



Clinical trial results:

Study to compare immunogenicity of GSK Biologicals' 10Pn-PD-DiT 4-dose presentation to the licensed Synflorix (10Pn-PD-DiT) vaccine when co-administered with DTPw-combination vaccine in healthy infants

Summary

| | |
|--------------------------|----------------|
| EudraCT number | 2014-000750-11 |
| Trial protocol | Outside EU/EEA |
| Global end of trial date | 22 May 2016 |

Results information

| | |
|--------------------------------|--|
| Result version number | v3 (current) |
| This version publication date | 04 November 2022 |
| First version publication date | 20 November 2016 |
| Version creation reason | • Correction of full data set Correction of full data set and alignment between registries. |

Trial information

Trial identification

| | |
|-----------------------|--------|
| Sponsor protocol code | 200799 |
|-----------------------|--------|

Additional study identifiers

| | |
|------------------------------------|-------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT02447432 |
| 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 Disclosure Advisor, GlaxoSmithKline Biologicals, 44 2089904466, GSKClinicalSupportHD@gsk.com |
| Scientific contact | Clinical Disclosure Advisor, GlaxoSmithKline Biologicals, 44 2089904466, GSKClinicalSupportHD@gsk.com |

Notes:

Paediatric regulatory details

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|--|-----|
| 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 | 29 November 2016 |
| Is this the analysis of the primary completion data? | Yes |
| Primary completion date | 23 January 2016 |
| Global end of trial reached? | Yes |
| Global end of trial date | 22 May 2016 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

To demonstrate the non-inferiority of 10Pn-PD-DiT vaccine (4-dose presentation) as compared to 10Pn-PD-DiT vaccine (Synflorix 1-dose presentation) in terms of the immune response to the 10 vaccine pneumococcal serotypes one month after dose 3.

Criterion:

Non-inferiority was demonstrated if the upper limit (UL) of the 2-sided 95% confidence interval (CI) of the geometric mean antibody concentration (GMC) ratios (Synflorix/10Pn_4d) was below a limit of 2-fold for each of the 10 vaccine pneumococcal serotypes.

Protection of trial subjects:

All subjects were supervised for 30 min after vaccination with appropriate medical treatment readily available. Vaccines were administered by qualified and trained personnel. Only eligible subjects that had no contraindications to any components of the vaccines were vaccinated. Subjects were followed-up for 30 days after each/last vaccination.

Background therapy: -

Evidence for comparator: -

| | |
|---|--------------|
| Actual start date of recruitment | 11 June 2015 |
| Long term follow-up planned | No |
| Independent data monitoring committee (IDMC) involvement? | No |

Notes:

Population of trial subjects

Subjects enrolled per country

| | |
|--------------------------------------|-----------------|
| Country: Number of subjects enrolled | Bangladesh: 320 |
| Worldwide total number of subjects | 320 |
| EEA total number of subjects | 0 |

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) | 320 |
| 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:

Two epochs were defined in the study. The duration of the study was for Epoch 001: Primary starting at Month 0 and ending at Month 4 and for Epoch 002: Booster starting at Month 8 and ending at Month 9. 5 subjects did not participate to the Epoch 002 (none due to an serious adverse event).

Pre-assignment

Screening details: -

Pre-assignment period milestones

| | |
|------------------------------|-----|
| Number of subjects started | 320 |
| Number of subjects completed | 320 |

Period 1

| | |
|------------------------------|---|
| Period 1 title | Epoch 001 |
| Is this the baseline period? | Yes |
| Allocation method | Randomised - controlled |
| Blinding used | Double blind |
| Roles blinded | Subject, Investigator, Monitor, Carer, Assessor |

Blinding implementation details:

Observer-blind: during the course of the study, the vaccine recipient and those responsible for the evaluation of any study outcome were all unaware of which vaccine was administered. Vaccine preparation and administration was done by authorised medical personnel who didn't participate in any of the study clinical evaluation.

The laboratory in charge of the laboratory testing was blinded to the treatment, and codes were used to link the subject and study to each sample.

Arms

| | |
|------------------------------|---------------|
| Are arms mutually exclusive? | Yes |
| Arm title | 10Pn_4d Group |

Arm description:

Healthy male or female subjects, between and including 6 to 10 weeks (42-76 days) of age at the time of first vaccination, received 3 doses of the investigational 4-dose presentation 10Pn-PD-DiT vaccine given approximatively at 6, 10 and 18 weeks of age (primary vaccination – Epoch 001) and 3 doses of DTPw-HBV/Hib vaccine given approximatively at 6, 10 and 14 weeks of age (according to the EPI schedule). They also received a booster dose of the 4-dose presentation 10Pn-PD-DiT vaccine at approximatively 9 months of age (Epoch-002).

| | |
|--|---------------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | 10Pn-PD-DiT 4-dose presentation |
| Investigational medicinal product code | GSK1024850A |
| Other name | 10Pn-PD-DiT-4-dose presentation |
| Pharmaceutical forms | Suspension for injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

3 doses were given approximatively at 6, 10 and 18 weeks of age (primary vaccination) and a booster dose at approximatively 9 months of age. The vaccine was administered by intramuscular injection into the right anterolateral thigh.

| | |
|--|--------------------------|
| Investigational medicinal product name | Tritanrix HB |
| Investigational medicinal product code | DTPw-HBV |
| Other name | DTPw-HBV |
| Pharmaceutical forms | Suspension for injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

Tritanrix HB and Hiberix were used for the preparation of the DTPw-HBV/Hib vaccine: DTPw-HBV component: suspension in monodose vial to be reconstituted with Hib component. 3 doses were given approximatively at 6, 10 and 14 weeks of age (primary vaccination). The vaccine was administered by intramuscular injection into the left anterolateral thigh.

| | |
|--|--|
| Investigational medicinal product name | Hiberix |
| Investigational medicinal product code | Hib |
| Other name | Hib |
| Pharmaceutical forms | Powder and solution for solution for injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

Tritanrix HB and Hiberix were used for the preparation of the DTPw-HBV/Hib vaccine: DTPw-HBV component: suspension in monodose vial to be reconstituted with Hib component. 3 doses were given approximatively at 6, 10 and 14 weeks of age (primary vaccination). The vaccine was administered by intramuscular injection into the left anterolateral thigh.

| | |
|------------------|-----------------|
| Arm title | Synflorix Group |
|------------------|-----------------|

Arm description:

Healthy male or female subjects, between and including 6 to 10 weeks (42-76 days) of age at the time of first vaccination, received 3 doses of the licensed 1-dose presentation 10Pn-PD-DiT (Synflorix) vaccine given approximatively at 6, 10 and 18 weeks of age (primary vaccination – Epoch 001) and 3 doses of DTPw-HBV/Hib vaccine given approximatively at 6, 10 and 14 weeks of age (according to the EPI schedule). They also received a booster dose of the 1-dose presentation 10Pn-PD-DiT vaccine at approximatively 9 months of age (Epoch-002).

| | |
|--|--------------------------|
| Arm type | Active comparator |
| Investigational medicinal product name | Tritanrix HB |
| Investigational medicinal product code | DTPw-HBV |
| Other name | DTPw-HBV |
| Pharmaceutical forms | Suspension for injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

Tritanrix HB and Hiberix were used for the preparation of the DTPw-HBV/Hib vaccine: DTPw-HBV component: suspension in monodose vial to be reconstituted with Hib component. 3 doses were given approximatively at 6, 10 and 14 weeks of age (primary vaccination). The vaccine was administered by intramuscular injection into the left anterolateral thigh.

| | |
|--|--|
| Investigational medicinal product name | Hiberix |
| Investigational medicinal product code | Hib |
| Other name | Hib |
| Pharmaceutical forms | Powder and solution for solution for injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

Tritanrix HB and Hiberix were used for the preparation of the DTPw-HBV/Hib vaccine: DTPw-HBV component: suspension in monodose vial to be reconstituted with Hib component. 3 doses were given approximatively at 6, 10 and 14 weeks of age (primary vaccination). The vaccine was administered by intramuscular injection into the left anterolateral thigh.

| | |
|--|---------------------------------|
| Investigational medicinal product name | Synflorix |
| Investigational medicinal product code | GSK1024850A |
| Other name | 10Pn-PD-DiT-1-dose presentation |
| Pharmaceutical forms | Suspension for injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

3 doses were given approximatively at 6, 10 and 18 weeks of age (primary vaccination) and a booster dose at approximatively 9 months of age. The vaccine was administered by intramuscular injection into the right anterolateral thigh.

| Number of subjects in period 1 | 10Pn_4d Group | Synflorix Group |
|--------------------------------|---------------|-----------------|
| Started | 160 | 160 |
| Completed | 155 | 147 |
| Not completed | 5 | 13 |
| Consent withdrawn by subject | - | 4 |
| Adverse event | 1 | 1 |
| Migrated/moved from study area | 3 | 5 |
| Lost to follow-up | 1 | 3 |

Period 2

| | |
|------------------------------|---|
| Period 2 title | Epoch 002 |
| Is this the baseline period? | No |
| Allocation method | Randomised - controlled |
| Blinding used | Double blind |
| Roles blinded | Subject, Investigator, Monitor, Carer, Assessor |

Blinding implementation details:

Observer-blind: during the course of the study, the vaccine recipient and those responsible for the evaluation of any study outcome were all unaware of which vaccine was administered. Vaccine preparation and administration was done by authorised medical personnel who didn't participate in any of the study clinical evaluation.

The laboratory in charge of the laboratory testing was blinded to the treatment, and codes were used to link the subject and study to each sample.

Arms

| | |
|------------------------------|---------------|
| Are arms mutually exclusive? | Yes |
| Arm title | 10Pn_4d Group |

Arm description:

Healthy male or female subjects, between and including 6 to 10 weeks (42-76 days) of age at the time of first vaccination, received 3 doses of the investigational 4-dose presentation 10Pn-PD-DiT vaccine given approximatively at 6, 10 and 18 weeks of age (primary vaccination – Epoch 001) and 3 doses of DTPw-HBV/Hib vaccine given approximatively at 6, 10 and 14 weeks of age (according to the EPI schedule). They also received a booster dose of the 4-dose presentation 10Pn-PD-DiT vaccine at approximatively 9 months of age (Epoch-002).

| | |
|--|---------------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | 10Pn-PD-DiT 4-dose presentation |
| Investigational medicinal product code | GSK1024850A |
| Other name | 10Pn-PD-DiT-4-dose presentation |
| Pharmaceutical forms | Suspension for injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

3 doses were given approximatively at 6, 10 and 18 weeks of age (primary vaccination) and a booster dose at approximatively 9 months of age. The vaccine was administered by intramuscular injection into the right anterolateral thigh.

| | |
|--|--------------------------|
| Investigational medicinal product name | Tritanrix HB |
| Investigational medicinal product code | DTPw-HBV |
| Other name | DTPw-HBV |
| Pharmaceutical forms | Suspension for injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

Tritanrix HB and Hiberix were used for the preparation of the DTPw-HBV/Hib vaccine: DTPw-HBV component: suspension in monodose vial to be reconstituted with Hib component. 3 doses were given approximatively at 6, 10 and 14 weeks of age (primary vaccination). The vaccine was administered by intramuscular injection into the left anterolateral thigh.

| | |
|--|--|
| Investigational medicinal product name | Hiberix |
| Investigational medicinal product code | Hib |
| Other name | Hib |
| Pharmaceutical forms | Powder and solution for solution for injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

Tritanrix HB and Hiberix were used for the preparation of the DTPw-HBV/Hib vaccine: DTPw-HBV component: suspension in monodose vial to be reconstituted with Hib component. 3 doses were given approximatively at 6, 10 and 14 weeks of age (primary vaccination). The vaccine was administered by intramuscular injection into the left anterolateral thigh.

| | |
|------------------|-----------------|
| Arm title | Synflorix Group |
|------------------|-----------------|

Arm description:

Healthy male or female subjects, between and including 6 to 10 weeks (42-76 days) of age at the time of first vaccination, received 3 doses of the licensed 1-dose presentation 10Pn-PD-DiT (Synflorix) vaccine given approximatively at 6, 10 and 18 weeks of age (primary vaccination – Epoch 001) and 3 doses of DTPw-HBV/Hib vaccine given approximatively at 6, 10 and 14 weeks of age (according to the EPI schedule). They also received a booster dose of the 1-dose presentation 10Pn-PD-DiT vaccine at approximatively 9 months of age (Epoch-002).

| | |
|--|--------------------------|
| Arm type | Active comparator |
| Investigational medicinal product name | Tritanrix HB |
| Investigational medicinal product code | DTPw-HBV |
| Other name | DTPw-HBV |
| Pharmaceutical forms | Suspension for injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

Tritanrix HB and Hiberix were used for the preparation of the DTPw-HBV/Hib vaccine: DTPw-HBV component: suspension in monodose vial to be reconstituted with Hib component. 3 doses were given approximatively at 6, 10 and 14 weeks of age (primary vaccination). The vaccine was administered by intramuscular injection into the left anterolateral thigh.

| | |
|--|--|
| Investigational medicinal product name | Hiberix |
| Investigational medicinal product code | Hib |
| Other name | Hib |
| Pharmaceutical forms | Powder and solution for solution for injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

Tritanrix HB and Hiberix were used for the preparation of the DTPw-HBV/Hib vaccine: DTPw-HBV component: suspension in monodose vial to be reconstituted with Hib component. 3 doses were given approximatively at 6, 10 and 14 weeks of age (primary vaccination). The vaccine was administered by intramuscular injection into the left anterolateral thigh.

| | |
|--|---------------------------------|
| Investigational medicinal product name | Synflorix |
| Investigational medicinal product code | GSK1024850A |
| Other name | 10Pn-PD-DiT-1-dose presentation |
| Pharmaceutical forms | Suspension for injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

3 doses were given approximatively at 6, 10 and 18 weeks of age (primary vaccination) and a booster dose at approximatively 9 months of age. The vaccine was administered by intramuscular injection into the right anterolateral thigh.

| Number of subjects in period 2 ^[1] | 10Pn_4d Group | Synflorix Group |
|--|---------------|-----------------|
| | | |
| Started | 152 | 145 |
| Completed | 152 | 145 |

Notes:

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

Justification: The number of participants who started each study period depends on the actual rate of return of the subjects.

Baseline characteristics

Reporting groups

| | |
|-----------------------|---------------|
| Reporting group title | 10Pn_4d Group |
|-----------------------|---------------|

Reporting group description:

Healthy male or female subjects, between and including 6 to 10 weeks (42-76 days) of age at the time of first vaccination, received 3 doses of the investigational 4-dose presentation 10Pn-PD-DiT vaccine given approximatively at 6, 10 and 18 weeks of age (primary vaccination – Epoch 001) and 3 doses of DTPw-HBV/Hib vaccine given approximatively at 6, 10 and 14 weeks of age (according to the EPI schedule). They also received a booster dose of the 4-dose presentation 10Pn-PD-DiT vaccine at approximatively 9 months of age (Epoch-002).

| | |
|-----------------------|-----------------|
| Reporting group title | Synflorix Group |
|-----------------------|-----------------|

Reporting group description:

Healthy male or female subjects, between and including 6 to 10 weeks (42-76 days) of age at the time of first vaccination, received 3 doses of the licensed 1-dose presentation 10Pn-PD-DiT (Synflorix) vaccine given approximatively at 6, 10 and 18 weeks of age (primary vaccination – Epoch 001) and 3 doses of DTPw-HBV/Hib vaccine given approximatively at 6, 10 and 14 weeks of age (according to the EPI schedule). They also received a booster dose of the 1-dose presentation 10Pn-PD-DiT vaccine at approximatively 9 months of age (Epoch-002).

| Reporting group values | 10Pn_4d Group | Synflorix Group | Total |
|------------------------------------|---------------|-----------------|-------|
| Number of subjects | 160 | 160 | 320 |
| Age categorical Units: Subjects | | | |
| Age continuous | | | |
| Age continuous description | | | |
| Units: weeks | | | |
| arithmetic mean | 6.9 | 6.8 | |
| standard deviation | ± 1.3 | ± 1.2 | - |
| Gender categorical | | | |
| Gender categorical description | | | |
| Units: Subjects | | | |
| Female | 80 | 73 | 153 |
| Male | 80 | 87 | 167 |

End points

End points reporting groups

| | |
|---|-----------------|
| Reporting group title | 10Pn_4d Group |
| Reporting group description: Healthy male or female subjects, between and including 6 to 10 weeks (42-76 days) of age at the time of first vaccination, received 3 doses of the investigational 4-dose presentation 10Pn-PD-DiT vaccine given approximatively at 6, 10 and 18 weeks of age (primary vaccination – Epoch 001) and 3 doses of DTPw-HBV/Hib vaccine given approximatively at 6, 10 and 14 weeks of age (according to the EPI schedule). They also received a booster dose of the 4-dose presentation 10Pn-PD-DiT vaccine at approximatively 9 months of age (Epoch-002). | |
| Reporting group title | Synflorix Group |
| Reporting group description: Healthy male or female subjects, between and including 6 to 10 weeks (42-76 days) of age at the time of first vaccination, received 3 doses of the licensed 1-dose presentation 10Pn-PD-DiT (Synflorix) vaccine given approximatively at 6, 10 and 18 weeks of age (primary vaccination – Epoch 001) and 3 doses of DTPw-HBV/Hib vaccine given approximatively at 6, 10 and 14 weeks of age (according to the EPI schedule). They also received a booster dose of the 1-dose presentation 10Pn-PD-DiT vaccine at approximatively 9 months of age (Epoch-002). | |
| Reporting group title | 10Pn_4d Group |
| Reporting group description: Healthy male or female subjects, between and including 6 to 10 weeks (42-76 days) of age at the time of first vaccination, received 3 doses of the investigational 4-dose presentation 10Pn-PD-DiT vaccine given approximatively at 6, 10 and 18 weeks of age (primary vaccination – Epoch 001) and 3 doses of DTPw-HBV/Hib vaccine given approximatively at 6, 10 and 14 weeks of age (according to the EPI schedule). They also received a booster dose of the 4-dose presentation 10Pn-PD-DiT vaccine at approximatively 9 months of age (Epoch-002). | |
| Reporting group title | Synflorix Group |
| Reporting group description: Healthy male or female subjects, between and including 6 to 10 weeks (42-76 days) of age at the time of first vaccination, received 3 doses of the licensed 1-dose presentation 10Pn-PD-DiT (Synflorix) vaccine given approximatively at 6, 10 and 18 weeks of age (primary vaccination – Epoch 001) and 3 doses of DTPw-HBV/Hib vaccine given approximatively at 6, 10 and 14 weeks of age (according to the EPI schedule). They also received a booster dose of the 1-dose presentation 10Pn-PD-DiT vaccine at approximatively 9 months of age (Epoch-002). | |

Primary: Antibody concentrations against pneumococcal serotypes (Epoch 001)

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|---|--|
| End point title | Antibody concentrations against pneumococcal serotypes (Epoch 001) |
| End point description: Antibodies assessed for this outcome measure were those against the vaccine/cross-reactive pneumococcal serotypes 1, 4, 5, 6A, 6B, 7F, 9V, 14, 18C, 19A, 19F and 23F (ANTI-1, -4, -5, -6A, -6B, -7F, -9V, -14, -18C, -19A, -19F and -23F). Antibody concentrations were measured by 22F-inhibition enzyme-linked immunosorbent assay (ELISA), expressed as geometric mean concentrations (GMCs), in micrograms per milliliter (µg/mL). The cut-off of the assay was an antibody concentration higher than or equal to (≥) 0.05 µg/mL. Primary outcome results correspond to antibody concentrations for the 10 vaccine serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F. | |
| End point type | Primary |
| End point timeframe: At study Month 4, e. g. at one month post-Dose 3 of pneumococcal vaccine | |

| End point values | 10Pn_4d Group | Synflorix Group | | |
|--|------------------------|------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 154 | 146 | | |
| Units: µg/mL | | | | |
| geometric mean (confidence interval 95%) | | | | |
| ANTI-1 (N=154,146) | 2.78 (2.43 to 3.18) | 3.03 (2.6 to 3.54) | | |
| ANTI-4 (N=154,146) | 4.23 (3.69 to 4.84) | 3.87 (3.33 to 4.51) | | |
| ANTI-5 (N=154,146) | 5.12 (4.46 to 5.88) | 5.3 (4.59 to 6.12) | | |
| ANTI-6B (N=154,146) | 1.23 (0.95 to 1.57) | 1.37 (1.05 to 1.79) | | |
| ANTI-7F (N=154,146) | 5.52 (4.9 to 6.22) | 5.79 (5.06 to 6.62) | | |
| ANTI-9V (N=154,146) | 4.6 (3.98 to 5.32) | 4.07 (3.34 to 4.95) | | |
| ANTI-14 (N=154,146) | 4.97 (4.05 to 6.1) | 4.84 (3.91 to 5.99) | | |
| ANTI-18C (N=154,146) | 19.58 (16.65 to 23.03) | 21.18 (17.9 to 25.06) | | |
| ANTI-19F (N=154,146) | 13.24 (11.17 to 15.68) | 13.11 (11.16 to 15.41) | | |
| ANTI-23F (N=154,146) | 1.59 (1.25 to 2.01) | 2.04 (1.61 to 2.58) | | |
| ANTI-6A (N=154,146) | 0.31 (0.25 to 0.38) | 0.29 (0.23 to 0.36) | | |
| ANTI-19A (N=154,146) | 0.76 (0.6 to 0.96) | 0.68 (0.54 to 0.86) | | |

Statistical analyses

| Statistical analysis title | Statistical analysis 1 |
|--|---------------------------------|
| Statistical analysis description: | |
| (Synflorix/10Pn_4d) antibody GMCs ratio for ANTI-1 serotype: to demonstrate non-inferiority of 10Pn-PD-DiT vaccine (4-dose presentation) as compared to 10Pn-PD-DiT vaccine (1-dose presentation) in terms of immune response, 1 month after dose 3. Criterion: the upper limit (UL) of the 2-sided 95% confidence interval (CI) of the geometric mean antibody concentration (GMC) ratios (Synflorix/10Pn_4d) should be below a limit of 2-fold for each of the 10 serotypes. | |
| Comparison groups | Synflorix Group v 10Pn_4d Group |
| Number of subjects included in analysis | 300 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority ^[1] |
| Parameter estimate | GMCs ratio |
| Point estimate | 1.09 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.89 |
| upper limit | 1.33 |

Notes:

[1] - GMCs ratio and its 95 % CI were obtained using an ANOVA model on the logarithm-10 transformed concentrations-pooled variance.

| | |
|---|---------------------------------|
| Statistical analysis title | Statistical analysis 2 |
| Statistical analysis description: (Synflorix/10Pn_4d) antibody GMCs ratio for ANTI-4 serotype: to demonstrate non-inferiority of 10Pn-PD-DiT vaccine (4-dose presentation) as compared to 10Pn-PD-DiT vaccine (1-dose presentation) in terms of immune response, 1 month after dose 3. Criterion: the upper limit (UL) of the 2-sided 95% confidence interval (CI) of the geometric mean antibody concentration (GMC) ratios (Synflorix/10Pn_4d) should be below a limit of 2-fold for each of the 10 serotypes. | |
| Comparison groups | Synflorix Group v 10Pn_4d Group |
| Number of subjects included in analysis | 300 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority ^[2] |
| Parameter estimate | GMCs ratio |
| Point estimate | 0.92 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.75 |
| upper limit | 1.12 |

Notes:

[2] - GMCs ratio and its 95 % CI were obtained using an ANOVA model on the logarithm-10 transformed concentrations-pooled variance.

| | |
|---|---------------------------------|
| Statistical analysis title | Statistical analysis 3 |
| Statistical analysis description: (Synflorix/10Pn_4d) antibody GMCs ratio for ANTI-5 serotype: to demonstrate non-inferiority of 10Pn-PD-DiT vaccine (4-dose presentation) as compared to 10Pn-PD-DiT vaccine (1-dose presentation) in terms of immune response, 1 month after dose 3. Criterion: the upper limit (UL) of the 2-sided 95% confidence interval (CI) of the geometric mean antibody concentration (GMC) ratios (Synflorix/10Pn_4d) should be below a limit of 2-fold for each of the 10 serotypes. | |
| Comparison groups | Synflorix Group v 10Pn_4d Group |
| Number of subjects included in analysis | 300 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority ^[3] |
| Parameter estimate | GMCs ratio |
| Point estimate | 1.03 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.85 |
| upper limit | 1.26 |

Notes:

[3] - GMCs ratio and its 95 % CI were obtained using an ANOVA model on the logarithm-10 transformed concentrations-pooled variance.

| | |
|--|---------------------------------|
| Statistical analysis title | Statistical analysis 4 |
| Statistical analysis description: (Synflorix/10Pn_4d) antibody GMCs ratio for ANTI-6B serotype: to demonstrate non-inferiority of 10Pn-PD-DiT vaccine (4-dose presentation) as compared to 10Pn-PD-DiT vaccine (1-dose presentation) in terms of immune response, 1 month after dose 3. Criterion: the upper limit (UL) of the 2-sided 95% confidence interval (CI) of the geometric mean antibody concentration (GMC) ratios (Synflorix/10Pn_4d) should be below a limit of 2-fold for each of the 10 serotypes. | |
| Comparison groups | Synflorix Group v 10Pn_4d Group |

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 300 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority ^[4] |
| Parameter estimate | GMCs ratio |
| Point estimate | 1.12 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.78 |
| upper limit | 1.61 |

Notes:

[4] - GMCs ratio and its 95 % CI were obtained using an ANOVA model on the logarithm-10 transformed concentrations-pooled variance.

| | |
|-----------------------------------|------------------------|
| Statistical analysis title | Statistical analysis 5 |
|-----------------------------------|------------------------|

Statistical analysis description:

(Synflorix/10Pn_4d) antibody GMCs ratio for ANTI-7F serotype: to demonstrate non-inferiority of 10Pn-PD-DiT vaccine (4-dose presentation) as compared to 10Pn-PD-DiT vaccine (1-dose presentation) in terms of immune response, 1 month after dose 3. Criterion: the upper limit (UL) of the 2-sided 95% confidence interval (CI) of the geometric mean antibody concentration (GMC) ratios (Synflorix/10Pn_4d) should be below a limit of 2-fold for each of the 10 serotypes.

| | |
|---|---------------------------------|
| Comparison groups | Synflorix Group v 10Pn_4d Group |
| Number of subjects included in analysis | 300 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority ^[5] |
| Parameter estimate | GMCs ratio |
| Point estimate | 1.05 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.88 |
| upper limit | 1.25 |

Notes:

[5] - GMCs ratio and its 95 % CI were obtained using an ANOVA model on the logarithm-10 transformed concentrations-pooled variance.

| | |
|-----------------------------------|------------------------|
| Statistical analysis title | Statistical analysis 6 |
|-----------------------------------|------------------------|

Statistical analysis description:

(Synflorix/10Pn_4d) antibody GMCs ratio for ANTI-9V serotype: to demonstrate non-inferiority of 10Pn-PD-DiT vaccine (4-dose presentation) as compared to 10Pn-PD-DiT vaccine (1-dose presentation) in terms of immune response, 1 month after dose 3. Criterion: the upper limit (UL) of the 2-sided 95% confidence interval (CI) of the geometric mean antibody concentration (GMC) ratios (Synflorix/10Pn_4d) should be below a limit of 2-fold for each of the 10 serotypes.

| | |
|---|---------------------------------|
| Comparison groups | Synflorix Group v 10Pn_4d Group |
| Number of subjects included in analysis | 300 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority ^[6] |
| Parameter estimate | GMCs ratio |
| Point estimate | 0.88 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.69 |
| upper limit | 1.13 |

Notes:

[6] - GMCs ratio and its 95 % CI were obtained using an ANOVA model on the logarithm-10 transformed concentrations-pooled variance.

| | |
|-----------------------------------|------------------------|
| Statistical analysis title | Statistical analysis 7 |
|-----------------------------------|------------------------|

Statistical analysis description:

(Synflorix/10Pn_4d) antibody GMCs ratio for ANTI-14 serotype: to demonstrate non-inferiority of 10Pn-PD-DiT vaccine (4-dose presentation) as compared to 10Pn-PD-DiT vaccine (1-dose presentation) in terms of immune response, 1 month after dose 3. Criterion: the upper limit (UL) of the 2-sided 95% confidence interval (CI) of the geometric mean antibody concentration (GMC) ratios (Synflorix/10Pn_4d) should be below a limit of 2-fold for each of the 10 serotypes.

| | |
|---|---------------------------------|
| Comparison groups | Synflorix Group v 10Pn_4d Group |
| Number of subjects included in analysis | 300 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority ^[7] |
| Parameter estimate | GMCs ratio |
| Point estimate | 0.98 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.73 |
| upper limit | 1.31 |

Notes:

[7] - GMCs ratio and its 95 % CI were obtained using an ANOVA model on the logarithm-10 transformed concentrations-pooled variance.

| | |
|-----------------------------------|------------------------|
| Statistical analysis title | Statistical analysis 8 |
|-----------------------------------|------------------------|

Statistical analysis description:

(Synflorix/10Pn_4d) antibody GMCs ratio for ANTI-18C serotype: to demonstrate non-inferiority of 10Pn-PD-DiT vaccine (4-dose presentation) as compared to 10Pn-PD-DiT vaccine (1-dose presentation) in terms of immune response, 1 month after dose 3. Criterion: the upper limit (UL) of the 2-sided 95% confidence interval (CI) of the geometric mean antibody concentration (GMC) ratios (Synflorix/10Pn_4d) should be below a limit of 2-fold for each of the 10 serotypes.

| | |
|---|---------------------------------|
| Comparison groups | Synflorix Group v 10Pn_4d Group |
| Number of subjects included in analysis | 300 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority ^[8] |
| Parameter estimate | GMCs ratio |
| Point estimate | 1.08 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.86 |
| upper limit | 1.37 |

Notes:

[8] - GMCs ratio and its 95 % CI were obtained using an ANOVA model on the logarithm-10 transformed concentrations-pooled variance.

| | |
|-----------------------------------|------------------------|
| Statistical analysis title | Statistical analysis 9 |
|-----------------------------------|------------------------|

Statistical analysis description:

(Synflorix/10Pn_4d) antibody GMCs ratio for ANTI-19F serotype: to demonstrate non-inferiority of 10Pn-PD-DiT vaccine (4-dose presentation) as compared to 10Pn-PD-DiT vaccine (1-dose presentation) in terms of immune response, 1 month after dose 3. Criterion: the upper limit (UL) of the 2-sided 95% confidence interval (CI) of the geometric mean antibody concentration (GMC) ratios (Synflorix/10Pn_4d) should be below a limit of 2-fold for each of the 10 serotypes.

| | |
|-------------------|---------------------------------|
| Comparison groups | Synflorix Group v 10Pn_4d Group |
|-------------------|---------------------------------|

| | |
|---|--------------------------------|
| Number of subjects included in analysis | 300 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority ^[9] |
| Parameter estimate | GMCs ratio |
| Point estimate | 0.99 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.78 |
| upper limit | 1.25 |

Notes:

[9] - GMCs ratio and its 95 % CI were obtained using an ANOVA model on the logarithm-10 transformed concentrations-pooled variance.

| | |
|-----------------------------------|-------------------------|
| Statistical analysis title | Statistical analysis 10 |
|-----------------------------------|-------------------------|

Statistical analysis description:

(Synflorix/10Pn_4d) antibody GMCs ratio for ANTI-23F serotype: to demonstrate non-inferiority of 10Pn-PD-DiT vaccine (4-dose presentation) as compared to 10Pn-PD-DiT vaccine (1-dose presentation) in terms of immune response, 1 month after dose 3. Criterion: the upper limit (UL) of the 2-sided 95% confidence interval (CI) of the geometric mean antibody concentration (GMC) ratios (Synflorix/10Pn_4d) should be below a limit of 2-fold for each of the 10 serotypes.

| | |
|---|---------------------------------|
| Comparison groups | Synflorix Group v 10Pn_4d Group |
| Number of subjects included in analysis | 300 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority ^[10] |
| Parameter estimate | GMCs ratio |
| Point estimate | 1.28 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.92 |
| upper limit | 1.8 |

Notes:

[10] - GMCs ratio and its 95 % CI were obtained using an ANOVA model on the logarithm-10 transformed concentrations-pooled variance.

Secondary: Titers for opsonophagocytic activity against pneumococcal serotypes (Epoch 001)

| | |
|-----------------|---|
| End point title | Titers for opsonophagocytic activity against pneumococcal serotypes (Epoch 001) |
|-----------------|---|

End point description:

Titers for opsonophagocytic activity assessed for this outcome measure were those for opsonophagocytic activity against the vaccine/cross-reactive pneumococcal serotypes 1, 4, 5, 6A, 6B, 7F, 9V, 14, 18C, 19A, 19F and 23F (OPA-1, -4, -5, -6A, -6B, -7F, -9V, -14, -18C, 19 A , -19F and -23F). The cut-off of the assay was a titer for opsonophagocytic activity higher than or equal to (\geq) 8.

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

End point timeframe:

At study Month 4, e. g. at one month post-Dose 3 of pneumococcal vaccine

| End point values | 10Pn_4d Group | Synflorix Group | | |
|--|---------------------------|---------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 75 | 74 | | |
| Units: Titers | | | | |
| geometric mean (confidence interval 95%) | | | | |
| OPA-1 (N=74,74) | 48.3 (34.9 to 67) | 52.8 (36 to 77.5) | | |
| OPA-4 (N=75,74) | 823.1 (670.9 to 1009.8) | 836.8 (644.5 to 1086.6) | | |
| OPA-5 (N=73,74) | 179 (140.7 to 227.8) | 211 (162.9 to 273.2) | | |
| OPA-6B (N=73,73) | 560.6 (336.9 to 932.8) | 759.6 (470.2 to 1227.3) | | |
| OPA-7F (N=74,73) | 2044 (1669.3 to 2502.9) | 2076.8 (1627 to 2650.9) | | |
| OPA-9V (N=75,74) | 613.3 (444.9 to 845.4) | 821.1 (602.5 to 1119.2) | | |
| OPA-14 (N=73,74) | 1563.9 (1105.1 to 2213.2) | 1655.8 (1141.1 to 2402.7) | | |
| OPA-18C (N=75,74) | 3965.4 (3288.6 to 4781.5) | 3809.7 (3067 to 4732.3) | | |
| OPA-19F (N=75,74) | 2151.3 (1573.5 to 2941.4) | 2879.2 (2348.4 to 3529.9) | | |
| OPA-23F (N=75,74) | 524.8 (338.5 to 813.9) | 730.2 (495.6 to 1075.7) | | |
| OPA-6A (N=66,69) | 50.3 (26.9 to 94) | 68.5 (36.8 to 127.7) | | |
| OPA-19A (N=72,71) | 98.6 (60.9 to 159.6) | 117.1 (71.9 to 190.6) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Concentrations of antibodies against protein D (Anti-PD) (Epoch 001)

| | |
|--|--|
| End point title | Concentrations of antibodies against protein D (Anti-PD) (Epoch 001) |
| End point description: Anti-PD antibody concentrations were measured by enzyme-linked immunosorbent assay (ELISA), expressed as geometric mean concentrations (GMCs), in ELISA Units per milliliter (EL.U/mL). The cut-off of the assay was an anti-PD antibody concentration higher than or equal to (\geq) 153 EL.U/mL. | |
| End point type | Secondary |
| End point timeframe: At study Month 4, e. g. at one month post-Dose 3 of pneumococcal vaccine | |

| End point values | 10Pn_4d Group | Synflorix Group | | |
|--|---------------------------|---------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 78 | 75 | | |
| Units: EL.U/mL | | | | |
| geometric mean (confidence interval 95%) | 2410.5 (2029.2 to 2863.5) | 2495.4 (2055.7 to 3029.1) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with any and Grade 3 solicited local symptoms (Epoch 001)

| | |
|-----------------|--|
| End point title | Number of subjects with any and Grade 3 solicited local symptoms (Epoch 001) |
|-----------------|--|

End point description:

Assessed local symptoms were pain, redness and swelling. Any = Occurrence of the specified solicited local symptom, regardless of intensity. Grade 3 Pain = Crying when limb was moved/spontaneously painful. Grade 3 Redness/Swelling = Redness/swelling at injection site larger than (>) 30 millimeters (mm). Dose 1 = 10Pn-PD-DIT+DTPw-HBV/Hib at 6 weeks of age. Dose 2 = 10Pn-PD-DIT+DTPw-HBV/Hib at 10 weeks of age. Dose 4 = 10Pn-PD-DIT at 18 weeks of age.

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

End point timeframe:

Within the 4-day (Days 0-3) post-vaccination period following each primary dose (D) of 10Pn-PD-DiT vaccine

| End point values | 10Pn_4d Group | Synflorix Group | | |
|---------------------------------------|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 159 | 156 | | |
| Units: Subjects | | | | |
| Any Pain, post D1 (N=159;156) | 82 | 90 | | |
| Grade 3 Pain, post D1 (N=159;156) | 4 | 5 | | |
| Any Redness, post D1 (N=159;156) | 24 | 26 | | |
| Grade 3 Redness, post D1 (N=159;156) | 0 | 0 | | |
| Any Swelling, post D1 (N=159;156) | 63 | 64 | | |
| Grade 3 Swelling, post D1 (N=159;156) | 0 | 0 | | |
| Any Pain, post D2 (N=158,152) | 56 | 56 | | |
| Grade 3 Pain, post D2 (N=158,152) | 1 | 0 | | |
| Any Redness, post D2 (N=158,152) | 22 | 26 | | |
| Grade 3 Redness, post D2 (N=158,152) | 0 | 0 | | |
| Any Swelling, post D2 (N=158,152) | 31 | 37 | | |
| Grade 3 Swelling, post D2 (N=158,152) | 0 | 0 | | |
| Any Pain, post D4 (N=155,147) | 13 | 15 | | |
| Grade 3 Pain, post D4 (N=155,147) | 0 | 0 | | |
| Any Redness, post D4 (N=155,147) | 9 | 8 | | |
| Grade 3 Redness, post D4 (N=155,147) | 0 | 0 | | |
| Any Swelling, post D4 (N=155,147) | 11 | 9 | | |

| | | | | |
|---------------------------------------|---|---|--|--|
| Grade 3 Swelling, post D4 (N=155,147) | 0 | 0 | | |
|---------------------------------------|---|---|--|--|

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with any and Grade 3 solicited general symptoms and with solicited general symptoms with relationship to vaccination (Epoch 001)

| | |
|-----------------|---|
| End point title | Number of subjects with any and Grade 3 solicited general symptoms and with solicited general symptoms with relationship to vaccination (Epoch 001) |
|-----------------|---|

End point description:

Assessed solicited general symptoms were Drowsiness, Irritability/Fussiness (Irr./Fuss.), Loss of appetite (Loss Appet.) and Fever (axillary route - temperature equal or higher than [\geq] 37.5 degrees Celsius [$^{\circ}$ C]). Any = Occurrence of the specified solicited general symptom, regardless of intensity or relationship to vaccination. Grade 3 Drowsiness = Drowsiness that prevented normal activity. Grade 3 Irr./Fuss. = Crying that could not be comforted/prevented normal activity. Grade 3 Loss of appetite = Subject did not eat at all. Grade 3 Fever = (axillary) temperature higher than ($>$) 39.5 $^{\circ}$ C. Related = Occurrence of the specified symptom assessed by the investigator as causally related to vaccination. Dose 1 = 10Pn-PD-DIT+DTPw-HBV/Hib at 6 weeks of age. Dose 2 = 10Pn-PD-DIT+DTPw-HBV/Hib at 10 weeks of age. Dose 4 = 10Pn-PD-DIT at 18 weeks of age.

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

End point timeframe:

Within the 4-day (Days 0-3) post-vaccination period following each primary dose (D) of 10Pn-PD-DiT vaccine

| End point values | 10Pn_4d Group | Synflorix Group | | |
|--|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 159 | 156 | | |
| Units: Subjects | | | | |
| Any Drowsiness, post D1 (N=159,156) | 26 | 31 | | |
| Grade 3 Drowsiness, post D1 (N=159,156) | 1 | 5 | | |
| Any Irr./Fuss., post D1 (N=159,156) | 61 | 62 | | |
| Grade 3 Irr./Fuss., post D1 (N=159,156) | 14 | 8 | | |
| Any Loss Appet., post D1 (N=159,156) | 43 | 46 | | |
| Grade 3 Loss Appet., post D1 (N=159,156) | 4 | 3 | | |
| Any Fever, post D1 (N=159,156) | 28 | 30 | | |
| Grade 3 Fever, post D1 (N=159,156) | 0 | 0 | | |
| Any Drowsiness, post D2 (N=158,152) | 15 | 23 | | |
| Grade 3 Drowsiness, post D2 (N=158,152) | 1 | 1 | | |
| Any Irr./Fuss., post D2 (N=158,152) | 39 | 47 | | |
| Grade 3 Irr./Fuss., post D2 (N=158,152) | 4 | 5 | | |
| Any Loss Appet., post D2 (N=158,152) | 24 | 20 | | |

| | | | | |
|--|----|----|--|--|
| Grade 3 Loss Appet., post D2 (N=158,152) | 3 | 2 | | |
| Any Fever, post D2 (N=158,152) | 23 | 18 | | |
| Grade 3 Fever, post D2 (N=158,152) | 0 | 0 | | |
| Any Drowsiness, post D4 (N=155,147) | 6 | 8 | | |
| Grade 3 Drowsiness, post D4 (N=155,147) | 0 | 1 | | |
| Any Irr./Fuss., post D4 (N=155,147) | 10 | 12 | | |
| Grade 3 Irr./Fuss., post D4 (N=155,147) | 0 | 1 | | |
| Any Loss Appet., post D4 (N=155,147) | 5 | 5 | | |
| Grade 3 Loss Appet., post D4 (N=155,147) | 0 | 0 | | |
| Any Fever, post D4 (N=155,147) | 2 | 6 | | |
| Grade 3 Fever, post D4 (N=155,147) | 0 | 0 | | |
| Related Drowsiness, post D1 (N=159,156) | 26 | 29 | | |
| Related Irr./Fuss., post D1 (N=159,156) | 61 | 62 | | |
| Related Loss Appet., post D1 (N=159,156) | 43 | 46 | | |
| Related Fever, post D1 (N=159,156) | 28 | 30 | | |
| Related Drowsiness, post D2 (N=158,152) | 15 | 23 | | |
| Related Irr./Fuss., post D2 (N=158,152) | 39 | 47 | | |
| Related Loss Appet., post D2 (N=158,152) | 23 | 20 | | |
| Related Fever, post D2 (N=158,152) | 22 | 18 | | |
| Related Drowsiness, post D4 (N=155,147) | 6 | 8 | | |
| Related Irr./Fuss., post D4 (N=155,147) | 10 | 12 | | |
| Related Loss Appet., post D4 (N=155,147) | 5 | 5 | | |
| Related Fever, post D4 (N=155,147) | 2 | 6 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with any unsolicited adverse events (AEs) (Epoch 001)

| | |
|-----------------|--|
| End point title | Number of subjects with any unsolicited adverse events (AEs) (Epoch 001) |
|-----------------|--|

End point description:

An unsolicited AE was defined as 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. An AE can therefore be any unfavourable and unintended sign (including an abnormal laboratory finding), symptom, or disease (new or exacerbated) temporally associated with the use of a medicinal product. For the marketed products administered in the study, this also included failure to produce expected benefits (i.e. lack of efficacy), abuse or misuse of the product. Any = Occurrence of an unsolicited AE, regardless of intensity or relationship to vaccination.

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

End point timeframe:

Within the 31-day (Days 0-30) period post primary vaccination, across doses

| End point values | 10Pn_4d Group | Synflorix Group | | |
|-----------------------------|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 160 | 160 | | |
| Units: Subjects | 10 | 16 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with any serious adverse events (SAEs) (Epoch 001)

| | |
|-----------------|---|
| End point title | Number of subjects with any serious adverse events (SAEs) (Epoch 001) |
|-----------------|---|

End point description:

An SAE was defined as any medical occurrence that resulted in death, was life-threatening, required hospitalization or prolongation of hospitalization, resulted in disability/incapacity in a subject. AE(s) considered as SAE(s) also included invasive or malignant cancers, intensive treatment in an emergency room or at home for allergic bronchospasm, blood dyscrasias or convulsions that did not result in hospitalization, as per the medical or scientific judgement of the physician. Any = Occurrence of an SAE, regardless of relationship to vaccination.

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

End point timeframe:

From Month 0 to Month 4

| End point values | 10Pn_4d Group | Synflorix Group | | |
|-----------------------------|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 160 | 160 | | |
| Units: Subjects | 4 | 9 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Antibody concentrations against pneumococcal serotypes (Epoch 002)

| | |
|-----------------|--|
| End point title | Antibody concentrations against pneumococcal serotypes (Epoch 002) |
|-----------------|--|

End point description:

Antibodies assessed for this outcome measure were those against the vaccine/cross-reactive pneumococcal serotypes 1, 4, 5, 6A, 6B, 7F, 9V, 14, 18C, 19A, 19F and 23F (ANTI-1, -4, -5, -6A, -6B, -7F, -9V, -14, -18C, -19A, -19F and -23F). Antibody concentrations were measured by 22F-inhibition enzyme-linked immunosorbent assay (ELISA), expressed as geometric mean concentrations (GMCs), in micrograms per milliliter (µg/mL). The cut-off of the assay was an antibody concentration higher than or equal to (≥) 0.05 µg/mL.

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

End point timeframe:

At Month 8 (M8) and Month 9 (M9), e.g.: prior to and at one month post booster vaccination with pneumococcal vaccine

| End point values | 10Pn_4d Group | Synflorix Group | | |
|--|------------------------|------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 151 | 144 | | |
| Units: µg/mL | | | | |
| geometric mean (confidence interval 95%) | | | | |
| ANTI-1 M8 (N=151,144) | 0.93 (0.79 to 1.1) | 0.99 (0.81 to 1.19) | | |
| ANTI-1 M9 (N=151,144) | 6.37 (5.48 to 7.41) | 7.5 (6.28 to 8.97) | | |
| ANTI-4 M8 (N=151,144) | 1.9 (1.65 to 2.19) | 1.71 (1.45 to 2.01) | | |
| ANTI-4 M9 (N=151,143) | 9.68 (8.47 to 11.06) | 9.41 (8.16 to 10.86) | | |
| ANTI-5 M8 (N=151,144) | 1.75 (1.5 to 2.05) | 1.75 (1.48 to 2.08) | | |
| ANTI-5 M9 (N=151,144) | 11.53 (10.14 to 13.12) | 12.24 (10.65 to 14.05) | | |
| ANTI-6B M8 (N=151,144) | 1.14 (0.93 to 1.4) | 1.06 (0.84 to 1.32) | | |
| ANTI-6B M9 (N=151,144) | 3.76 (3.01 to 4.69) | 4.11 (3.21 to 5.25) | | |
| ANTI-7F M8 (N=151,144) | 2.86 (2.5 to 3.27) | 2.75 (2.4 to 3.16) | | |
| ANTI-7F M9 (N=151,144) | 12.84 (11.38 to 14.48) | 13.71 (12.01 to 15.65) | | |
| ANTI-9V M8 (N=151,144) | 2.32 (1.96 to 2.75) | 2.25 (1.83 to 2.76) | | |
| ANTI-9V M9 (N=151,144) | 12.07 (10.42 to 13.98) | 12.43 (10.22 to 15.13) | | |
| ANTI-14 M8 (N=151,144) | 2.98 (2.39 to 3.72) | 2.4 (1.9 to 3.04) | | |
| ANTI-14 M9 (N=151,143) | 9.84 (8.02 to 12.08) | 9.72 (7.92 to 11.93) | | |
| ANTI-18C M8 (N=151,144) | 8.37 (7.14 to 9.82) | 9.23 (7.82 to 10.9) | | |
| ANTI-18C M9 (N=151,144) | 41.64 (36.87 to 47.02) | 47.06 (41.88 to 52.88) | | |
| ANTI-19F M8 (N=151,144) | 6.36 (5.36 to 7.55) | 6.45 (5.5 to 7.57) | | |
| ANTI-19F M9 (N=151,144) | 23.43 (19.48 to 28.19) | 24.96 (21.07 to 29.57) | | |
| ANTI-23F M8 (N=151,144) | 1.09 (0.89 to 1.33) | 1.21 (0.96 to 1.53) | | |
| ANTI-23F M9 (N=151,144) | 6.69 (5.66 to 7.9) | 6.69 (5.33 to 8.41) | | |
| ANTI-6A M8 (N=151,144) | 0.31 (0.24 to 0.39) | 0.3 (0.24 to 0.38) | | |
| ANTI-6A M9 (N=151,144) | 0.97 (0.74 to 1.26) | 1.11 (0.83 to 1.49) | | |
| ANTI-19A M8 (N=151,144) | 0.7 (0.55 to 0.89) | 0.69 (0.54 to 0.88) | | |

| | | | | |
|-------------------------|---------------------|---------------------|--|--|
| ANTI-19A M9 (N=151,144) | 3.03 (2.26 to 4.05) | 3.63 (2.73 to 4.82) | | |
|-------------------------|---------------------|---------------------|--|--|

Statistical analyses

No statistical analyses for this end point

Secondary: Titers for opsonophagocytic activity against pneumococcal serotypes (Epoch 002)

| | |
|-----------------|---|
| End point title | Titers for opsonophagocytic activity against pneumococcal serotypes (Epoch 002) |
|-----------------|---|

End point description:

Titers for opsonophagocytic activity assessed for this outcome measure were those for opsonophagocytic activity against the vaccine/cross-reactive pneumococcal serotypes 1, 4, 5, 6A, 6B, 7F, 9V, 14, 18C, 19A, 19F and 23F (OPA-1, -4, -5, -6A, -6B, -7F, -9V, -14, -18C, -19A, -19F and -23F). The cut-off of the assay was a titer for opsonophagocytic activity higher than or equal to (\geq) 8.

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

End point timeframe:

At study Month 8 (M8) and Month 9 (M9), e.g.: prior to and at one month post booster vaccination with pneumococcal vaccine

| End point values | 10Pn_4d Group | Synflorix Group | | |
|--|---------------------------|---------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 76 | 73 | | |
| Units: Titers | | | | |
| geometric mean (confidence interval 95%) | | | | |
| OPA-1 M8 (N=72,70) | 11.5 (8.2 to 16.1) | 12.8 (9.1 to 17.9) | | |
| OPA-1 M9 (N=73,71) | 227.7 (170.6 to 303.9) | 326.7 (238.7 to 447) | | |
| OPA-4 M8 (N=72,70) | 248.1 (178.6 to 344.7) | 280.5 (193.4 to 406.6) | | |
| OPA-4 M9 (N=76,73) | 2025.4 (1641.6 to 2498.8) | 2888.7 (2221.6 to 3756.1) | | |
| OPA-5 M8 (N=73,71) | 51.3 (37 to 71.3) | 62.7 (44.4 to 88.7) | | |
| OPA-5 M9 (N=76,73) | 550.6 (437.8 to 692.4) | 801.2 (633.2 to 1013.6) | | |
| OPA-6B M8 (N=73,70) | 290.3 (177.1 to 475.7) | 286.8 (183.5 to 448) | | |
| OPA-6B M9 (N=74,72) | 851.3 (533.4 to 1358.6) | 1352 (913.9 to 1999.9) | | |
| OPA-7F M8 (N=74,73) | 1112.8 (864.8 to 1431.8) | 1181.7 (933.4 to 1495.9) | | |
| OPA-7F M9 (N=76,73) | 4574.7 (3756.1 to 5571.6) | 5635.8 (4561.7 to 6962.9) | | |
| OPA-9V M8 (N=69,72) | 415.8 (280.6 to 616.3) | 570.6 (408.4 to 797.3) | | |

| | | | | |
|----------------------|---------------------------|---------------------------|--|--|
| OPA-9V M9 (N=76,73) | 2308.4 (1903.3 to 2799.7) | 3181.9 (2376.9 to 4259.6) | | |
| OPA-14 M8 (N=73,72) | 660.1 (432.4 to 1007.6) | 745 (513.9 to 1080) | | |
| OPA-14 M9 (N=76,73) | 3345.6 (2585 to 4330.1) | 3649.1 (2808.6 to 4741.2) | | |
| OPA-18C M8 (N=74,73) | 1505.4 (1196.4 to 1894.1) | 1735.2 (1373.8 to 2191.7) | | |
| OPA-18C M9 (N=76,73) | 7316.1 (6137.6 to 8720.8) | 7181.6 (6003.6 to 8590.7) | | |
| OPA-19F M8 (N=74,72) | 770.1 (536.6 to 1105.3) | 1254.3 (990.8 to 1587.9) | | |
| OPA-19F M9 (N=76,73) | 3197.3 (2271.1 to 4501.2) | 4757.7 (3772.3 to 6000.4) | | |
| OPA-23F M8 (N=70,69) | 267.7 (168.7 to 424.9) | 252.7 (154.8 to 412.4) | | |
| OPA-23F M9 (N=76,73) | 1250.8 (931.3 to 1679.8) | 1465.6 (1002.9 to 2141.7) | | |
| OPA-6A M8 (N=72,68) | 52.4 (27.4 to 100.1) | 45.5 (24 to 86.5) | | |
| OPA-6A M9 (N=71,68) | 192 (102.9 to 358.4) | 284.4 (158.4 to 510.6) | | |
| OPA-19A M8 (N=73,71) | 42.7 (25.1 to 72.7) | 43.6 (26.6 to 71.3) | | |
| OPA-19A M9 (N=76,72) | 410.4 (246.7 to 682.8) | 591.7 (356.9 to 980.9) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Concentrations of antibodies against protein D (Anti-PD) (Epoch 002)

| | |
|--|--|
| End point title | Concentrations of antibodies against protein D (Anti-PD) (Epoch 002) |
| End point description: Anti-PD antibody concentrations were measured by enzyme-linked immunosorbent assay (ELISA), expressed as geometric mean concentrations (GMCs), in ELISA Units per milliliter (EL.U/mL). The cut-off of the assay was an anti-PD antibody concentration higher than or equal to (\geq) 153 EL.U/mL. | |
| End point type | Secondary |
| End point timeframe: At study Month 9 (M9), e.g.: at one month post booster vaccination with pneumococcal vaccine | |

| End point values | 10Pn_4d Group | Synflorix Group | | |
|--|---------------------------|-----------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 76 | 73 | | |
| Units: EL.U/mL | | | | |
| geometric mean (confidence interval 95%) | | | | |
| Anti-PD | 2672.4 (2285.5 to 3124.8) | 2944 (2486.2 to 3486) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with any and Grade 3 solicited local symptoms (Epoch 002)

| | |
|-----------------|--|
| End point title | Number of subjects with any and Grade 3 solicited local symptoms (Epoch 002) |
|-----------------|--|

End point description:

Assessed local symptoms were pain, redness and swelling. Any = Occurrence of the specified solicited local symptom, regardless of intensity. Grade 3 Pain = Crying when limb was moved/spontaneously painful. Grade 3 Redness/Swelling = Redness/swelling at injection site larger than (>) 30 millimeters (mm).

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

End point timeframe:

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

| End point values | 10Pn_4d Group | Synflorix Group | | |
|-----------------------------|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 152 | 145 | | |
| Units: Subjects | | | | |
| Any Pain | 9 | 2 | | |
| Grade 3 Pain | 1 | 0 | | |
| Any Redness | 14 | 5 | | |
| Grade 3 Redness | 0 | 0 | | |
| Any Swelling | 16 | 8 | | |
| Grade 3 Swelling | 0 | 0 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with any and Grade 3 solicited general symptoms and with solicited general symptoms with relationship to vaccination (Epoch 002)

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

End point description:

Assessed solicited general symptoms were Drowsiness, Irritability/Fussiness (Irr./Fuss.), Loss of appetite (Loss Appet.) and Fever (axillary route - temperature equal or higher than \geq 37.5 degrees Celsius [$^{\circ}$ C]). Any = Occurrence of the specified solicited general symptom, regardless of intensity or relationship to vaccination. Related = Occurrence of the specified symptom assessed by the investigators as causally related to vaccination. Grade 3 Drowsiness = Drowsiness that prevented normal activity. Grade 3 Irr./Fuss. = Crying that could not be comforted/prevented normal activity. Grade 3 Loss of appetite = Subject did not eat at all. Grade 3 Fever = (Axillary) temperature higher than ($>$) 39.5 $^{\circ}$ C.

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

End point timeframe:

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

| End point values | 10Pn_4d Group | Synflorix Group | | |
|-----------------------------|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 152 | 145 | | |
| Units: Subjects | | | | |
| Any Drowsiness | 8 | 4 | | |
| Grade 3 Drowsiness | 0 | 0 | | |
| Related Drowsiness | 8 | 4 | | |
| Any Irr./Fuss. | 11 | 5 | | |
| Grade 3 Irr./Fuss. | 1 | 0 | | |
| Related Irr./Fuss. | 11 | 5 | | |
| Any Loss Appet. | 8 | 4 | | |
| Grade 3 Loss Appet. | 0 | 0 | | |
| Related Loss Appet. | 8 | 4 | | |
| Any Fever | 4 | 3 | | |
| Grade 3 Fever | 0 | 0 | | |
| Related Fever | 4 | 3 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with any unsolicited AEs (Epoch 002)

| | |
|-----------------|---|
| End point title | Number of subjects with any unsolicited AEs (Epoch 002) |
|-----------------|---|

End point description:

An unsolicited AE was defined as 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. An AE can therefore be any unfavourable and unintended sign (including an abnormal laboratory finding), symptom, or disease (new or exacerbated) temporally associated with the use of a medicinal product. For the marketed products administered in the study, this also included failure to produce expected benefits (i.e. lack of efficacy), abuse or misuse of the product. Any = Occurrence of an unsolicited AE, regardless of intensity or relationship to vaccination.

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

End point timeframe:

Within the 31-day (Days 0-30) period post booster vaccination

| End point values | 10Pn_4d Group | Synflorix Group | | |
|-----------------------------|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 152 | 145 | | |
| Units: Subjects | | | | |
| Any AE(s) | 0 | 0 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with any SAEs during the entire duration of the study

| | |
|-----------------|--|
| End point title | Number of subjects with any SAEs during the entire duration of the study |
|-----------------|--|

End point description:

An SAE was defined as any medical occurrence that resulted in death, was life-threatening, required hospitalization or prolongation of hospitalization, resulted in disability/incapacity in a subject. AE(s) considered as SAE(s) also included invasive or malignant cancers, intensive treatment in an emergency room or at home for allergic bronchospasm, blood dyscrasias or convulsions that did not result in hospitalization, as per the medical or scientific judgement of the physician. Any = Occurrence of an SAE, regardless of relationship to vaccination.

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

End point timeframe:

From Day 0 to Month 9

| End point values | 10Pn_4d Group | Synflorix Group | | |
|-----------------------------|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 160 | 160 | | |
| Units: Subjects | | | | |
| Any SAE(s) | 4 | 9 | | |

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Solicited symptoms and Unsolicited AEs: during 31 days post vaccination period; SAEs: during the whole study period (from Day 0 to Month 9).

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

Dictionary used

| | |
|--------------------|--------|
| Dictionary name | MedDRA |
| Dictionary version | 19.0 |

Reporting groups

| | |
|-----------------------|-----------------|
| Reporting group title | Synflorix Group |
|-----------------------|-----------------|

Reporting group description:

Healthy male or female subjects, between and including 6 to 10 weeks (42-76 days) of age at the time of first vaccination, received 3 doses of the licensed 1-dose presentation 10Pn-PD-DiT (Synflorix) vaccine given approximatively at 6, 10 and 18 weeks of age (primary vaccination – Epoch 001) and 3 doses of DTPw-HBV/Hib vaccine given approximatively at 6, 10 and 14 weeks of age (according to the EPI schedule). They also received a booster dose of the 1-dose presentation 10Pn-PD-DiT vaccine at approximatively 9 months of age (Epoch-002).

| | |
|-----------------------|---------------|
| Reporting group title | 10Pn_4d Group |
|-----------------------|---------------|

Reporting group description:

Healthy male or female subjects, between and including 6 to 10 weeks (42-76 days) of age at the time of first vaccination, received 3 doses of the investigational 4-dose presentation 10Pn-PD-DiT vaccine given approximatively at 6, 10 and 18 weeks of age (primary vaccination – Epoch 001) and 3 doses of DTPw-HBV/Hib vaccine given approximatively at 6, 10 and 14 weeks of age (according to the EPI schedule). They also received a booster dose of the 4-dose presentation 10Pn-PD-DiT vaccine at approximatively 9 months of age (Epoch-002).

| Serious adverse events | Synflorix Group | 10Pn_4d Group | |
|---|-----------------|-----------------|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 9 / 160 (5.63%) | 4 / 160 (2.50%) | |
| number of deaths (all causes) | 1 | 1 | |
| number of deaths resulting from adverse events | 0 | 0 | |
| Injury, poisoning and procedural complications | | | |
| Chemical poisoning | | | |
| subjects affected / exposed | 1 / 160 (0.63%) | 0 / 160 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Congenital, familial and genetic disorders | | | |
| Cerebral palsy | | | |
| subjects affected / exposed | 1 / 160 (0.63%) | 0 / 160 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

| | | | |
|---|-----------------|-----------------|--|
| Laryngomalacia | | | |
| subjects affected / exposed | 1 / 160 (0.63%) | 0 / 160 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Nervous system disorders | | | |
| Febrile convulsion | | | |
| subjects affected / exposed | 1 / 160 (0.63%) | 0 / 160 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastrointestinal disorders | | | |
| Diarrhoea | | | |
| subjects affected / exposed | 2 / 160 (1.25%) | 0 / 160 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 3 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Infections and infestations | | | |
| Bronchiolitis | | | |
| subjects affected / exposed | 2 / 160 (1.25%) | 0 / 160 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastroenteritis | | | |
| subjects affected / exposed | 1 / 160 (0.63%) | 1 / 160 (0.63%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pneumonia | | | |
| subjects affected / exposed | 4 / 160 (2.50%) | 1 / 160 (0.63%) | |
| occurrences causally related to treatment / all | 0 / 4 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Respiratory syncytial virus bronchiolitis | | | |
| subjects affected / exposed | 0 / 160 (0.00%) | 1 / 160 (0.63%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Respiratory tract infection | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 160 (0.00%) | 1 / 160 (0.63%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Sepsis | | | |
| subjects affected / exposed | 0 / 160 (0.00%) | 2 / 160 (1.25%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Septic shock | | | |
| subjects affected / exposed | 1 / 160 (0.63%) | 0 / 160 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |

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

| Non-serious adverse events | Synflorix Group | 10Pn_4d Group | |
|---|--------------------|--------------------|--|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 126 / 160 (78.75%) | 120 / 160 (75.00%) | |
| Nervous system disorders | | | |
| Somnolence | | | |
| subjects affected / exposed | 42 / 160 (26.25%) | 38 / 160 (23.75%) | |
| occurrences (all) | 66 | 55 | |
| General disorders and administration site conditions | | | |
| Pain | | | |
| subjects affected / exposed | 102 / 160 (63.75%) | 101 / 160 (63.13%) | |
| occurrences (all) | 163 | 160 | |
| Pyrexia | | | |
| subjects affected / exposed | 47 / 160 (29.38%) | 51 / 160 (31.88%) | |
| occurrences (all) | 57 | 59 | |
| Swelling | | | |
| subjects affected / exposed | 81 / 160 (50.63%) | 83 / 160 (51.88%) | |
| occurrences (all) | 118 | 121 | |
| Skin and subcutaneous tissue disorders | | | |
| Erythema | | | |
| subjects affected / exposed | 40 / 160 (25.00%) | 37 / 160 (23.13%) | |
| occurrences (all) | 65 | 69 | |

| | | | |
|------------------------------------|-------------------|-------------------|--|
| Psychiatric disorders | | | |
| Irritability | | | |
| subjects affected / exposed | 84 / 160 (52.50%) | 77 / 160 (48.13%) | |
| occurrences (all) | 126 | 121 | |
| Metabolism and nutrition disorders | | | |
| Decreased appetite | | | |
| subjects affected / exposed | 53 / 160 (33.13%) | 58 / 160 (36.25%) | |
| occurrences (all) | 75 | 80 | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|-----------------|---|
| 20 April 2015 | <p>Amendment 1</p> <p>The protocol amendment has been issued to implement the following guidance from the International Centre for Diarrhoeal Disease Research, Bangladesh (ICDDR,B):</p> <p>Following post-study approval discussion with the Ethical Review Committee (ERC) of the ICDDR,B regarding the strengthening of the informed consent process, the presence of one witness has been requested for the informed consent of each subject's parent/legally acceptable representative, irrespective of literacy status.</p> <p>In line with local ICDDR,B guidelines, the ERC required the implementation of a Data and Safety Monitoring Board (DSMB) which will be established by the ERC. The safety monitoring section has been updated accordingly.</p> |
| 21 October 2015 | <p>Amendment 2</p> <p>Recently Synflorix effectiveness against vaccine-related serotype 19A has been added to the product information and Synflorix can be recommended for active immunization against 19A pneumococcal disease in addition to the vaccine serotypes. The purpose of this amendment is to add demonstration of the non-inferiority of the 10Pn-PD-DiT vaccine (4-dose presentation) as compared to 10Pn-PD-DiT vaccine (1-dose presentation) in terms of the immune response to the vaccine-related serotype 19A as a first secondary objective.</p> <p>Following review of the validation package of the anti-protein D (PD) IgG ELISA, the Company decided to fully redevelop and revalidate this assay in order to comply with the latest validation requirements of the Regulatory Authorities. In consequence, the anti-PD ELISA assay cut-off has been changed.</p> |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported