



Clinical trial results:

A phase IIIb, observer-blind, controlled study to assess the safety, reactogenicity and immunogenicity of GlaxoSmithKline (GSK) Biologicals' 10-valent pneumococcal conjugate vaccine or Prevenar when given as a booster dose between 12-18 months of age in children previously vaccinated in the primary study 10PN-PD-DIT-012 (107007) with either GSK Biologicals' 10-valent pneumococcal conjugate vaccine or Prevenar

Summary

| | |
|--------------------------|-----------------|
| EudraCT number | 2006-005891-41 |
| Trial protocol | PL |
| Global end of trial date | 07 October 2008 |

Results information

| | |
|--------------------------------|---|
| Result version number | v2 (current) |
| This version publication date | 11 August 2022 |
| First version publication date | 17 June 2015 |
| Version creation reason | <ul style="list-style-type: none">• Correction of full data set Correction of full data set and alignment between registries. |

Trial information

Trial identification

| | |
|-----------------------|--------|
| Sponsor protocol code | 109509 |
|-----------------------|--------|

Additional study identifiers

| | |
|------------------------------------|-------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT00547248 |
| 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 | Final |
| Date of interim/final analysis | 09 February 2009 |
| Is this the analysis of the primary completion data? | No |
| Global end of trial reached? | Yes |
| Global end of trial date | 07 October 2008 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

To demonstrate that a booster dose of GSK Biologicals' 10-valent pneumococcal conjugate vaccine (10Pn-PD-DiT) is non-inferior to Prevenar (7Pn) when co-administered with Diphtheria-tetanus-whole cell pertussis-hepatitis B vaccine with a lyophilized Haemophilus influenzae type b tetanus conjugate vaccine (DTPw-HBV/Hib) and Polio Sabin (OPV) or Poliorix (IPV) vaccines, in terms of post-immunization booster reactions with rectal temperature greater than (>) 39.0 degrees Celsius (°C) in children at 12 to 18 months of age. Criteria for safety: Non-inferiority will be demonstrated if one can rule out an increase, in terms of percentage of subjects with rectal temperature >39.0°C (10Pn-PD-DiT group as compared to Prevenar group), above 5 percent (%) + half the incidence in the control group (= the null hypothesis) as shown by an one-sided P-value lesser than (<) 2.5%.

Protection of trial subjects:

All subjects were supervised closely for at least 30 minutes following vaccination with appropriate medical treatment readily available. 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. Subjects were followed-up from the time the subject consents to participate in the study until she/he is discharged.

As with all injectable vaccines, Tritanrix-HepB should be administered with caution to subjects with thrombocytopenia or a bleeding disorder since bleeding may occur following an intramuscular administration to these subjects. Tritanrix-HepB should under no circumstances be administered intravenously.

Background therapy: -

Evidence for comparator: -

| | |
|---|-----------------|
| Actual start date of recruitment | 22 October 2007 |
| Long term follow-up planned | Yes |
| Long term follow-up rationale | Safety |
| Long term follow-up duration | 6 Months |
| Independent data monitoring committee (IDMC) involvement? | No |

Notes:

Population of trial subjects

Subjects enrolled per country

| | |
|--------------------------------------|------------------|
| Country: Number of subjects enrolled | Poland: 383 |
| Country: Number of subjects enrolled | Philippines: 373 |
| Worldwide total number of subjects | 756 |
| EEA total number of subjects | 383 |

Notes:

| Subjects enrolled per age group | |
|---|-----|
| In utero | 0 |
| Preterm newborn - gestational age < 37 wk | 0 |
| Newborns (0-27 days) | 0 |
| Infants and toddlers (28 days-23 months) | 756 |
| Children (2-11 years) | 0 |
| 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 | Overall period (overall period) |
| Is this the baseline period? | Yes |
| Allocation method | Non-randomised - controlled |
| Blinding used | Double blind |
| Roles blinded | Subject, Investigator, Monitor, Carer, Assessor |

Blinding implementation details:

The study was conducted in an observer-blind/double-blind fashion. Due to the different appearance of the 10Pn-PD-DiT and Prevenar vaccines, a different person than the one who administered the vaccines, performed the safety assessments in order to keep the study double-blind.

In addition, the Clinical Report and the Individual Data Listings of the primary vaccination study 10PN-PD-DIT-012 were not shared with the Investigator before the booster study was over.

Arms

| | |
|------------------------------|---|
| Are arms mutually exclusive? | Yes |
| Arm title | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group |

Arm description:

Subjects in the Philippines, primary vaccinated at 6-10-14 weeks of age, receiving booster dose of Synflorix vaccine, co-administered with Tritanrix-HepB/ Hiberix and Polio Sabin vaccines at 12-18 months of age.

| | |
|--|--|
| Arm type | Experimental |
| Investigational medicinal product name | Pneumococcal conjugate vaccine GSK1024850A |
| Investigational medicinal product code | |
| Other name | 10Pn-PD-DiT vaccine |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

1 booster dose administered in the right thigh or deltoid at 12-18 months of age.

| | |
|--|-------------------|
| Investigational medicinal product name | Tritanrix-HepB |
| Investigational medicinal product code | |
| Other name | DTPw-HBV |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

1 dose administered in the left thigh or deltoid at 12-18 months of age, recombined with Hiberix.

| | |
|--|-------------------|
| Investigational medicinal product name | Hiberix |
| Investigational medicinal product code | |
| Other name | Hib vaccine |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

Reconstituted with Tritanrix-HepB before injection, 1-dose administered in the left thigh or deltoid at 12-18 months of age.

| | |
|--|-----------------|
| Investigational medicinal product name | Polio Sabin |
| Investigational medicinal product code | |
| Other name | OPV vaccine |
| Pharmaceutical forms | Oral suspension |
| Routes of administration | Oral use |

Dosage and administration details:

1 dose at 12-18 months of age.

| | |
|------------------|---|
| Arm title | Prevenar + Tritanrix -HepB/ Hiberix + Polio Sabin Group |
|------------------|---|

Arm description:

Subjects in the Philippines, primary vaccinated at 6-10-14 weeks of age, receiving booster dose of the Prevenar vaccine, co-administered with Tritanrix -HepB/Hiberix and Polio Sabin vaccines at 12-18 months of age.

| | |
|--|--------------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Prevenar |
| Investigational medicinal product code | |
| Other name | Pneumococcal conjugate vaccine |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

1 booster dose administered in the right thigh or deltoid at 12-18 months of age.

| | |
|--|-------------------|
| Investigational medicinal product name | Tritanrix-HepB |
| Investigational medicinal product code | |
| Other name | DTPw-HBV |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

1 dose administered in the left thigh or deltoid at 12-18 months of age, recombined with Hiberix.

| | |
|--|-------------------|
| Investigational medicinal product name | Hiberix |
| Investigational medicinal product code | |
| Other name | Hib vaccine |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

Reconstituted with Tritanrix-HepB before injection, 1-dose administered in the left thigh or deltoid at 12-18 months of age.

| | |
|--|-----------------|
| Investigational medicinal product name | Polio Sabin |
| Investigational medicinal product code | |
| Other name | OPV vaccine |
| Pharmaceutical forms | Oral suspension |
| Routes of administration | Oral use |

Dosage and administration details:

1 dose at 12-18 months of age.

| | |
|------------------|---|
| Arm title | Synflorix + Tritanrix -HepB/ Hiberix + Poliorix Group |
|------------------|---|

Arm description:

Subjects in Poland, primary vaccinated at 2-4-6 months of age, receiving booster dose of Synflorix vaccine co-administered with Tritanrix -HepB/Hiberix and Poliorix vaccines at 12-18 months of age.

| | |
|--|--|
| Arm type | Experimental |
| Investigational medicinal product name | Pneumococcal conjugate vaccine GSK1024850A |
| Investigational medicinal product code | |
| Other name | 10Pn-PD-DiT vaccine |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |

| | |
|---|--|
| Dosage and administration details: | |
| 1 booster dose administered in the right thigh or deltoid at 12-18 months of age. | |
| Investigational medicinal product name | Tritanrix-HepB |
| Investigational medicinal product code | |
| Other name | DTPw-HBV |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |
| Dosage and administration details: | |
| 1 dose administered in the left thigh or deltoid at 12-18 months of age, recombined with Hiberix. | |
| Investigational medicinal product name | Hiberix |
| Investigational medicinal product code | |
| Other name | Hib vaccine |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |
| Dosage and administration details: | |
| Reconstituted with Tritanrix-HepB before injection, 1-dose administered in the left thigh or deltoid at 12-18 months of age. | |
| Investigational medicinal product name | Poliorix |
| Investigational medicinal product code | |
| Other name | IPV vaccine |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |
| Dosage and administration details: | |
| 1 dose administered in the lower left thigh or deltoid at 12-18 months of age. | |
| Arm title | Prevenar + Tritanrix -HepB/ Hiberix + Poliorix Group |
| Arm description: | |
| Subjects in Poland, primary vaccinated at 2-4-6 months of age, receiving booster dose of the Prevenar vaccine, co-administered with Tritanrix -HepB/Hiberix and Poliorix vaccines at 12-18 months of age. | |
| Arm type | Experimental |
| Investigational medicinal product name | Prevenar |
| Investigational medicinal product code | |
| Other name | Pneumococcal conjugate vaccine |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |
| Dosage and administration details: | |
| 1 booster dose administered in the right thigh or deltoid at 12-18 months of age. | |
| Investigational medicinal product name | Tritanrix-HepB |
| Investigational medicinal product code | |
| Other name | DTPw-HBV |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |
| Dosage and administration details: | |
| 1 dose administered in the left thigh or deltoid at 12-18 months of age, recombined with Hiberix. | |
| Investigational medicinal product name | Hiberix |
| Investigational medicinal product code | |
| Other name | Hib vaccine |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |
| Dosage and administration details: | |
| Reconstituted with Tritanrix-HepB before injection, 1-dose administered in the left thigh or deltoid at 12-18 months of age. | |

| | |
|--|-------------------|
| Investigational medicinal product name | Poliorix |
| Investigational medicinal product code | |
| Other name | IPV vaccine |
| Pharmaceutical forms | Injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

1 dose administered in the lower left thigh or deltoid at 12-18 months of age.

| Number of subjects in period 1 | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix -HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix -HepB/ Hiberix + Poliorix Group |
|---------------------------------------|---|---|---|
| Started | 280 | 93 | 285 |
| Completed | 280 | 93 | 275 |
| Not completed | 0 | 0 | 10 |
| Consent withdrawn by subject | - | - | 7 |
| Migrated/moved from study area | - | - | 2 |
| Protocol deviation | - | - | 1 |

| Number of subjects in period 1 | Prevenar + Tritanrix -HepB/ Hiberix + Poliorix Group |
|---------------------------------------|--|
| Started | 98 |
| Completed | 96 |
| Not completed | 2 |
| Consent withdrawn by subject | 1 |
| Migrated/moved from study area | - |
| Protocol deviation | 1 |

Baseline characteristics

Reporting groups

| | |
|--|---|
| Reporting group title | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group |
| Reporting group description: Subjects in the Philippines, primary vaccinated at 6-10-14 weeks of age, receiving booster dose of Synflorix vaccine, co-administered with Tritanrix-HepB/ Hiberix and Polio Sabin vaccines at 12-18 months of age. | |
| Reporting group title | Prevenar + Tritanrix -HepB/ Hiberix + Polio Sabin Group |
| Reporting group description: Subjects in the Philippines, primary vaccinated at 6-10-14 weeks of age, receiving booster dose of the Prevenar vaccine, co-administered with Tritanrix -HepB/Hiberix and Polio Sabin vaccines at 12-18 months of age. | |
| Reporting group title | Synflorix + Tritanrix -HepB/ Hiberix + Poliorix Group |
| Reporting group description: Subjects in Poland, primary vaccinated at 2-4-6 months of age, receiving booster dose of Synflorix vaccine co-administered with Tritanrix -HepB/Hiberix and Poliorix vaccines at 12-18 months of age. | |
| Reporting group title | Prevenar + Tritanrix -HepB/ Hiberix + Poliorix Group |
| Reporting group description: Subjects in Poland, primary vaccinated at 2-4-6 months of age, receiving booster dose of the Prevenar vaccine, co-administered with Tritanrix -HepB/Hiberix and Poliorix vaccines at 12-18 months of age. | |

| Reporting group values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix -HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix -HepB/ Hiberix + Poliorix Group |
|---|---|---|---|
| Number of subjects | 280 | 93 | 285 |
| Age categorical Units: Subjects | | | |
| In utero | 0 | 0 | 0 |
| Preterm newborn infants (gestational age < 37 wks) | 0 | 0 | 0 |
| Newborns (0-27 days) | 0 | 0 | 0 |
| Infants and toddlers (28 days-23 months) | 280 | 93 | 285 |
| Children (2-11 years) | 0 | 0 | 0 |
| Adolescents (12-17 years) | 0 | 0 | 0 |
| Adults (18-64 years) | 0 | 0 | 0 |
| From 65-84 years | 0 | 0 | 0 |
| 85 years and over | 0 | 0 | 0 |
| Age continuous Units: months | | | |
| arithmetic mean | 16.2 | 16.2 | 17.2 |
| standard deviation | ± 0.66 | ± 0.59 | ± 0.84 |
| Gender categorical Units: Subjects | | | |
| Female | 133 | 43 | 134 |
| Male | 147 | 50 | 151 |

| Reporting group values | Prevenar + Tritanrix -HepB/ Hiberix + Poliorix Group | Total | |
|------------------------|--|-------|--|
| Number of subjects | 98 | 756 | |

| | | | |
|---|--------|-----|--|
| Age categorical Units: Subjects | | | |
| In utero | 0 | 0 | |
| Preterm newborn infants (gestational age < 37 wks) | 0 | 0 | |
| Newborns (0-27 days) | 0 | 0 | |
| Infants and toddlers (28 days-23 months) | 98 | 756 | |
| Children (2-11 years) | 0 | 0 | |
| Adolescents (12-17 years) | 0 | 0 | |
| Adults (18-64 years) | 0 | 0 | |
| From 65-84 years | 0 | 0 | |
| 85 years and over | 0 | 0 | |
| Age continuous Units: months | | | |
| arithmetic mean | 17.2 | | |
| standard deviation | ± 0.88 | - | |
| Gender categorical Units: Subjects | | | |
| Female | 43 | 353 | |
| Male | 55 | 403 | |

Subject analysis sets

| | |
|--|------------------------|
| Subject analysis set title | Synflorix Pooled Group |
| Subject analysis set type | Sub-group analysis |
| Subject analysis set description: 10pn epi+ 10pn246 | |
| Subject analysis set title | Prevenar Pooled Group |
| Subject analysis set type | Sub-group analysis |
| Subject analysis set description: 7pnepi +7pn246 | |

| Reporting group values | Synflorix Pooled Group | Prevenar Pooled Group | |
|---|------------------------|-----------------------|--|
| Number of subjects | 558 | 189 | |
| Age categorical Units: Subjects | | | |
| In utero | 0 | 0 | |
| Preterm newborn infants (gestational age < 37 wks) | 0 | 0 | |
| Newborns (0-27 days) | 0 | 0 | |
| Infants and toddlers (28 days-23 months) | 558 | 189 | |
| Children (2-11 years) | 0 | 0 | |
| Adolescents (12-17 years) | 0 | 0 | |
| Adults (18-64 years) | 0 | 0 | |
| From 65-84 years | 0 | 0 | |
| 85 years and over | 0 | 0 | |
| Age continuous Units: months | | | |
| arithmetic mean | | | |
| standard deviation | ± | ± | |

| | | | |
|--------------------|--|--|--|
| Gender categorical | | | |
| Units: Subjects | | | |
| Female | | | |
| Male | | | |

End points

End points reporting groups

| | |
|--|---|
| Reporting group title | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group |
| Reporting group description: Subjects in the Philippines, primary vaccinated at 6-10-14 weeks of age, receiving booster dose of Synflorix vaccine, co-administered with Tritanrix-HepB/ Hiberix and Polio Sabin vaccines at 12-18 months of age. | |
| Reporting group title | Prevenar + Tritanrix -HepB/ Hiberix + Polio Sabin Group |
| Reporting group description: Subjects in the Philippines, primary vaccinated at 6-10-14 weeks of age, receiving booster dose of the Prevenar vaccine, co-administered with Tritanrix -HepB/Hiberix and Polio Sabin vaccines at 12-18 months of age. | |
| Reporting group title | Synflorix + Tritanrix -HepB/ Hiberix + Poliorix Group |
| Reporting group description: Subjects in Poland, primary vaccinated at 2-4-6 months of age, receiving booster dose of Synflorix vaccine co-administered with Tritanrix -HepB/Hiberix and Poliorix vaccines at 12-18 months of age. | |
| Reporting group title | Prevenar + Tritanrix -HepB/ Hiberix + Poliorix Group |
| Reporting group description: Subjects in Poland, primary vaccinated at 2-4-6 months of age, receiving booster dose of the Prevenar vaccine, co-administered with Tritanrix -HepB/Hiberix and Poliorix vaccines at 12-18 months of age. | |
| Subject analysis set title | Synflorix Pooled Group |
| Subject analysis set type | Sub-group analysis |
| Subject analysis set description: 10pn epi+ 10pn246 | |
| Subject analysis set title | Prevenar Pooled Group |
| Subject analysis set type | Sub-group analysis |
| Subject analysis set description: 7pnepi +7pn246 | |

Primary: Number of subjects reporting rectal temperature > the cut-off

| | |
|--|---|
| End point title | Number of subjects reporting rectal temperature > the cut-off |
| End point description: Fever was measured as rectal temperature. The cut-off was 39.0°C. Assessment of occurrences of fever > 39.0 (°C) was performed after booster vaccination with Synflorix or Prevenar vaccines. The analysis was performed on the Total Vaccinated Cohort, which included all vaccinated subjects with the symptom sheets filled in. For the purpose of the analysis, subjects were pooled into two groups, according to the booster vaccine they have received (Synflorix or Prevenar). | |
| End point type | Primary |
| End point timeframe: Within 4-day (Days 0-3) period after booster vaccination | |

| End point values | Synflorix Pooled Group | Prevenar Pooled Group | | |
|-----------------------------|------------------------|-----------------------|--|--|
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 558 | 189 | | |
| Units: Subjects | | | | |
| Fever > 39.0°C | 64 | 20 | | |

Statistical analyses

| | |
|---|--|
| Statistical analysis title | Non-inferiority of 10Pnvs7Pn vaccine after Booster |
| Comparison groups | Synflorix Pooled Group v Prevenar Pooled Group |
| Number of subjects included in analysis | 747 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority ^[1] |
| P-value | < 0.001 |
| Method | Philips' statistical test |
| Parameter estimate | Difference in percentage |
| Point estimate | 0.89 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -4.82 |
| upper limit | 5.59 |

Notes:

[1] - Non-inferiority was demonstrated if the difference in terms of incidence of post-immunization febrile reactions (rectal temperature > 39.0°C) in Synflorix (10Pn) vaccine minus Prevenar (7Pn) did not exceed the pre-defined clinically acceptable threshold of 5% + half the incidence in 7Pn.

Secondary: Number of subjects with any and Grade 3 solicited local symptoms

| | |
|-----------------|--|
| End point title | Number of subjects with any and Grade 3 solicited local symptoms |
|-----------------|--|

End point description:

Solicited local symptoms assessed included pain, redness and swelling. Grade 3 pain was defined as crying when limb was moved/spontaneously painful. "Any" was defined as incidence of the specified symptom regardless of intensity. Grade 3 swelling/redness was defined as swelling/redness > 30 millimeters (mm).

The analysis was performed on the Total Vaccinated Cohort, which included all vaccinated subjects with the symptom sheet filled-in.

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

End point timeframe:

Within 4-day (Days 0-3) period after booster vaccination

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|-----------------------------|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 280 | 93 | 278 | 96 |
| Units: Subjects | | | | |
| Any Pain | 203 | 66 | 248 | 77 |
| Grade 3 Pain | 40 | 20 | 117 | 39 |
| Any Redness | 107 | 37 | 197 | 66 |

| | | | | |
|------------------|----|----|-----|----|
| Grade 3 Redness | 8 | 3 | 35 | 11 |
| Any Swelling | 92 | 32 | 158 | 52 |
| Grade 3 Swelling | 21 | 9 | 34 | 8 |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with any and Grade 3 solicited general symptoms

| | |
|-----------------|--|
| End point title | Number of subjects with any and Grade 3 solicited general symptoms |
|-----------------|--|

End point description:

Solicited general symptoms assessed include drowsiness, fever [defined as rectal temperature greater than or equal to (\geq) 38.0°C], irritability, and loss of appetite. "Any" was defined as incidence of the specified symptom regardless of intensity or relationship to study vaccination. Grade 3 drowsiness was defined as drowsiness which prevented normal everyday activities. Grade 3 fever was defined as fever (rectal temperature) $> 40.0^{\circ}\text{C}$. Grade 3 irritability was defined as crying that could not be comforted/preventing normal activity. Grade 3 loss of appetite was defined as the subject not eating at all.

The analysis was performed on the Total Vaccinated Cohort, which included all vaccinated subjects with the symptom sheet filled-in.

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

End point timeframe:

Within 4-day (Days 0-3) period after booster vaccination

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|-----------------------------|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 280 | 93 | 278 | 96 |
| Units: Subjects | | | | |
| Any Drowsiness | 90 | 32 | 190 | 66 |
| Grade 3 Drowsiness | 5 | 1 | 7 | 2 |
| Any Fever | 138 | 51 | 215 | 65 |
| Grade 3 Fever | 0 | 0 | 1 | 0 |
| Any Irritability | 173 | 64 | 243 | 79 |
| Grade 3 Irritability | 12 | 3 | 40 | 5 |
| Any Loss of appetite | 97 | 28 | 184 | 57 |
| Grade 3 Loss of appetite | 8 | 1 | 13 | 1 |

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: An AE is any untoward medical occurrence in a clinical investigation subject, temporally associated with the use of a medicinal product, whether or not considered related to the medicinal product. "Any" was defined an incidence of an unsolicited AE regardless of intensity or relationship to study vaccination. The analysis was performed on the Total Vaccinated Cohort, which included all vaccinated subjects. | |
| End point type | Secondary |
| End point timeframe: Within the 31-day (Days 0-30) period after booster vaccination | |

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|-----------------------------|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 280 | 93 | 285 | 98 |
| Units: Subjects | | | | |
| Any AE(s) | 25 | 9 | 106 | 35 |

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: SAEs assessed include medical occurrences that result in death, are life threatening, require hospitalization or prolongation of hospitalization or result in disability/ incapacity. The analysis was performed on the Total Vaccinated Cohort, which included all vaccinated subjects. | |
| End point type | Secondary |
| End point timeframe: Throughout the active phase of the study (Month 0 to Month 1) | |

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|-----------------------------|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 280 | 93 | 285 | 98 |
| Units: Subjects | | | | |
| Any SAE(s) | 2 | 0 | 5 | 2 |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with SAEs

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

End point description:

The analysis was performed on the Total Vaccinated Cohort, which included all vaccinated subjects.

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

End point timeframe:

Throughout the entire study period starting from the beginning of the booster phase (Month 0) up to the end of the 6-month safety follow-up period

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|-----------------------------|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 280 | 93 | 285 | 98 |
| Units: Subjects | | | | |
| Any SAE(s) | 6 | 1 | 14 | 5 |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antibody concentrations \geq the cut-off

| | |
|-----------------|--|
| End point title | Number of subjects with anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antibody concentrations \geq the cut-off |
|-----------------|--|

End point description:

The cut-off was 0.20 microgram per milliliter ($\mu\text{g/mL}$).

The analysis was performed on the According-To-Protocol (ATP) cohort for persistence, which included all subjects for whom assay results were available for antibodies against at least one study vaccine antigen component for the blood sampling taken before the administration of the study booster dose (pre-booster blood sampling).

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

End point timeframe:

Prior to (Month 0) and one month after booster vaccination (Month 1)

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|-------------------------------------|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 136 | 43 | 130 | 44 |
| Units: Subjects | | | | |
| Anti-1, Month 0 [N=136;42;128;40] | 100 | 2 | 64 | 2 |
| Anti-1, Month 1 [N=136;42;125;43] | 136 | 3 | 125 | 2 |
| Anti-4, Month 0 [N=135;43;130;42] | 113 | 25 | 78 | 23 |
| Anti-4, Month 1 [N=136;43;125;43] | 136 | 43 | 125 | 43 |
| Anti-5, Month 0 [N=135;42;129;42] | 118 | 7 | 98 | 3 |
| Anti-5, Month 1 [N=136;43;125;43] | 136 | 8 | 124 | 3 |
| Anti-6B, Month 0 [N=135;43;129;44] | 113 | 24 | 90 | 27 |
| Anti-6B, Month 1 [N=136;42;125;43] | 134 | 42 | 122 | 41 |
| Anti-7F, Month 0 [N=135;43;130;42] | 128 | 7 | 118 | 1 |
| Anti-7F, Month 1 [N=136;43;125;43] | 136 | 9 | 125 | 1 |
| Anti-9V, Month 0 [N=135;42;130;44] | 132 | 40 | 116 | 42 |
| Anti-9V, Month 1 [N=136;43;125;43] | 136 | 43 | 125 | 43 |
| Anti-14, Month 0 [N=134;43;130;43] | 126 | 42 | 111 | 40 |
| Anti-14, Month 1 [N=136;43;125;43] | 135 | 43 | 125 | 43 |
| Anti-18C, Month 0 [N=135;43;130;44] | 130 | 36 | 111 | 35 |
| Anti-18C, Month 1 [N=136;43;125;43] | 136 | 43 | 125 | 43 |
| Anti-19F, Month 0 [N=135;43;130;44] | 129 | 11 | 121 | 22 |
| Anti-19F, Month 1 [N=136;43;125;43] | 136 | 43 | 123 | 43 |
| Anti-23F, Month 0 [N=133;43;130;44] | 123 | 32 | 89 | 40 |
| Anti-23F, Month 1 [N=136;43;125;43] | 135 | 42 | 123 | 42 |

Statistical analyses

No statistical analyses for this end point

Secondary: Anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antibody concentrations

| | |
|-----------------|---|
| End point title | Anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antibody concentrations |
|-----------------|---|

End point description:

Seropositivity status, defined as anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antibody concentrations ≥ 0.05 µg/mL.

The analysis was performed on the According-To-Protocol (ATP) cohort for persistence, which included all subjects for whom assay results were available for antibodies against at least one study vaccine antigen component for the blood sampling taken before the administration of the study booster dose (pre-booster blood sampling).

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

End point timeframe:

Prior to (Month 0) and one month after booster vaccination (Month 1)

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|---|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 136 | 43 | 130 | 44 |
| Units: µg/mL | | | | |
| geometric mean (confidence interval 95%) | | | | |
| Anti-1, Month 0 [N=136;42;128;40] | 0.35 (0.29 to 0.42) | 0.03 (0.03 to 0.04) | 0.19 (0.16 to 0.22) | 0.04 (0.03 to 0.05) |
| Anti-1, Month 1 [N=136;42;125;43] | 10.8 (9.22 to 12.66) | 0.04 (0.03 to 0.05) | 2.14 (1.8 to 2.55) | 0.04 (0.03 to 0.05) |
| Anti-4, Month 0 [N=135;43;130;42] | 0.55 (0.45 to 0.67) | 0.34 (0.25 to 0.45) | 0.27 (0.22 to 0.33) | 0.24 (0.19 to 0.3) |
| Anti-4, Month 1 [N=136;43;125;43] | 13.16 (11.43 to 15.14) | 11.84 (8.74 to 16.04) | 4.21 (3.61 to 4.91) | 6.86 (5.39 to 8.73) |
| Anti-5, Month 0 [N=135;42;129;42] | 0.55 (0.47 to 0.64) | 0.06 (0.04 to 0.09) | 0.4 (0.34 to 0.47) | 0.04 (0.03 to 0.05) |
| Anti-5, Month 1 [N=136;43;125;43] | 14.59 (12.53 to 16.99) | 0.09 (0.06 to 0.13) | 2.54 (2.11 to 3.06) | 0.05 (0.04 to 0.06) |
| Anti-6B, Month 0 [N=135;43;129;44] | 0.66 (0.54 to 0.8) | 0.38 (0.22 to 0.65) | 0.34 (0.28 to 0.41) | 0.34 (0.20 to 0.59) |
| Anti-6B, Month 1 [N=136;42;125;43] | 7.02 (5.83 to 8.45) | 9.08 (6.5 to 12.7) | 2.31 (1.93 to 2.75) | 6.28 (4.18 to 9.44) |
| Anti-7F, Month 0 [N=135;43;130;42] | 0.9 (0.77 to 1.04) | 0.05 (0.03 to 0.07) | 0.58 (0.51 to 0.67) | 0.03 (0.03 to 0.04) |
| Anti-7F, Month 1 [N=136;43;125;43] | 12.52 (11.09 to 14.13) | 0.06 (0.04 to 0.1) | 4.14 (3.61 to 4.74) | 0.03 (0.03 to 0.04) |
| Anti-9V, Month 0 [N=135;42;130;44] | 1.16 (0.98 to 1.37) | 0.77 (0.59 to 0.99) | 0.59 (0.5 to 0.7) | 0.58 (0.47 to 0.71) |
| Anti-9V, Month 1 [N=136;43;125;43] | 14.42 (12.44 to 16.7) | 20.31 (15.44 to 26.71) | 4.63 (4 to 5.36) | 13.6 (11.12 to 16.62) |
| Anti-14, Month 0 [N=134;43;130;43] | 1.32 (1.07 to 1.63) | 1.83 (1.26 to 2.66) | 0.84 (0.66 to 1.07) | 1.04 (0.75 to 1.43) |
| Anti-14, Month 1 [N=136;43;125;43] | 17.07 (14.12 to 20.64) | 27.42 (20.96 to 35.86) | 5.93 (4.97 to 7.09) | 15.51 (12.14 to 19.82) |
| Anti-18C, Month 0 [N=135;43;130;44] | 1.43 (1.2 to 1.71) | 0.42 (0.32 to 0.55) | 0.63 (0.52 to 0.77) | 0.4 (0.3 to 0.53) |
| Anti-18C, Month 1 [N=136;43;125;43] | 39.59 (34.04 to 46.05) | 12.07 (9.23 to 15.79) | 10.49 (8.81 to 12.49) | 9.92 (7.74 to 12.71) |
| Anti-19F, Month 0 [N=135;43;130;44] | 1.33 (1.08 to 1.64) | 0.16 (0.1 to 0.26) | 0.99 (0.81 to 1.22) | 0.35 (0.2 to 0.61) |
| Anti-19F, Month 1 [N=136;43;125;43] | 21.25 (18.07 to 24.98) | 6.61 (4.9 to 8.92) | 12.23 (9.89 to 15.13) | 6.01 (4.75 to 7.6) |
| Anti-23F, Month 0 [N=133;43;130;44] | 0.94 (0.76 to 1.16) | 0.41 (0.26 to 0.64) | 0.33 (0.27 to 0.4) | 0.62 (0.43 to 0.91) |
| Anti-23F, Month 1 [N=136;43;125;43] | 13.47 (11.38 to 15.94) | 14.78 (9.45 to 23.11) | 3.16 (2.61 to 3.83) | 10.77 (7.19 to 16.12) |

Statistical analyses

No statistical analyses for this end point

Secondary: Opsonophagocytic activity (OPA) titers against pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F

| | |
|---|---|
| End point title | Opsonophagocytic activity (OPA) titers against pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F |
| End point description: | |
| Seropositivity status, defined as Opsonophagocytic activity against pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F ≥ 8 . The analysis was performed on the According-To-Protocol (ATP) cohort for persistence, which included all subjects for whom assay results were available for antibodies against at least one study vaccine antigen component for the blood sampling taken before the administration of the study booster dose (pre-booster blood sampling). | |
| End point type | Secondary |
| End point timeframe: | |
| Prior to (Month 0) and one month after booster vaccination (Month 1) | |

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|--|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 136 | 43 | 125 | 37 |
| Units: Titers | | | | |
| geometric mean (confidence interval 95%) | | | | |
| OPA Anti-1, Month 0 [N=134;43;122;37] | 13.2 (10.2 to 16.9) | 4.6 (3.9 to 5.4) | 8.5 (7 to 10.5) | 4.7 (3.8 to 5.8) |
| OPA Anti-1, Month 1 [N=134;43;120;37] | 1571.6 (1210.7 to 2040) | 4.9 (4.1 to 5.8) | 161.4 (120.7 to 215.9) | 5.4 (4 to 7.4) |
| OPA Anti-4, Month 0 [N=127;42;114;33] | 40.5 (27.6 to 59.2) | 18.5 (10 to 34.2) | 12.5 (8.9 to 17.4) | 12.4 (6.7 to 22.8) |
| OPA Anti-4, Month 1 [N=134;43;119;35] | 5035.8 (4214 to 6017.8) | 4783.5 (3432 to 6667.2) | 2498.7 (2103.3 to 2968.4) | 4812.5 (3167.8 to 7311.3) |
| OPA Anti-5, Month 0 [N=133;43;119;36] | 19.8 (16 to 24.7) | 4.2 (3.8 to 4.6) | 10.9 (8.8 to 13.6) | 4.5 (3.7 to 5.5) |
| OPA Anti-5, Month 1 [N=130;43;117;36] | 1135.8 (928.5 to 1389.6) | 4.9 (3.9 to 6) | 149.1 (115.4 to 192.5) | 4.3 (3.8 to 4.8) |
| OPA Anti-6B, Month 0 [N=132;43;124;37] | 97.8 (61.5 to 155.5) | 56.6 (21.3 to 150.1) | 9.9 (7.2 to 13.5) | 23.3 (9.1 to 60.1) |
| OPA Anti-6B, Month 1 [N=136;43;120;35] | 2896.8 (2247.5 to 3733.8) | 9302.7 (7187.3 to 12040.8) | 405.3 (267.4 to 614.3) | 3547.1 (1500.7 to 8384.5) |
| OPA Anti-7F, Month 0 [N=135;41;116;31] | 2278.4 (1803.1 to 2879) | 378.8 (136.9 to 1048) | 796.3 (582.2 to 1089.1) | 63.6 (21.3 to 190.1) |
| OPA Anti-9V, Month 0 [N=136;42;122;37] | 788 (655.1 to 947.8) | 666.8 (482.1 to 922.2) | 380.2 (313.1 to 461.7) | 247.5 (164.9 to 371.3) |
| OPA Anti-9V, Month 1 [N=134;42;121;35] | 4842 (4122.7 to 5686.9) | 7387.8 (5429.2 to 10052.9) | 3499.9 (2950.8 to 4151.3) | 6881.4 (4883.6 to 9696.4) |
| OPA Anti-14, Month 0 [N=130;42;106;31] | 298.4 (220.1 to 404.7) | 337.2 (207 to 549.2) | 179.6 (127.4 to 253.2) | 236.6 (132.6 to 422.2) |
| OPA Anti-14, Month 1 [N=132;42;120;36] | 3579.7 (2966.3 to 4319.9) | 4097.3 (3019.2 to 5560.2) | 1961.3 (1630 to 2359.8) | 2939.5 (2022.3 to 4272.7) |
| OPA Anti-18C, Month 0 [N=129;42;121;37] | 19.8 (15.2 to 25.9) | 4.5 (3.9 to 5.2) | 7.8 (6.5 to 9.4) | 4.5 (4 to 5.2) |

| | | | | |
|--|----------------------------------|------------------------------------|------------------------------|------------------------------------|
| OPA Anti-18C, Month 1 [N=134;43;115;36] | 2417.2 (1989.9 to 2936.2) | 966.5 (607.1 to 1538.6) | 694 (532.9 to 903.7) | 612.1 (338.4 to 1107) |
| OPA Anti-19F, Month 0 [N=135;43;125;37] | 58.6 (45.2 to 76) | 7.3 (4.5 to 11.8) | 33.3 (25.7 to 43.2) | 11.1 (6 to 20.6) |
| OPA Anti-19F, Month 1 [N=136;42;122;37] | 2016 (1609 to 2526) | 473.2 (263.5 to 849.9) | 1059.8 (808.2 to 1389.7) | 471 (270 to 821.8) |
| OPA Anti-23F, Month 0 [N=136;43;118;36] | 948.9 (688.4 to 1308.2) | 661.9 (312.5 to 1402) | 301.8 (198.4 to 459) | 790.6 (326.8 to 1912.6) |
| OPA Anti-23F, Month 1 [N=136;43;121;37] | 7456.2 (6301.9 to 8822) | 23177.9 (13235.9 to 40587.7) | 3427.3 (2727.7 to 4306.3) | 19943.3 (13473.1 to 29520.5) |
| OPA Anti-7F, Month 1 [N=136;42;122;24] | 12484 (10750.7 to 14496.8) | 1407.7 (694.6 to 2852.9) | 6436.1 (5507.6 to 7521) | 90.6 (25.2 to 325.5) |

Statistical analyses

No statistical analyses for this end point

Secondary: Antibody concentrations to protein D (Anti-PD)

| | |
|--|--|
| End point title | Antibody concentrations to protein D (Anti-PD) |
| End point description: | |
| Seropositivity status, defined as anti-PD antibody concentrations ≥ 100 enzyme-linked immunosorbent assay (ELISA) units per milliliter (EL.U/mL). The analysis was performed on the According-To-Protocol (ATP) cohort for persistence, which included all subjects for whom assay results were available for antibodies against at least one study vaccine antigen component for the blood sampling taken before the administration of the study booster dose (pre-booster blood sampling). | |
| End point type | Secondary |
| End point timeframe: | |
| Prior to (Month 0) and one month after booster vaccination (Month 1) | |

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|---|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 135 | 43 | 128 | 43 |
| Units: EL.U/mL | | | | |
| geometric mean (confidence interval 95%) | | | | |
| Anti-PD, Month 0 [N=132;43;128;43] | 573.1 (495.7 to 662.6) | 136.8 (102 to 183.3) | 526.8 (427.4 to 649.3) | 73.8 (58.4 to 93.2) |
| Anti-PD, Month 1 [N= 135;43;125;43] | 4973.9 (4280.2 to 5780) | 124.1 (92.8 to 166) | 2769.6 (2308.5 to 3322.7) | 91.6 (72 to 116.7) |

Statistical analyses

Secondary: Antibody concentrations against pneumococcal cross-reactive serotypes 6A and 19A

| | |
|-----------------|--|
| End point title | Antibody concentrations against pneumococcal cross-reactive serotypes 6A and 19A |
|-----------------|--|

End point description:

Seropositivity status, defined as anti-pneumococcal cross-reactive serotypes 6A and 19A antibody concentrations ≥ 0.05 µg/mL.

The analysis was performed on the According-To-Protocol (ATP) cohort for persistence, which included all subjects for whom assay results were available for antibodies against at least one study vaccine antigen component for the blood sampling taken before the administration of the study booster dose (pre-booster blood sampling).

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

End point timeframe:

Prior to (Month 0) and one month after booster vaccination (Month 1)

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|--|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 136 | 43 | 130 | 44 |
| Units: µg/mL | | | | |
| geometric mean (confidence interval 95%) | | | | |
| Anti-6A, Month 0 [N=135;43;130;43] | 0.46 (0.36 to 0.6) | 0.24 (0.14 to 0.4) | 0.12 (0.1 to 0.14) | 0.13 (0.08 to 0.2) |
| Anti-6A, Month 1 [N=136;43;125;43] | 4.07 (3.09 to 5.36) | 4.57 (2.92 to 7.17) | 0.84 (0.65 to 1.08) | 2.54 (1.65 to 3.93) |
| Anti-19A, Month 0 [N=134;43;130;44] | 0.24 (0.19 to 0.3) | 0.08 (0.05 to 0.12) | 0.16 (0.12 to 0.2) | 0.06 (0.04 to 0.08) |
| Anti-19A, Month 1 [N=136;43;125;43] | 3.22 (2.46 to 4.21) | 0.58 (0.37 to 0.91) | 1.75 (1.27 to 2.43) | 0.38 (0.25 to 0.58) |

Statistical analyses

No statistical analyses for this end point

Secondary: Opsonophagocytic activity (OPA) against pneumococcal cross-reactive serotypes 6A and 19A

| | |
|-----------------|--|
| End point title | Opsonophagocytic activity (OPA) against pneumococcal cross-reactive serotypes 6A and 19A |
|-----------------|--|

End point description:

Seropositivity status, defined as Opsonophagocytic activity against pneumococcal cross-reactive serotypes 6A and 19A ≥ 8 .

The analysis was performed on the According-To-Protocol (ATP) cohort for immunogenicity, which included all evaluable subjects for whom immunogenicity data were available. This included subjects for whom assay results were available for antibodies against at least one study vaccine antigen component after booster vaccination.

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

End point timeframe:

Prior to (Month 0) and one month after booster vaccination (Month 1)

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|---|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 134 | 43 | 123 | 36 |
| Units: Titers | | | | |
| geometric mean (confidence interval 95%) | | | | |
| OPA Anti-6A Month 0 [N=117;39;108;32] | 113.6 (73.6 to 175.4) | 191.4 (89.7 to 408.2) | 46.8 (30.8 to 71.1) | 42.2 (19.3 to 92.1) |
| OPA Anti-6A Month 1 [N=133;43;109;32] | 882.8 (665.9 to 1170.3) | 2563.8 (1689.9 to 3889.4) | 369.7 (258.5 to 528.8) | 1394.5 (827.9 to 2348.9) |
| OPA Anti-19A Month 0 [N=134;43;123;36] | 5.3 (4.5 to 6.3) | 5.1 (3.6 to 7.3) | 5.3 (4.5 to 6.2) | 4.4 (3.6 to 5.3) |
| OPA Anti-19A Month 1 [N=133;40;115;32] | 89.3 (58.9 to 135.4) | 8.7 (5.4 to 14.2) | 70.7 (45.3 to 110.4) | 20.3 (8.8 to 46.8) |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antibody concentrations >= the cut-off

| | |
|-----------------|--|
| End point title | Number of subjects with anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antibody concentrations >= the cut-off |
|-----------------|--|

End point description:

The cut-off of the assay was 0.05 µg/mL.

The analysis was performed on the According-To-Protocol (ATP) cohort for persistence, which included all subjects for whom assay results were available for antibodies against at least one study vaccine antigen component for the blood sampling taken before the administration of the study booster dose (pre-booster blood sampling).

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

End point timeframe:

Prior to (Month 0) and one month after booster vaccination (Month 1)

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|-----------------------------|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 136 | 43 | 130 | 44 |
| Units: Subjects | | | | |

| | | | | |
|-------------------------------------|-----|----|-----|----|
| Anti-1, Month 0 [N=136;42;128;40] | 135 | 7 | 122 | 8 |
| Anti-1, Month 1 [N=136;42;125;43] | 136 | 11 | 125 | 9 |
| Anti-4, Month 0 [N=135;43;130;42] | 134 | 43 | 126 | 42 |
| Anti-4, Month 1 [N=136;43;125;43] | 136 | 43 | 125 | 43 |
| Anti-5, Month 0 [N=135;42;129;42] | 135 | 18 | 128 | 13 |
| Anti-5, Month 1 [N=136;43;125;43] | 136 | 31 | 125 | 20 |
| Anti-6B, Month 0 [N=135;43;129;44] | 132 | 40 | 128 | 39 |
| Anti-6B, Month 1 [N=136;42;125;43] | 135 | 42 | 125 | 42 |
| Anti-7F, Month 0 [N=135;43;130;42] | 135 | 13 | 127 | 8 |
| Anti-7F, Month 1 [N=136;43;125;43] | 136 | 17 | 124 | 11 |
| Anti-9V, Month 0 [N=135;42;130;44] | 135 | 42 | 130 | 44 |
| Anti-9V, Month 1 [N=136;43;125;43] | 136 | 43 | 125 | 43 |
| Anti-14, Month 0 [N=134;43;130;43] | 134 | 42 | 130 | 43 |
| Anti-14, Month 1 [N=136;43;125;43] | 136 | 43 | 125 | 43 |
| Anti-18C, Month 0 [N=135;43;130;44] | 135 | 43 | 129 | 44 |
| Anti-18C, Month 1 [N=136;43;125;43] | 136 | 43 | 125 | 43 |
| Anti-19F, Month 0 [N=135;43;130;44] | 134 | 37 | 129 | 43 |
| Anti-19F, Month 1 [N=136;43;125;43] | 136 | 43 | 124 | 43 |
| Anti-23F, Month 0 [N=133;43;130;44] | 132 | 40 | 125 | 43 |
| Anti-23F, Month 1 [N=136;43;125;43] | 136 | 42 | 124 | 42 |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with opsonophagocytic activity (OPA) titers against pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F >= the cut-off

| | |
|-----------------|--|
| End point title | Number of subjects with opsonophagocytic activity (OPA) titers against pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F >= the cut-off |
|-----------------|--|

End point description:

The cut-off for the assay was 8.

The analysis was performed on the According-To-Protocol (ATP) cohort for persistence, which included all subjects for whom assay results were available for antibodies against at least one study vaccine antigen component for the blood sampling taken before the administration of the study booster dose (pre-booster blood sampling).

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

End point timeframe:

Prior to (Month 0) and one month after booster vaccination (Month 1)

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|---------------------------------------|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 136 | 43 | 125 | 37 |
| Units: Subjects | | | | |
| OPA Anti-1, Month 0 [N=134;43;122;37] | 61 | 3 | 45 | 3 |

| | | | | |
|--|-----|----|-----|----|
| OPA Anti-1, Month 1 [N=134;43;120;37] | 134 | 5 | 114 | 5 |
| OPA Anti-4, Month 0 [N=127;42;114;33] | 83 | 20 | 39 | 12 |
| OPA Anti-4, Month 1 [N=134;43;119;35] | 134 | 43 | 119 | 35 |
| OPA Anti-5, Month 0 [N=133;43;119;36] | 94 | 1 | 56 | 2 |
| OPA Anti-5, Month 1 [N=130;43;117;36] | 130 | 4 | 114 | 1 |
| OPA Anti-6B, Month 0 [N=132;43;124;37] | 93 | 21 | 34 | 14 |
| OPA Anti-6B, Month 1 [N=136;43;120;35] | 134 | 43 | 106 | 32 |
| OPA Anti-7F, Month 0 [N=135;41;116;31] | 133 | 28 | 109 | 15 |
| OPA Anti-7F, Month 1 [N=136;40;122;24] | 136 | 36 | 122 | 13 |
| OPA Anti-9V, Month 0 [N=136;42;122;37] | 135 | 42 | 121 | 36 |
| OPA Anti-9V, Month 1 [N=134;42;121;35] | 134 | 42 | 121 | 35 |
| OPA Anti-14, Month 0 [N=130;42;106;31] | 119 | 39 | 93 | 29 |
| OPA Anti-14, Month 1 [N=132;42;120;36] | 132 | 42 | 120 | 36 |
| OPA Anti-18C, Month 0 [N=129;42;121;37] | 84 | 3 | 42 | 4 |
| OPA Anti-18C, Month 1 [N=134;43;115;36] | 133 | 42 | 114 | 36 |
| OPA Anti-19F, Month 0 [N=135;43;125;37] | 117 | 7 | 96 | 12 |
| OPA Anti-19F, Month 1 [N=136;42;122;37] | 135 | 39 | 118 | 36 |
| OPA Anti-23F, Month 0 [N=136;43;118;36] | 130 | 37 | 99 | 30 |
| OPA Anti-23F, Month 1 [N=136;43;121;37] | 136 | 42 | 120 | 37 |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with concentrations of antibodies against cross-reactive pneumococcal serotypes 6A and 19A \geq the cut-off

| | |
|-----------------|--|
| End point title | Number of subjects with concentrations of antibodies against cross-reactive pneumococcal serotypes 6A and 19A \geq the cut-off |
|-----------------|--|

End point description:

The cut-off for the assay was 0.05 $\mu\text{g/mL}$.

The analysis was performed on the According-To-Protocol (ATP) cohort for persistence, which included all subjects for whom assay results were available for antibodies against at least one study vaccine antigen component for the blood sampling taken before the administration of the study booster dose (pre-booster blood sampling).

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

End point timeframe:

Prior to (Month 0) and one month after booster vaccination (Month 1)

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|-------------------------------------|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 136 | 43 | 130 | 44 |
| Units: Subjects | | | | |
| Anti-6A, Month 0 [N=135;43;130;43] | 128 | 37 | 105 | 33 |
| Anti-6A, Month 1 [N=136;43;125;43] | 133 | 42 | 125 | 42 |
| Anti-19A, Month 0 [N=134;43;130;44] | 124 | 25 | 105 | 27 |
| Anti-19A, Month 1 [N=136;43;125;43] | 135 | 42 | 119 | 42 |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with opsonophagocytic activity (OPA) against pneumococcal cross-reactive serotypes 6A and 19A >= the cut-off

| | |
|-----------------|---|
| End point title | Number of subjects with opsonophagocytic activity (OPA) against pneumococcal cross-reactive serotypes 6A and 19A >= the cut-off |
|-----------------|---|

End point description:

The cut-off for the assay was 8.

The analysis was performed on the According-To-Protocol (ATP) cohort for persistence, which included all subjects for whom assay results were available for antibodies against at least one study vaccine antigen component for the blood sampling taken before the administration of the study booster dose (pre-booster blood sampling).

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

End point timeframe:

Prior to (Month 0) and one month after booster vaccination (Month 1)

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|---|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 134 | 43 | 123 | 36 |
| Units: Subjects | | | | |
| OPA Anti-6A Month 0 [N=117;39;108;32] | 82 | 30 | 63 | 19 |
| OPA Anti-6A Month 1 [N=133;43;109;32] | 127 | 43 | 97 | 32 |
| OPA Anti-19A Month 0 [N=134;43;123;36] | 14 | 2 | 11 | 1 |
| OPA Anti-19A Month 1 [N=133;40;115;32] | 92 | 11 | 74 | 12 |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with antibody concentrations against protein D (Anti-PD) \geq the cut-off

| | |
|-----------------|--|
| End point title | Number of subjects with antibody concentrations against protein D (Anti-PD) \geq the cut-off |
|-----------------|--|

End point description:

The cut-off for the assay was 100 ELISA units per milliliter (EL.U/mL).

The analysis was performed on the According-To-Protocol (ATP) cohort for persistence, which included all subjects for whom assay results were available for antibodies against at least one study vaccine antigen component for the blood sampling taken before the administration of the study booster dose (pre-booster blood sampling).

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

End point timeframe:

Prior to (Month 0) and one month after booster vaccination (Month 1)

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|-------------------------------------|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 135 | 43 | 128 | 43 |
| Units: Subjects | | | | |
| Anti-PD, Month 0 [N=132;43;128;43] | 131 | 28 | 117 | 11 |
| Anti-PD, Month 1 [N= 135;43;125;43] | 135 | 23 | 125 | 19 |

Statistical analyses

No statistical analyses for this end point

Secondary: Anti-diphtheria (Anti-DT) and anti-tetanus toxoids (Anti-TT) antibody concentrations

| | |
|-----------------|--|
| End point title | Anti-diphtheria (Anti-DT) and anti-tetanus toxoids (Anti-TT) antibody concentrations |
|-----------------|--|

End point description:

Seroprotection status, defined as anti-diphtheria toxoid or anti-tetanus toxoid antibody concentrations \geq 0.1 international units per milliliter (IU/mL).

The analysis was performed on the According-To-Protocol (ATP) cohort for persistence, which included all subjects for whom assay results were available for antibodies against at least one study vaccine antigen component for the blood sampling taken before the administration of the study booster dose (pre-booster blood sampling).

| | |
|--|-----------|
| End point type | Secondary |
| End point timeframe: | |
| Prior to (Month 0) and one month after booster vaccination (Month 1) | |

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|--|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 65 | 25 | 62 | 24 |
| Units: IU/mL | | | | |
| geometric mean (confidence interval 95%) | | | | |
| Anti-DT, Month 0 [N=65;25;62;24] | 0.258 (0.209 to 0.319) | 0.17 (0.118 to 0.243) | 0.188 (0.153 to 0.231) | 0.126 (0.088 to 0.179) |
| Anti-DT, Month 1 [N=65;25;59;24] | 7.829 (6.339 to 9.671) | 4.768 (3.699 to 6.145) | 8.463 (7.11 to 10.074) | 4.876 (3.503 to 6.787) |
| Anti-TT, Month 0 [N= 65;25;62;24] | 0.735 (0.629 to 0.858) | 0.455 (0.314 to 0.66) | 0.568 (0.432 to 0.748) | 0.525 (0.29 to 0.951) |
| Anti-TT, Month 1 [N= 65;25;59;24] | 20.979 (18.359 to 23.972) | 9.703 (8.173 to 11.518) | 12.171 (9.772 to 15.16) | 6.719 (4.598 to 9.819) |

Statistical analyses

No statistical analyses for this end point

Secondary: Anti-polyribosyl-ribitol-phosphate (Anti-PRP) antibody concentrations

| | |
|---|---|
| End point title | Anti-polyribosyl-ribitol-phosphate (Anti-PRP) antibody concentrations |
| End point description: | |
| Seroprotection status, defined as anti-PRP antibody concentrations ≥ 0.15 µg/mL and ≥ 1.0 µg/mL. The analysis was performed on the According-To-Protocol (ATP) cohort for persistence, which included all subjects for whom assay results were available for antibodies against at least one study vaccine antigen component for the blood sampling taken before the administration of the study booster dose (pre-booster blood sampling). | |
| End point type | Secondary |
| End point timeframe: | |
| Prior to (Month 0) and one month after booster vaccination (Month 1) | |

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|-----------------------------|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 65 | 25 | 62 | 24 |
| Units: µg/mL | | | | |

| | | | | |
|--|-----------------------------|----------------------------|---------------------------|---------------------------|
| geometric mean (confidence interval 95%) | | | | |
| Anti-PRP, Month 0 [N=65;25;62;24] | 5.335 (3.578 to 7.953) | 6.433 (2.93 to 14.124) | 1.03 (0.745 to 1.423) | 0.894 (0.57 to 1.401) |
| Anti-PRP, Month 1 [N=65;25;59;24] | 106.004 (79.937 to 140.572) | 89.376 (55.131 to 144.891) | 53.386 (34.817 to 81.858) | 33.656 (19.464 to 58.198) |

Statistical analyses

No statistical analyses for this end point

Secondary: Anti-Bordetella pertussis (BPT) antibody concentrations

| | |
|--|---|
| End point title | Anti-Bordetella pertussis (BPT) antibody concentrations |
| End point description: | |
| Seropositivity status, defined as anti-BPT antibody concentrations ≥ 15 EL.U/mL. The analysis was performed on the According-To-Protocol (ATP) cohort for immunogenicity, which included all evaluable subjects for whom immunogenicity data were available. This included subjects for whom assay results were available for antibodies against at least one study vaccine antigen component after booster vaccination. | |
| End point type | Secondary |
| End point timeframe: | |
| Prior to (Month 0) and one month after booster vaccination (Month 1) | |

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|--|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 65 | 25 | 62 | 24 |
| Units: EL.U/mL | | | | |
| geometric mean (confidence interval 95%) | | | | |
| Anti-BPT, Month 0 [N=65;25;62;24] | 12.88 (10.86 to 15.28) | 12.46 (9.32 to 16.65) | 9.54 (8.34 to 10.91) | 10 (8.21 to 12.19) |
| Anti-BPT, Month 1 [N=65;25;59;24] | 139.51 (123.26 to 157.89) | 133.45 (110.33 to 161.4) | 121.73 (103.16 to 143.64) | 121.76 (91.81 to 161.47) |

Statistical analyses

No statistical analyses for this end point

Secondary: Anti-hepatitis B surface antigen (HBs) antibody concentrations

| | |
|---|--|
| End point title | Anti-hepatitis B surface antigen (HBs) antibody concentrations |
| End point description: | |
| Seroprotection status, defined as anti-HBs antibody concentrations ≥ 10 milli international units per milliliter (mIU/mL). | |

The analysis was performed on the According-To-Protocol (ATP) cohort for immunogenicity, which included all evaluable subjects for whom immunogenicity data were available. This included subjects for whom assay results were available for antibodies against at least one study vaccine antigen component after booster vaccination.

| | |
|--|-----------|
| End point type | Secondary |
| End point timeframe: | |
| Prior to (Month 0) and one month after booster vaccination (Month 1) | |

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|--|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 69 | 21 | 64 | 19 |
| Units: mIU/mL | | | | |
| geometric mean (confidence interval 95%) | | | | |
| Anti-HBs, Month 0 [N=69;21;64;19] | 30 (21.1 to 42.8) | 23.4 (11.5 to 47.7) | 97.9 (77 to 124.5) | 113 (55.1 to 231.7) |
| Anti-HBs, Month 1 [N=69;21;62;19] | 1220.5 (790.6 to 1884) | 1098.1 (358.4 to 3364.9) | 4428.7 (2980.3 to 6581) | 3188.6 (1171.7 to 8677.1) |

Statistical analyses

No statistical analyses for this end point

Secondary: Anti-polio type 1, 2 and 3 antibody titers

| | |
|---|--|
| End point title | Anti-polio type 1, 2 and 3 antibody titers |
| End point description: | |
| Seroprotection status, defined as anti-polio type 1, anti-polio type 2 and anti-polio type 3 antibody titers ≥ 8 . | |
| The analysis was performed on the According-To-Protocol (ATP) cohort for immunogenicity, which included all evaluable subjects for whom immunogenicity data were available. This included subjects for whom assay results were available for antibodies against at least one study vaccine antigen component after booster vaccination. | |
| End point type | Secondary |
| End point timeframe: | |
| Prior to (Month 0) and one month after booster vaccination (Month 1) | |

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|-----------------------------|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 69 | 21 | 64 | 20 |
| Units: Titers | | | | |

| geometric mean (confidence interval 95%) | | | | |
|--|-------------------------|-------------------------|--------------------------|--------------------------|
| Anti-Polio 1, Month 0 [N=69;21;63;20] | 329.1 (214.9 to 504.1) | 269 (114.8 to 630.3) | 46.5 (33.6 to 64.4) | 51.1 (28.4 to 91.9) |
| Anti-Polio 1, Month 1 [N=69;21;63;19] | 854.6 (573.5 to 1273.5) | 426.9 (166.2 to 1096.7) | 932.5 (770.5 to 1128.6) | 727.3 (512.9 to 1059.9) |
| Anti-Polio 2, Month 0 [N=69;21;64;20] | 222.6 (171.8 to 288.3) | 210.4 (115.4 to 383.6) | 50.2 (36.9 to 68.2) | 60.8 (33.4 to 110.8) |
| Anti-Polio 2, Month 1 [N=69;21;63;19] | 716.9 (487.6 to 1054.1) | 689.1 (304.8 to 1557.9) | 1195.7 (977.8 to 1462.2) | 1206.6 (737 to 1975.4) |
| Anti-Polio 3, Month 0 [N=69;21;64;20] | 102.2 (73.9 to 141.5) | 38.4 (20.3 to 72.9) | 51.8 (37.4 to 71.7) | 71.1 (36.2 to 139.5) |
| Anti-Polio 3, Month 1 [N=69;21;63;19] | 232.7 (159.6 to 339.4) | 190.4 (78.2 to 463.6) | 1464.2 (1128 to 1900.6) | 1346.2 (857.6 to 2113.2) |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with BPT with concentrations \geq the cut-off

| | |
|-----------------|--|
| End point title | Number of subjects with BPT with concentrations \geq the cut-off |
|-----------------|--|

End point description:

The cut-off for the assay was 15 EL.U/mL.

The analysis was performed on the According-To-Protocol (ATP) cohort for immunogenicity, which included all evaluable subjects for whom immunogenicity data were available. This included subjects for whom assay results were available for antibodies against at least one study vaccine antigen component after booster vaccination.

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

End point timeframe:

Prior to (Month 0) and one month after booster vaccination (Month 1)

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|-----------------------------------|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 65 | 25 | 62 | 24 |
| Units: Subjects | | | | |
| Anti-BPT, Month 0 [N=65;25;62;24] | 28 | 10 | 12 | 7 |
| Anti-BPT, Month 1 [N=65;25;59;24] | 65 | 25 | 59 | 24 |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with anti-diphtheria (Anti-DT) and anti-tetanus toxoids (Anti-TT) antibody concentrations \geq the cut-off

| | |
|--|---|
| End point title | Number of subjects with anti-diphtheria (Anti-DT) and anti-tetanus toxoids (Anti-TT) antibody concentrations \geq the cut-off |
| End point description: The cut-off for the assay was 0.1 milli-international units per milliliter (mIU/mL). The analysis was performed on the According-To-Protocol (ATP) cohort for persistence, which included all subjects for whom assay results were available for antibodies against at least one study vaccine antigen component for the blood sampling taken before the administration of the study booster dose (pre-booster blood sampling). | |
| End point type | Secondary |
| End point timeframe: Prior to (Month 0) and one month after booster vaccination (Month 1) | |

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|-----------------------------------|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 65 | 25 | 62 | 24 |
| Units: Subjects | | | | |
| Anti-DT, Month 0 [N=65;25;62;24] | 56 | 18 | 49 | 15 |
| Anti-DT, Month 1 [N=65;25;59;24] | 65 | 25 | 59 | 24 |
| Anti-TT, Month 0 [N= 65;25;62;24] | 65 | 24 | 60 | 23 |
| Anti-TT, Month 1 [N= 65;25;59;24] | 65 | 25 | 58 | 24 |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with anti-polyribosyl-ribitol phosphate (anti-PRP) antibody concentration \geq the cut-off

| | |
|---|---|
| End point title | Number of subjects with anti-polyribosyl-ribitol phosphate (anti-PRP) antibody concentration \geq the cut-off |
| End point description: The cut-off for the assay was 0.15 $\mu\text{g/mL}$. The analysis was performed on the According-To-Protocol (ATP) cohort for persistence, which included all subjects for whom assay results were available for antibodies against at least one study vaccine antigen component for the blood sampling taken before the administration of the study booster dose (pre-booster blood sampling). | |
| End point type | Secondary |
| End point timeframe: Prior to (Month 0) and one month after booster vaccination (Month 1) | |

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|-----------------------------------|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 65 | 25 | 62 | 24 |
| Units: Subjects | | | | |
| Anti-PRP, Month 0 [N=65;25;62;24] | 65 | 25 | 58 | 23 |
| Anti-PRP, Month 1 [N=65;25;59;24] | 65 | 25 | 59 | 24 |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with anti-polyribosyl-ribitol phosphate (anti-PRP) antibody concentration \geq the cut-off

| | |
|-----------------|---|
| End point title | Number of subjects with anti-polyribosyl-ribitol phosphate (anti-PRP) antibody concentration \geq the cut-off |
|-----------------|---|

End point description:

The cut-off for the assay was 1.0 $\mu\text{g/mL}$.

The analysis was performed on the According-To-Protocol (ATP) cohort for persistence, which included all subjects for whom assay results were available for antibodies against at least one study vaccine antigen component for the blood sampling taken before the administration of the study booster dose (pre-booster blood sampling).

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

End point timeframe:

Prior to (Month 0) and one month after booster vaccination (Month 1)

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|-----------------------------------|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 65 | 25 | 62 | 24 |
| Units: Subjects | | | | |
| Anti-PRP, Month 0 [N=65;25;62;24] | 56 | 22 | 32 | 12 |
| Anti-PRP, Month 1 [N=65;25;59;24] | 65 | 25 | 57 | 24 |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with anti-hepatitis B surface antigen (HBs) antibody concentrations \geq the cut-off

| | |
|-----------------|---|
| End point title | Number of subjects with anti-hepatitis B surface antigen (HBs) antibody concentrations \geq the cut-off |
|-----------------|---|

End point description:

The cut-off for the assay was 10 mIU/mL.

The analysis was performed on the According-To-Protocol (ATP) cohort for immunogenicity, which included all evaluable subjects for whom immunogenicity data were available. This included subjects for whom assay results were available for antibodies against at least one study vaccine antigen component after booster vaccination.

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

End point timeframe:

Prior to (Month 0) and one month after booster vaccination (Month 1)

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|-----------------------------------|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 69 | 21 | 64 | 19 |
| Units: Subjects | | | | |
| Anti-HBs, Month 0 [N=69;21;64;19] | 53 | 13 | 63 | 19 |
| Anti-HBs, Month 1 [N=69;21;62;19] | 68 | 19 | 62 | 19 |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with anti-polio type 1, 2 and 3 (Anti-Polio 1, 2 and 3) antibody titers >= the cut-off

| | |
|-----------------|---|
| End point title | Number of subjects with anti-polio type 1, 2 and 3 (Anti-Polio 1, 2 and 3) antibody titers >= the cut-off |
|-----------------|---|

End point description:

The cut-off for the assay was 8.

The analysis was performed on the According-To-Protocol (ATP) cohort for immunogenicity, which included all evaluable subjects for whom immunogenicity data were available. This included subjects for whom assay results were available for antibodies against at least one study vaccine antigen component after booster vaccination.

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

End point timeframe:

Prior to (Month 0) and one month after booster vaccination (Month 1)

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|---------------------------------------|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 69 | 21 | 64 | 20 |
| Units: Subjects | | | | |
| Anti-Polio 1, Month 0 [N=69;21;63;20] | 64 | 19 | 56 | 19 |

| | | | | |
|---------------------------------------|----|----|----|----|
| Anti-Polio 1, Month 1 [N=69;21;63;19] | 68 | 19 | 63 | 19 |
| Anti-Polio 2, Month 0 [N=69;21;64;20] | 69 | 21 | 59 | 19 |
| Anti-Polio 2, Month 1 [N=69;21;63;19] | 69 | 21 | 63 | 19 |
| Anti-Polio 3, Month 0 [N=69;21;64;20] | 65 | 17 | 61 | 18 |
| Anti-Polio 3, Month 1 [N=69;21;63;19] | 66 | 20 | 63 | 19 |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with vaccine response to BPT

| | |
|-----------------|---|
| End point title | Number of subjects with vaccine response to BPT |
|-----------------|---|

End point description:

Vaccine response for anti-BPT, defined as the appearance of antibodies in subjects seronegative at pre-vaccination, or at least 2-fold increase of pre-vaccination antibody concentrations in those who were initially seropositive at pre-vaccination.

The analysis was performed on the According-To-Protocol (ATP) cohort for immunogenicity, which included all evaluable subjects for whom immunogenicity data were available. This included subjects for whom assay results were available for antibodies against at least one study vaccine antigen component after booster vaccination.

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

End point timeframe:

One month after booster vaccination (Month 1)

| End point values | Synflorix + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix - HepB/ Hiberix + Poliorix Group | Prevenar + Tritanrix - HepB/ Hiberix + Poliorix Group |
|------------------------------|---|--|--|---|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 37 | 15 | 48 | 16 |
| Units: Subjects | | | | |
| Anti-BPT, S- [N=37;15;48;16] | 37 | 15 | 48 | 16 |
| Anti-BPT, S+ [N=28;10;11;7] | 27 | 8 | 11 | 7 |

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Solicited local and general symptoms during the 4-day and Unsolicited AEs during the 31-day after booster vaccination; SAEs: throughout the entire study period from Month 0 to Month 6.

Adverse event reporting additional description:

The solicited local and general symptoms were only collected for those subjects who filled in their symptom sheets.

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

Dictionary used

| | |
|--------------------|--------|
| Dictionary name | MedDRA |
| Dictionary version | 11.1 |

Reporting groups

| | |
|--------------------------------|--|
| Reporting group title | Synflorix + Tritanrix -HepB/ Hiberix + Polio Sabin Group |
| Reporting group description: - | |
| Reporting group title | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group |
| Reporting group description: - | |
| Reporting group title | Synflorix + Tritanrix -HepB/ Hiberix + Poliorix Group |
| Reporting group description: - | |
| Reporting group title | Prevenar + Tritanrix -HepB/ Hiberix + Poliorix Group |
| Reporting group description: - | |

| Serious adverse events | Synflorix + Tritanrix -HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix -HepB/ Hiberix + Poliorix Group |
|---|--|--|---|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 6 / 280 (2.14%) | 1 / 93 (1.08%) | 14 / 285 (4.91%) |
| number of deaths (all causes) | 0 | 1 | 0 |
| number of deaths resulting from adverse events | | | |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Brain neoplasm | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 280 (0.00%) | 1 / 93 (1.08%) | 0 / 285 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| Hepatoblastoma | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 280 (0.00%) | 0 / 93 (0.00%) | 1 / 285 (0.35%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|----------------|-----------------|
| Injury, poisoning and procedural complications | | | |
| Internal injury | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 280 (0.00%) | 1 / 93 (1.08%) | 0 / 285 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| Thermal burn | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 280 (0.00%) | 0 / 93 (0.00%) | 1 / 285 (0.35%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Nervous system disorders | | | |
| Febrile convulsion | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 3 / 280 (1.07%) | 0 / 93 (0.00%) | 1 / 285 (0.35%) |
| occurrences causally related to treatment / all | 0 / 3 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Blood and lymphatic system disorders | | | |
| Anaemia | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 280 (0.00%) | 0 / 93 (0.00%) | 0 / 285 (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 |
| Hypoglobulinaemia | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 280 (0.00%) | 0 / 93 (0.00%) | 0 / 285 (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 |
| Lymphadenitis | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 280 (0.00%) | 0 / 93 (0.00%) | 0 / 285 (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 |
| General disorders and administration | | | |

| | | | |
|---|-----------------|----------------|-----------------|
| site conditions | | | |
| Pyrexia | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 280 (0.00%) | 0 / 93 (0.00%) | 1 / 285 (0.35%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 1 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gastrointestinal disorders | | | |
| Diarrhoea | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 280 (0.00%) | 0 / 93 (0.00%) | 1 / 285 (0.35%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Enterocolitis haemorrhagic | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 280 (0.00%) | 0 / 93 (0.00%) | 0 / 285 (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 |
| Intussusception | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 280 (0.00%) | 0 / 93 (0.00%) | 0 / 285 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Respiratory, thoracic and mediastinal disorders | | | |
| Acute respiratory distress syndrome | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 280 (0.00%) | 1 / 93 (1.08%) | 0 / 285 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| Infections and infestations | | | |
| Gastroenteritis | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 1 / 280 (0.36%) | 0 / 93 (0.00%) | 5 / 285 (1.75%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 5 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|--|-----------------|----------------|-----------------|
| Pneumonia alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 1 / 280 (0.36%) | 0 / 93 (0.00%) | 3 / 285 (1.05%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 3 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Bronchitis alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 1 / 280 (0.36%) | 0 / 93 (0.00%) | 2 / 285 (0.70%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 2 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pharyngitis alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 280 (0.00%) | 0 / 93 (0.00%) | 2 / 285 (0.70%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 1 / 2 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gastroenteritis rotavirus alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 280 (0.00%) | 0 / 93 (0.00%) | 2 / 285 (0.70%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 2 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Amoebiasis alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 1 / 280 (0.36%) | 0 / 93 (0.00%) | 0 / 285 (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 |
| Clostridium difficile colitis alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 280 (0.00%) | 0 / 93 (0.00%) | 0 / 285 (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 |
| Infectious mononucleosis alternative assessment type: Non-systematic | | | |

| | | | |
|---|-----------------|----------------|-----------------|
| subjects affected / exposed | 0 / 280 (0.00%) | 0 / 93 (0.00%) | 1 / 285 (0.35%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Infestation | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 280 (0.00%) | 0 / 93 (0.00%) | 0 / 285 (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 |
| Nasopharyngitis | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 280 (0.00%) | 0 / 93 (0.00%) | 1 / 285 (0.35%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Otitis media | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 280 (0.00%) | 0 / 93 (0.00%) | 1 / 285 (0.35%) |
| 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 mycoplasmal | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 280 (0.00%) | 0 / 93 (0.00%) | 1 / 285 (0.35%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Rotavirus infection | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 280 (0.00%) | 0 / 93 (0.00%) | 1 / 285 (0.35%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Tonsillitis | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 280 (0.00%) | 0 / 93 (0.00%) | 1 / 285 (0.35%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|----------------|-----------------|
| Urinary tract infection | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 1 / 280 (0.36%) | 0 / 93 (0.00%) | 0 / 285 (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 |
| Wound | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 1 / 280 (0.36%) | 0 / 93 (0.00%) | 0 / 285 (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 |
| Metabolism and nutrition disorders | | | |
| Dehydration | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 1 / 280 (0.36%) | 0 / 93 (0.00%) | 0 / 285 (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 |

| | | | |
|---|--|--|--|
| Serious adverse events | Prevenar + Tritanrix -HepB/ Hiberix + Poliorix Group | | |
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 5 / 98 (5.10%) | | |
| number of deaths (all causes) | 0 | | |
| number of deaths resulting from adverse events | | | |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Brain neoplasm | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 98 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Hepatoblastoma | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 98 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Injury, poisoning and procedural | | | |

| | | | |
|--|----------------|--|--|
| complications | | | |
| Internal injury | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 98 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Thermal burn | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 98 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Nervous system disorders | | | |
| Febrile convulsion | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 98 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Blood and lymphatic system disorders | | | |
| Anaemia | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 1 / 98 (1.02%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Hypoglobulinaemia | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 1 / 98 (1.02%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Lymphadenitis | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 1 / 98 (1.02%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| General disorders and administration site conditions | | | |

| | | | |
|---|----------------|--|--|
| Pyrexia | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 98 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Gastrointestinal disorders | | | |
| Diarrhoea | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 1 / 98 (1.02%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Enterocolitis haemorrhagic | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 1 / 98 (1.02%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Intussusception | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 1 / 98 (1.02%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Acute respiratory distress syndrome | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 98 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Infections and infestations | | | |
| Gastroenteritis | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 2 / 98 (2.04%) | | |
| occurrences causally related to treatment / all | 0 / 2 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pneumonia | | | |

| | | | | |
|---|----------------|--|--|--|
| alternative assessment type: Non-systematic | | | | |
| subjects affected / exposed | 1 / 98 (1.02%) | | | |
| occurrences causally related to treatment / all | 0 / 1 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Bronchitis | | | | |
| alternative assessment type: Non-systematic | | | | |
| subjects affected / exposed | 0 / 98 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Pharyngitis | | | | |
| alternative assessment type: Non-systematic | | | | |
| subjects affected / exposed | 0 / 98 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Gastroenteritis rotavirus | | | | |
| alternative assessment type: Non-systematic | | | | |
| subjects affected / exposed | 0 / 98 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Amoebiasis | | | | |
| alternative assessment type: Non-systematic | | | | |
| subjects affected / exposed | 0 / 98 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Clostridium difficile colitis | | | | |
| alternative assessment type: Non-systematic | | | | |
| subjects affected / exposed | 1 / 98 (1.02%) | | | |
| occurrences causally related to treatment / all | 0 / 1 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Infectious mononucleosis | | | | |
| alternative assessment type: Non-systematic | | | | |

| | | | | |
|---|----------------|--|--|--|
| subjects affected / exposed | 0 / 98 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Infestation | | | | |
| alternative assessment type: Non-systematic | | | | |
| subjects affected / exposed | 1 / 98 (1.02%) | | | |
| occurrences causally related to treatment / all | 0 / 1 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Nasopharyngitis | | | | |
| alternative assessment type: Non-systematic | | | | |
| subjects affected / exposed | 0 / 98 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Otitis media | | | | |
| alternative assessment type: Non-systematic | | | | |
| subjects affected / exposed | 0 / 98 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Pneumonia mycoplasmal | | | | |
| alternative assessment type: Non-systematic | | | | |
| subjects affected / exposed | 0 / 98 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Rotavirus infection | | | | |
| alternative assessment type: Non-systematic | | | | |
| subjects affected / exposed | 0 / 98 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Tonsillitis | | | | |
| alternative assessment type: Non-systematic | | | | |
| subjects affected / exposed | 0 / 98 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |

| | | | |
|---|----------------|--|--|
| Urinary tract infection | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 98 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Wound | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 98 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Metabolism and nutrition disorders | | | |
| Dehydration | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 0 / 98 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

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

| Non-serious adverse events | Synflorix + Tritanrix -HepB/ Hiberix + Polio Sabin Group | Prevenar + Tritanrix - HepB/ Hiberix + Polio Sabin Group | Synflorix + Tritanrix -HepB/ Hiberix + Poliorix Group |
|---|--|--|---|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 237 / 280 (84.64%) | 78 / 93 (83.87%) | 276 / 285 (96.84%) |
| General disorders and administration site conditions | | | |
| Pain | | | |
| subjects affected / exposed | 203 / 280 (72.50%) | 66 / 93 (70.97%) | 248 / 285 (87.02%) |
| occurrences (all) | 203 | 66 | 249 |
| Erythema | | | |
| subjects affected / exposed | 107 / 280 (38.21%) | 37 / 93 (39.78%) | 197 / 285 (69.12%) |
| occurrences (all) | 107 | 37 | 197 |
| Swelling | | | |
| subjects affected / exposed | 92 / 280 (32.86%) | 32 / 93 (34.41%) | 158 / 285 (55.44%) |
| occurrences (all) | 92 | 32 | 158 |
| Somnolence | | | |

| | | | |
|--|---------------------------|------------------------|---------------------------|
| subjects affected / exposed occurrences (all) | 90 / 280 (32.14%) 90 | 32 / 93 (34.41%) 32 | 190 / 285 (66.67%) 190 |
| Fever (Rectally) subjects affected / exposed occurrences (all) | 138 / 280 (49.29%) 138 | 51 / 93 (54.84%) 51 | 215 / 285 (75.44%) 219 |
| Irritability subjects affected / exposed occurrences (all) | 173 / 280 (61.79%) 173 | 64 / 93 (68.82%) 64 | 244 / 285 (85.61%) 244 |
| Decreased appetite subjects affected / exposed occurrences (all) | 97 / 280 (34.64%) 97 | 28 / 93 (30.11%) 28 | 184 / 285 (64.56%) 184 |
| Infections and infestations | | | |
| Nasopharyngitis alternative assessment type: Non-systematic subjects affected / exposed occurrences (all) | 0 / 280 (0.00%) 0 | 0 / 93 (0.00%) 0 | 14 / 285 (4.91%) 15 |
| Pharyngitis alternative assessment type: Non-systematic subjects affected / exposed occurrences (all) | 0 / 280 (0.00%) 0 | 0 / 93 (0.00%) 0 | 4 / 285 (1.40%) 4 |
| Rhinitis alternative assessment type: Non-systematic subjects affected / exposed occurrences (all) | 3 / 280 (1.07%) 3 | 2 / 93 (2.15%) 2 | 11 / 285 (3.86%) 11 |

| | | | |
|---|--|--|--|
| Non-serious adverse events | Prevenar + Tritanrix -HepB/ Hiberix + Poliorix Group | | |
| Total subjects affected by non-serious adverse events subjects affected / exposed | 92 / 98 (93.88%) | | |
| General disorders and administration site conditions | | | |
| Pain subjects affected / exposed occurrences (all) | 77 / 98 (78.57%) 77 | | |
| Erythema subjects affected / exposed occurrences (all) | 66 / 98 (67.35%) 66 | | |

| | | | |
|---|------------------|--|--|
| Swelling | | | |
| subjects affected / exposed | 52 / 98 (53.06%) | | |
| occurrences (all) | 52 | | |
| Somnolence | | | |
| subjects affected / exposed | 66 / 98 (67.35%) | | |
| occurrences (all) | 66 | | |
| Fever (Rectally) | | | |
| subjects affected / exposed | 65 / 98 (66.33%) | | |
| occurrences (all) | 65 | | |
| Irritability | | | |
| subjects affected / exposed | 79 / 98 (80.61%) | | |
| occurrences (all) | 79 | | |
| Decreased appetite | | | |
| subjects affected / exposed | 66 / 98 (67.35%) | | |
| occurrences (all) | 66 | | |
| Infections and infestations | | | |
| Nasopharyngitis | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 5 / 98 (5.10%) | | |
| occurrences (all) | 5 | | |
| Pharyngitis | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 6 / 98 (6.12%) | | |
| occurrences (all) | 8 | | |
| Rhinitis | | | |
| alternative assessment type: Non-systematic | | | |
| subjects affected / exposed | 5 / 98 (5.10%) | | |
| occurrences (all) | 5 | | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|---------------|---|
| 14 March 2008 | The protocol was amended to plan for an interim analysis on final cleaned safety and reactogenicity data. This allowed providing to the authorities additional safety and reactogenicity data of a booster dose of GSK Biologicals' 10Pn-PD-DiT vaccine co-administered with a DTPw-combined vaccine. |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported