



## Clinical trial results:

**A phase IIIb open, controlled study to evaluate the immunogenicity, safety and reactogenicity of GlaxoSmithKline (GSK) Biologicals' 10-valent pneumococcal conjugate vaccine when given as a catch-up immunization in children older than 7 months of age or given as a 3-dose primary immunization in children before 6 months of age.**

### Summary

|                          |                  |
|--------------------------|------------------|
| EudraCT number           | 2006-001482-42   |
| Trial protocol           | FI               |
| Global end of trial date | 15 November 2007 |

### Results information

|                                |                  |
|--------------------------------|------------------|
| Result version number          | v1               |
| This version publication date  | 09 February 2016 |
| First version publication date | 14 June 2015     |

### Trial information

#### Trial identification

|                       |        |
|-----------------------|--------|
| Sponsor protocol code | 107058 |
|-----------------------|--------|

#### Additional study identifiers

|                                    |             |
|------------------------------------|-------------|
| ISRCTN number                      | -           |
| ClinicalTrials.gov id (NCT number) | NCT00345358 |
| 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:

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**Results analysis stage**

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|  |                  |
|--|------------------|
| Analysis stage                                       | Final            |
| Date of interim/final analysis                       | 29 April 2008    |
| Is this the analysis of the primary completion data? | No               |
| Global end of trial reached?                         | Yes              |
| Global end of trial date                             | 15 November 2007 |
| Was the trial ended prematurely?                     | No               |

Notes:

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**General information about the trial**

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Main objective of the trial:

To evaluate the immunogenicity of GSK Biologicals' 10-valent pneumococcal conjugate vaccine, when given as a catch-up immunization in children older than 7 months of age (three age-groups with different schedules).

Protection of trial subjects:

All vaccines were observed closely for at least 30 minutes following the administration of vaccines, with appropriate medical treatment readily available in case of a rare anaphylactic reaction.

Vaccines/products were administered by qualified and trained personnel. Vaccines/products were administered only to eligible subjects that had no contraindications to any components of the vaccines/products. Subjects were followed-up for up to 31 days for adverse events after the last vaccination/product administration and during the entire study period for serious adverse events.

Background therapy: -

Evidence for comparator: -

|   |                   |
|---|-------------------|
| Actual start date of recruitment                          | 18 September 2006 |
| Long term follow-up planned                               | No                |
| Independent data monitoring committee (IDMC) involvement? | No                |

Notes:

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**Population of trial subjects**

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**Subjects enrolled per country**

|                                      |              |
|--------------------------------------|--------------|
| Country: Number of subjects enrolled | Finland: 600 |
| Worldwide total number of subjects   | 600          |
| EEA total number of subjects         | 600          |

Notes:

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**Subjects enrolled per age group**

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|   |     |
|---|-----|
| In utero                                  | 0   |
| Preterm newborn - gestational age < 37 wk | 0   |
| Newborns (0-27 days)                      | 0   |
| Infants and toddlers (28 days-23 months)  | 450 |
| Children (2-11 years)                     | 150 |
| Adolescents (12-17 years)                 | 0   |
| Adults (18-64 years)                      | 0   |
| From 65 to 84 years                       | 0   |



## Subject disposition

### Recruitment

Recruitment details:

The study included a primary (PRI) phase (all groups) and a booster (BST) phase (only 10Pn <6M and 10Pn 7-11M groups).

### Pre-assignment

Screening details:

At screening the following was performed: informed consent was obtained from & signed by subjects' parents/guardians, check for inclusion/exclusion criteria and precautions was performed as regards contraindications to vaccination, and medical history of subjects was collected. Subjects' pre-vaccination body temperature was evaluated.

### Period 1

|                              |                           |
|------------------------------|---------------------------|
| Period 1 title               | Primary Vaccination Phase |
| Is this the baseline period? | Yes                       |
| Allocation method            | Randomised - controlled   |
| Blinding used                | Not blinded               |

### Arms

|                              |                |
|------------------------------|----------------|
| Are arms mutually exclusive? | Yes            |
| <b>Arm title</b>             | 10Pn <6M Group |

Arm description:

This group consisted of subjects up to 6 months of age at first vaccination who received 3 doses of 10Pn-PD-DiT (or 10Pn) vaccine co-administered with Infanrix<sup>TM</sup> IPV/Hib (DTPa-IPV/Hib) at 3, 4 and 5 months of age and a booster dose of the same vaccines at 12-15 months of age. Vaccines were administered intramuscularly in the right (10Pn-PD-DiT) or the left (DTPa-IPV/Hib) thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|  |  |
|--|--|
| Arm type                               | Experimental   |
| Investigational medicinal product name | 10-valent streptococcus pneumoniae conjugate vaccine |
| Investigational medicinal product code |  |
| Other name                             | 10Pn-PD-DiT, 10Pn                                    |
| Pharmaceutical forms                   | Suspension for injection                             |
| Routes of administration               | Intramuscular use                                    |

Dosage and administration details:

3 primary doses administered at 3, 4 and 5 months of age followed by a booster dose at 12-15 months of age, all injected intramuscularly in the right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|  |   |
|--|---|
| Investigational medicinal product name | Infanrix-Polio+Hib                              |
| Investigational medicinal product code |   |
| Other name                             | Infanrix <sup>TM</sup> IPV/Hib, DTPa-IPV/Hib    |
| Pharmaceutical forms                   | Powder and solvent for suspension for injection |
| Routes of administration               | Intramuscular use                               |

Dosage and administration details:

3 primary doses administered at 3, 4 and 5 months of age followed by a booster dose at 12-15 months of age, all injected intramuscularly in the left right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|                  |                  |
|------------------|------------------|
| <b>Arm title</b> | 10Pn 7-11M Group |
|------------------|------------------|

Arm description:

This group consisted of subjects 7 to 11 months of age at first vaccination who received 2 doses of 10Pn-PD-DiT (10Pn), one first dose at enrolment followed by a second dose one month later, and a booster dose at 12-15 months of age. The 10PN-PD-DiT vaccine was administered intramuscularly in the right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|  |  |
|--|--|
| Arm type                               | Experimental   |
| Investigational medicinal product name | 10-valent streptococcus pneumoniae conjugate vaccine |
| Investigational medicinal product code |  |
| Other name                             | 10Pn-PD-DiT, 10Pn                                    |
| Pharmaceutical forms                   | Suspension for injection                             |
| Routes of administration               | Intramuscular use                                    |

Dosage and administration details:

2 doses, one first dose at enrolment followed by a second dose one month later, followed by a booster dose at 12-15 months of age., injected intramuscularly in the right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|                  |                   |
|------------------|-------------------|
| <b>Arm title</b> | 10Pn 12-23M Group |
|------------------|-------------------|

Arm description:

This group consisted of subjects 12 to 23 months inclusive at first vaccination who received 2 doses of 10Pn-PD-DiT (10Pn), one first dose at enrolment followed by a second dose 2 months later. The 10PN-PD-DiT vaccine was administered intramuscularly in the right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|  |   |
|--|---|
| Arm type                               | Experimental  |
| Investigational medicinal product name | IMP Name 10-valent streptococcus pneumoniae conjugate vaccine |
| Investigational medicinal product code |   |
| Other name                             | 10Pn-PD-DiT, 10Pn   |
| Pharmaceutical forms                   | Suspension for injection                                      |
| Routes of administration               | Intramuscular use   |

Dosage and administration details:

2 doses of 10Pn-PD-DiT (10Pn), one first dose at enrolment followed by a second dose 2 months later, injected intramuscularly in the right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|                  |                  |
|------------------|------------------|
| <b>Arm title</b> | 10Pn >=24M Group |
|------------------|------------------|

Arm description:

This group consisted of subjects aged between 24 months (inclusive) to 5 years (inclusive) at vaccination who received one dose of 10Pn-PD-DiT (10Pn). The 10PN-PD-DiT vaccine was administered intramuscularly in the right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|  |  |
|--|--|
| Arm type                               | Experimental   |
| Investigational medicinal product name | 10-valent streptococcus pneumoniae conjugate vaccine |
| Investigational medicinal product code |  |
| Other name                             | 10Pn-PD-DiT, 10Pn                                    |
| Pharmaceutical forms                   | Suspension for injection                             |
| Routes of administration               | Intramuscular use                                    |

Dosage and administration details:

One dose administered when subject's age was between 24 months (inclusive) to 5 years of age (inclusive) at vaccination, injected intramuscularly in the right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

| <b>Number of subjects in period 1</b> | 10Pn <6M Group | 10Pn 7-11M Group | 10Pn 12-23M Group |
|---------------------------------------|----------------|------------------|-------------------|
| Started                               | 150            | 150              | 150               |
| Completed                             | 145            | 146              | 142               |
| Not completed                         | 5              | 4                | 8                 |
| Consent withdrawn by subject          | 1              | 2                | 4                 |
| Adverse event, non-fatal              | 3              | 1                | 1                 |

|                            |   |   |   |
|----------------------------|---|---|---|
| Other reason (unspecified) | - | 1 | 1 |
| Lost to follow-up          | 1 | - | 2 |

|                                       |                  |
|---------------------------------------|------------------|
| <b>Number of subjects in period 1</b> | 10Pn >=24M Group |
| Started                               | 150              |
| Completed                             | 148              |
| Not completed                         | 2                |
| Consent withdrawn by subject          | -                |
| Adverse event, non-fatal              | -                |
| Other reason (unspecified)            | -                |
| Lost to follow-up                     | 2                |

## Period 2

|                              |                           |
|------------------------------|---------------------------|
| Period 2 title               | Booster Vaccination Phase |
| Is this the baseline period? | No                        |
| Allocation method            | Randomised - controlled   |
| Blinding used                | Not blinded               |

## Arms

|                              |                |
|------------------------------|----------------|
| Are arms mutually exclusive? | Yes            |
| <b>Arm title</b>             | 10Pn <6M Group |

### Arm description:

This group consisted of subjects up to 6 months of age at first vaccination who received 3 doses of 10Pn-PD-DiT (or 10Pn) vaccine co-administered with Infanrix<sup>TM</sup> IPV/Hib (DTPa-IPV/Hib) at 3, 4 and 5 months of age and a booster dose of the same vaccines at 12-15 months of age. Vaccines were administered intramuscularly in the right (10Pn-PD-DiT) or the left (DTPa-IPV/Hib) thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|  |  |
|--|--|
| Arm type                               | Experimental   |
| Investigational medicinal product name | 10-valent streptococcus pneumoniae conjugate vaccine |
| Investigational medicinal product code |  |
| Other name                             | 10Pn-PD-DiT, 10Pn                                    |
| Pharmaceutical forms                   | Suspension for injection                             |
| Routes of administration               | Intramuscular use                                    |

### Dosage and administration details:

3 primary doses administered at 3, 4 and 5 months of age followed by a booster dose at 12-15 months of age, all injected intramuscularly in the right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|  |   |
|--|---|
| Investigational medicinal product name | Infanrix-Polio+Hib                              |
| Investigational medicinal product code |   |
| Other name                             | Infanrix <sup>TM</sup> IPV/Hib, DTPa-IPV/Hib    |
| Pharmaceutical forms                   | Powder and solvent for suspension for injection |
| Routes of administration               | Intramuscular use                               |

### Dosage and administration details:

3 primary doses administered at 3, 4 and 5 months of age followed by a booster dose at 12-15 months of age, all injected intramuscularly in the left right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|                  |                  |
|------------------|------------------|
| <b>Arm title</b> | 10Pn 7-11M Group |
|------------------|------------------|

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**Arm description:**

This group consisted of subjects 7 to 11 months of age at first vaccination who received 2 doses of 10Pn-PD-DiT (10Pn), one first dose at enrolment followed by a second dose one month later, and a booster dose at 12-15 months of age. The 10PN-PD-DiT vaccine was administered intramuscularly in the right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|  |  |
|--|--|
| Arm type                               | Experimental   |
| Investigational medicinal product name | 10-valent streptococcus pneumoniae conjugate vaccine |
| Investigational medicinal product code |  |
| Other name                             | 10Pn-PD-DiT, 10Pn                                    |
| Pharmaceutical forms                   | Suspension for injection                             |
| Routes of administration               | Intramuscular use                                    |

**Dosage and administration details:**

2 doses, one first dose at enrolment followed by a second dose one month later, followed by a booster dose at 12-15 months of age., injected intramuscularly in the right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

| <b>Number of subjects in period 2<sup>[1]</sup></b> | 10Pn <6M Group | 10Pn 7-11M Group |
|---|----------------|------------------|
| Started   | 145            | 145              |
| Completed   | 141            | 145              |
| Not completed                                       | 4              | 0                |
| Consent withdrawn by subject                        | 1              | -                |
| Lost to follow-up                                   | 3              | -                |

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**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: One subject from the 10Pn 7-11M Group was not included in the Booster Phase of the study for not having received the booster vaccination dose.

## Baseline characteristics

### Reporting groups

|                       |                |
|-----------------------|----------------|
| Reporting group title | 10Pn <6M Group |
|-----------------------|----------------|

#### Reporting group description:

This group consisted of subjects up to 6 months of age at first vaccination who received 3 doses of 10Pn-PD-DiT (or 10Pn) vaccine co-administered with Infanrix<sup>TM</sup> IPV/Hib (DTPa-IPV/Hib) at 3, 4 and 5 months of age and a booster dose of the same vaccines at 12-15 months of age. Vaccines were administered intramuscularly in the right (10Pn-PD-DiT) or the left (DTPa-IPV/Hib) thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|                       |                  |
|-----------------------|------------------|
| Reporting group title | 10Pn 7-11M Group |
|-----------------------|------------------|

#### Reporting group description:

This group consisted of subjects 7 to 11 months of age at first vaccination who received 2 doses of 10Pn-PD-DiT (10Pn), one first dose at enrolment followed by a second dose one month later, and a booster dose at 12-15 months of age. The 10PN-PD-DiT vaccine was administered intramuscularly in the right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|                       |                   |
|-----------------------|-------------------|
| Reporting group title | 10Pn 12-23M Group |
|-----------------------|-------------------|

#### Reporting group description:

This group consisted of subjects 12 to 23 months inclusive at first vaccination who received 2 doses of 10Pn-PD-DiT (10Pn), one first dose at enrolment followed by a second dose 2 months later. The 10PN-PD-DiT vaccine was administered intramuscularly in the right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|                       |                  |
|-----------------------|------------------|
| Reporting group title | 10Pn >=24M Group |
|-----------------------|------------------|

#### Reporting group description:

This group consisted of subjects aged between 24 months (inclusive) to 5 years (inclusive) at vaccination who received one dose of 10Pn-PD-DiT (10Pn). The 10PN-PD-DiT vaccine was administered intramuscularly in the right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

| Reporting group values  | 10Pn <6M Group | 10Pn 7-11M Group | 10Pn 12-23M Group |
|---|----------------|------------------|-------------------|
| Number of subjects  | 150            | 150              | 150               |
| Age categorical<br>Units: Subjects  |                |                  |                   |
| In utero<br>Preterm newborn infants<br>(gestational age < 37 wks)<br>Newborns (0-27 days)<br>Infants and toddlers (28 days-23<br>months)<br>Children (2-11 years)<br>Adolescents (12-17 years)<br>Adults (18-64 years)<br>From 65-84 years<br>85 years and over |                |                  |                   |
| Age continuous<br>Units: months   |                |                  |                   |
| arithmetic mean   | 10.8           | 8.3              | 17.9              |
| standard deviation  | ± 1.09         | ± 1.2            | ± 3.19            |
| Gender categorical<br>Units: Subjects   |                |                  |                   |
| Female  | 66             | 68               | 76                |
| Male  | 84             | 82               | 74                |

| <b>Reporting group values</b>                         | 10Pn >=24M Group | Total |  |
|---|------------------|-------|--|
| Number of subjects                                    | 150              | 600   |  |
| Age categorical<br>Units: Subjects                    |                  |       |  |
| In utero  |                  | 0     |  |
| Preterm newborn infants<br>(gestational age < 37 wks) |                  | 0     |  |
| Newborns (0-27 days)                                  |                  | 0     |  |
| Infants and toddlers (28 days-23<br>months)           |                  | 0     |  |
| Children (2-11 years)                                 |                  | 0     |  |
| Adolescents (12-17 years)                             |                  | 0     |  |
| Adults (18-64 years)                                  |                  | 0     |  |
| From 65-84 years                                      |                  | 0     |  |
| 85 years and over                                     |                  | 0     |  |
| Age continuous<br>Units: months                       |                  |       |  |
| arithmetic mean                                       | 36.6             |       |  |
| standard deviation                                    | ± 11.87          | -     |  |
| Gender categorical<br>Units: Subjects                 |                  |       |  |
| Female  | 72               | 282   |  |
| Male  | 78               | 318   |  |

## End points

### End points reporting groups

|                       |                |
|-----------------------|----------------|
| Reporting group title | 10Pn <6M Group |
|-----------------------|----------------|

Reporting group description:

This group consisted of subjects up to 6 months of age at first vaccination who received 3 doses of 10Pn-PD-DiT (or 10Pn) vaccine co-administered with Infanrix<sup>TM</sup> IPV/Hib (DTPa-IPV/Hib) at 3, 4 and 5 months of age and a booster dose of the same vaccines at 12-15 months of age. Vaccines were administered intramuscularly in the right (10Pn-PD-DiT) or the left (DTPa-IPV/Hib) thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|                       |                  |
|-----------------------|------------------|
| Reporting group title | 10Pn 7-11M Group |
|-----------------------|------------------|

Reporting group description:

This group consisted of subjects 7 to 11 months of age at first vaccination who received 2 doses of 10Pn-PD-DiT (10Pn), one first dose at enrolment followed by a second dose one month later, and a booster dose at 12-15 months of age. The 10PN-PD-DiT vaccine was administered intramuscularly in the right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|                       |                   |
|-----------------------|-------------------|
| Reporting group title | 10Pn 12-23M Group |
|-----------------------|-------------------|

Reporting group description:

This group consisted of subjects 12 to 23 months inclusive at first vaccination who received 2 doses of 10Pn-PD-DiT (10Pn), one first dose at enrolment followed by a second dose 2 months later. The 10PN-PD-DiT vaccine was administered intramuscularly in the right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|                       |                  |
|-----------------------|------------------|
| Reporting group title | 10Pn >=24M Group |
|-----------------------|------------------|

Reporting group description:

This group consisted of subjects aged between 24 months (inclusive) to 5 years (inclusive) at vaccination who received one dose of 10Pn-PD-DiT (10Pn). The 10PN-PD-DiT vaccine was administered intramuscularly in the right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|                       |                |
|-----------------------|----------------|
| Reporting group title | 10Pn <6M Group |
|-----------------------|----------------|

Reporting group description:

This group consisted of subjects up to 6 months of age at first vaccination who received 3 doses of 10Pn-PD-DiT (or 10Pn) vaccine co-administered with Infanrix<sup>TM</sup> IPV/Hib (DTPa-IPV/Hib) at 3, 4 and 5 months of age and a booster dose of the same vaccines at 12-15 months of age. Vaccines were administered intramuscularly in the right (10Pn-PD-DiT) or the left (DTPa-IPV/Hib) thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|                       |                  |
|-----------------------|------------------|
| Reporting group title | 10Pn 7-11M Group |
|-----------------------|------------------|

Reporting group description:

This group consisted of subjects 7 to 11 months of age at first vaccination who received 2 doses of 10Pn-PD-DiT (10Pn), one first dose at enrolment followed by a second dose one month later, and a booster dose at 12-15 months of age. The 10PN-PD-DiT vaccine was administered intramuscularly in the right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

### **Primary: Number of subjects with anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antibody concentrations >= 0.20 microgram per milliliter (µg/mL).**

|                 |  |
|-----------------|--|
| End point title | Number of subjects with anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antibody concentrations >= 0.20 microgram per milliliter (µg/mL). <sup>[1]</sup> |
|-----------------|--|

End point description:

Anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antibody concentrations were assessed by 22F-inhibition Enzyme-Linked Immuno-Sorbent Assay (ELISA) method. The >=0.20 microgram per milliliter (microg/mL) cut-off corresponded to the seroprotection cut-off as regards anti-pneumococcal serotypes antibody concentrations. Seropositivity status, defined as anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antibody concentrations ≥ 0.05 microg/mL.

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

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**End point timeframe:**

At one month after primary (10Pn <6M & 10Pn 7-11M groups) or after the full (10Pn 12-23M & 10Pn >=24M groups) vaccination course with 10Pn, that is Month (M)3 for 10Pn <6M & 12-23M groups, M2 for 10Pn 7-11M Group, & M1 for 10Pn >=24M Group,

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**Notes:**

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

Justification: The analysis of the primary endpoint was descriptive i.e. no statistical hypothesis test was performed.

| <b>End point values</b>         | 10Pn <6M Group  | 10Pn 7-11M Group | 10Pn 12-23M Group | 10Pn >=24M Group |
|---------------------------------|-----------------|------------------|-------------------|------------------|
| Subject group type              | Reporting group | Reporting group  | Reporting group   | Reporting group  |
| Number of subjects analysed     | 131             | 135              | 133               | 140              |
| Units: Subjects                 |                 |                  |                   |                  |
| Anti-1 (N=131; 135; 133; 140)   | 128             | 135              | 132               | 135              |
| Anti-4 (N=131; 135; 133; 140)   | 128             | 135              | 133               | 140              |
| Anti-5(N=131; 135; 133; 138)    | 130             | 134              | 131               | 135              |
| Anti-6B (N=131; 135; 133; 140)  | 95              | 69               | 108               | 96               |
| Anti-7F (N=131; 135; 133; 140)  | 130             | 135              | 133               | 140              |
| Anti-9V (N=131; 135; 133; 140)  | 128             | 129              | 130               | 132              |
| Anti-14 (N=131; 135; 133; 139)  | 130             | 132              | 132               | 127              |
| Anti-18C (N=131; 135; 133; 140) | 127             | 135              | 133               | 140              |
| Anti-19F (N=130; 135; 133; 140) | 122             | 129              | 131               | 140              |
| Anti-23F (N=131; 135; 133; 139) | 114             | 95               | 122               | 93               |

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**Statistical analyses**

No statistical analyses for this end point

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## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Solicited & Unsolicited AEs: During the 4 & 31 days post PRI/BST vaccination; SAEs: during PRI and BST Phases. The occurrence of reported AEs (all/related) was not available and is encoded as equal to the number of subjects affected.

Adverse event reporting additional description:

Note that 1) SAEs for PRI Phase for 10Pn <6M & 10Pn 7-11M groups include SAEs reported up to BST dose not included; 2) BST Phase safety follow-up is not applicable to 10Pn 12-23M & 10Pn >=24M groups; to mark this, numbers of subjects for BST events for these groups are marked as equal to 1.

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

### Dictionary used

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

|                    |      |
|--------------------|------|
| Dictionary version | 11.0 |
|--------------------|------|

### Reporting groups

|                       |                |
|-----------------------|----------------|
| Reporting group title | 10Pn <6M Group |
|-----------------------|----------------|

Reporting group description:

This group consisted of subjects up to 6 months of age at first vaccination who received 3 doses of 10Pn-PD-DiT (or 10Pn) vaccine co-administered with Infanrix<sup>TM</sup> IPV/Hib (DTPa-IPV/Hib) at 3, 4 and 5 months of age and a booster dose of the same vaccines at 12-15 months of age. Vaccines were administered intramuscularly in the right (10Pn-PD-DiT) or the left (DTPa-IPV/Hib) thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|                       |                  |
|-----------------------|------------------|
| Reporting group title | 10Pn 7-11M Group |
|-----------------------|------------------|

Reporting group description:

This group consisted of subjects 7 to 11 months of age at first vaccination who received 2 doses of 10Pn-PD-DiT (10Pn), one first dose at enrolment followed by a second dose one month later, and a booster dose at 12-15 months of age. The 10PN-PD-DiT vaccine was administered intramuscularly in the right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|                       |                   |
|-----------------------|-------------------|
| Reporting group title | 10Pn 12-23M Group |
|-----------------------|-------------------|

Reporting group description:

This group consisted of subjects 12 to 23 months inclusive at first vaccination who received 2 doses of 10Pn-PD-DiT (10Pn), one first dose at enrolment followed by a second dose 2 months later. The 10PN-PD-DiT vaccine was administered intramuscularly in the right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

|                       |                  |
|-----------------------|------------------|
| Reporting group title | 10Pn >=24M Group |
|-----------------------|------------------|

Reporting group description:

This group consisted of subjects aged between 24 months (inclusive) to 5 years (inclusive) at vaccination who received one dose of 10Pn-PD-DiT (10Pn). The 10PN-PD-DiT vaccine was administered intramuscularly in the right thigh or deltoid region (deltoid region only for children >12 months of age if muscle size was adequate).

| <b>Serious adverse events</b>                     | 10Pn <6M Group    | 10Pn 7-11M Group | 10Pn 12-23M Group |
|---|-------------------|------------------|-------------------|
| Total subjects affected by serious adverse events |                   |                  |                   |
| subjects affected / exposed                       | 17 / 150 (11.33%) | 5 / 150 (3.33%)  | 2 / 150 (1.33%)   |
| number of deaths (all causes)                     | 0                 | 0                | 0                 |
| number of deaths resulting from adverse events    | 0                 | 0                | 0                 |
| Gastrointestinal disorders                        |                   |                  |                   |
| Abdominal pain upper - PRI                        |                   |                  |                   |
| alternative assessment type: Non-                 |                   |                  |                   |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| systematic                                      |                 |                 |                 |
| subjects affected / exposed                     | 1 / 150 (0.67%) | 0 / 150 (0.00%) | 0 / 150 (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           |
| Respiratory, thoracic and mediastinal disorders |                 |                 |                 |
| Bronchitis chronic - PRI                        |                 |                 |                 |
| alternative assessment type: Non-systematic     |                 |                 |                 |
| subjects affected / exposed                     | 2 / 150 (1.33%) | 1 / 150 (0.67%) | 0 / 150 (0.00%) |
| occurrences causally related to treatment / all | 0 / 2           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Psychiatric disorders                           |                 |                 |                 |
| Psychomotor retardation - PRI                   |                 |                 |                 |
| alternative assessment type: Non-systematic     |                 |                 |                 |
| subjects affected / exposed                     | 1 / 150 (0.67%) | 0 / 150 (0.00%) | 0 / 150 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Infections and infestations                     |                 |                 |                 |
| Pneumonia - PRI                                 |                 |                 |                 |
| alternative assessment type: Non-systematic     |                 |                 |                 |
| subjects affected / exposed                     | 2 / 150 (1.33%) | 2 / 150 (1.33%) | 2 / 150 (1.33%) |
| occurrences causally related to treatment / all | 0 / 2           | 0 / 2           | 0 / 2           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Pyelonephritis acute - PRI                      |                 |                 |                 |
| alternative assessment type: Non-systematic     |                 |                 |                 |
| subjects affected / exposed                     | 4 / 150 (2.67%) | 0 / 150 (0.00%) | 0 / 150 (0.00%) |
| occurrences causally related to treatment / all | 0 / 4           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Gastroenteritis - PRI                           |                 |                 |                 |
| alternative assessment type: Non-systematic     |                 |                 |                 |
| subjects affected / exposed                     | 1 / 150 (0.67%) | 2 / 150 (1.33%) | 0 / 150 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 2           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Gastroenteritis rotavirus - PRI                 |                 |                 |                 |
| alternative assessment type: Non-               |                 |                 |                 |

|   |                 |                 |                 |  |
|---|-----------------|-----------------|-----------------|--|
| systematic                                      |                 |                 |                 |  |
| subjects affected / exposed                     | 3 / 150 (2.00%) | 0 / 150 (0.00%) | 0 / 150 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 3           | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |  |
| Otitis media - PRI                              |                 |                 |                 |  |
| alternative assessment type: Non-systematic     |                 |                 |                 |  |
| subjects affected / exposed                     | 0 / 150 (0.00%) | 2 / 150 (1.33%) | 1 / 150 (0.67%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 2           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |  |
| Exanthema subitum - PRI                         |                 |                 |                 |  |
| alternative assessment type: Non-systematic     |                 |                 |                 |  |
| subjects affected / exposed                     | 1 / 150 (0.67%) | 0 / 150 (0.00%) | 0 / 150 (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           |  |
| Influenza - PRI                                 |                 |                 |                 |  |
| alternative assessment type: Non-systematic     |                 |                 |                 |  |
| subjects affected / exposed                     | 1 / 150 (0.67%) | 0 / 150 (0.00%) | 0 / 150 (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           |  |
| Respiratory syncytial virus bronchiolitis - PRI |                 |                 |                 |  |
| alternative assessment type: Non-systematic     |                 |                 |                 |  |
| subjects affected / exposed                     | 1 / 150 (0.67%) | 0 / 150 (0.00%) | 0 / 150 (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           |  |
| Respiratory syncytial virus infection - PRI     |                 |                 |                 |  |
| alternative assessment type: Non-systematic     |                 |                 |                 |  |
| subjects affected / exposed                     | 1 / 150 (0.67%) | 0 / 150 (0.00%) | 0 / 150 (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           |  |
| Bacterial infection - BST                       |                 |                 |                 |  |
| alternative assessment type: Non-systematic     |                 |                 |                 |  |

|   |                 |                 |               |
|---|-----------------|-----------------|---------------|
| subjects affected / exposed <sup>[1]</sup>      | 1 / 145 (0.69%) | 0 / 145 (0.00%) | 0 / 1 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0         |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0         |
| Gastroenteritis - BST                           |                 |                 |               |
| alternative assessment type: Non-systematic     |                 |                 |               |
| subjects affected / exposed <sup>[2]</sup>      | 0 / 145 (0.00%) | 1 / 145 (0.69%) | 0 / 1 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0         |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0         |

| <b>Serious adverse events</b>                     | 10Pn >=24M Group |  |  |
|---|------------------|--|--|
| Total subjects affected by serious adverse events |                  |  |  |
| subjects affected / exposed                       | 0 / 150 (0.00%)  |  |  |
| number of deaths (all causes)                     | 0                |  |  |
| number of deaths resulting from adverse events    | 0                |  |  |
| Gastrointestinal disorders                        |                  |  |  |
| Abdominal pain upper - PRI                        |                  |  |  |
| alternative assessment type: Non-systematic       |                  |  |  |
| subjects affected / exposed                       | 0 / 150 (0.00%)  |  |  |
| occurrences causally related to treatment / all   | 0 / 0            |  |  |
| deaths causally related to treatment / all        | 0 / 0            |  |  |
| Respiratory, thoracic and mediastinal disorders   |                  |  |  |
| Bronchitis chronic - PRI                          |                  |  |  |
| alternative assessment type: Non-systematic       |                  |  |  |
| subjects affected / exposed                       | 0 / 150 (0.00%)  |  |  |
| occurrences causally related to treatment / all   | 0 / 0            |  |  |
| deaths causally related to treatment / all        | 0 / 0            |  |  |
| Psychiatric disorders                             |                  |  |  |
| Psychomotor retardation - PRI                     |                  |  |  |
| alternative assessment type: Non-systematic       |                  |  |  |
| subjects affected / exposed                       | 0 / 150 (0.00%)  |  |  |
| occurrences causally related to treatment / all   | 0 / 0            |  |  |
| deaths causally related to treatment / all        | 0 / 0            |  |  |
| Infections and infestations                       |                  |  |  |
| Pneumonia - PRI                                   |                  |  |  |
| alternative assessment type: Non-systematic       |                  |  |  |

|   |                 |  |  |
|---|-----------------|--|--|
| subjects affected / exposed                     | 0 / 150 (0.00%) |  |  |
| occurrences causally related to treatment / all | 0 / 0           |  |  |
| deaths causally related to treatment / all      | 0 / 0           |  |  |
| Pyelonephritis acute - PRI                      |                 |  |  |
| alternative assessment type: Non-systematic     |                 |  |  |
| subjects affected / exposed                     | 0 / 150 (0.00%) |  |  |
| occurrences causally related to treatment / all | 0 / 0           |  |  |
| deaths causally related to treatment / all      | 0 / 0           |  |  |
| Gastroenteritis - PRI                           |                 |  |  |
| alternative assessment type: Non-systematic     |                 |  |  |
| subjects affected / exposed                     | 0 / 150 (0.00%) |  |  |
| occurrences causally related to treatment / all | 0 / 0           |  |  |
| deaths causally related to treatment / all      | 0 / 0           |  |  |
| Gastroenteritis rotavirus - PRI                 |                 |  |  |
| alternative assessment type: Non-systematic     |                 |  |  |
| subjects affected / exposed                     | 0 / 150 (0.00%) |  |  |
| occurrences causally related to treatment / all | 0 / 0           |  |  |
| deaths causally related to treatment / all      | 0 / 0           |  |  |
| Otitis media - PRI                              |                 |  |  |
| alternative assessment type: Non-systematic     |                 |  |  |
| subjects affected / exposed                     | 0 / 150 (0.00%) |  |  |
| occurrences causally related to treatment / all | 0 / 0           |  |  |
| deaths causally related to treatment / all      | 0 / 0           |  |  |
| Exanthema subitum - PRI                         |                 |  |  |
| alternative assessment type: Non-systematic     |                 |  |  |
| subjects affected / exposed                     | 0 / 150 (0.00%) |  |  |
| occurrences causally related to treatment / all | 0 / 0           |  |  |
| deaths causally related to treatment / all      | 0 / 0           |  |  |
| Influenza - PRI                                 |                 |  |  |
| alternative assessment type: Non-systematic     |                 |  |  |
| subjects affected / exposed                     | 0 / 150 (0.00%) |  |  |
| occurrences causally related to treatment / all | 0 / 0           |  |  |
| deaths causally related to treatment / all      | 0 / 0           |  |  |

|   |                 |  |  |
|---|-----------------|--|--|
| Respiratory syncytial virus bronchiolitis - PRI |                 |  |  |
| alternative assessment type: Non-systematic     |                 |  |  |
| subjects affected / exposed                     | 0 / 150 (0.00%) |  |  |
| occurrences causally related to treatment / all | 0 / 0           |  |  |
| deaths causally related to treatment / all      | 0 / 0           |  |  |
| Respiratory syncytial virus infection - PRI     |                 |  |  |
| alternative assessment type: Non-systematic     |                 |  |  |
| subjects affected / exposed                     | 0 / 150 (0.00%) |  |  |
| occurrences causally related to treatment / all | 0 / 0           |  |  |
| deaths causally related to treatment / all      | 0 / 0           |  |  |
| Bacterial infection - BST                       |                 |  |  |
| alternative assessment type: Non-systematic     |                 |  |  |
| subjects affected / exposed <sup>[1]</sup>      | 0 / 1 (0.00%)   |  |  |
| occurrences causally related to treatment / all | 0 / 0           |  |  |
| deaths causally related to treatment / all      | 0 / 0           |  |  |
| Gastroenteritis - BST                           |                 |  |  |
| alternative assessment type: Non-systematic     |                 |  |  |
| subjects affected / exposed <sup>[2]</sup>      | 0 / 1 (0.00%)   |  |  |
| occurrences causally related to treatment / all | 0 / 0           |  |  |
| deaths causally related to treatment / all      | 0 / 0           |  |  |

Notes:

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

Justification: Assessment for this event for this phase was performed solely on subjects with available results.

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

Justification: Assessment for this event for this phase was performed solely on subjects with available results.

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

| <b>Non-serious adverse events</b>                     | 10Pn <6M Group     | 10Pn 7-11M Group   | 10Pn 12-23M Group  |
|---|--------------------|--------------------|--------------------|
| Total subjects affected by non-serious adverse events |                    |                    |                    |
| subjects affected / exposed                           | 143 / 150 (95.33%) | 116 / 150 (77.33%) | 113 / 150 (75.33%) |
| General disorders and administration site conditions  |                    |                    |                    |
| Pain - PRI  |                    |                    |                    |

|   |                    |                    |                    |
|---|--------------------|--------------------|--------------------|
| subjects affected / exposed <sup>[3]</sup>  | 89 / 149 (59.73%)  | 63 / 148 (42.57%)  | 113 / 149 (75.84%) |
| occurrences (all)                           | 89                 | 63                 | 113                |
| Redness - PRI                               |                    |                    |                    |
| subjects affected / exposed <sup>[4]</sup>  | 90 / 149 (60.40%)  | 95 / 148 (64.19%)  | 79 / 149 (53.02%)  |
| occurrences (all)                           | 90                 | 95                 | 79                 |
| Swelling - PRI                              |                    |                    |                    |
| subjects affected / exposed <sup>[5]</sup>  | 68 / 149 (45.64%)  | 66 / 148 (44.59%)  | 59 / 149 (39.60%)  |
| occurrences (all)                           | 68                 | 66                 | 59                 |
| Drowsiness – PRI Phase                      |                    |                    |                    |
| subjects affected / exposed <sup>[6]</sup>  | 122 / 149 (81.88%) | 92 / 148 (62.16%)  | 90 / 149 (60.40%)  |
| occurrences (all)                           | 122                | 92                 | 90                 |
| Rectal fever >= 38.5°C – PRI Phase          |                    |                    |                    |
| subjects affected / exposed <sup>[7]</sup>  | 95 / 149 (63.76%)  | 55 / 148 (37.16%)  | 47 / 149 (31.54%)  |
| occurrences (all)                           | 95                 | 55                 | 47                 |
| Irritability – PRI Phase                    |                    |                    |                    |
| subjects affected / exposed <sup>[8]</sup>  | 143 / 149 (95.97%) | 112 / 148 (75.68%) | 107 / 149 (71.81%) |
| occurrences (all)                           | 143                | 112                | 107                |
| Loss of appetite – PRI Phase                |                    |                    |                    |
| subjects affected / exposed <sup>[9]</sup>  | 70 / 149 (46.98%)  | 62 / 148 (41.89%)  | 62 / 149 (41.61%)  |
| occurrences (all)                           | 70                 | 62                 | 62                 |
| Pain – BST                                  |                    |                    |                    |
| subjects affected / exposed <sup>[10]</sup> | 91 / 144 (63.19%)  | 64 / 144 (44.44%)  | 0 / 1 (0.00%)      |
| occurrences (all)                           | 91                 | 64                 | 0                  |
| Redness – BST                               |                    |                    |                    |
| subjects affected / exposed <sup>[11]</sup> | 80 / 144 (55.56%)  | 73 / 144 (50.69%)  | 0 / 1 (0.00%)      |
| occurrences (all)                           | 80                 | 73                 | 0                  |
| Swelling – BST                              |                    |                    |                    |
| subjects affected / exposed <sup>[12]</sup> | 55 / 144 (38.19%)  | 45 / 144 (31.25%)  | 0 / 1 (0.00%)      |
| occurrences (all)                           | 55                 | 45                 | 0                  |
| Drowsiness – BST                            |                    |                    |                    |
| subjects affected / exposed <sup>[13]</sup> | 73 / 144 (50.69%)  | 57 / 144 (39.58%)  | 0 / 1 (0.00%)      |
| occurrences (all)                           | 73                 | 57                 | 0                  |
| Rectal fever >= 38.5°C – BST                |                    |                    |                    |
| subjects affected / exposed <sup>[14]</sup> | 63 / 144 (43.75%)  | 33 / 144 (22.92%)  | 0 / 1 (0.00%)      |
| occurrences (all)                           | 63                 | 33                 | 0                  |
| Irritability – BST                          |                    |                    |                    |

|  |                           |                         |                         |
|--|---------------------------|-------------------------|-------------------------|
| subjects affected / exposed <sup>[15]</sup><br>occurrences (all)   | 109 / 144 (75.69%)<br>109 | 71 / 144 (49.31%)<br>71 | 0 / 1 (0.00%)<br>0      |
| Loss of appetite – BST<br>subjects affected / exposed <sup>[16]</sup><br>occurrences (all)   | 57 / 144 (39.58%)<br>57   | 35 / 144 (24.31%)<br>35 | 0 / 1 (0.00%)<br>0      |
| Injection site induration - PRI<br>alternative assessment type: Non-systematic<br>subjects affected / exposed<br>occurrences (all)               | 10 / 150 (6.67%)<br>10    | 10 / 150 (6.67%)<br>10  | 12 / 150 (8.00%)<br>12  |
| Pyrexia - PRI<br>alternative assessment type: Non-systematic<br>subjects affected / exposed<br>occurrences (all)                                 | 11 / 150 (7.33%)<br>11    | 21 / 150 (14.00%)<br>21 | 19 / 150 (12.67%)<br>19 |
| Pyrexia - BST<br>alternative assessment type: Non-systematic<br>subjects affected / exposed <sup>[17]</sup><br>occurrences (all)                 | 8 / 145 (5.52%)<br>8      | 12 / 145 (8.28%)<br>12  | 0 / 1 (0.00%)<br>0      |
| Eye disorders<br>Conjunctivitis - PRI<br>alternative assessment type: Non-systematic<br>subjects affected / exposed<br>occurrences (all)         | 6 / 150 (4.00%)<br>6      | 12 / 150 (8.00%)<br>12  | 4 / 150 (2.67%)<br>4    |
| Gastrointestinal disorders<br>Diarrhoea - PRI<br>alternative assessment type: Non-systematic<br>subjects affected / exposed<br>occurrences (all) | 6 / 150 (4.00%)<br>6      | 14 / 150 (9.33%)<br>14  | 14 / 150 (9.33%)<br>14  |
| Teething - PRI<br>alternative assessment type: Non-systematic<br>subjects affected / exposed<br>occurrences (all)                                | 9 / 150 (6.00%)<br>9      | 17 / 150 (11.33%)<br>17 | 4 / 150 (2.67%)<br>4    |
| Respiratory, thoracic and mediastinal disorders<br>Cough - PRI<br>alternative assessment type: Non-systematic                                    |                           |                         |                         |

|  |                         |                         |                         |
|--|-------------------------|-------------------------|-------------------------|
| subjects affected / exposed<br>occurrences (all)                 | 5 / 150 (3.33%)<br>5    | 15 / 150 (10.00%)<br>15 | 20 / 150 (13.33%)<br>20 |
| <b>Infections and infestations</b>                               |                         |                         |                         |
| Nasopharyngitis - PRI  |                         |                         |                         |
| alternative assessment type: Non-systematic                      |                         |                         |                         |
| subjects affected / exposed<br>occurrences (all)                 | 0 / 150 (0.00%)<br>0    | 0 / 150 (0.00%)<br>0    | 11 / 150 (7.33%)<br>11  |
| Otitis media - PRI   |                         |                         |                         |
| alternative assessment type: Non-systematic                      |                         |                         |                         |
| subjects affected / exposed<br>occurrences (all)                 | 6 / 150 (4.00%)<br>6    | 24 / 150 (16.00%)<br>24 | 21 / 150 (14.00%)<br>21 |
| Rhinitis - PRI   |                         |                         |                         |
| alternative assessment type: Non-systematic                      |                         |                         |                         |
| subjects affected / exposed<br>occurrences (all)                 | 19 / 150 (12.67%)<br>19 | 31 / 150 (20.67%)<br>31 | 18 / 150 (12.00%)<br>18 |
| Upper respiratory tract infection - PRI                          |                         |                         |                         |
| alternative assessment type: Non-systematic                      |                         |                         |                         |
| subjects affected / exposed<br>occurrences (all)                 | 40 / 150 (26.67%)<br>40 | 35 / 150 (23.33%)<br>35 | 21 / 150 (14.00%)<br>21 |
| Otitis media - BST   |                         |                         |                         |
| alternative assessment type: Non-systematic                      |                         |                         |                         |
| subjects affected / exposed <sup>[18]</sup><br>occurrences (all) | 13 / 145 (8.97%)<br>13  | 8 / 145 (5.52%)<br>8    | 0 / 1 (0.00%)<br>0      |
| Ear infection - BST  |                         |                         |                         |
| alternative assessment type: Non-systematic                      |                         |                         |                         |
| subjects affected / exposed <sup>[19]</sup><br>occurrences (all) | 0 / 145 (0.00%)<br>0    | 9 / 145 (6.21%)<br>9    | 0 / 1 (0.00%)<br>0      |
| Rhinitis - BST   |                         |                         |                         |
| alternative assessment type: Non-systematic                      |                         |                         |                         |
| subjects affected / exposed <sup>[20]</sup><br>occurrences (all) | 24 / 145 (16.55%)<br>24 | 8 / 145 (5.52%)<br>8    | 0 / 1 (0.00%)<br>0      |
| Upper respiratory tract infection - BST                          |                         |                         |                         |
| alternative assessment type: Non-systematic                      |                         |                         |                         |

|   |                   |                  |               |
|---|-------------------|------------------|---------------|
| subjects affected / exposed <sup>[21]</sup> | 25 / 145 (17.24%) | 12 / 145 (8.28%) | 0 / 1 (0.00%) |
| occurrences (all)                           | 25                | 12               | 0             |

|   |                    |  |  |
|---|--------------------|--|--|
| <b>Non-serious adverse events</b>                     | 10Pn >=24M Group   |  |  |
| Total subjects affected by non-serious adverse events |                    |  |  |
| subjects affected / exposed                           | 102 / 150 (68.00%) |  |  |
| General disorders and administration site conditions  |                    |  |  |
| Pain - PRI  |                    |  |  |
| subjects affected / exposed <sup>[3]</sup>            | 102 / 148 (68.92%) |  |  |
| occurrences (all)                                     | 102                |  |  |
| Redness - PRI   |                    |  |  |
| subjects affected / exposed <sup>[4]</sup>            | 65 / 148 (43.92%)  |  |  |
| occurrences (all)                                     | 65                 |  |  |
| Swelling - PRI  |                    |  |  |
| subjects affected / exposed <sup>[5]</sup>            | 32 / 148 (21.62%)  |  |  |
| occurrences (all)                                     | 32                 |  |  |
| Drowsiness – PRI Phase                                |                    |  |  |
| subjects affected / exposed <sup>[6]</sup>            | 55 / 148 (37.16%)  |  |  |
| occurrences (all)                                     | 55                 |  |  |
| Rectal fever >= 38.5°C – PRI Phase                    |                    |  |  |
| subjects affected / exposed <sup>[7]</sup>            | 10 / 148 (6.76%)   |  |  |
| occurrences (all)                                     | 10                 |  |  |
| Irritability – PRI Phase                              |                    |  |  |
| subjects affected / exposed <sup>[8]</sup>            | 62 / 148 (41.89%)  |  |  |
| occurrences (all)                                     | 62                 |  |  |
| Loss of appetite – PRI Phase                          |                    |  |  |
| subjects affected / exposed <sup>[9]</sup>            | 41 / 148 (27.70%)  |  |  |
| occurrences (all)                                     | 41                 |  |  |
| Pain – BST  |                    |  |  |
| subjects affected / exposed <sup>[10]</sup>           | 0 / 1 (0.00%)      |  |  |
| occurrences (all)                                     | 0                  |  |  |
| Redness – BST   |                    |  |  |
| subjects affected / exposed <sup>[11]</sup>           | 0 / 1 (0.00%)      |  |  |
| occurrences (all)                                     | 0                  |  |  |
| Swelling – BST  |                    |  |  |

|  |                      |  |  |
|--|----------------------|--|--|
| subjects affected / exposed <sup>[12]</sup><br>occurrences (all)   | 0 / 1 (0.00%)<br>0   |  |  |
| Drowsiness - BST<br>subjects affected / exposed <sup>[13]</sup><br>occurrences (all)   | 0 / 1 (0.00%)<br>0   |  |  |
| Rectal fever >= 38.5°C - BST<br>subjects affected / exposed <sup>[14]</sup><br>occurrences (all)   | 0 / 1 (0.00%)<br>0   |  |  |
| Irritability - BST<br>subjects affected / exposed <sup>[15]</sup><br>occurrences (all)   | 0 / 1 (0.00%)<br>0   |  |  |
| Loss of appetite - BST<br>subjects affected / exposed <sup>[16]</sup><br>occurrences (all)   | 0 / 1 (0.00%)<br>0   |  |  |
| Injection site induration - PRI<br>alternative assessment type: Non-systematic<br>subjects affected / exposed<br>occurrences (all)       | 1 / 150 (0.67%)<br>1 |  |  |
| Pyrexia - PRI<br>alternative assessment type: Non-systematic<br>subjects affected / exposed<br>occurrences (all)                         | 8 / 150 (5.33%)<br>8 |  |  |
| Pyrexia - BST<br>alternative assessment type: Non-systematic<br>subjects affected / exposed <sup>[17]</sup><br>occurrences (all)         | 0 / 1 (0.00%)<br>0   |  |  |
| Eye disorders<br>Conjunctivitis - PRI<br>alternative assessment type: Non-systematic<br>subjects affected / exposed<br>occurrences (all) | 2 / 150 (1.33%)<br>2 |  |  |
| Gastrointestinal disorders<br>Diarrhoea - PRI<br>alternative assessment type: Non-systematic   |                      |  |  |

|  |  |  |  |
|--|--|--|--|
| <p>subjects affected / exposed<br/>occurrences (all)</p> <p>Teething - PRI<br/>alternative assessment type: Non-systematic<br/>subjects affected / exposed<br/>occurrences (all)</p>   | <p>5 / 150 (3.33%)<br/>5</p> <p>0 / 150 (0.00%)<br/>0</p>  |  |  |
| <p>Respiratory, thoracic and mediastinal disorders</p> <p>Cough - PRI<br/>alternative assessment type: Non-systematic<br/>subjects affected / exposed<br/>occurrences (all)</p>  | <p>5 / 150 (3.33%)<br/>5</p>   |  |  |
| <p>Infections and infestations</p> <p>Nasopharyngitis - PRI<br/>alternative assessment type: Non-systematic<br/>subjects affected / exposed<br/>occurrences (all)</p> <p>Otitis media - PRI<br/>alternative assessment type: Non-systematic<br/>subjects affected / exposed<br/>occurrences (all)</p> <p>Rhinitis - PRI<br/>alternative assessment type: Non-systematic<br/>subjects affected / exposed<br/>occurrences (all)</p> <p>Upper respiratory tract infection - PRI<br/>alternative assessment type: Non-systematic<br/>subjects affected / exposed<br/>occurrences (all)</p> <p>Otitis media - BST<br/>alternative assessment type: Non-systematic<br/>subjects affected / exposed<sup>[18]</sup><br/>occurrences (all)</p> <p>Ear infection - BST<br/>alternative assessment type: Non-systematic</p> | <p>0 / 150 (0.00%)<br/>0</p> <p>10 / 150 (6.67%)<br/>10</p> <p>4 / 150 (2.67%)<br/>4</p> <p>7 / 150 (4.67%)<br/>7</p> <p>0 / 1 (0.00%)<br/>0</p> |  |  |

|   |               |  |  |
|---|---------------|--|--|
| subjects affected / exposed <sup>[19]</sup> | 0 / 1 (0.00%) |  |  |
| occurrences (all)                           | 0             |  |  |
| Rhinitis - BST                              |               |  |  |
| alternative assessment type: Non-systematic |               |  |  |
| subjects affected / exposed <sup>[20]</sup> | 0 / 1 (0.00%) |  |  |
| occurrences (all)                           | 0             |  |  |
| Upper respiratory tract infection - BST     |               |  |  |
| alternative assessment type: Non-systematic |               |  |  |
| subjects affected / exposed <sup>[21]</sup> | 0 / 1 (0.00%) |  |  |
| occurrences (all)                           | 0             |  |  |

Notes:

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

Justification: Assessment for this event for this phase was performed solely on subjects with available results.

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

Justification: Assessment for this event for this phase was performed solely on subjects with available results.

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

Justification: Assessment for this event for this phase was performed solely on subjects with available results.

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

Justification: Assessment for this event for this phase was performed solely on subjects with available results.

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

Justification: Assessment for this event for this phase was performed solely on subjects with available results.

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

Justification: Assessment for this event for this phase was performed solely on subjects with available results.

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

Justification: Assessment for this event for this phase was performed solely on subjects with available results.

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

Justification: Assessment for this event for this phase was performed solely on subjects with available results.

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

Justification: Assessment for this event for this phase was performed solely on subjects with available results.

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

Justification: Assessment for this event for this phase was performed solely on subjects with available results.

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

Justification: Assessment for this event for this phase was performed solely on subjects with available results.

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

Justification: Assessment for this event for this phase was performed solely on subjects with available results.

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

Justification: Assessment for this event for this phase was performed solely on subjects with available results.

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

Justification: Assessment for this event for this phase was performed solely on subjects with available results.

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

Justification: Assessment for this event for this phase was performed solely on subjects with available results.

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

Justification: Assessment for this event for this phase was performed solely on subjects with available results.

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

Justification: Assessment for this event for this phase was performed solely on subjects with available results.

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

Justification: Assessment for this event for this phase was performed solely on subjects with available results.

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

Justification: Assessment for this event for this phase was performed solely on subjects with available results.

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date         | Amendment  |
|--------------|--|
| 28 June 2006 | The protocol was amended to clarify in the study title that the assessment of immunogenicity, safety and reactogenicity would be done in children older than 7 months of age and in children before 6 months of age. Furthermore, because the post-licensure surveillance of Prevenar in the United States had shown a decrease and an increase in invasive pneumococcal disease caused by the cross-reactive pneumococcal serotypes 6A and 19A, respectively, it was of interest to document the immune responses (Enzyme-Linked Immuno-Sorbent Assay [ELISA] and opsonophagocytic activity [OPA]) to these cross-reactive pneumococcal serotypes. Also a higher flexibility of the distribution of replacement vial/syringe for the 10Pn-PD-DiT vaccine at the study centres was allowed as in each group all the children would receive the same vaccine. |

Notes:

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### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported