



## Clinical trial results:

**A phase IIIb open study to assess the safety and immunogenicity of GlaxoSmithKline (GSK) Biologicals' 10-valent pneumococcal conjugate vaccine when co-administered with DTPa-HBV-IPV/Hib (Infanrix hexa) vaccine in preterm infants as a 3-dose primary immunisation course during the first 6 months of life**

### Summary

EudraCT number	2006-002898-47
Trial protocol	GR ES
Global end of trial date	02 May 2008

### Results information

Result version number	v1
This version publication date	15 March 2016
First version publication date	07 June 2015

### Trial information

#### Trial identification

Sponsor protocol code	107737
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#### Additional study identifiers

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	NCT00390910
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	11 July 2008
Is this the analysis of the primary completion data?	No

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Global end of trial reached?	Yes
Global end of trial date	02 May 2008
Was the trial ended prematurely?	No

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Notes:

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**General information about the trial**

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Main objective of the trial:

To evaluate the safety and reactogenicity of GSK Biologicals' 10-valent pneumococcal conjugate vaccine when administered as a 3-dose primary vaccination course and co-administered with DTPa-HBV-IPV/Hib vaccine in preterm infants.

Protection of trial subjects:

All subjects were supervised closely for at least 30 minutes following vaccination with appropriate medical treatment readily available. Vaccines were administered by qualified and trained personnel. Vaccines were administered only to eligible subjects that had no contraindications to any components of the vaccines. Subjects were followed-up from the time the subject consents to participate in the study until she/he is discharged.

Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	27 October 2006
Long term follow-up planned	Yes
Long term follow-up rationale	Safety
Long term follow-up duration	6 Months
Independent data monitoring committee (IDMC) involvement?	No

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Notes:

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**Population of trial subjects**

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**Subjects enrolled per country**

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Country: Number of subjects enrolled	Spain: 175
Country: Number of subjects enrolled	Greece: 111
Worldwide total number of subjects	286
EEA total number of subjects	286

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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)	286
Children (2-11 years)	0

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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:

For each subject the study duration was approximately 5 months for the active phase (Month 0 till one month after last vaccination) and 10 months when including the 5 months extended safety follow-up.

### Pre-assignment

Screening details:

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

### Period 1

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

### Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	PT1 Group

Arm description:

Very pre-tem infants born after a gestation period of 27-30 weeks (189-216 days)

Arm type	Experimental
Investigational medicinal product name	10-valent streptococcus pneumoniae conjugate vaccine
Investigational medicinal product code	
Other name	10Pn-PD-DiT; 10 Pn
Pharmaceutical forms	Injection
Routes of administration	Intramuscular use

Dosage and administration details:

Intramuscular administration in the right thigh, 3 doses according to a 2-4-6 month of age schedule (Months 0, 2 and 4).

Investigational medicinal product name	Infanrix hexa™
Investigational medicinal product code	
Other name	DTPa-HBV-IPV/Hib
Pharmaceutical forms	Injection
Routes of administration	Intramuscular use

Dosage and administration details:

Intramuscular administration in the left thigh, 3 doses according to a 2-4-6 month of age schedule (Months 0, 2 and 4)..

<b>Arm title</b>	PT2 Group
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Arm description:

Mild pre-tem infants born after a gestation period of 31-36 weeks (217-258 days)

Arm type	Experimental
Investigational medicinal product name	10-valent streptococcus pneumoniae conjugate vaccine
Investigational medicinal product code	
Other name	10Pn-PD-DiT; 10 Pn
Pharmaceutical forms	Injection
Routes of administration	Intramuscular use

Dosage and administration details:

Intramuscular administration in the right thigh, 3 doses according to a 2-4-6 month of age schedule (Months 0, 2 and 4).

Investigational medicinal product name	Infanrix hexa™
Investigational medicinal product code	
Other name	DTPa-HBV-IPV/Hib
Pharmaceutical forms	Injection
Routes of administration	Intramuscular use

Dosage and administration details:

Intramuscular administration in the left thigh, 3 doses according to a 2-4-6 month of age schedule (Months 0, 2 and 4).

<b>Arm title</b>	FT Group
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Arm description:

Infants born after a gestation period of more than 36 weeks (more than 258 days)

Arm type	Experimental
Investigational medicinal product name	10-valent streptococcus pneumoniae conjugate vaccine
Investigational medicinal product code	
Other name	10Pn-PD-DiT; 10 Pn
Pharmaceutical forms	Injection
Routes of administration	Intramuscular use

Dosage and administration details:

Intramuscular administration in the right thigh, 3 doses according to a 2-4-6 month of age schedule (Months 0, 2 and 4).

Investigational medicinal product name	Infanrix hexa™
Investigational medicinal product code	
Other name	DTPa-HBV-IPV/Hib
Pharmaceutical forms	Injection
Routes of administration	Intramuscular use

Dosage and administration details:

Intramuscular administration in the left thigh, 3 doses according to a 2-4-6 month of age schedule (Months 0, 2 and 4).

<b>Number of subjects in period 1</b>	PT1 Group	PT2 Group	FT Group
Started	50	87	149
Completed	48	83	139
Not completed	2	4	10
Adverse event, serious fatal	1	-	-
Consent withdrawn by subject	1	3	5
Migrated/moved from study area	-	-	3
Lost to follow-up	-	1	2

## Baseline characteristics

### Reporting groups

Reporting group title	PT1 Group
Reporting group description:	
Very pre-tem infants born after a gestation period of 27-30 weeks (189-216 days)	
Reporting group title	PT2 Group
Reporting group description:	
Mild pre-tem infants born after a gestation period of 31-36 weeks (217-258 days)	
Reporting group title	FT Group
Reporting group description:	
Infants born after a gestation period of more than 36 weeks (more than 258 days)	

Reporting group values	PT1 Group	PT2 Group	FT Group
Number of subjects	50	87	149
Age categorical			
Units: Subjects			
In utero Preterm newborn infants (gestational age < 37 wks) Newborns (0-27 days) Infants and toddlers (28 days-23 months) Children (2-11 years) Adolescents (12-17 years) Adults (18-64 years) From 65-84 years 85 years and over			
Age continuous			
Units: weeks			
arithmetic mean	11	9.5	9.3
standard deviation	± 3.2	± 1.45	± 1.45
Gender categorical			
Units: Subjects			
Female	19	40	62
Male	31	47	87

Reporting group values	Total		
Number of subjects	286		
Age categorical			
Units: Subjects			
In utero Preterm newborn infants (gestational age < 37 wks) Newborns (0-27 days) Infants and toddlers (28 days-23 months) Children (2-11 years) Adolescents (12-17 years) Adults (18-64 years)	0 0 0 0 0 0 0		

From 65-84 years	0		
85 years and over	0		

Age continuous			
Units: weeks			
arithmetic mean			
standard deviation	-		
Gender categorical			
Units: Subjects			
Female	121		
Male	165		

## End points

### End points reporting groups

Reporting group title	PT1 Group
Reporting group description: Very pre-tem infants born after a gestation period of 27-30 weeks (189-216 days)	
Reporting group title	PT2 Group
Reporting group description: Mild pre-tem infants born after a gestation period of 31-36 weeks (217-258 days)	
Reporting group title	FT Group
Reporting group description: Infants born after a gestation period of more than 36 weeks (more than 258 days)	
Subject analysis set title	PT Group
Subject analysis set type	Sub-group analysis
Subject analysis set description: Pooled PT1 and PT2 groups	

### Primary: Number of subjects with core fever >39°C (rectal temperature) or >38.5°C (oral, axillary or tympanic temperature)

End point title	Number of subjects with core fever >39°C (rectal temperature) or >38.5°C (oral, axillary or tympanic temperature) <sup>[1][2]</sup>
End point description: Fever was measured as rectal temperature. Assessment of occurrences of fever > 39.0 °C was performed post doses 1, 2 and 3 of 10Pn-PD-DiT or DTPa-HBV-IPV/Hib vaccine.	
End point type	Primary
End point timeframe: Within 4 days (Days 0-3) after each dose	

#### 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

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

Justification: The analysis was not based on individual groups but rather on the pooled preterm groups and the full-term group.

End point values	FT Group	PT Group		
Subject group type	Reporting group	Subject analysis set		
Number of subjects analysed	146	135		
Units: Subjects				
Fever > 39.0°C, post Dose 1 [N=146;135]	5	2		
Fever > 39.0°C, post Dose 2 [N=141;133]	1	1		
Fever > 39.0°C, post Dose 3 [N=138;131]	3	1		

## Statistical analyses



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

End point title	Number of subjects with any and Grade 3 solicited local symptoms <sup>[3]</sup>
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End point description:

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

End point type	Secondary
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End point timeframe:

Within 4 day (Days 0-3) post-vaccination period after each dose

Notes:

[3] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period. Justification: The analysis was not based on individual groups but rather on the pooled preterm groups and the full-term group.

End point values	FT Group	PT Group		
Subject group type	Reporting group	Subject analysis set		
Number of subjects analysed	146	135		
Units: Subjects				
Any pain, Post Dose 1 [N=146,135]	58	40		
Grade 3 pain, Post Dose 1 [N=146,135]	6	6		
Any redness, Post Dose 1 [N=146,135]	67	39		
Grade 3 redness, Post Dose 1 [N=146,135]	0	1		
Any swelling, Post Dose 1 [N=146,135]	67	30		
Grade 3 swelling, Post Dose 1 [N=146,135]	2	1		
Any pain, Post Dose 2 [N=141;133]	39	39		
Grade 3 pain, Post Dose 2 [N=141;133]	1	9		
Any redness, Post Dose 2 [N=141;133]	72	41		
Grade 3 redness, Post Dose 2 [N=141;133]	7	0		
Any swelling, Post Dose 2 [N=141;133]	60	30		
Grade 3 swelling, Post Dose 2 [N=141;133]	4	0		
Any pain, Post Dose 3 [N=138;131]	42	30		
Grade 3 pain, Post Dose 3 [N=138;131]	6	3		
Any redness, Post Dose 3 [N=138;131]	66	33		
Grade 3 redness, Post Dose 3 [N=138;131]	9	3		
Any swelling, Post Dose 3 [N=138;131]	58	24		
Grade 3 swelling, Post Dose 3 [N=138;131]	6	2		

**Statistical analyses**

No statistical analyses for this end point

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

End point title	Number of subjects with any and Grade 3 solicited general symptoms <sup>[4]</sup>
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End point description:

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

End point type	Secondary
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End point timeframe:

Within 4 day (Days 0-3) post-vaccination period after each dose

Notes:

[4] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period. Justification: The analysis was not based on individual groups but rather on the pooled preterm groups and the full-term group.

End point values	FT Group	PT Group		
Subject group type	Reporting group	Subject analysis set		
Number of subjects analysed	146	135		
Units: Subjects				
Any drowsiness, Post Dose 1 [N=146,135]	53	44		
Grade 3 drowsiness, Post Dose 1 [N=146,135]	2	1		
Any fever(rectally), Post Dose 1 [N=146,135]	38	41		
Grade 3 fever(rectally), Post Dose 1 [N=146,135]	1	0		
Any irritability, Post Dose 1 [N=146,135]	73	53		
Grade 3 irritability, Post Dose 1 [N=146,135]	9	6		
Any loss of appetite, Post Dose 1 [N=146,135]	36	33		
Grade 3 loss of appetite, Post Dose 1 [N=146,135]	0	0		
Any drowsiness, Post Dose 2 [N=141;133]	34	32		
Grade 3 drowsiness, Post Dose 2 [N=141;133]	0	1		
Any fever(rectally), Post Dose 2 [N=141;133]	34	40		
Grade 3 fever(rectally), Post Dose 2 [N=141;133]	0	0		
Any irritability, Post Dose 2 [N=141;133]	53	51		
Grade 3 irritability, Post Dose 2 [N=141;133]	2	4		
Any loss of appetite, Post Dose 2 [N=141;133]	23	35		
Grade 3 loss of appetite, Post Dose 2 [N=141;133]	0	2		
Any drowsiness, Post Dose 3 [N=138;131]	22	18		
Grade 3 drowsiness, Post Dose 3 [N=138;131]	1	4		

Any fever(rectally), Post Dose 3 [N=138;131]	25	16		
Grade 3 fever(rectally), Post Dose 3 [N=138;131]	1	0		
Any irritability, Post Dose 3 [N=138;131]	44	40		
Grade 3 irritability, Post Dose 3 [N=138;131]	1	3		
Any loss of appetite, Post Dose 3 [N=138;131]	22	26		
Grade 3 loss of appetite, Post Dose 3 [N=138;131]	0	1		

## Statistical analyses

No statistical analyses for this end point

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

End point title	Number of subjects with any unsolicited adverse events
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End point description:

An AE is any untoward medical occurrence in a clinical investigation subject, temporally associated with the use of a medicinal product, whether or not considered related to the medicinal product. "Any" is defined an incidence of an unsolicited AE regardless of intensity or relationship to study vaccination.

End point type	Secondary
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End point timeframe:

Within 31 day (Day 0-30) post-vaccination period after each vaccination

Notes:

[5] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period. Justification: The analysis was not based on individual groups but rather on the pooled preterm groups and the full-term group.

End point values	FT Group	PT Group		
Subject group type	Reporting group	Subject analysis set		
Number of subjects analysed	149	137		
Units: Subjects				
Any AEs	58	43		

## Statistical analyses

No statistical analyses for this end point

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

End point title	Number of subjects with any serious adverse events (SAEs) <sup>[6]</sup>
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End point description:

End point type	Secondary
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End point timeframe:

Throughout the active phase of the study (from the first vaccine administration (Month 0) up to 1 month

after the third vaccine administration (Month5).

Notes:

[6] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period.  
Justification: The analysis was not based on individual groups but rather on the pooled preterm groups and the full-term group.

End point values	FT Group	PT Group		
Subject group type	Reporting group	Subject analysis set		
Number of subjects analysed	149	137		
Units: Subjects				
Any SAEs	13	18		

## Statistical analyses

No statistical analyses for this end point

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

End point title	Number of subjects with any serious adverse events (SAEs) <sup>[7]</sup>
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End point description:

End point type	Secondary
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End point timeframe:

Throughout the entire study period starting from the first vaccine dose administration (Month 0) up to the end of the 6-month safety follow-up (ESFU- Month 10).

Notes:

[7] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period.  
Justification: The analysis was not based on individual groups but rather on the pooled preterm groups and the full-term group.

End point values	FT Group	PT Group		
Subject group type	Reporting group	Subject analysis set		
Number of subjects analysed	149	137		
Units: Subjects				
Any SAEs	19	29		

## Statistical analyses

No statistical analyses for this end point

## Secondary: Number of subjects with concentrations of antibodies against vaccine pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F above or equal to (≥) 0.20 microgram per milliliter (µg/ mL)

End point title	Number of subjects with concentrations of antibodies against vaccine pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F above or equal to (≥) 0.20 microgram per milliliter (µg/ mL)
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End point description:

End point type	Secondary
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End point timeframe:

One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	42	82	131	
Units: Subjects				
Anti-1 [N=42;82;130]	41	82	129	
Anti-4 [N=41;82;130]	40	81	130	
Anti-5 [N=42;82;129]	42	82	129	
Anti-6B [N=41;82;131]	38	78	123	
Anti-7F [N=41;82;131]	41	82	131	
Anti-9V [N=41;82;132]	40	82	132	
Anti-14 [N=41;82;132]	41	82	132	
Anti-18C [N=41;81;132]	41	81	130	
Anti-19F [N=42;82;132]	42	82	132	
Anti-23F [N=41;82;131]	39	79	125	

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of subjects with concentrations of antibodies against vaccine pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F above or equal to ( $\geq$ ) 0.05 microgram per milliliter ( $\mu\text{g/mL}$ )

End point title	Number of subjects with concentrations of antibodies against vaccine pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F above or equal to ( $\geq$ ) 0.05 microgram per milliliter ( $\mu\text{g/mL}$ )
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End point description:

End point type	Secondary
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End point timeframe:

One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine.

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	42	82	132	
Units: Subjects				
Anti-1 [N=42;82;130]	42	82	130	
Anti-4 [N=41;82;130]	41	82	130	
Anti-5 [N=42;82;129]	42	82	129	
Anti-6B [N=41;82;131]	40	81	131	
Anti-7F [N=41;82;131]	41	82	131	
Anti-9V [N=41;82;132]	41	82	132	
Anti-14 [N=41;82;132]	41	82	132	
Anti-18C [N=41;81;132]	41	81	131	
Anti-19F [N=42;82;132]	42	82	132	
Anti-23F [N=41;82;131]	39	81	129	

## Statistical analyses

No statistical analyses for this end point

## Secondary: Concentrations of antibodies against vaccine pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F

End point title	Concentrations of antibodies against vaccine pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F
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End point description:

Seropositivity status, defined as anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antibody concentrations  $\geq 0.05$  microgram per milliliter ( $\mu\text{g/mL}$ ).

End point type	Secondary
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End point timeframe:

One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	42	82	132	
Units: $\mu\text{g/mL}$				
geometric mean (confidence interval 95%)				
Anti-1 [N=42;82;130]	0.97 (0.75 to 1.26)	1.1 (0.93 to 1.3)	1.35 (1.18 to 1.55)	
Anti-4 [N=41;82;130]	1.53 (1.19 to 1.98)	1.88 (1.61 to 2.2)	2.42 (2.13 to 2.74)	
Anti-5 [N=42;82;129]	1.45 (1.13 to 1.86)	1.93 (1.65 to 2.25)	2.31 (2 to 2.66)	
Anti-6B [N=41;82;131]	0.85 (0.61 to 1.19)	1.11 (0.89 to 1.37)	1.18 (1 to 1.39)	
Anti-7F [N=41;82;131]	1.87 (1.47 to 2.39)	2.37 (2.07 to 2.73)	2.69 (2.39 to 3.03)	
Anti-9V [N=41;82;132]	1.43 (1.17 to 1.74)	1.69 (1.44 to 1.99)	2.41 (2.13 to 2.73)	

Anti-14 [N=41;82;132]	3.52 (2.81 to 4.42)	3.28 (2.77 to 3.89)	3.71 (3.21 to 4.3)	
Anti-18C [N=41;81;132]	3.28 (2.51 to 4.29)	4.86 (3.92 to 6.02)	5.22 (4.27 to 6.38)	
Anti-19F [N=42;82;132]	3.6 (2.83 to 4.57)	4.8 (4.15 to 5.55)	4.56 (3.95 to 5.26)	
Anti-23F [N=41;82;131]	1.05 (0.74 to 1.49)	1.33 (1.07 to 1.65)	1.54 (1.28 to 1.85)	

## Statistical analyses

No statistical analyses for this end point

## Secondary: Number of subjects with opsonophagocytic activity against vaccine pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F above or equal to ( $\geq$ ) 8

End point title	Number of subjects with opsonophagocytic activity against vaccine pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F above or equal to ( $\geq$ ) 8
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End point description:

End point type	Secondary
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End point timeframe:

One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine.

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	36	74	113	
Units: Subjects				
Opsono-1 [N=34;72;110]	20	49	80	
Opsono-4 [N=36;73;111]	36	72	110	
Opsono-5 [N=34;74;109]	29	69	104	
Opsono-6B [N=35;69;104]	30	59	85	
Opsono-7F [N=36;74;113]	36	74	113	
Opsono-9V [N=36;72;103]	36	72	103	
Opsono-14 [N=36;73;112]	36	73	110	
Opsono-18C [N=34;68;102]	34	65	99	
Opsono-19F [N=35;74;110]	31	71	105	
Opsono-23F [N=36;72;109]	35	70	109	

## Statistical analyses

No statistical analyses for this end point

## Secondary: Opsonophagocytic activity against vaccine pneumococcal serotypes 1, 4,

**5, 6B, 7F, 9V, 14, 18C, 19F and 23F**

End point title	Opsonophagocytic activity against vaccine pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F
End point description: Seropositivity status, defined as Opsonophagocytic activity against pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F $\geq$ 8.	
End point type	Secondary
End point timeframe: One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine.	

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	36	74	113	
Units: Titers				
geometric mean (confidence interval 95%)				
Opsono-1 [N=34;72;110]	23 (13 to 40.6)	30.3 (20.5 to 44.8)	46.3 (33.4 to 64.1)	
Opsono-4 [N=36;73;111]	644.1 (474.6 to 874)	500.9 (384.5 to 652.5)	543.5 (450.6 to 655.5)	
Opsono-5 [N=34;74;109]	45.2 (27.7 to 73.8)	70.8 (52.3 to 95.7)	94.8 (75.7 to 118.7)	
Opsono-6B [N=35;69;104]	278.3 (125.5 to 617.3)	305.1 (180.1 to 516.9)	268.2 (167.5 to 429.4)	
Opsono-7F [N=36;74;113]	4086.3 (2834.3 to 5891.3)	3047.3 (2422.2 to 3833.7)	2395.2 (1973.2 to 2907.5)	
Opsono-9V [N=36;72;103]	930.5 (603.1 to 1435.6)	837.9 (642.7 to 1092.3)	1144.8 (922.3 to 1421)	
Opsono-14 [N=36;73;112]	775.4 (539 to 1115.5)	901.6 (699.8 to 1161.6)	644.6 (514.9 to 807)	
Opsono-18C [N=34;68;102]	262.5 (159.4 to 432.4)	321.5 (220.9 to 467.7)	251 (189 to 333.4)	
Opsono-19F [N=35;74;110]	104.2 (61.5 to 176.5)	201.1 (149.7 to 270.1)	182.7 (139.2 to 239.7)	
Opsono-23F [N=36;72;109]	1659.4 (975.1 to 2824)	1147.2 (843 to 1561.2)	1558.8 (1302.6 to 1865.3)	

**Statistical analyses**

No statistical analyses for this end point

**Secondary: Number of subjects with concentrations of antibodies against cross-reactive pneumococcal serotypes 6A and 19A equal to or above ( $\geq$ ) 0.05 microgram per milliliter ( $\mu\text{g/mL}$ )**

End point title	Number of subjects with concentrations of antibodies against cross-reactive pneumococcal serotypes 6A and 19A equal to or above ( $\geq$ ) 0.05 microgram per milliliter ( $\mu\text{g/mL}$ )
End point description:	



End point type	Secondary
End point timeframe:	
One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine.	

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	42	81	131	
Units: Subjects				
Anti-6A [N=42;81;129]	32	68	114	
Anti-19A [N=42;81;131]	26	72	120	

## Statistical analyses

No statistical analyses for this end point

## Secondary: Concentrations of antibodies against cross-reactive pneumococcal serotypes 6A and 19A

End point title	Concentrations of antibodies against cross-reactive pneumococcal serotypes 6A and 19A
End point description:	
Seropositivity status, defined as anti-pneumococcal cross-reactive serotypes 6A and 19A antibody concentrations $\geq 0.05$ microgram per milliliter ( $\mu\text{g/mL}$ ).	
End point type	Secondary
End point timeframe:	
One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine.	

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	42	81	131	
Units: $\mu\text{g/mL}$				
geometric mean (confidence interval 95%)				
Anti-6A [N=42;81;129]	0.14 (0.09 to 0.2)	0.21 (0.15 to 0.28)	0.2 (0.16 to 0.25)	
Anti-19A [N=42;81;131]	0.08 (0.06 to 0.11)	0.21 (0.16 to 0.28)	0.26 (0.21 to 0.32)	

## Statistical analyses

No statistical analyses for this end point

**Secondary: Number of subjects with opsonophagocytic activity against cross-reactive pneumococcal serotypes 6A and 19A equal to or above ( $\geq$ ) 8**

End point title	Number of subjects with opsonophagocytic activity against cross-reactive pneumococcal serotypes 6A and 19A equal to or above ( $\geq$ ) 8
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End point description:

End point type	Secondary
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End point timeframe:

One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine.

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	33	69	105	
Units: Subjects				
Opsono-6A [N=33;66;96]	25	54	58	
Opsono-19A [N=31;69;105]	2	10	17	

**Statistical analyses**

No statistical analyses for this end point

**Secondary: Opsonophagocytic activity against cross-reactive pneumococcal serotypes 6A and 19A**

End point title	Opsonophagocytic activity against cross-reactive pneumococcal serotypes 6A and 19A
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End point description:

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

End point type	Secondary
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End point timeframe:

One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine.

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	33	69	105	
Units: Titers				
geometric mean (confidence interval 95%)				
Opsono-6A [N=33;66;96]	114.5 (52.8 to 248.5)	157.3 (95.8 to 258.4)	49.5 (31.8 to 76.9)	
Opsono-19A [N=31;69;105]	4.5 (3.8 to 5.4)	7.1 (4.9 to 10.1)	7 (5.4 to 9.2)	

## Statistical analyses

No statistical analyses for this end point

### Secondary: Number of subjects with concentrations of antibodies against protein D (Anti-PD) equal to or above ( $\geq$ ) 100 ELISA units per milliliter (EL.U/mL)

End point title	Number of subjects with concentrations of antibodies against protein D (Anti-PD) equal to or above ( $\geq$ ) 100 ELISA units per milliliter (EL.U/mL)
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End point description:

End point type	Secondary
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End point timeframe:

One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine.

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	42	82	130	
Units: Subjects				
Anti-PD	42	82	130	

## Statistical analyses

No statistical analyses for this end point

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

End point title	Concentrations of antibodies against protein D (Anti-PD)
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End point description:

Seropositivity status, defined as anti-PD antibody concentrations  $\geq$  100 ELISA units per milliliter (EL.U/mL)

End point type	Secondary
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End point timeframe:

One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine.

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	42	82	130	
Units: EL.U/mL				
geometric mean (confidence interval 95%)				
Anti-PD	1688.6 (1320.1 to 2159.8)	1415.4 (1167.1 to 1716.5)	1496.8 (1283.4 to 1745.8)	

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of subjects with anti-diphtheria (Anti DT) and anti-tetanus toxoids (Anti TT) antibody concentrations equal to or above 0.1 international units per milliliter (IU/mL)

End point title	Number of subjects with anti-diphtheria (Anti DT) and anti-tetanus toxoids (Anti TT) antibody concentrations equal to or above 0.1 international units per milliliter (IU/mL)
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End point description:

End point type	Secondary
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End point timeframe:

One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	18	41	61	
Units: Subjects				
Anti-diphtheria	18	41	61	
Anti-tetanus	18	41	61	

### Statistical analyses

No statistical analyses for this end point

### Secondary: Antibody concentrations for anti-diphtheria and tetanus toxoids

End point title	Antibody concentrations for anti-diphtheria and tetanus toxoids
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End point description:

Seroprotection status, defined as anti-diphtheria toxoid or anti-tetanus toxoid antibody concentrations  $\geq$  0.1 IU/mL

End point type	Secondary
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End point timeframe:

One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	18	41	61	
Units: IU/mL				
geometric mean (confidence interval 95%)				
Anti-diphtheria	2.495 (1.664 to 3.741)	3.23 (2.628 to 3.969)	3.077 (2.481 to 3.817)	
Anti-tetanus	7.745 (6.284 to 9.545)	8.617 (7.216 to 10.29)	7.695 (6.838 to 8.66)	

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of subjects with anti-polyribosyl-ribitol phosphate (anti-PRP) antibody concentration equal to or above 0.15 microgram per milliliter (µg/mL)

End point title	Number of subjects with anti-polyribosyl-ribitol phosphate (anti-PRP) antibody concentration equal to or above 0.15 microgram per milliliter (µg/mL)
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End point description:

End point type	Secondary
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End point timeframe:

One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	18	41	63	
Units: Subjects				
Anti-PRP	18	41	63	

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of subjects with anti-polyribosyl-ribitol phosphate (anti-PRP) antibody concentration equal to or above 1.0 microgram per milliliter (µg/mL)

End point title	Number of subjects with anti-polyribosyl-ribitol phosphate (anti-PRP) antibody concentration equal to or above 1.0
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End point description:

End point type Secondary

End point timeframe:

One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	18	41	63	
Units: Subjects				
Anti-PRP	16	38	60	

### Statistical analyses

No statistical analyses for this end point

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

End point title Anti-polyribosyl-ribitol-phosphate (Anti-PRP) antibody concentrations

End point description:

Seroprotection status, defined as anti-PRP antibody concentrations  $\geq 0.15$  µg/mL and  $\geq 1.0$  µg/mL

End point type Secondary

End point timeframe:

One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	18	41	63	
Units: µg/mL				
geometric mean (confidence interval 95%)				
Anti-PRP	4.031 (2.261 to 7.184)	5.804 (4.12 to 8.178)	7.952 (5.839 to 10.831)	

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of subjects with anti-pertussis toxoid (anti-PT), anti-

**filamentous haemagglutinin (anti-FHA) and anti-pertactin (anti-PRN) antibody concentrations above or equal to 5 ELISA unit per milli-liter (EL.U/mL)**

End point title	Number of subjects with anti-pertussis toxoid (anti-PT), anti-filamentous haemagglutinin (anti-FHA) and anti-pertactin (anti-PRN) antibody concentrations above or equal to 5 ELISA unit per milli-liter (EL.U/mL)
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End point description:

End point type	Secondary
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End point timeframe:

One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	18	41	61	
Units: Subjects				
Anti-PT [N=18;41;61]	18	41	61	
Anti-FHA [N=18;41;61]	18	41	61	
Anti-PRN [N=17;40;60]	17	40	60	

**Statistical analyses**

No statistical analyses for this end point

**Secondary: Antibody concentration for anti-pertussis toxoid (anti-PT) , anti-filamentous haemagglutinin (anti-FHA) and anti-pertactin (anti-PRN)**

End point title	Antibody concentration for anti-pertussis toxoid (anti-PT) , anti-filamentous haemagglutinin (anti-FHA) and anti-pertactin (anti-PRN)
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End point description:

Seropositivity status, defined as anti-PT, anti-FHA, anti-PRN antibody concentrations  $\geq 5$  EL.U/mL.

End point type	Secondary
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End point timeframe:

One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	18	41	61	
Units: EL.U/mL				
geometric mean (confidence interval 95%)				

Anti-PT [N=18;41;61]	41.9 (27.6 to 63.7)	37.9 (30.7 to 46.7)	47.3 (40.2 to 55.7)	
Anti-FHA [N=18;41;61]	188.6 (133.4 to 266.6)	169 (139.6 to 204.7)	163.1 (138.3 to 192.3)	
Anti-PRN [N=17;40;60]	127.6 (81.5 to 199.6)	109.1 (85.7 to 139)	119.1 (101.1 to 140.4)	

## Statistical analyses

No statistical analyses for this end point

## Secondary: Number of subjects with anti-Hepatitis B surface antigen (HBs) antibody concentrations equal to or above 10 milli-international units per milliliter (mIU/mL)

End point title	Number of subjects with anti-Hepatitis B surface antigen (HBs) antibody concentrations equal to or above 10 milli-international units per milliliter (mIU/mL)
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End point description:

End point type	Secondary
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End point timeframe:

One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	8	26	12	
Units: Subjects				
Anti-HBs	8	26	12	

## Statistical analyses

No statistical analyses for this end point

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

End point title	Anti-hepatitis B surface antigen (HBs) antibody concentrations
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End point description:

Seroprotection status, defined as Anti-HBs antibody concentrations  $\geq 10$  mIU/mL

End point type	Secondary
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End point timeframe:

One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine



End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	8	26	12	
Units: mIU/mL				
geometric mean (confidence interval 95%)				
Anti-HBs	431.9 (240.7 to 775.2)	356 (221.1 to 573.4)	462.9 (221.1 to 969.1)	

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of subjects with anti-polio type 1, 2 and 3 antibody titres

End point title	Number of subjects with anti-polio type 1, 2 and 3 antibody titres
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End point description:

End point type	Secondary
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End point timeframe:

One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	12	22	29	
Units: Subjects				
Anti-Polio 1 [N= 12;22;29]	12	22	29	
Anti-Polio 2 [N= 12;22;29]	12	22	29	
Anti-Polio 3 [N= 11;21;29]	10	21	29	

### Statistical analyses

No statistical analyses for this end point

### Secondary: Antibody titers for polio type 1, 2 and 3

End point title	Antibody titers for polio type 1, 2 and 3
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End point description:

Seroprotection status, defined as Anti-polio type 1, Anti-polio type 2 and Anti-polio type 3 antibody titers  $\geq 8$

End point type	Secondary
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End point timeframe:

One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	12	22	29	
Units: Titers				
geometric mean (confidence interval 95%)				
Anti-Polio 1 [N= 12;22;29]	271.3 (132.9 to 554)	189.5 (109.9 to 326.8)	230.1 (166 to 319)	
Anti-Polio 2 [N= 12;22;29]	341.7 (214 to 545.6)	319 (172.5 to 589.8)	194.4 (121.7 to 310.7)	
Anti-Polio 3 [N= 11;21;29]	248.4 (67.9 to 908.7)	344.7 (192.2 to 618.3)	384.8 (245.3 to 603.6)	

## Statistical analyses

No statistical analyses for this end point

## Secondary: Number of subjects with vaccine response to anti-pertussis toxoid, anti-filamentous haemagglutinin and anti-pertactin

End point title	Number of subjects with vaccine response to anti-pertussis toxoid, anti-filamentous haemagglutinin and anti-pertactin
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End point description:

Vaccine response to PT, FHA and PRN: defined as appearance of antibodies in subjects who are initially seronegative (S-) (i.e., with concentrations < 5 EL.U/mL), or at least maintenance of pre-vaccination antibody concentrations in those who are initially seropositive (S+) (i.e., with concentrations ≥ 5 EL.U/mL).

End point type	Secondary
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End point timeframe:

One month after the administration of the 3rd dose of the primary vaccination course with 10Pn vaccine co-administered with DTPa-HBV-IPV/Hib vaccine

End point values	PT1 Group	PT2 Group	FT Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	18	27	45	
Units: Subjects				
Anti-PT, S- [N=18;27;45]	18	27	45	
Anti-PT, S+ [N=0;10;13]	0	8	12	
Anti-FHA, S- [N=15;22;18]	15	22	18	
Anti-FHA, S+ [N=3;17;41]	3	17	41	
Anti-PRN, S- [N= 17;34;45]	17	34	45	
Anti-PRN, S+ [N=0;4;12]	0	4	12	

## Statistical analyses

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No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Solicited local and general symptoms: during the 4-day post vaccination Unsolicited AEs: during the 31-day post vaccination; SAEs: during the whole study period.

Adverse event reporting additional description:

The occurrence of reported AEs (all/related) was not available and is encoded as equal to the number of subjects affected.

Assessment type	Non-systematic
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### Dictionary used

Dictionary name	MedDRA
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Dictionary version	11.0
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### Reporting groups

Reporting group title	PT Group
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Reporting group description:

Pooled PT1 and PT2 groups

Reporting group title	FT Group
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Reporting group description:

Infants born after a gestation period of more than 36 weeks (more than 258 days)

Serious adverse events	PT Group	FT Group	
Total subjects affected by serious adverse events			
subjects affected / exposed	29 / 137 (21.17%)	19 / 149 (12.75%)	
number of deaths (all causes)	1	0	
number of deaths resulting from adverse events			
Injury, poisoning and procedural complications			
Skull fracture			
subjects affected / exposed	1 / 137 (0.73%)	0 / 149 (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 / 137 (0.73%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Subdural hygroma			
subjects affected / exposed	1 / 137 (0.73%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	

General disorders and administration site conditions			
Pyrexia			
subjects affected / exposed	1 / 137 (0.73%)	2 / 149 (1.34%)	
occurrences causally related to treatment / all	1 / 1	0 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
Irritability			
subjects affected / exposed	1 / 137 (0.73%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Blood and lymphatic system disorders			
Thrombocythaemia			
subjects affected / exposed	1 / 137 (0.73%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Ear and labyrinth disorders			
Tympanic membrane perforation			
subjects affected / exposed	0 / 137 (0.00%)	1 / 149 (0.67%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Gastrointestinal disorders			
Inguinal hernia, obstructive			
subjects affected / exposed	1 / 137 (0.73%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Vomiting			
subjects affected / exposed	1 / 137 (0.73%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Respiratory, thoracic and mediastinal disorders			
Choking			
subjects affected / exposed	2 / 137 (1.46%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 1	0 / 0	
Tachypnoea			

subjects affected / exposed	2 / 137 (1.46%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Apnoea			
subjects affected / exposed	1 / 137 (0.73%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Asthma			
subjects affected / exposed	1 / 137 (0.73%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Bronchospasm			
subjects affected / exposed	0 / 137 (0.00%)	1 / 149 (0.67%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Psychiatric disorders			
Breath holding			
subjects affected / exposed	2 / 137 (1.46%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Renal and urinary disorders			
Vesicoureteric reflux			
subjects affected / exposed	1 / 137 (0.73%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Infections and infestations			
Bronchiolitis			
subjects affected / exposed	5 / 137 (3.65%)	3 / 149 (2.01%)	
occurrences causally related to treatment / all	0 / 5	0 / 3	
deaths causally related to treatment / all	0 / 0	0 / 0	
Gastroenteritis			
subjects affected / exposed	3 / 137 (2.19%)	3 / 149 (2.01%)	
occurrences causally related to treatment / all	0 / 3	0 / 3	
deaths causally related to treatment / all	0 / 0	0 / 0	

Gastroenteritis rotavirus			
subjects affected / exposed	1 / 137 (0.73%)	2 / 149 (1.34%)	
occurrences causally related to treatment / all	0 / 1	0 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pneumonia			
subjects affected / exposed	2 / 137 (1.46%)	1 / 149 (0.67%)	
occurrences causally related to treatment / all	0 / 2	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pyelonephritis acute			
subjects affected / exposed	1 / 137 (0.73%)	2 / 149 (1.34%)	
occurrences causally related to treatment / all	0 / 1	0 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
Upper respiratory tract infection			
subjects affected / exposed	1 / 137 (0.73%)	2 / 149 (1.34%)	
occurrences causally related to treatment / all	0 / 1	0 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
Urinary tract infection			
subjects affected / exposed	1 / 137 (0.73%)	1 / 149 (0.67%)	
occurrences causally related to treatment / all	0 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Bronchitis			
subjects affected / exposed	1 / 137 (0.73%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Bronchopneumonia			
subjects affected / exposed	1 / 137 (0.73%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Cellulitis			
subjects affected / exposed	1 / 137 (0.73%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Ear infection			

subjects affected / exposed	1 / 137 (0.73%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Lower respiratory tract infection viral			
subjects affected / exposed	0 / 137 (0.00%)	1 / 149 (0.67%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Mastoiditis			
subjects affected / exposed	1 / 137 (0.73%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Otitis media			
subjects affected / exposed	0 / 137 (0.00%)	1 / 149 (0.67%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pharyngotonsillitis			
subjects affected / exposed	1 / 137 (0.73%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Respiratory syncytial virus bronchiolitis			
subjects affected / exposed	0 / 137 (0.00%)	1 / 149 (0.67%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Tracheitis			
subjects affected / exposed	1 / 137 (0.73%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Vaginal infection			
subjects affected / exposed	1 / 137 (0.73%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Viral diarrhoea			



subjects affected / exposed	0 / 137 (0.00%)	1 / 149 (0.67%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Viral infection			
subjects affected / exposed	1 / 137 (0.73%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Metabolism and nutrition disorders			
Dehydration			
subjects affected / exposed	1 / 137 (0.73%)	1 / 149 (0.67%)	
occurrences causally related to treatment / all	0 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Anorexia			
subjects affected / exposed	0 / 137 (0.00%)	1 / 149 (0.67%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Hypoglycaemia			
subjects affected / exposed	1 / 137 (0.73%)	0 / 149 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	

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

<b>Non-serious adverse events</b>	PT Group	FT Group	
Total subjects affected by non-serious adverse events			
subjects affected / exposed	75 / 137 (54.74%)	102 / 149 (68.46%)	
General disorders and administration site conditions			
Injection site nodule			
subjects affected / exposed	4 / 137 (2.92%)	10 / 149 (6.71%)	
occurrences (all)	4	10	
Pyrexia			
subjects affected / exposed	3 / 137 (2.19%)	10 / 149 (6.71%)	
occurrences (all)	3	10	
Any Pain			

alternative assessment type: Systematic subjects affected / exposed <sup>[1]</sup> occurrences (all)	65 / 135 (48.15%) 65	84 / 146 (57.53%) 84	
Any Redness alternative assessment type: Systematic subjects affected / exposed <sup>[2]</sup> occurrences (all)	73 / 135 (54.07%) 73	102 / 146 (69.86%) 102	
Any Swelling subjects affected / exposed <sup>[3]</sup> occurrences (all)	55 / 135 (40.74%) 55	98 / 146 (67.12%) 98	
Any Drowsiness alternative assessment type: Systematic subjects affected / exposed <sup>[4]</sup> occurrences (all)	64 / 135 (47.41%) 64	65 / 146 (44.52%) 65	
Fever/(Rectally) alternative assessment type: Systematic subjects affected / exposed <sup>[5]</sup> occurrences (all)	66 / 135 (48.89%) 66	64 / 146 (43.84%) 64	
Irritability alternative assessment type: Systematic subjects affected / exposed <sup>[6]</sup> occurrences (all)	75 / 135 (55.56%) 75	100 / 146 (68.49%) 100	
Loss of appetite alternative assessment type: Systematic subjects affected / exposed <sup>[7]</sup> occurrences (all)	65 / 135 (48.15%) 65	51 / 146 (34.93%) 51	
Infections and infestations Upper respiratory tract infection subjects affected / exposed occurrences (all)	11 / 137 (8.03%) 11	10 / 149 (6.71%) 10	

Notes:

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

Justification: The analysis of the solicited symptom included only subjects with documented data.

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

Justification: The analysis of the solicited symptom included only subjects with documented data.

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

Justification: The analysis of the solicited symptom included only subjects with documented data.

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

Justification: The analysis of the solicited symptom included only subjects with documented data.

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

Justification: The analysis of the solicited symptom included only subjects with documented data.

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

Justification: The analysis of the solicited symptom included only subjects with documented data.

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

Justification: The analysis of the solicited symptom included only subjects with documented data.

## **More information**

### **Substantial protocol amendments (globally)**

Were there any global substantial amendments to the protocol? No

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### **Interruptions (globally)**

Were there any global interruptions to the trial? No

### **Limitations and caveats**

None reported