0 / 53 (0.00%) | 0 / 53 (0.00%) | 0 / 54 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Fever - Booster Phase | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[12] | 0 / 53 (0.00%) | 0 / 53 (0.00%) | 0 / 54 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Irritability - Booster Phase | | | |
| alternative assessment type: | | | |

| | | | |
|--|---------------------|---------------------|---------------------|
| Systematic subjects affected / exposed ^[13] occurrences (all) | 0 / 53 (0.00%) 0 | 0 / 53 (0.00%) 0 | 0 / 54 (0.00%) 0 |
| Loss of appetite - Booster Phase alternative assessment type: Systematic subjects affected / exposed ^[14] occurrences (all) | 0 / 53 (0.00%) 0 | 0 / 53 (0.00%) 0 | 0 / 54 (0.00%) 0 |
| Gastrointestinal disorders | | | |
| Vomiting subjects affected / exposed occurrences (all) | 3 / 53 (5.66%) 3 | 1 / 53 (1.89%) 1 | 0 / 54 (0.00%) 0 |
| Enteritis subjects affected / exposed occurrences (all) | 0 / 53 (0.00%) 0 | 0 / 53 (0.00%) 0 | 0 / 54 (0.00%) 0 |
| Diarrhea subjects affected / exposed occurrences (all) | 0 / 53 (0.00%) 0 | 2 / 53 (3.77%) 2 | 0 / 54 (0.00%) 0 |
| Toothache subjects affected / exposed occurrences (all) | 0 / 53 (0.00%) 0 | 0 / 53 (0.00%) 0 | 0 / 54 (0.00%) 0 |
| Respiratory, thoracic and mediastinal disorders | | | |
| Cough subjects affected / exposed occurrences (all) | 0 / 53 (0.00%) 0 | 1 / 53 (1.89%) 1 | 3 / 54 (5.56%) 3 |
| Infections and infestations | | | |
| Upper respiratory tract infection subjects affected / exposed occurrences (all) | 2 / 53 (3.77%) 2 | 1 / 53 (1.89%) 1 | 0 / 54 (0.00%) 0 |
| Nasopharyngitis subjects affected / exposed occurrences (all) | 0 / 53 (0.00%) 0 | 4 / 53 (7.55%) 4 | 0 / 54 (0.00%) 0 |
| Otitis media subjects affected / exposed occurrences (all) | 2 / 53 (3.77%) 2 | 1 / 53 (1.89%) 1 | 0 / 54 (0.00%) 0 |
| Bronchitis | | | |

| | | | |
|-----------------------------|----------------|----------------|----------------|
| subjects affected / exposed | 0 / 53 (0.00%) | 0 / 53 (0.00%) | 2 / 54 (3.70%) |
| occurrences (all) | 0 | 0 | 2 |
| Rhinitis | | | |
| subjects affected / exposed | 0 / 53 (0.00%) | 2 / 53 (3.77%) | 2 / 54 (3.70%) |
| occurrences (all) | 0 | 2 | 2 |
| Pharyngitis | | | |
| subjects affected / exposed | 0 / 53 (0.00%) | 0 / 53 (0.00%) | 0 / 54 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Tonsillitis | | | |
| subjects affected / exposed | 0 / 53 (0.00%) | 0 / 53 (0.00%) | 0 / 54 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |

| Non-serious adverse events | 3-5 years of age Formulation 3 Group | 12-14 months of age Control Group | 12-14 months of age Challenge Group |
|---|---|--------------------------------------|--|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 28 / 54 (51.85%) | 12 / 43 (27.91%) | 14 / 42 (33.33%) |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed | 0 / 54 (0.00%) | 0 / 43 (0.00%) | 0 / 42 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| General disorders and administration site conditions | | | |
| Pain | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[1] | 18 / 54 (33.33%) | 8 / 42 (19.05%) | 7 / 42 (16.67%) |
| occurrences (all) | 18 | 8 | 7 |
| Redness | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[2] | 28 / 54 (51.85%) | 12 / 42 (28.57%) | 13 / 42 (30.95%) |
| occurrences (all) | 28 | 12 | 13 |
| Swelling | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[3] | 18 / 54 (33.33%) | 4 / 42 (9.52%) | 4 / 42 (9.52%) |
| occurrences (all) | 18 | 4 | 4 |
| Drowsiness | | | |
| alternative assessment type: Systematic | | | |

| | | | |
|---|------------------|------------------|-----------------|
| subjects affected / exposed ^[4] | 12 / 54 (22.22%) | 9 / 42 (21.43%) | 9 / 42 (21.43%) |
| occurrences (all) | 12 | 9 | 9 |
| Fever | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[5] | 9 / 54 (16.67%) | 5 / 42 (11.90%) | 9 / 42 (21.43%) |
| occurrences (all) | 9 | 5 | 9 |
| Irritability | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[6] | 10 / 54 (18.52%) | 5 / 42 (11.90%) | 7 / 42 (16.67%) |
| occurrences (all) | 10 | 5 | 7 |
| Loss of appetite | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[7] | 6 / 54 (11.11%) | 10 / 42 (23.81%) | 6 / 42 (14.29%) |
| occurrences (all) | 6 | 10 | 6 |
| Pyrexia | | | |
| subjects affected / exposed | 1 / 54 (1.85%) | 0 / 43 (0.00%) | 0 / 42 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Pain - Booster Phase | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[8] | 0 / 54 (0.00%) | 0 / 43 (0.00%) | 0 / 42 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Redness - Booster Phase | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[9] | 0 / 54 (0.00%) | 0 / 43 (0.00%) | 0 / 42 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Swelling - Booster Phase | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[10] | 0 / 54 (0.00%) | 0 / 43 (0.00%) | 0 / 42 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Drowsiness - Booster Phase | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[11] | 0 / 54 (0.00%) | 0 / 43 (0.00%) | 0 / 42 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Fever - Booster Phase | | | |
| alternative assessment type: | | | |

| | | | |
|--|---------------------|---------------------|---------------------|
| Systematic subjects affected / exposed ^[12] occurrences (all) | 0 / 54 (0.00%) 0 | 0 / 43 (0.00%) 0 | 0 / 42 (0.00%) 0 |
| Irritability - Booster Phase alternative assessment type: Systematic subjects affected / exposed ^[13] occurrences (all) | 0 / 54 (0.00%) 0 | 0 / 43 (0.00%) 0 | 0 / 42 (0.00%) 0 |
| Loss of appetite - Booster Phase alternative assessment type: Systematic subjects affected / exposed ^[14] occurrences (all) | 0 / 54 (0.00%) 0 | 0 / 43 (0.00%) 0 | 0 / 42 (0.00%) 0 |
| Gastrointestinal disorders Vomiting subjects affected / exposed occurrences (all) | 1 / 54 (1.85%) 1 | 0 / 43 (0.00%) 0 | 0 / 42 (0.00%) 0 |
| Enteritis subjects affected / exposed occurrences (all) | 0 / 54 (0.00%) 0 | 1 / 43 (2.33%) 1 | 1 / 42 (2.38%) 1 |
| Diarrhea subjects affected / exposed occurrences (all) | 1 / 54 (1.85%) 1 | 1 / 43 (2.33%) 1 | 0 / 42 (0.00%) 0 |
| Toothache subjects affected / exposed occurrences (all) | 0 / 54 (0.00%) 0 | 0 / 43 (0.00%) 0 | 0 / 42 (0.00%) 0 |
| Respiratory, thoracic and mediastinal disorders Cough subjects affected / exposed occurrences (all) | 4 / 54 (7.41%) 4 | 2 / 43 (4.65%) 2 | 0 / 42 (0.00%) 0 |
| Infections and infestations Upper respiratory tract infection subjects affected / exposed occurrences (all) | 5 / 54 (9.26%) 5 | 2 / 43 (4.65%) 2 | 4 / 42 (9.52%) 4 |
| Nasopharyngitis subjects affected / exposed occurrences (all) | 0 / 54 (0.00%) 0 | 0 / 43 (0.00%) 0 | 0 / 42 (0.00%) 0 |
| Otitis media | | | |

| | | | |
|---|---------------------|---------------------|---------------------|
| subjects affected / exposed occurrences (all) | 0 / 54 (0.00%) 0 | 0 / 43 (0.00%) 0 | 0 / 42 (0.00%) 0 |
| Bronchitis subjects affected / exposed occurrences (all) | 1 / 54 (1.85%) 1 | 0 / 43 (0.00%) 0 | 1 / 42 (2.38%) 1 |
| Rhinitis subjects affected / exposed occurrences (all) | 2 / 54 (3.70%) 2 | 1 / 43 (2.33%) 1 | 0 / 42 (0.00%) 0 |
| Pharyngitis subjects affected / exposed occurrences (all) | 0 / 54 (0.00%) 0 | 0 / 43 (0.00%) 0 | 0 / 42 (0.00%) 0 |
| Tonsillitis subjects affected / exposed occurrences (all) | 1 / 54 (1.85%) 1 | 1 / 43 (2.33%) 1 | 0 / 42 (0.00%) 0 |

| Non-serious adverse events | 3-5 years of age Challenge Group | 3-5 years of age Control Group | |
|--|-------------------------------------|-----------------------------------|--|
| Total subjects affected by non-serious adverse events subjects affected / exposed | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| Nervous system disorders Headache subjects affected / exposed occurrences (all) | 0 / 50 (0.00%) 0 | 0 / 50 (0.00%) 0 | |
| General disorders and administration site conditions Pain alternative assessment type: Systematic subjects affected / exposed ^[1] occurrences (all) | 0 / 50 (0.00%) 0 | 0 / 50 (0.00%) 0 | |
| Redness alternative assessment type: Systematic subjects affected / exposed ^[2] occurrences (all) | 0 / 50 (0.00%) 0 | 0 / 50 (0.00%) 0 | |
| Swelling alternative assessment type: Systematic subjects affected / exposed ^[3] occurrences (all) | 0 / 50 (0.00%) 0 | 0 / 50 (0.00%) 0 | |
| Drowsiness | | | |

| | | | |
|---|----------------|----------------|--|
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[4] | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences (all) | 0 | 0 | |
| Fever | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[5] | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences (all) | 0 | 0 | |
| Irritability | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[6] | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences (all) | 0 | 0 | |
| Loss of appetite | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[7] | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences (all) | 0 | 0 | |
| Pyrexia | | | |
| subjects affected / exposed | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences (all) | 0 | 0 | |
| Pain - Booster Phase | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[8] | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences (all) | 0 | 0 | |
| Redness - Booster Phase | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[9] | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences (all) | 0 | 0 | |
| Swelling - Booster Phase | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[10] | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences (all) | 0 | 0 | |
| Drowsiness - Booster Phase | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed ^[11] | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences (all) | 0 | 0 | |

| | | | |
|---|--|--|--|
| Fever - Booster Phase alternative assessment type: Systematic subjects affected / exposed ^[12] occurrences (all) Irritability - Booster Phase alternative assessment type: Systematic subjects affected / exposed ^[13] occurrences (all) Loss of appetite - Booster Phase alternative assessment type: Systematic subjects affected / exposed ^[14] occurrences (all) | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| | 0 | 0 | |
| | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| | 0 | 0 | |
| | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| | 0 | 0 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Gastrointestinal disorders Vomiting subjects affected / exposed occurrences (all) Enteritis subjects affected / exposed occurrences (all) Diarrhea subjects affected / exposed occurrences (all) Toothache subjects affected / exposed occurrences (all) | 0 / 50 (0.00%) 0 0 / 50 (0.00%) 0 0 / 50 (0.00%) 0 0 / 50 (0.00%) 0 | 0 / 50 (0.00%) 0 0 / 50 (0.00%) 0 0 / 50 (0.00%) 0 0 / 50 (0.00%) 0 | |
| Respiratory, thoracic and mediastinal disorders Cough subjects affected / exposed occurrences (all) | 0 / 50 (0.00%) 0 | 0 / 50 (0.00%) 0 | |
| Infections and infestations Upper respiratory tract infection subjects affected / exposed occurrences (all) Nasopharyngitis subjects affected / exposed occurrences (all) | 0 / 50 (0.00%) 0 0 / 50 (0.00%) 0 | 0 / 50 (0.00%) 0 0 / 50 (0.00%) 0 | |

| | | | |
|-----------------------------|----------------|----------------|--|
| Otitis media | | | |
| subjects affected / exposed | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences (all) | 0 | 0 | |
| Bronchitis | | | |
| subjects affected / exposed | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences (all) | 0 | 0 | |
| Rhinitis | | | |
| subjects affected / exposed | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences (all) | 0 | 0 | |
| Pharyngitis | | | |
| subjects affected / exposed | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences (all) | 0 | 0 | |
| Tonsillitis | | | |
| subjects affected / exposed | 0 / 50 (0.00%) | 0 / 50 (0.00%) | |
| occurrences (all) | 0 | 0 | |

Notes:

[1] - The number of subjects exposed to this adverse event is less than the total number of subjects exposed for the reporting group. These numbers are expected to be equal.

Justification: The analysis was performed on the Total vaccinated cohort, only on subjects with their symptom sheets completed.

[2] - The number of subjects exposed to this adverse event is less than the total number of subjects exposed for the reporting group. These numbers are expected to be equal.

Justification: The analysis was performed on the Total vaccinated cohort, only on subjects with their symptom sheets completed.

[3] - The number of subjects exposed to this adverse event is less than the total number of subjects exposed for the reporting group. These numbers are expected to be equal.

Justification: The analysis was performed on the Total vaccinated cohort, only on subjects with their symptom sheets completed.

[4] - The number of subjects exposed to this adverse event is less than the total number of subjects exposed for the reporting group. These numbers are expected to be equal.

Justification: The analysis was performed on the Total vaccinated cohort, only on subjects with their symptom sheets completed.

[5] - The number of subjects exposed to this adverse event is less than the total number of subjects exposed for the reporting group. These numbers are expected to be equal.

Justification: The analysis was performed on the Total vaccinated cohort, only on subjects with their symptom sheets completed.

[6] - The number of subjects exposed to this adverse event is less than the total number of subjects exposed for the reporting group. These numbers are expected to be equal.

Justification: The analysis was performed on the Total vaccinated cohort, only on subjects with their symptom sheets completed.

[7] - The number of subjects exposed to this adverse event is less than the total number of subjects exposed for the reporting group. These numbers are expected to be equal.

Justification: The analysis was performed on the Total vaccinated cohort, only on subjects with their symptom sheets completed.

[8] - The number of subjects exposed to this adverse event is less than the total number of subjects exposed for the reporting group. These numbers are expected to be equal.

Justification: The analysis was performed on the Total vaccinated cohort, only on subjects with their symptom sheets completed.

[9] - The number of subjects exposed to this adverse event is less than the total number of subjects exposed for the reporting group. These numbers are expected to be equal.

Justification: The analysis was performed on the Total vaccinated cohort, only on subjects with their symptom sheets completed.

[10] - The number of subjects exposed to this adverse event is less than the total number of subjects exposed for the reporting group. These numbers are expected to be equal.

Justification: The analysis was performed on the Total vaccinated cohort, only on subjects with their symptom sheets completed.

[11] - The number of subjects exposed to this adverse event is less than the total number of subjects exposed for the reporting group. These numbers are expected to be equal.

Justification: The analysis was performed on the Total vaccinated cohort, only on subjects with their symptom sheets completed.

[12] - The number of subjects exposed to this adverse event is less than the total number of subjects exposed for the reporting group. These numbers are expected to be equal.

Justification: The analysis was performed on the Total vaccinated cohort, only on subjects with their symptom sheets completed.

[13] - The number of subjects exposed to this adverse event is less than the total number of subjects exposed for the reporting group. These numbers are expected to be equal.

Justification: The analysis was performed on the Total vaccinated cohort, only on subjects with their symptom sheets completed.

[14] - The number of subjects exposed to this adverse event is less than the total number of subjects exposed for the reporting group. These numbers are expected to be equal.

Justification: The analysis was performed on the Total vaccinated cohort, only on subjects with their symptom sheets completed.

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|--------------|---|
| 11 July 2006 | <p>The study was planned to be done in two stages, with Stage 2 being done 12 months after vaccination in Stage 1; Stage 2 includes children part of the control groups and only those children part of the group with the selected MenACWY-TT formulation (selection being done based on Stage 1 data). Due to slow enrolment of the subjects in Stage 1 of the study, the interim analysis of the data pertaining to Stage 1 has been delayed. In order to allow for completion of the interim analysis, selection of the best dose and labelling and shipping of the vaccines, this amendment proposes that the start of Study Stage 2 be delayed by 3 months (i.e., children participating to Stage 2 will enter Stage 2 15 months after vaccination in Stage 1 instead of 12 months as initially planned).</p> <p>To further characterise the immune response induced by the vaccine, bactericidal assays using human complement source will be performed on a subset of subjects (i.e., those who received the selected formulation and the control groups). The protocol initially planned to use bactericidal assays using baby rabbit complement only.</p> <p>It was not clear in the original protocol which data (available up to 1 month or 2 months after primary vaccination) would be used to select the best MenACWY formulation. The protocol was amended to make clear that the data available up to 1 month after primary vaccination would be used.</p> |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported