

**Clinical trial results:**

A phase II, randomized, controlled, observer-blind study to assess the safety, reactogenicity and immunogenicity of two formulations of GlaxoSmithKline (GSK) Biologicals' Streptococcus pneumoniae protein containing vaccine given as a 3-dose primary vaccination course co-administered with DTPa-HBV-IPV/Hib\* vaccine during the first 6 months of life and as a booster dose at 12-15 months of age.

\*DTPa-HBV-IPV/Hib = Infanrix hexa™

**Summary**

EudraCT number	2010-019730-27
Trial protocol	CZ PL SE DE
Global end of trial date	01 October 2012

**Results information**

Result version number	v3 (current)
This version publication date	02 June 2019
First version publication date	04 April 2015
Version creation reason	• New data added to full data set additional OPA-19A results for primary and booster phase

**Trial information****Trial identification**

Sponsor protocol code	113994
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**Additional study identifiers**

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	NCT01204658
WHO universal trial number (UTN)	-

Notes:

**Sponsors**

Sponsor organisation name	GlaxoSmithKline Biologicals
Sponsor organisation address	Rue de l'Institut 89, Rixensart, Belgium,
Public contact	Clinical Trials Call Center, GlaxoSmithKline Biologicals, 044 2089904466, GSKClinicalSupportHD@gsk.com
Scientific contact	Clinical Trials Call Center, GlaxoSmithKline Biologicals, 044 2089904466, GSKClinicalSupportHD@gsk.com

Notes:

**Paediatric regulatory details**

Is trial part of an agreed paediatric investigation plan (PIP)	No
Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial?	No
Does article 46 of REGULATION (EC) No 1901/2006 apply to this trial?	Yes

Notes:

## Results analysis stage

Analysis stage	Final
Date of interim/final analysis	16 November 2018
Is this the analysis of the primary completion data?	No
Global end of trial reached?	Yes
Global end of trial date	01 October 2012
Was the trial ended prematurely?	No

Notes:

## General information about the trial

Main objective of the trial:

1. Non-inferiority of the candidate pneumococcal vaccine (dPly-Low Dose [LD] and PhtD-LD)[10PP-LD] versus Synflorix™ vaccine when administered with Infanrix hexa™ (DTPa-HBV-IPV/Hib) as a 3-dose primary vaccination, in terms of post-primary immunization fever > 40.0°C (rectal temperature) with causal relationship to vaccination.

2. (sequential): Non-inferiority of the candidate pneumococcal vaccine (dPly-High Dose [HD] and PhtD-HD)[10PP-HD] versus Synflorix™ vaccine when administered with Infanrix hexa™ as a 3-dose primary vaccination, in terms of post-primary immunization fever > 40.0°C (rectal temperature) with causal relationship to vaccination.

Criteria = Non-inferiority supported if one can rule out an increase, in terms of percentage of subjects with fever >40.0°C with causal relationship to vaccination (10PP-LD or 10PP-HD group as compared to Synflorix™ group) above 5% + half the incidence in the control group (= null hypothesis) as shown by a one-sided P-value < 5%.

Protection of trial subjects:

GSK has monitored the study to verify that, amongst others, the:

- Data are authentic, accurate, and complete.
- Safety and rights of subjects are being protected.
- Study is conducted in accordance with the currently approved protocol and any amendments, any other study agreements, GCP and all applicable regulatory requirements.

All subjects were supervised after vaccination with appropriate medical treatment readily available.

Vaccines were administered by qualified and trained personnel. Only eligible subjects that had no contraindications to any components of the vaccines were vaccinated. Subjects were followed-up for 31 days after each/last vaccination.

Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	27 September 2010
Long term follow-up planned	No
Independent data monitoring committee (IDMC) involvement?	No

Notes:

## Population of trial subjects

### Subjects enrolled per country

Country: Number of subjects enrolled	Poland: 110
Country: Number of subjects enrolled	Sweden: 22
Country: Number of subjects enrolled	Czech Republic: 434
Country: Number of subjects enrolled	Germany: 10

Worldwide total number of subjects	576
EEA total number of subjects	576

Notes:

<b>Subjects enrolled per age group</b>	
In utero	0
Preterm newborn - gestational age < 37 wk	0
Newborns (0-27 days)	0
Infants and toddlers (28 days-23 months)	576
Children (2-11 years)	0
Adolescents (12-17 years)	0
Adults (18-64 years)	0
From 65 to 84 years	0
85 years and over	0

## Subject disposition

### Recruitment

Recruitment details:

A total of 576 subjects were initially enrolled in the study. Of these, one subject was older than protocol defined age range for the first vaccination, and therefore did not receive any vaccination.

### Pre-assignment

Screening details:

The study duration is approximately 10 to 14 months depending on age at recruitment and age at booster vaccination. 2 Phases in the study: Primary Phase when subjects received a 3-dose of pneumococcal vaccine co-administered with Infanrix hexa™ (Months 0, 1, 2), and Booster Phase when subjects received one dose of the same vaccines (Month 10).

### Pre-assignment period milestones

Number of subjects started	576
Number of subjects completed	575

### Pre-assignment subject non-completion reasons

Reason: Number of subjects	Study vaccine dose not administrated: 1
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### Period 1

Period 1 title	Overall period (overall period)
Is this the baseline period?	Yes
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator, Monitor, Carer, Assessor

Blinding implementation details:

Data collected in an observer-blind manner, meaning that during the course of the study, the subject and those responsible for the evaluation of any study endpoint (e.g. safety, reactogenicity, and immunogenicity) will all be unaware of which vaccine was administered. To do so, vaccine preparation and administration will be done by authorised medical personnel who will not participate in any of the study clinical evaluation assays.

The laboratory will be blinded to the treatment.

### Arms

Are arms mutually exclusive?	Yes
Arm title	10PP-LD/Infanrix hexa Group

Arm description:

This group consisted in infants aged 6-14 weeks at primary vaccination who received a 3-dose primary vaccination of the GSK 2189242A (or 10PP) vaccine combined with low doses (LD) of pneumococcal pneumolysin toxoid proteins (dPly) and pneumococcal histidine protein D (PhtD) co-administered with the Infanrix hexa™ vaccine at Study Months 0, 1 and 2. Subjects also received a booster dose of each of these vaccines, administered at Study Month 10.

Arm type	Experimental
Investigational medicinal product name	Pneumococcal vaccine GSK 2189242A (Low Dose formulation 1)
Investigational medicinal product code	GSK 2189242A LD
Other name	
Pharmaceutical forms	Suspension for injection in pre-filled syringe
Routes of administration	Intramuscular use

Dosage and administration details:

4 doses: 3 primary doses at Study Months 0, 1 and 2. Subjects also received a booster dose , administered at Study Month 10. The 3 primary doses of the 10PP vaccine were administered intramuscularly (IM) in the thigh, on the right side. Booster doses were administered IM into the deltoid or thigh if the deltoid muscle size was not adequate, on the left side for the 10PP vaccine.

Investigational medicinal product name	Infanrix hexa™
Investigational medicinal product code	DTPa-HBV-IPV/Hib
Other name	
Pharmaceutical forms	Suspension for injection in pre-filled syringe
Routes of administration	Intramuscular use

**Dosage and administration details:**

4 doses: 3 primary doses at Study Months 0, 1 and 2. Subjects also received a booster dose , administered at Study Month 10. The 3 primary doses of the Infanrix hexa™ vaccines were administered intramuscularly (IM) in the thigh, on the left side. Booster dose was administered IM into the deltoid or thigh if the deltoid muscle size was not adequate, on the right side.

<b>Arm title</b>	10PP-HD/Infanrix hexa Group
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**Arm description:**

This group consisted in infants aged 6-14 weeks at primary vaccination who received a 3-dose primary vaccination of the GSK 2189242A (or 10PP) vaccine combined with high doses (HD) of pneumococcal pneumolysin toxoid proteins (dPly) and pneumococcal histidine protein D (PhtD), co-administered with the Infanrix hexa™ vaccine at Study Months 0, 1 and 2. Subjects also received a booster dose of each of these vaccines, administered at Study Month 10.

Arm type	Experimental
Investigational medicinal product name	Pneumococcal vaccine (High Dose formulation 2)
Investigational medicinal product code	GSK 2189242A HD
Other name	
Pharmaceutical forms	Suspension for injection in pre-filled syringe
Routes of administration	Intramuscular use

**Dosage and administration details:**

4 doses: 3-dose primary vaccination at Study Months 0, 1 and 2 and a booster dose administered at Study Month 10. The 3 primary doses of the 10PP vaccine were administered intramuscularly (IM) in the thigh, on the right side. Booster dose was administered IM into the deltoid or thigh if the deltoid muscle size was not adequate, on the left side.

Investigational medicinal product name	Infanrix hexa™
Investigational medicinal product code	DTPa-HBV-IPV/Hib
Other name	
Pharmaceutical forms	Suspension for injection in pre-filled syringe
Routes of administration	Intramuscular use

**Dosage and administration details:**

4 doses: 3 primary doses at Study Months 0, 1 and 2. Subjects also received a booster dose , administered at Study Month 10. The 3 primary doses of the Infanrix hexa™ vaccines were administered intramuscularly (IM) in the thigh, on the left side. Booster dose was administered IM into the deltoid or thigh if the deltoid muscle size was not adequate, on the right side.

<b>Arm title</b>	Synflorix/Infanrix hexa Group
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**Arm description:**

This group consisted in infants aged 6-14 weeks at primary vaccination who received a 3-dose primary vaccination of Synflorix™ vaccine, co-administered with the Infanrix hexa™ vaccine at Study Months 0, 1 and 2. Subjects also received a booster dose of each of these vaccines, administered at Study Month 10.

Arm type	Active comparator
Investigational medicinal product name	Synflorix™
Investigational medicinal product code	10Pn-PD-DiT
Other name	
Pharmaceutical forms	Suspension for injection in pre-filled syringe
Routes of administration	Intramuscular use

**Dosage and administration details:**

4 doses: 3-dose primary vaccination at Study Months 0, 1 and 2 and a booster dose administered at Study Month 10. The 3 primary doses of Synflorix™ vaccine were administered intramuscularly (IM) in the thigh, on the right side. Booster dose was administered IM into the deltoid or thigh if the deltoid muscle size was not adequate, on the left side.

Investigational medicinal product name	Infanrix hexa™
Investigational medicinal product code	DTPa-HBV-IPV/Hib
Other name	
Pharmaceutical forms	Suspension for injection in pre-filled syringe
Routes of administration	Intramuscular use

Dosage and administration details:

4 doses: 3 primary doses at Study Months 0, 1 and 2. Subjects also received a booster dose , administered at Study Month 10. The 3 primary doses of the Infanrix hexa™ vaccines were administered intramuscularly (IM) in the thigh, on the left side. Booster dose was administered IM into the deltoid or thigh if the deltoid muscle size was not adequate, on the right side.

<b>Arm title</b>	Prevnar 13/Infanrix hexa Group
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Arm description:

This group consisted in infants aged 6-14 weeks at primary vaccination who received a 3-dose primary vaccination of Prevnar 13™ vaccine, co-administered with the Infanrix hexa™ vaccine at Study Months 0, 1 and 2. Subjects also received a booster dose of each of these vaccines, administered at Study Month 10.

Arm type	Active comparator
Investigational medicinal product name	Prevenar 13™
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Suspension for injection in pre-filled syringe
Routes of administration	Intramuscular use

Dosage and administration details:

4 doses: 3-dose primary vaccination of Prevnar 13™ vaccine at Study Months 0, 1 and 2 and a booster dose , administered at Study Month 10. The 3 primary doses of Prevnar 13™ were administered intramuscularly (IM) in the thigh, on the right side. Booster dose was administered IM into the deltoid or thigh if the deltoid muscle size was not adequate, on the left side.

Investigational medicinal product name	Infanrix hexa™
Investigational medicinal product code	DTPa-HBV-IPV/Hib
Other name	
Pharmaceutical forms	Suspension for injection in pre-filled syringe
Routes of administration	Intramuscular use

Dosage and administration details:

4 doses: 3 primary doses at Study Months 0, 1 and 2. Subjects also received a booster dose , administered at Study Month 10. The 3 primary doses of the Infanrix hexa™ vaccines were administered intramuscularly (IM) in the thigh, on the left side. Booster dose was administered IM into the deltoid or thigh if the deltoid muscle size was not adequate, on the right side.

<b>Number of subjects in period 1<sup>[1]</sup></b>	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group
Started	146	142	145
Completed	144	140	140
Not completed	2	2	5
Consent withdrawn by subject	-	1	1
Adverse event, non-fatal	-	1	2
Migrated/moved from study area	2	-	2

<b>Number of subjects in period 1<sup>[1]</sup></b>	Prevnar 13/Infanrix hexa Group
Started	142

Completed	140
Not completed	2
Consent withdrawn by subject	2
Adverse event, non-fatal	-
Migrated/moved from study area	-

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Notes:

[1] - The number of subjects reported to be in the baseline period are not the same as the worldwide number enrolled in the trial. It is expected that these numbers will be the same.

Justification: A total of 576 subjects were initially enrolled in the study. Of these, one subject was older than protocol defined age range for the first vaccination, and therefore did not receive any vaccination.

## Baseline characteristics

### Reporting groups

Reporting group title	10PP-LD/Infanrix hexa Group
Reporting group description:	
This group consisted in infants aged 6-14 weeks at primary vaccination who received a 3-dose primary vaccination of the GSK 2189242A (or 10PP) vaccine combined with low doses (LD) of pneumococcal pneumolysin toxoid proteins (dPly) and pneumococcal histidine protein D (PhtD) co-administered with the Infanrix hexa™ vaccine at Study Months 0, 1 and 2. Subjects also received a booster dose of each of these vaccines, administered at Study Month 10.	
Reporting group title	10PP-HD/Infanrix hexa Group
Reporting group description:	
This group consisted in infants aged 6-14 weeks at primary vaccination who received a 3-dose primary vaccination of the GSK 2189242A (or 10PP) vaccine combined with high doses (HD) of pneumococcal pneumolysin toxoid proteins (dPly) and pneumococcal histidine protein D (PhtD), co-administered with the Infanrix hexa™ vaccine at Study Months 0, 1 and 2. Subjects also received a booster dose of each of these vaccines, administered at Study Month 10.	
Reporting group title	Synflorix/Infanrix hexa Group
Reporting group description:	
This group consisted in infants aged 6-14 weeks at primary vaccination who received a 3-dose primary vaccination of Synflorix™ vaccine, co-administered with the Infanrix hexa™ vaccine at Study Months 0, 1 and 2. Subjects also received a booster dose of each of these vaccines, administered at Study Month 10.	
Reporting group title	Prevnar 13/Infanrix hexa Group
Reporting group description:	
This group consisted in infants aged 6-14 weeks at primary vaccination who received a 3-dose primary vaccination of Prevnar 13™ vaccine, co-administered with the Infanrix hexa™ vaccine at Study Months 0, 1 and 2. Subjects also received a booster dose of each of these vaccines, administered at Study Month 10.	

Reporting group values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group
Number of subjects	146	142	145
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	10.3	10.1	10.1
standard deviation	± 2.49	± 2.7	± 2.61
Gender categorical Units: Subjects			
Female	65	67	70
Male	81	75	75



Reporting group values	Prevnar 13/Infanrix hexa Group	Total	
Number of subjects	142	575	
Age categorical Units: Subjects			
In utero		0	
Preterm newborn infants (gestational age < 37 wks)		0	
Newborns (0-27 days)		0	
Infants and toddlers (28 days-23 months)		0	
Children (2-11 years)		0	
Adolescents (12-17 years)		0	
Adults (18-64 years)		0	
From 65-84 years		0	
85 years and over		0	
Age continuous Units: weeks			
arithmetic mean	10.2		
standard deviation	± 2.64	-	
Gender categorical Units: Subjects			
Female	66	268	
Male	76	307	

## End points

### End points reporting groups

Reporting group title	10PP-LD/Infanrix hexa Group
Reporting group description: This group consisted in infants aged 6-14 weeks at primary vaccination who received a 3-dose primary vaccination of the GSK 2189242A (or 10PP) vaccine combined with low doses (LD) of pneumococcal pneumolysin toxoid proteins (dPly) and pneumococcal histidine protein D (PhtD) co-administered with the <i>Infanrix hexa</i> <sup>™</sup> vaccine at Study Months 0, 1 and 2. Subjects also received a booster dose of each of these vaccines, administered at Study Month 10.	
Reporting group title	10PP-HD/Infanrix hexa Group
Reporting group description: This group consisted in infants aged 6-14 weeks at primary vaccination who received a 3-dose primary vaccination of the GSK 2189242A (or 10PP) vaccine combined with high doses (HD) of pneumococcal pneumolysin toxoid proteins (dPly) and pneumococcal histidine protein D (PhtD), co-administered with the <i>Infanrix hexa</i> <sup>™</sup> vaccine at Study Months 0, 1 and 2. Subjects also received a booster dose of each of these vaccines, administered at Study Month 10.	
Reporting group title	Synflorix/Infanrix hexa Group
Reporting group description: This group consisted in infants aged 6-14 weeks at primary vaccination who received a 3-dose primary vaccination of <i>Synflorix</i> <sup>™</sup> vaccine, co-administered with the <i>Infanrix hexa</i> <sup>™</sup> vaccine at Study Months 0, 1 and 2. Subjects also received a booster dose of each of these vaccines, administered at Study Month 10.	
Reporting group title	Prevnar 13/Infanrix hexa Group
Reporting group description: This group consisted in infants aged 6-14 weeks at primary vaccination who received a 3-dose primary vaccination of <i>Prevnar 13</i> <sup>™</sup> vaccine, co-administered with the <i>Infanrix hexa</i> <sup>™</sup> vaccine at Study Months 0, 1 and 2. Subjects also received a booster dose of each of these vaccines, administered at Study Month 10.	

### Primary: Number of subjects with any and Grade 3 solicited general symptoms and with solicited general symptoms related to vaccination – Primary Phase of the study.

End point title	Number of subjects with any and Grade 3 solicited general symptoms and with solicited general symptoms related to vaccination – Primary Phase of the study. <sup>[1]</sup>
End point description: Assessed solicited general symptoms were Drowsiness, Irritability, Loss of appetite (Loss Appet.) and Fever (rectal temperature higher than or equal to [ $\geq$ ] 38 degrees Celsius [ $^{\circ}\text{C}$ ]). Any = Occurrence of the specified solicited general symptom, regardless of intensity and relationship to vaccination. Related = Occurrence of the specified symptom assessed by the investigators as causally related to vaccination. Grade 3 (G3) Drowsiness = Drowsiness that prevented normal activity. G3 Irritability = Crying that could not be comforted/prevented normal activity. G3 Loss of appetite = Subject did not eat at all. G3 Fever = Rectal temperature higher than ( $>$ ) 40.0 $^{\circ}\text{C}$ . Primary results correspond to results for occurrences of G3 fever symptoms assessed by the investigators as related to vaccination (Related G3 fever).	
End point type	Primary
End point timeframe: Within the 7-day (Days 0-6) periods post vaccination, after each dose (D) of the 3-dose primary vaccination course	
Notes: [1] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point. Justification: The scope of this primary end point was descriptive, no statistical hypothesis test was performed.	

End point values	10PP- LD/Infanrix hexa Group	10PP- HD/Infanrix hexa Group	Synflorix/Infan- rix hexa Group	Prevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	146	142	144	142
Units: Subject				
Any Drowsiness, post D1 (N=146;142;144;142)	82	76	72	77
G3 Drowsiness, post D1 (N=146;142;144;142)	4	0	2	2
Related Drowsiness, post D1 (N=146;142;144;142)	63	58	52	58
Any Irritability, post D1 (N=146;142;144;142)	93	82	89	82
G3 Irritability, post D1 (N=146;142;144;142)	6	9	9	5
Related Irritability, post D1 (N=146;142;144;142)	70	62	66	57
Any Loss Appet., post D1 (N=146;142;144;142)	38	32	39	32
G3 Loss Appet., post D1 (N=146;142;144;142)	0	1	0	0
Related Loss Appet., post D1 (N=146;142;144;142)	28	26	29	21
Any Fever, post D1 (N=146;142;144;142)	45	32	53	28
G3 Fever, post D1 (N=146;142;144;142)	0	0	0	0
Related Fever, post D1 (N=146;142;144;142)	33	25	44	27
Related G3 Fever, post D1 (N=146;142;144;142)	0	0	0	0
Any Drowsiness, post D2 (N=146;142;144;142)	71	63	70	66
G3 Drowsiness, post D2 (N=146;142;144;142)	4	2	1	1
Related Drowsiness, post D2 (N=146;142;144;142)	53	49	56	55
Any Irritability, post D2 (N=146;142;144;142)	88	81	86	87
G3 Irritability, post D2 (N=146;142;144;142)	8	3	5	6
Related Irritability, post D2 (N=146;142;144;142)	69	66	66	67
Any Loss Appet., post D2 (N=146;142;144;142)	32	30	28	30
G3 Loss Appet., post D2 (N=146;142;144;142)	1	2	0	0
Related Loss Appet., post D2 (N=146;142;144;142)	23	21	18	25
Any Fever, post D2 (N=146;142;144;142)	40	50	38	38
G3 Fever, post D2 (N=146;142;144;142)	0	0	0	0
Related Fever, post D2 (N=146;142;144;142)	32	39	33	31
Related G3 Fever, post D2 (N=146;142;144;142)	0	0	0	0
Any Drowsiness, post D3 (N=146;141;143;142)	57	48	56	48
Grade 3 Drowsiness, post D3 (N=146;141;143;142)	2	0	1	1

Related Drowsiness, post D3 (N=146;141;143;142)	51	38	44	36
Any Irritability, post D3 (N=146;141;143;142)	62	73	62	72
G3 Irritability, post D3 (N=146;141;143;142)	7	1	3	2
Related Irritability, post D3 (N=146;141;143;142)	52	55	48	53
Any Loss Appet., post D3 (N=146,141,143,142)	28	25	24	21
G3 Loss Appet., post D3 (N=146,141,143,142)	0	0	2	2
Related Loss Appet., post D3 (N=146,141,143,142)	22	20	18	13
Any Fever, post D3 (N=146;141;143;142)	28	23	27	30
G3 Fever, post D3 (N=146;141;143;142)	0	0	0	0
Related Fever, post D3 (N=146;141;143;142)	23	19	20	22
Related G3 Fever, post D3 (N=146;141;143;142)	0	0	0	0

## Statistical analyses

No statistical analyses for this end point

### Primary: Percentage of subjects reporting fever > 40.0°C with causal relationship to vaccination after each primary vaccination dose and across doses in 10PP-LD/Infanrix hexa group and in Synflorix/Infanrix hexa group.

End point title	Percentage of subjects reporting fever > 40.0°C with causal relationship to vaccination after each primary vaccination dose and across doses in 10PP-LD/Infanrix hexa group and in Synflorix/Infanrix hexa group. <sup>[2]</sup>
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End point description:

Grade 3 fever was defined as fever by rectal measurement >40.0°C. Related was defined a causal relationship to vaccination. This endpoint was assessed after each primary vaccination dose and across doses and in subjects in the 10PP-LD/Infanrix hexa (or 10PP-LD) and Synflorix/Infanrix hexa (or 10PN) groups only.

End point type	Primary
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End point timeframe:

During the 7-day (Days 0-6) post-vaccination period following each primary vaccination dose and across doses

Notes:

[2] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period.  
Justification: This endpoint is related to the difference between 2 groups: the 10PP-LD/Infanrix hexa group and the Synflorix/Infanrix hexa group.

End point values	10PP-LD/Infanrix hexa Group	Synflorix/Infanrix hexa Group		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	146	144		
Units: percentage				
number (not applicable)				

Fever > 40.0°C & Related Dose 1 (N=146, 144)	0	0		
Fever> 40.0°C & Related Dose 2 (N=146, 144)	0	0		
Fever> 40.0°C & Related Dose 3 (N=146, 143)	0	0		
Fever> 40.0°C & Related across doses (N=146,144)	0	0		

## Statistical analyses

Statistical analysis title	Non-inferiority: 10PP-LD versus Synflorix - dose 1
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Statistical analysis description:

Non-inferiority of 10PP-LD vaccine vs Synflorix™ vaccine post dose 1 was assessed by computing the difference in percentages of subjects reporting Grade 3 fever causally related to dose 1 vaccination in the 10PP-LD Group minus 10PN Group. Non-inferiority was supported if one could rule out an increase in terms of percentage of subjects (10PP-LD Group minus 10PN Group) above 5% + half the incidence in the 10PN Group (= null hypothesis) as shown by a 1-sided P-value < 5%.

Comparison groups	Synflorix/Infanrix hexa Group v 10PP-LD/Infanrix hexa Group
Number of subjects included in analysis	290
Analysis specification	Pre-specified
Analysis type	non-inferiority
P-value	= 0.003 <sup>[3]</sup>
Method	Kem Phillip's statistical test
Parameter estimate	Difference in percentage
Point estimate	0
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.61
upper limit	2.57

Notes:

[3] - 1-sided P-value computed using Kem Philips'approach for ruling out an increase in % subjects with fever > 40.0°C and causal relationship to vaccination > the boundary expressed as 5% + 0.5\*rate in the 10PN group.

Statistical analysis title	Non-inferiority: 10PP-LD versus Synflorix - dose 2
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Statistical analysis description:

Non-inferiority of 10PP-LD vaccine vs Synflorix™ vaccine post dose 2 was assessed by computing the difference in percentages of subjects reporting Grade 3 fever causally related to dose 2 vaccination in the 10PP-LD Group minus 10PN Group. Non-inferiority was supported if one could rule out an increase in terms of percentage of subjects (10PP-LD Group minus 10PN Group) above 5% + half the incidence in the 10PN Group (= null hypothesis) as shown by a 1-sided P-value < 5%

Comparison groups	Synflorix/Infanrix hexa Group v 10PP-LD/Infanrix hexa Group
Number of subjects included in analysis	290
Analysis specification	Pre-specified
Analysis type	non-inferiority
P-value	= 0.003 <sup>[4]</sup>
Method	Kem Phillip's statistical test
Parameter estimate	Difference in percentage
Point estimate	0

Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.61
upper limit	2.57

Notes:

[4] - 1-sided P-value computed using Kem Phillips' approach for ruling out an increase in % subjects with fever > 40.0°C and causal relationship to vaccination > the boundary expressed as 5% + 0.5\*rate in the 10PN group.

<b>Statistical analysis title</b>	Non-inferiority: 10PP-LD versus Synflorix - dose 3
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Statistical analysis description:

Non-inferiority of 10PP-LD vaccine vs Synflorix™ vaccine post dose 3 was assessed by computing the difference in percentages of subjects reporting Grade 3 fever causally related to dose 3 vaccination in the 10PP-LD Group minus 10PN Group. Non-inferiority was supported if one could rule out an increase in terms of percentage of subjects (10PP-LD Group minus 10PN Group) above 5% + half the incidence in the 10PN Group (= null hypothesis) as shown by a 1-sided P-value < 5%

Comparison groups	Synflorix/Infanrix hexa Group v 10PP-LD/Infanrix hexa Group
Number of subjects included in analysis	290
Analysis specification	Pre-specified
Analysis type	non-inferiority
P-value	= 0.003 <sup>[5]</sup>
Method	Kem Phillip's statistical test
Parameter estimate	Difference in percentage
Point estimate	0
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.62
upper limit	2.57

Notes:

[5] - 1-sided P-value computed using Kem Phillips' approach for ruling out an increase in % subjects with fever > 40.0°C and causal relationship to vaccination > the boundary expressed as 5% + 0.5\*rate in the 10PN group.

<b>Statistical analysis title</b>	Non-inferiority:10PP-LD vs Synflorix -across doses
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Statistical analysis description:

Non-inferiority of 10PP-LD vaccine vs Synflorix™ vaccine across doses was assessed by computing the difference in percentages of subjects reporting Grade 3 fever causally related to vaccination, across doses, in the 10PP-LD Group minus 10PN Group. Non-inferiority was supported if one could rule out an increase in terms of percentage of subjects (10PP-LD Group minus 10PN Group) above 5% + half the incidence in the 10PN Group (= null hypothesis) as shown by a 1-sided P-value < 5%

Comparison groups	Synflorix/Infanrix hexa Group v 10PP-LD/Infanrix hexa Group
Number of subjects included in analysis	290
Analysis specification	Pre-specified
Analysis type	non-inferiority
P-value	= 0.003 <sup>[6]</sup>
Method	Kem Phillip's statistical test
Parameter estimate	Difference in percentage
Point estimate	0
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.61
upper limit	2.57

Notes:

[6] - 1-sided P-value computed using Kem Philips'approach for ruling out an increase in % subjects with fever > 40.0°C and causal relationship to vaccination > the boundary expressed as 5% + 0.5\*rate in the 10PN group.

**Primary: Percentage of subjects reporting fever > 40° C with causal relationship to vaccination after each primary vaccination dose and across doses in the 10PP-HD/Infanrix hexa group and in the Synflorix/Infanrix hexa group.**

End point title	Percentage of subjects reporting fever > 40° C with causal relationship to vaccination after each primary vaccination dose and across doses in the 10PP-HD/Infanrix hexa group and in the Synflorix/Infanrix hexa group. <sup>[7]</sup>
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End point description:

Grade 3 fever was defined as fever by rectal measurement >40.0°C. Related was defined a causal relationship to vaccination. This endpoint was assessed after each primary vaccination dose and across doses and in subjects in the 10PP-HD/Infanrix hexa (or 10PP-HD) and Synflorix/Infanrix hexa (or 10PN) groups only.

End point type	Primary
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End point timeframe:

During the 7-day (Days 0-6) post-vaccination period following each primary vaccination dose and across doses

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: This endpoint is related to the difference between 2 groups: the 10PP-HD/Infanrix hexa group and the Synflorix/Infanrix hexa group.

End point values	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	142	144		
Units: percentage				
number (not applicable)				
Fever > 40.0°C & Related Dose 1 (N=142,144)	0	0		
Fever> 40.0°C & Related Dose 2 (N=142,144)	0	0		
Fever> 40.0°C & Related Dose 3 (N=141,143)	0	0		
Fever> 40.0°C & Related across doses (N=142,144)	0	0		

**Statistical analyses**

Statistical analysis title	Non-inferiority: 10PP-HD versus Synflorix- dose 1
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Statistical analysis description:

Non-inferiority of 10PP-HD vaccine vs Synflorix™ vaccine post dose 1 was assessed by computing the difference in percentages of subjects reporting Grade 3 fever causally related to dose 1 vaccination in the 10PP-HD Group minus 10PN Group. Non-inferiority was supported if one could rule out an increase in terms of percentage of subjects (10PP-HD Group minus 10PN Group) above 5% + half the incidence in the 10PN Group (= null hypothesis) as shown by a 1-sided P-value < 5%.

Comparison groups	10PP-HD/Infanrix hexa Group v Synflorix/Infanrix hexa Group
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Number of subjects included in analysis	286
Analysis specification	Pre-specified
Analysis type	non-inferiority
P-value	= 0.003 <sup>[8]</sup>
Method	Kem Philips' statistical test
Parameter estimate	Difference in percentage
Point estimate	0
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.61
upper limit	2.64

Notes:

[8] - 1-sided P-value computed using Kem Philips' approach for ruling out an increase in % of subjects with fever > 40.0°C and causal relationship to vaccination above the boundary expressed as 5% + 0.5 \*rate in the 10PN group.

<b>Statistical analysis title</b>	Non-inferiority: 10PP-HD versus Synflorix- dose 2
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Statistical analysis description:

Non-inferiority of 10PP-HD vaccine vs Synflorix™ vaccine post dose 2 was assessed by computing the difference in percentages of subjects reporting Grade 3 fever causally related to dose 2 vaccination in the 10PP-HD Group minus 10PN Group. Non-inferiority was supported if one could rule out an increase in terms of percentage of subjects (10PP-HD Group minus 10PN Group) above 5% + half the incidence in the 10PN Group (= null hypothesis) as shown by a 1-sided P-value < 5%.

Comparison groups	10PP-HD/Infanrix hexa Group v Synflorix/Infanrix hexa Group
Number of subjects included in analysis	286
Analysis specification	Pre-specified
Analysis type	non-inferiority
P-value	= 0.003 <sup>[9]</sup>
Method	Kem Philips' statistical test
Parameter estimate	Difference in percentage
Point estimate	0
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.61
upper limit	2.64

Notes:

[9] - 1-sided P-value computed using Kem Philips' approach for ruling out an increase in % of subjects with fever > 40.0°C and causal relationship to vaccination above the boundary expressed as 5% + 0.5 \*rate in the 10PN group.

<b>Statistical analysis title</b>	Non-inferiority: 10PP-HD versus Synflorix - dose 3
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Statistical analysis description:

Non-inferiority of 10PP-HD vaccine vs Synflorix™ vaccine post dose 3 was assessed by computing the difference in percentages of subjects reporting Grade 3 fever causally related to dose 3 vaccination in the 10PP-HD Group minus 10PN Group. Non-inferiority was supported if one could rule out an increase in terms of percentage of subjects (10PP-HD Group minus 10PN Group) above 5% + half the incidence in the 10PN Group (= null hypothesis) as shown by a 1-sided P-value < 5%.

Comparison groups	10PP-HD/Infanrix hexa Group v Synflorix/Infanrix hexa Group
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Number of subjects included in analysis	286
Analysis specification	Pre-specified
Analysis type	non-inferiority
P-value	= 0.003 <sup>[10]</sup>
Method	Kem Philips' statistical test
Parameter estimate	Difference in percentage
Point estimate	0
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.63
upper limit	2.66

Notes:

[10] - 1-sided P-value computed using Kem Philips'approach for ruling out an increase in % of subjects with fever > 40.0°C and causal relationship to vaccination above the boundary expressed as 5% + 0.5 \*rate in the 10PN group.

<b>Statistical analysis title</b>	Non-inferiority: 10PP-HD vs Synflorix-across doses
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Statistical analysis description:

Non-inferiority of 10PP-HD vaccine vs Synflorix™ vaccine across doses was assessed by computing the difference in percentages of subjects reporting Grade 3 fever causally related to vaccination, across doses, in the 10PP-HD Group minus 10PN Group. Non-inferiority was supported if one could rule out an increase in terms of percentage of subjects (10PP-HD Group minus 10PN Group) above 5% + half the incidence in the 10PN Group (= null hypothesis) as shown by a 1-sided P-value < 5%.

Comparison groups	10PP-HD/Infanrix hexa Group v Synflorix/Infanrix hexa Group
Number of subjects included in analysis	286
Analysis specification	Pre-specified
Analysis type	non-inferiority
P-value	= 0.003 <sup>[11]</sup>
Method	Kem Philips' statistical test
Parameter estimate	Difference in percentage
Point estimate	0
Confidence interval	
level	95 %
sides	2-sided
lower limit	-2.61
upper limit	2.64

Notes:

[11] - 1-sided P-value computed using Kem Philips'approach for ruling out an increase in % of subjects with fever > 40.0°C and causal relationship to vaccination above the boundary expressed as 5% + 0.5 \*rate in the 10PN group.

### **Secondary: Antibody concentrations against pneumococcal pneumolysin toxoid (dPly) and pneumococcal histidine triad protein D (PhtD) proteins – Primary Phase of the study.**

End point title	Antibody concentrations against pneumococcal pneumolysin toxoid (dPly) and pneumococcal histidine triad protein D (PhtD) proteins – Primary Phase of the study.
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End point description:

Antibody concentrations against dPly and PhtD (anti-dPly and anti-PhtD, respectively) were measured by enzyme-linked immunosorbent assay (ELISA), expressed as geometric mean concentrations (GMCs), in ELISA Units per milliliter (EL.U/mL). Cut-offs for seropositivity were concentrations higher than or equal to (≥)12 EL.U/mL for anti-dPly antibodies and ≥ 17 EL.U/mL for anti-PhtD antibodies. This outcome concerns results for the Primary Phase of the study.

End point type	Secondary
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End point timeframe:

At Month 3, e. g. one month post-Dose 3 of pneumococcal vaccine (10PP, Synflorix™ or Prevnar 13™)

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Prevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	130	134	136	131
Units: EL.U/mL				
geometric mean (confidence interval 95%)				
Anti-dPly – At Month 3	9408.42 (8182.15 to 10818.47)	12137.96 (10641.83 to 13844.44)	459.97 (398.31 to 531.18)	472.88 (404.48 to 552.86)
Anti-PhtD – At Month 3	1456.57 (1250.65 to 1696.39)	1996.61 (1734.17 to 2298.75)	523.61 (453.71 to 604.28)	552.01 (469.55 to 648.95)

### Statistical analyses

No statistical analyses for this end point

### Secondary: Antibody concentrations against protein D (anti-PD) – Primary Phase of the study.

End point title	Antibody concentrations against protein D (anti-PD) – Primary Phase of the study.
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End point description:

Antibody concentrations were measured by enzyme-linked immunosorbent assay (ELISA), expressed as geometric mean concentrations (GMCs), in ELISA Units per milliliter (EL.U/mL). The seropositivity cut-off of the assay was a concentration of anti-PD antibodies  $\geq 100$  EL.U/mL. This outcome concerns results for the Primary Phase of the study.

End point type	Secondary
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End point timeframe:

At Month 3, e. g. one month post-Dose 3 of pneumococcal vaccine (10PP, Synflorix™ or Prevnar 13™)

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Prevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	132	134	137	132
Units: EL.U/mL				
geometric mean (confidence interval 95%)				
Anti-PD – At Month 3	1135.7 (927.8 to 1390.1)	1323.3 (1099.7 to 1592.4)	1539 (1258.4 to 1882.1)	147 (112.3 to 192.3)

## Statistical analyses

No statistical analyses for this end point

### Secondary: Antibody concentrations against pneumococcal serotypes – Primary Phase of the study.

End point title	Antibody concentrations against pneumococcal serotypes – Primary Phase of the study.
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End point description:

Antibodies assessed for this outcome measure were those against the vaccine/cross-reactive pneumococcal serotypes 1, 3, 4, 5, 6A, 6B, 7F, 9V, 14, 18C, 19A, 19F and 23F (ANTI-1, -3, -4, -5, -6A, -6B, -7F, -9V, -14, -18C, -19A, -19F and -23F). Antibody concentrations were measured by 22F enzyme-linked immunosorbent assay (ELISA), expressed as geometric mean concentrations (GMCs), in micrograms per milliliter (µg/mL). The seropositivity cut-off of the assay was an antibody concentration  $\geq 0.05$  µg/mL. This outcome concerns results for the Primary Phase of the study.

End point type	Secondary
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End point timeframe:

At Month 3, e. g. one month post-Dose 3 of pneumococcal vaccine (10PP, Synflorix™ or Prevnar 13™)

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Prevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	132	135	137	132
Units: µg/mL				
geometric mean (confidence interval 95%)				
ANTI-1 At Month 3 (N=131,131,134,132)	1.57 (1.36 to 1.8)	1.58 (1.36 to 1.83)	1.49 (1.28 to 1.74)	2.2 (1.86 to 2.6)
ANTI-4 At Month 3 (N=131,133,133,132)	2.04 (1.74 to 2.39)	2.11 (1.83 to 2.43)	1.82 (1.55 to 2.14)	2.43 (2.05 to 2.88)
ANTI-5 At Month 3 (N=132,134,134,132)	2.46 (2.13 to 2.85)	2.55 (2.22 to 2.92)	2.31 (2 to 2.67)	2.77 (2.27 to 3.38)
ANTI-6B At Month 3 (N=130,129,133,132)	0.36 (0.29 to 0.46)	0.37 (0.31 to 0.45)	0.4 (0.32 to 0.51)	0.46 (0.37 to 0.57)
ANTI-7F At Month 3 (N=130,131,134,132)	2.12 (1.86 to 2.41)	2.21 (1.97 to 2.48)	2.2 (1.92 to 2.5)	2.94 (2.51 to 3.46)
ANTI-9V At Month 3 (N=132,135,137,132)	1.83 (1.59 to 2.12)	1.95 (1.73 to 2.2)	1.99 (1.72 to 2.3)	2.33 (1.96 to 2.76)
ANTI-14 At Month 3 (N=132,133,135,132)	3.57 (3.08 to 4.14)	3.72 (3.3 to 4.18)	3.91 (3.41 to 4.48)	4.18 (3.41 to 5.13)
ANTI-18C At Month 3 (N=132,132,135,132)	2.27 (1.93 to 2.67)	2.18 (1.84 to 2.59)	2.45 (2.04 to 2.95)	2.56 (2.14 to 3.07)
ANTI-19F At Month 3 (N=132,132,135,132)	4.29 (3.63 to 5.07)	4.13 (3.52 to 4.85)	4.51 (3.79 to 5.36)	3.5 (2.94 to 4.18)
ANTI-23F At Month 3 (N=131,133,135,132)	0.67 (0.54 to 0.82)	0.62 (0.5 to 0.78)	0.67 (0.54 to 0.82)	1.48 (1.17 to 1.88)
ANTI-3 At Month 3 (N=130,129,132,132)	0.05 (0.04 to 0.06)	0.06 (0.05 to 0.07)	0.05 (0.05 to 0.06)	2.47 (2.08 to 2.93)

ANTI-6A At Month 3 (N=129,132,133,132)	0.13 (0.1 to 0.16)	0.11 (0.09 to 0.14)	0.11 (0.09 to 0.14)	2.05 (1.69 to 2.5)
ANTI-19A At Month 3 (N=130,129,134,132)	0.18 (0.14 to 0.23)	0.17 (0.13 to 0.21)	0.16 (0.13 to 0.2)	2.77 (2.34 to 3.28)

## Statistical analyses

No statistical analyses for this end point

### Secondary: Number of subjects with any and Grade 3 solicited local symptoms – Primary Phase of the study.

End point title	Number of subjects with any and Grade 3 solicited local symptoms – Primary Phase of the study.
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End point description:

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

End point type	Secondary
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End point timeframe:

Within the 7-day (Days 0-6) periods post vaccination, after each dose (D) of the 3-dose primary vaccination course

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Prevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	146	142	144	142
Units: Subject				
Any Pain, post D1 (N=146;142;144;142)	52	46	53	40
Grade 3 Pain, post D1 (N=146;142;144;142)	0	2	3	0
Any Redness, post D1 (N=146;142;144;142)	59	58	52	51
Grade 3 Redness, post D1 (N=146;142;144;142)	0	0	3	2
Any Swelling, post D1 (N=146;142;144;142)	47	46	34	37
Grade 3 Swelling, post D1 (N=146;142;144;142)	3	5	3	6
Any Pain, post D2 (N=146;142;144;142)	52	49	42	43
Grade 3 Pain, post D2 (N=146;142;144;142)	2	0	1	2
Any Redness, post D2 (N=146;142;144;142)	67	67	63	59
Grade 3 Redness, post D2 (N=146;142;144;142)	2	2	3	0
Any Swelling, post D2 (N=146;142;144;142)	49	56	43	38
Grade 3 Swelling, post D2 (N=146;142;144;142)	5	4	2	3

Any Pain, post D3 (N=146;141;143;142)	41	35	37	45
Grade 3 Pain, post D3 (N=146;141;143;142)	2	3	1	1
Any Redness, post D3 (N=146;141;143;142)	65	65	58	65
Grade 3 Redness, post D3 (N=146;141;143;142)	3	2	0	3
Any Swelling, post D3 (N=146;141;143;142)	52	52	43	43
Grade 3 Swelling, post D3 (N=146;141;143;142)	6	3	3	5

## Statistical analyses

No statistical analyses for this end point

## Secondary: Number of subjects with any and Grade 3 solicited local symptoms – Booster Phase of the study.

End point title	Number of subjects with any and Grade 3 solicited local symptoms – Booster Phase of the study.
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End point description:

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

End point type	Secondary
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End point timeframe:

Within the 7-day (Days 0-6) period after booster vaccination

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Prevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	144	140	139	140
Units: Subject				
Any Pain, (N=144;140;139;140)	77	73	61	68
Grade 3 Pain (N=144;140;139;140)	7	6	3	4
Any Redness (N=144;140;139;140)	83	81	68	66
Grade 3 Redness (N=144;140;139;140)	11	15	12	7
Any Swelling (N=144;140;139;140)	70	55	49	59
Grade 3 Swelling (N=144;140;139;140)	8	8	7	10

## Statistical analyses

No statistical analyses for this end point

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

**solicited general symptoms with relationship to vaccination – Booster Phase of the study.**

End point title	Number of subjects with any, Grade 3 solicited general symptoms and solicited general symptoms with relationship to vaccination – Booster Phase of the study.
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## End point description:

Assessed solicited general symptoms were Drowsiness, Irritability, Loss of appetite (Loss Appet.) and Fever (rectal temperature higher than  $\geq$  38 degrees Celsius [ $^{\circ}$ C]). Any = Occurrence of the specified solicited general symptom, regardless of intensity and relationship to vaccination. Related = Occurrence of the specified symptom assessed by the investigator as causally related to vaccination. Grade 3 (G3) Drowsiness = Drowsiness that prevented normal activity. Grade 3 Irritability = Crying that could not be comforted/prevented normal activity. Grade 3 Loss of appetite = Subject did not eat at all. Grade 3 Fever = Axillary temperature higher than ( $>$ ) 40.0 $^{\circ}$ C.

End point type	Secondary
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## End point timeframe:

Within the 7-day (Days 0-6) period post vaccination after booster vaccination

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Prevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	144	140	139	140
Units: Subject				
Any Drowsiness (N=144;140;139;140)	77	64	66	73
G3 Drowsiness (N=144;140;139;140)	1	5	1	1
Related Drowsiness (N=144;140;139;140)	68	61	59	69
Any Irritability (N=144;140;139;140)	95	84	82	90
G3 Irritability (N=144;140;139;140)	12	8	4	8
Related Irritability (N=144;140;139;140)	86	82	76	83
Any Loss Appet. (N=144;140;139;140)	49	38	36	57
G3 Loss Appet. (N=144;140;139;140)	3	4	2	2
Related Loss Appet. (N=144;140;139;140)	42	38	33	49
Any Fever (N=144;140;139;140)	50	55	51	53
G3 Fever (N=144;140;139;140)	1	0	1	3
Related Fever (N=144;140;139;140)	44	52	45	47

**Statistical analyses**

No statistical analyses for this end point

**Secondary: Number of subjects with unsolicited adverse events (AEs) – Primary Phase of the study.**

End point title	Number of subjects with unsolicited adverse events (AEs) – Primary Phase of the study.
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## End point description:

An unsolicited AE was defined as any untoward medical occurrence in a clinical investigation subject, temporally associated with the use of a medicinal product, whether or not considered related to the medicinal product. An AE can therefore be any unfavourable and unintended sign (including an abnormal

laboratory finding), symptom, or disease (new or exacerbated) temporally associated with the use of a medicinal product. For the marketed products administered in the study, this also included failure to produce expected benefits (i.e. lack of efficacy), abuse or misuse of the product. Any = Occurrence of an unsolicited AE, regardless of intensity or relationship to vaccination.

End point type	Secondary
End point timeframe:	
Within the 31-day (Days 0-30) period post primary vaccination, across doses	

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Prevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	146	142	145	142
Units: Subject				
Any AE	55	68	64	61

## Statistical analyses

No statistical analyses for this end point

## Secondary: Number of subjects with unsolicited adverse events (AEs) – Booster Phase of the study.

End point title	Number of subjects with unsolicited adverse events (AEs) – Booster Phase of the study.
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End point description:

An unsolicited AE was defined as any untoward medical occurrence in a clinical investigation subject, temporally associated with the use of a medicinal product, whether or not considered related to the medicinal product. An AE can therefore be any unfavourable and unintended sign (including an abnormal laboratory finding), symptom, or disease (new or exacerbated) temporally associated with the use of a medicinal product. For the marketed products administered in the study, this also included failure to produce expected benefits (i.e. lack of efficacy), abuse or misuse of the product. Any = Occurrence of an unsolicited AE, regardless of intensity or relationship to vaccination.

End point type	Secondary
End point timeframe:	
Within the 31-day (Days 0-30) period post booster vaccination	

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Prevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	144	140	140	140
Units: Subject				
Any AE	40	26	27	34

## Statistical analyses

**Secondary: Antibody concentrations against pneumococcal pneumolysin toxoid (dPly) and pneumococcal histidine triad protein D (PhtD) proteins – Booster Phase of the study.**

End point title	Antibody concentrations against pneumococcal pneumolysin toxoid (dPly) and pneumococcal histidine triad protein D (PhtD) proteins – Booster Phase of the study.
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## End point description:

Antibody concentrations against dPly and PhtD (anti-dPly and anti-PhtD, respectively) were measured by enzyme-linked immunosorbent assay (ELISA), expressed as geometric mean concentrations (GMCs), in ELISA Units per milliliter (EL.U/mL). Cut-offs for seropositivity were concentrations higher than or equal to ( $\geq$ ) 12 EL.U/mL for anti-dPly antibodies and  $\geq$  17 EL.U/mL for anti-PhtD antibodies. This outcome concerns results for the Booster Phase of the study.

End point type	Secondary
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## End point timeframe:

At Months 10 and 11, e.g. prior to and at one month post booster vaccination with pneumococcal vaccine (10PP, Synflorix™ or Prevnar 13™)

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Prevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	130	129	129	129
Units: EL.U/mL				
geometric mean (confidence interval 95%)				
Anti-dPly – Month 10 (N=130,128,129,129)	6674.42 (5628.57 to 7914.6)	5592.85 (4750.83 to 6584.1)	495.02 (393.19 to 623.22)	737.71 (587.67 to 926.06)
Anti-dPly – Month 11 (N=129,129,129,125)	24720.4 (21863.04 to 27951.19)	29838.18 (26892.53 to 33106.48)	582.85 (463.4 to 733.09)	791.42 (628.23 to 997)
Anti-PhtD – Month 10 (N=130,128,129,129)	910.8 (718.85 to 1154)	829.12 (671.12 to 1024.32)	209.27 (153.16 to 285.95)	381.66 (274.64 to 530.39)
Anti-PhtD – Month 11 (N=129,129,129,125)	3528.25 (2952.68 to 4216.01)	3777.39 (3181.74 to 4484.55)	266.58 (190.06 to 373.91)	469.16 (335.29 to 656.46)

**Statistical analyses**

No statistical analyses for this end point

**Secondary: Antibody concentrations against protein D (anti-PD) – Booster Phase of the study.**

End point title	Antibody concentrations against protein D (anti-PD) – Booster Phase of the study.
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## End point description:

Antibody concentrations were measured by enzyme-linked immunosorbent assay (ELISA), expressed as geometric mean concentrations (GMCs), in ELISA Units per milliliter (EL.U/mL). The seropositivity cut-off of the assay was a concentration of anti-PD antibodies  $\geq$  100 EL.U/mL. This outcome concerns results for the Booster Phase of the study.



End point type	Secondary
End point timeframe:	
At Months 10 and 11, e.g. prior to and at one month post booster vaccination with pneumococcal vaccine (10PP, Synflorix™ or Prevnar 13™)	

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Prevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	131	130	131	129
Units: EL.U/mL				
geometric mean (confidence interval 95%)				
Anti-PD – Month 10 (N=131,130,131,129)	434.3 (365.5 to 516)	472.8 (403.1 to 554.5)	698.2 (593.7 to 821)	81 (69.8 to 93.9)
Anti-PD – Month 11 (N=128,130,131,127)	1655.4 (1398.2 to 1960)	1631 (1404.5 to 1894.2)	2394.2 (2045.7 to 2802.1)	85.7 (73.6 to 99.8)

## Statistical analyses

No statistical analyses for this end point

## Secondary: Antibody concentrations against pneumococcal serotypes – Booster Phase of the study.

End point title	Antibody concentrations against pneumococcal serotypes – Booster Phase of the study.
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End point description:

Antibodies assessed for this outcome measure were those against the vaccine/cross-reactive pneumococcal serotypes 1, 3, 4, 5, 6A, 6B, 7F, 9V, 14, 18C, 19A, 19F and 23F (ANTI-1, -3, -4, -5, -6A, -6B, -7F, -9V, -14, -18C, -19A, -19F and -23F). Antibody concentrations were measured by 22F enzyme-linked immunosorbent assay (ELISA), expressed as geometric mean concentrations (GMCs), in micrograms per milliliter (µg/mL). The seropositivity cut-off of the assay was an antibody concentration higher than or equal to ( $\geq$ ) 0.05 µg/mL. This outcome concerns results for the Booster Phase of the study.

End point type	Secondary
End point timeframe:	
At Months 10 and 11, e.g. prior to and at one month post booster vaccination with pneumococcal vaccine (10PP, Synflorix™ or Prevnar 13™)	

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Prevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	130	131	131	129
Units: µg/mL				
geometric mean (confidence interval 95%)				

ANTI-1 Month 10 (N=126,124,130,129)	0.3 (0.25 to 0.35)	0.3 (0.26 to 0.36)	0.26 (0.22 to 0.31)	0.49 (0.43 to 0.55)
ANTI-1 Month 11 (N=130,131,131,127)	2.62 (2.27 to 3.04)	2.61 (2.27 to 3)	2.41 (2.06 to 2.82)	3.78 (3.34 to 4.28)
ANTI-4 Month 10 (N=125,121,126,128)	0.5 (0.43 to 0.58)	0.51 (0.43 to 0.61)	0.58 (0.49 to 0.7)	0.4 (0.35 to 0.46)
ANTI-4 Month 11 (N=130,129,131,127)	4.1 (3.54 to 4.74)	3.9 (3.35 to 4.53)	3.98 (3.51 to 4.52)	4.36 (3.77 to 5.05)
ANTI-5 Month 10 (N=128,123,128,129)	0.59 (0.5 to 0.69)	0.58 (0.49 to 0.68)	0.55 (0.47 to 0.65)	0.85 (0.74 to 0.99)
ANTI-5 Month 11 (N=129,129,131,127)	3.48 (2.98 to 4.05)	3.44 (2.98 to 3.96)	3.33 (2.87 to 3.87)	7.52 (6.52 to 8.68)
ANTI-6B Month 10 (N=126,125,126,129)	0.45 (0.38 to 0.53)	0.47 (0.39 to 0.56)	0.46 (0.38 to 0.55)	0.25 (0.21 to 0.31)
ANTI-6B Month 11 (N=129,129,131,127)	2.04 (1.77 to 2.36)	1.96 (1.67 to 2.3)	2.28 (1.94 to 2.68)	3.11 (2.65 to 3.64)
ANTI-7F Month 10 (N=127,126,127,129)	0.94 (0.82 to 1.09)	1 (0.88 to 1.15)	0.98 (0.85 to 1.13)	1.34 (1.18 to 1.53)
ANTI-7F Month 11 (N=129,129,131,127)	4.72 (4.13 to 5.4)	4.7 (4.19 to 5.27)	4.87 (4.32 to 5.5)	7.68 (6.84 to 8.61)
ANTI-9V Month 10 (N=127,126,128,128)	0.77 (0.65 to 0.9)	0.97 (0.84 to 1.12)	0.99 (0.85 to 1.16)	0.58 (0.5 to 0.68)
ANTI-9V Month 11 (N=129,129,131,127)	4.48 (3.9 to 5.14)	4.91 (4.32 to 5.58)	5.2 (4.52 to 5.97)	6.57 (5.67 to 7.6)
ANTI-14 Month 10 (N=129,126,128,129)	1.36 (1.12 to 1.65)	1.43 (1.18 to 1.73)	1.57 (1.28 to 1.93)	2.06 (1.72 to 2.47)
ANTI-14 Month 11 (N=129,129,131,127)	6.06 (5.18 to 7.09)	7.18 (6.14 to 8.39)	6.63 (5.59 to 7.86)	11.43 (9.81 to 13.3)
ANTI-18C Month 10 (N=126,124,126,129)	0.75 (0.64 to 0.87)	0.76 (0.65 to 0.89)	0.92 (0.77 to 1.1)	0.75 (0.65 to 0.85)
ANTI-18C Month 11 (N=129,129,131,127)	6.68 (5.76 to 7.75)	6.38 (5.48 to 7.42)	7.65 (6.76 to 8.67)	6.4 (5.5 to 7.45)
ANTI-19F Month 10 (N=127,126,127,128)	1.25 (1.05 to 1.47)	1.13 (0.96 to 1.33)	1.3 (1.06 to 1.58)	0.66 (0.53 to 0.82)
ANTI-19F Month 11 (N=130,129,131,127)	6.73 (5.77 to 7.83)	7.22 (6.25 to 8.33)	7.84 (6.78 to 9.06)	7.43 (6.35 to 8.69)
ANTI-23F Month 10 (N=126,123,125,128)	0.46 (0.38 to 0.56)	0.47 (0.38 to 0.58)	0.57 (0.48 to 0.68)	0.37 (0.3 to 0.44)
ANTI-23F Month 11 (N=129,129,131,127)	3.2 (2.68 to 3.83)	3.2 (2.7 to 3.78)	3.72 (3.21 to 4.31)	7.1 (6.05 to 8.35)
ANTI-3 Month 10 (N=125,126,129,128)	0.05 (0.04 to 0.06)	0.05 (0.04 to 0.06)	0.05 (0.04 to 0.06)	0.32 (0.27 to 0.38)
ANTI-3 Month 11 (N=128,128,131,127)	0.06 (0.05 to 0.08)	0.05 (0.04 to 0.07)	0.06 (0.05 to 0.07)	1.83 (1.58 to 2.12)
ANTI-6A Month 10 (N=129,127,128,129)	0.19 (0.15 to 0.24)	0.18 (0.15 to 0.22)	0.2 (0.16 to 0.24)	0.7 (0.59 to 0.83)
ANTI-6A Month 11 (N=130,130,131,127)	0.89 (0.72 to 1.11)	0.74 (0.59 to 0.93)	0.99 (0.78 to 1.26)	7.77 (6.6 to 9.14)
ANTI-19A Month 10 (N=126,124,128,129)	0.18 (0.15 to 0.22)	0.15 (0.12 to 0.18)	0.18 (0.14 to 0.22)	0.57 (0.44 to 0.73)
ANTI-19A Month 11 (N=128,128,131,127)	1.12 (0.89 to 1.41)	1.03 (0.8 to 1.31)	1.23 (0.99 to 1.52)	7.77 (6.43 to 9.39)

## Statistical analyses

No statistical analyses for this end point

## Secondary: Titers for opsonophagocytic activity against pneumococcal serotypes –

**Primary Phase of the study.**

End point title	Titers for opsonophagocytic activity against pneumococcal serotypes – Primary Phase of the study.
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End point description:

Titers for opsonophagocytic activity assessed for this outcome measure were those for opsonophagocytic activity against the vaccine/cross-reactive pneumococcal serotypes 1, 3, 4, 5, 6A, 6B, 7F, 9V, 14, 18C, 19A, 19F and 23F (OPA-1, -3, -4, -5, -6A, -6B, -7F, -9V, -14, -18C, -19A, -19F and -23F). The Seropositivity cut-off of the assay was a titer for opsonophagocytic activity higher than or equal to ( $\geq$ ) 8, except for the OPA-19A for which the titer was  $\geq$  to the serotype-specific Lower Limit of Quantification (=143). This outcome concerns results for the Primary Phase of the study.

End point type	Secondary
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End point timeframe:

At Month 3, e. g. one month post-Dose 3 of pneumococcal vaccine (10PP, Synflorix™ or Prevnar 13™)

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Prenar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	63	57	66	63
Units: Titers				
geometric mean (confidence interval 95%)				
OPA-1 At Month 3 (N=63,57,65,62)	38.6 (24.6 to 60.5)	27.8 (17.5 to 44.2)	29.4 (19.4 to 44.5)	68.9 (47.5 to 99.9)
OPA-4 At Month 3 (N=60,57,66,63)	703.7 (533.5 to 928.2)	844.4 (660.8 to 1079)	819.2 (652.7 to 1028.1)	748.1 (509.9 to 1097.5)
OPA-5 At Month 3 (N=63,56,65,63)	47.3 (33.6 to 66.6)	60.6 (44.1 to 83.3)	50.3 (37.2 to 68.1)	72.9 (52.2 to 101.8)
OPA-6B At Month 3 (N=61,57,63,63)	399.6 (249.4 to 640.4)	454.7 (299.8 to 689.7)	409.7 (251 to 668.7)	884.9 (569.3 to 1375.5)
OPA-7F At Month 3 (N=61,55,64,62)	3212.6 (2434.8 to 4238.8)	3697.6 (2748.6 to 4974.1)	4234.2 (3203 to 5597.4)	7394.5 (4411.1 to 12395.7)
OPA-9V At Month 3 (N=60,56,64,62)	1942.4 (1381.9 to 2730.1)	1520.7 (1109.4 to 2084.5)	1983.6 (1507.2 to 2610.7)	2242.8 (1474.7 to 3411.1)
OPA-14 At Month 3 (N=59,56,62,61)	1405.3 (1060.3 to 1862.4)	1334.9 (1013.9 to 1757.4)	1575.3 (1143.5 to 2170.1)	2410.6 (1516.6 to 3831.5)
OPA-18C At Month 3 (N=58,52,59,58)	108.1 (72.6 to 161.2)	102.7 (70.3 to 150)	169.4 (121.9 to 235.4)	257.6 (179.4 to 369.9)
OPA-19F At Month 3 (N=61,56,64,63)	211.6 (139.6 to 320.7)	344.1 (240.6 to 492)	381.6 (256.8 to 566.9)	142.5 (98.9 to 205.4)
OPA-23F At Month 3 (N=60,54,63,63)	1275.6 (771.1 to 2110.3)	2170.3 (1559.9 to 3019.6)	1757.9 (1191.4 to 2593.7)	4437.1 (2874.9 to 6848.2)
OPA-3 At Month 3 (N=55,51,58,61)	5 (3.9 to 6.4)	4.5 (3.9 to 5.2)	4.6 (4 to 5.3)	88.4 (67.3 to 116)
OPA-6A At Month 3 (N=63,56,64,62)	43.2 (23.8 to 78.5)	59.6 (35.4 to 100.3)	44.7 (26.2 to 76.2)	1726 (1113.9 to 2674.4)
OPA-19A At Month 3 (N=33,34,36,49)	576.0 (340.6 to 974.3)	914.6 (586.8 to 1425.6)	905.2 (628.2 to 1304.5)	2915.3 (2270.3 to 3743.6)

## Statistical analyses

No statistical analyses for this end point

### Secondary: Titers for opsonophagocytic activity against pneumococcal serotypes – Booster Phase of the study.

End point title	Titers for opsonophagocytic activity against pneumococcal serotypes – Booster Phase of the study.
End point description:	
Titers for opsonophagocytic activity assessed for this outcome measure were those for opsonophagocytic activity against the vaccine/cross-reactive pneumococcal serotypes 1, 3, 4, 5, 6A, 6B, 7F, 9V, 14, 18C, 19A, 19F and 23F (OPA-1, -3, -4, -5, -6A, -6B, -7F, -9V, -14, -18C, -19A, -19F and -23F). The seropositivity cut-off of the assay was a titer for opsonophagocytic activity higher than or equal to ( $\geq$ ) 8, except for the OPA-19A for which the titer was $\geq$ to the serotype-specific Lower Limit of Quantification (=143). This outcome concerns results for the Booster Phase of the study.	
End point type	Secondary
End point timeframe:	
At Months 10 and 11, e.g. prior to and at one month post booster vaccination with pneumococcal vaccine (10PP, Synflorix™ or Prevnar 13™)	

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Prevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	68	58	68	62
Units: Titers				
geometric mean (confidence interval 95%)				
OPA-1 Month 10 (N=44,40,45,43)	12.4 (7.6 to 20.1)	13.2 (8.3 to 21.1)	18.7 (11.2 to 31.4)	10.3 (6.8 to 15.5)
OPA-1 Month 11 (N=68,56,66,59)	373.5 (253.3 to 550.8)	369.2 (252.8 to 539.4)	300 (213.2 to 422.1)	369.3 (281.4 to 484.6)
OPA-4 Month 10 (N=41,36,42,34)	36.2 (19.1 to 68.4)	48.3 (25.6 to 91)	122.3 (75 to 199.6)	18.5 (9.7 to 35.4)
OPA-4 Month 11 (N=68,57,68,62)	1370.7 (1034.2 to 1816.6)	1634.8 (1284.8 to 2080.3)	2043.3 (1609.1 to 2594.6)	2882.6 (2252.4 to 3689.1)
OPA-5 Month 10 (N=44,36,45,42)	9.3 (6.9 to 12.5)	10.5 (6.9 to 16.1)	9.5 (6.9 to 12.9)	8.7 (6.3 to 12)
OPA-5 Month 11 (N=68,56,66,61)	154.5 (111.8 to 213.4)	166.8 (118.4 to 234.8)	139.3 (102.3 to 189.8)	327.4 (254.2 to 421.8)
OPA-6B Month 10 (N=36,36,40,36)	103.2 (56.5 to 188.4)	174.5 (102.1 to 298.2)	136.9 (76.1 to 246.4)	113.8 (59.3 to 218.6)
OPA-6B Month 11 (N=66,58,68,62)	802.1 (531.7 to 1210)	700.3 (481.3 to 1018.8)	1013.8 (744.6 to 1380.3)	2731.1 (1972.7 to 3781.1)
OPA-7F Month 10 (N=42,38,46,40)	795.5 (560.1 to 1129.9)	886.4 (599.1 to 1311.5)	1322.5 (961.5 to 1819.1)	1895.8 (1420.6 to 2530)
OPA-7F Month 11 (N=68,55,64,61)	5819.9 (4473.1 to 7572.2)	5733.8 (4165 to 7893.5)	8336.9 (6357.9 to 10931.8)	18012.3 (13872.4 to 23387.7)
OPA-9V Month 10 (N=39,37,40,38)	281.5 (175.4 to 451.7)	340.8 (224 to 518.5)	433.7 (318.3 to 591)	510.4 (344.6 to 755.8)
OPA-9V Month 11 (N=68,56,67,61)	2001.6 (1506.6 to 2659.3)	2436.5 (1734.5 to 3422.6)	3711.7 (2881.2 to 4781.4)	6839.2 (5464.7 to 8559.3)

OPA-14 Month 10 (N=35,34,40,32)	275.8 (175.2 to 434.3)	208.1 (111.9 to 386.9)	355.6 (216.3 to 584.8)	483 (286.9 to 813.1)
OPA-14 Month 11 (N=68,55,68,61)	2216.9 (1678 to 2928.9)	2297.4 (1640 to 3218.4)	2488.9 (1942.5 to 3189)	3545 (2465.2 to 5097.8)
OPA-18C Month 10 (N=36,35,35,28)	5.1 (4 to 6.6)	6.3 (4.6 to 8.7)	6.7 (4.9 to 9)	4.8 (3.9 to 6.1)
OPA-18C Month 11 (N=68,55,62,60)	374.6 (271.2 to 517.4)	303.6 (197.7 to 466.3)	511 (356.7 to 732.2)	464.4 (327.7 to 658.1)
OPA-19F Month 10 (N=42,40,46,41)	18 (11.2 to 29)	31 (19.2 to 49.9)	30.7 (19.2 to 49.2)	7.4 (4.8 to 11.5)
OPA-19F Month 11 (N=67,56,66,61)	650.2 (444.1 to 951.9)	778.9 (500.4 to 1212.3)	1053.9 (812.6 to 1366.8)	767.1 (582.1 to 1010.9)
OPA-23F Month 10 (N=41,35,42,37)	189.6 (83.5 to 430.5)	281.4 (123.2 to 642.8)	242.5 (106.5 to 552.2)	367.4 (150.3 to 897.8)
OPA-23F Month 11 (N=68,56,66,60)	3621 (2534.5 to 5173.2)	2563.6 (1831.6 to 3588.2)	4465.4 (3368.6 to 5919.3)	32508 (23754.9 to 44486.3)
OPA-3 Month 10 (N=31,23,30,24)	6.7 (4.7 to 9.5)	8.3 (4.9 to 14)	6.3 (4.6 to 8.8)	12 (7.6 to 19.1)
OPA-3 Month 11 (N=64,48,65,60)	7.8 (5.7 to 10.6)	7.8 (5.4 to 11.2)	9.2 (6.8 to 12.5)	333.9 (260.3 to 428.3)
OPA-6A Month 10 (N=41,35,42,35)	26.5 (13.2 to 52.9)	23.3 (10.3 to 53.1)	18.7 (9.8 to 35.7)	129.7 (61.2 to 274.7)
OPA-6A Month 11 (N=64,57,67,61)	163.1 (94 to 283.1)	190 (106.6 to 338.4)	276.2 (174.8 to 436.6)	4855.3 (3606.3 to 6536.8)
OPA-19A Month 10 (N=38,30,34,46)	211.8 (139.2 to 322.4)	262.0 (157.8 to 435.1)	315.6 (193.5 to 514.6)	776.3 (542.2 to 1111.7)
OPA-19A Month 11 (N=47,42,53,47)	2006.3 (1539.1 to 2615.3)	2609.5 (1919.1 to 3548.2)	2699.1 (2262.2 to 3220.5)	7137.0 (5909.4 to 8619.6)

## Statistical analyses

No statistical analyses for this end point

## Secondary: Concentrations of antibodies against diphtheria (anti-D) and tetanus (anti-T) – Primary Phase of the study.

End point title	Concentrations of antibodies against diphtheria (anti-D) and tetanus (anti-T) – Primary Phase of the study.
End point description: Antibody concentrations were expressed as geometric mean concentrations (GMCs) in International Units per milliliter (IU/mL). The seroprotection cut-off of the assay was an antibody concentration higher than or equal to ( $\geq$ ) 0.1 IU/mL. This outcome concerns results for the Primary Phase of the study.	
End point type	Secondary
End point timeframe: At Month 3, e. g. one month post-Dose 3 of pneumococcal vaccine (10PP, Synflorix™ or Prevnar 13™)	

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Prevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	59	54	57	60
Units: IU/mL				
geometric mean (confidence interval 95%)				
ANTI-D At Month 3	3.251 (2.729 to 3.873)	3.185 (2.556 to 3.968)	3.353 (2.756 to 4.08)	2.933 (2.464 to 3.492)
ANTI-T At Month 3	2.579 (2.187 to 3.041)	2.193 (1.819 to 2.643)	2.252 (1.93 to 2.627)	1.416 (1.166 to 1.719)

## Statistical analyses

No statistical analyses for this end point

## Secondary: Concentrations of antibodies against diphtheria (anti-D) and tetanus (anti-T) – Booster Phase of the study.

End point title	Concentrations of antibodies against diphtheria (anti-D) and tetanus (anti-T) – Booster Phase of the study.
End point description:	
Antibody concentrations were expressed as geometric mean concentrations (GMCs) in International Units per milliliter (IU/mL). The seroprotection cut-off of the assay was an antibody concentration higher than or equal to ( $\geq$ ) 0.1 IU/mL. This outcome concerns results for the Booster Phase of the study.	
End point type	Secondary
End point timeframe:	
At Months 10 and 11, e.g. prior to and at one month post booster vaccination with pneumococcal vaccine (10PP, Synflorix™ or Prevnar 13™)	

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Prevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	45	50	46	49
Units: IU/mL				
geometric mean (confidence interval 95%)				
ANTI-D At Month 10 (N=43,50,42,49)	0.731 (0.575 to 0.929)	0.587 (0.461 to 0.747)	0.651 (0.507 to 0.836)	0.614 (0.497 to 0.758)
ANTI-D At Month 11 (N=45,47,46,48)	9.872 (8.191 to 11.898)	8.688 (7.026 to 10.743)	9.742 (7.991 to 11.878)	8.29 (6.943 to 9.899)
ANTI-T At Month 10 (N=43,50,42,49)	0.815 (0.665 to 0.999)	0.727 (0.57 to 0.927)	0.726 (0.604 to 0.874)	0.371 (0.28 to 0.493)
ANTI-T At Month 11 (N=45,47,46,48)	8.725 (7.259 to 10.488)	8.703 (7.415 to 10.215)	9.929 (8.653 to 11.394)	5.04 (4.074 to 6.234)

## Statistical analyses

**Secondary: Concentrations of antibodies against pertussis toxoid (anti-PT), filamentous haemagglutinin (anti-FHA), pertactin (anti-PRN) – Primary Phase of the study.**

End point title	Concentrations of antibodies against pertussis toxoid (anti-PT), filamentous haemagglutinin (anti-FHA), pertactin (anti-PRN) – Primary Phase of the study.
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## End point description:

Antibody concentrations were measured by enzyme-linked immunosorbent assay (ELISA), expressed as geometric mean concentrations (GMCs) in Elisa Units per milliliter (EL.U/mL). The seropositivity cut-off of the assay was an antibody concentration higher than or equal to ( $\geq$ ) 5 EL.U/mL. This outcome concerns results for the Primary Phase of the study.

End point type	Secondary
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## End point timeframe:

At Month 3, e. g. one month post-Dose 3 of pneumococcal vaccine (10PP, Synflorix™ or Pevnar 13™)

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Pevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	59	54	57	60
Units: EL.U/mL				
geometric mean (confidence interval 95%)				
ANTI-PT At Month 3 (N=59,54,57,59)	69 (59.9 to 79.4)	64.3 (54.8 to 75.3)	70 (61.6 to 79.4)	64.6 (53.2 to 78.3)
ANTI-FHA At Month 3 (N=59,54,57,60)	187.9 (159 to 222.1)	178.1 (150.2 to 211.2)	157.1 (132.5 to 186.3)	188.6 (156.4 to 227.5)
ANTI-PRN At Month 3 (N=59,54,57,60)	95.1 (79.2 to 114.4)	79.5 (63.6 to 99.2)	91.4 (75.2 to 111.1)	87.2 (70.6 to 107.5)

**Statistical analyses**

No statistical analyses for this end point

**Secondary: Concentrations of antibodies against pertussis toxoid (anti-PT), filamentous haemagglutinin (anti-FHA), pertactin (anti-PRN) – Booster Phase of the study.**

End point title	Concentrations of antibodies against pertussis toxoid (anti-PT), filamentous haemagglutinin (anti-FHA), pertactin (anti-PRN) – Booster Phase of the study.
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## End point description:

Antibody concentrations were measured by enzyme-linked immunosorbent assay (ELISA), expressed as geometric mean concentrations (GMCs) in Elisa Units per milliliter (EL.U/mL). The seropositivity cut-off of the assay was an antibody concentration higher than or equal to ( $\geq$ ) 5 EL.U/mL. This outcome concerns results for the Booster Phase of the study.

End point type	Secondary
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## End point timeframe:

At Months 10 and 11, e.g. prior to and at one month post booster vaccination with pneumococcal vaccine (10PP, Synflorix™ or Pevnar 13™)

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Prevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	45	50	46	49
Units: EL.U/mL				
geometric mean (confidence interval 95%)				
ANTI-PT At Month 10 (N=43,50,42,49)	17.5 (13.4 to 22.9)	12.7 (9.9 to 16.3)	12.1 (9.7 to 15.1)	12.2 (9.6 to 15.5)
ANTI-PT At Month 11 (N=45,47,46,48)	93.8 (75.4 to 116.6)	90.6 (73.5 to 111.7)	95.7 (80.1 to 114.3)	85.2 (70.3 to 103.2)
ANTI-FHA At Month 10 (N=43,50,42,49)	63 (50.3 to 78.9)	51.7 (40.1 to 66.6)	48.5 (38.3 to 61.5)	54.2 (42.5 to 69.2)
ANTI-FHA At Month 11 (N=45,47,46,48)	359.4 (291.3 to 443.5)	380.1 (311.9 to 463.2)	308.4 (252 to 377.3)	376.7 (322.6 to 439.8)
ANTI-PRN At Month 10 (N=43,50,42,49)	21.8 (15.8 to 30.1)	16.1 (11.7 to 22.2)	14.3 (10.7 to 19.3)	14.3 (10.6 to 19.3)
ANTI-PRN At Month 11 (N=45,47,46,48)	294.8 (227 to 382.8)	228.5 (174.2 to 299.7)	224.2 (180 to 279.1)	197.3 (154.3 to 252.2)

## Statistical analyses

No statistical analyses for this end point

## Secondary: Concentrations of antibodies against hepatitis B (anti-HBs) – Primary Phase of the study.

End point title	Concentrations of antibodies against hepatitis B (anti-HBs) – Primary Phase of the study.
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End point description:

Antibody concentrations were expressed as geometric mean concentrations (GMCs) in milli-International Units per milliliter (mIU/mL). The seroprotection cut-off of the assay was an antibody concentration higher than or equal to ( $\geq$ ) 10 mIU/mL. This outcome concerns results for the Primary Phase of the study. Note that the percentage of subjects with concentration  $\geq$  10 mIU/mL was overestimated due to the use of in-house assay overestimating concentrations between 10-100 mIU/mL. Accordingly, GMCs were also overestimated.

End point type	Secondary
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End point timeframe:

At Month 3, e. g. one month post-Dose 3 of pneumococcal vaccine (10PP, Synflorix™ or Prevnar 13™)

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Prevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	50	43	47	48
Units: mIU/mL				
geometric mean (confidence interval 95%)				



ANTI-HBs At Month 3	676.7 (466.2 to 982.3)	619.1 (386.5 to 991.5)	719.8 (537 to 965)	877.4 (597 to 1289.4)
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## Statistical analyses

No statistical analyses for this end point

## Secondary: Concentrations of antibodies against hepatitis B (anti-HBs) – Booster Phase of the study.

End point title	Concentrations of antibodies against hepatitis B (anti-HBs) – Booster Phase of the study.
End point description: Antibody concentrations were expressed as geometric mean concentrations (GMCs) in milli-International Units per milliliter (mIU/mL). The seroprotection cut-off of the assay was an antibody concentration higher than or equal to ( $\geq$ ) 10 mIU/mL. This outcome concerns results for the Booster Phase of the study. * A decrease in the specificity of the anti-HB Enzyme-Linked ImmunoSorbent Assay (ELISA) had been observed in some studies for low levels of antibody (10-100 mIU/mL). The table shows updated results following partial or complete reanalysis. The retest has been performed in using Food and Drug Administration (FDA)-approved ChemiLuminescence ImmunoAssay (CLIA) commercial assay Centaur™.	
End point type	Secondary
End point timeframe: At Months 10 and 11, e.g. prior to and at one month post booster vaccination with pneumococcal vaccine (10PP, Synflorix™ or Prevnar 13™)	

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Prevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	60	65	62	64
Units: mIU/mL				
geometric mean (confidence interval 95%)				
ANTI-HBs At Month 10 (N=50,46,47,54)	299.2 (199 to 449.8)	287.1 (195.1 to 422.4)	166.6 (105.2 to 263.8)	174.5 (113.5 to 268.2)
ANTI-HBs At Month 11 (N=60,65,62,64)	4110.9 (2576.5 to 6558.9)	4234.8 (2961.4 to 6055.7)	3142.4 (2151.1 to 4590.6)	3116.4 (2142.5 to 4533)

## Statistical analyses

No statistical analyses for this end point

## Secondary: Concentrations of antibodies against polyribosyl ribitol phosphate (anti-PRP) – Primary Phase of the study.

End point title	Concentrations of antibodies against polyribosyl ribitol phosphate (anti-PRP) – Primary Phase of the study.
End point description: Antibody concentrations were expressed as geometric mean concentrations (GMCs) in microgram per	

milliliter (µg/mL). The seroprotection cut-off of the assay was an antibody concentration higher than or equal to (≥) 0.15 µg/mL or 1 µg/mL. This outcome concerns results for the Primary Phase of the study.

End point type	Secondary
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End point timeframe:

At Month 3, e. g. one month post-Dose 3 of pneumococcal vaccine (10PP, Synflorix™ or Prevnar 13™)

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Prevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	59	54	57	60
Units: µg/mL				
geometric mean (confidence interval 95%)				
ANTI-PRP At Month 3	1.92 (1.433 to 2.573)	1.975 (1.39 to 2.806)	1.813 (1.33 to 2.472)	0.963 (0.69 to 1.344)

## Statistical analyses

No statistical analyses for this end point

## Secondary: Concentrations of antibodies against polyribosyl ribitol phosphate (anti-PRP) – Booster Phase of the study.

End point title	Concentrations of antibodies against polyribosyl ribitol phosphate (anti-PRP) – Booster Phase of the study.
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End point description:

Antibody concentrations were expressed as geometric mean concentrations (GMCs) in microgram per milliliter (µg/mL). The seroprotection cut-off of the assay was an antibody concentration higher than or equal to (≥) 0.15 µg/mL or 1 µg/mL. This outcome concerns results for the Booster Phase of the study.

End point type	Secondary
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End point timeframe:

At Months 10 and 11, e.g. prior to and at one month post booster vaccination with pneumococcal vaccine (10PP, Synflorix™ or Prevnar 13™)

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Prevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	45	50	46	49
Units: µg/mL				
geometric mean (confidence interval 95%)				
ANTI-PRP At Month 10 (N=43,50,42,49)	0.39 (0.279 to 0.546)	0.446 (0.306 to 0.651)	0.503 (0.36 to 0.703)	0.272 (0.193 to 0.384)
ANTI-PRP At Month 11 (N=45,47,46,48)	16.961 (11.652 to 24.689)	28.168 (20.58 to 38.554)	24.549 (16.379 to 36.795)	12.853 (8.301 to 19.899)

## Statistical analyses

No statistical analyses for this end point

### Secondary: Titers of antibodies against poliovirus types 1, 2 and 3 (anti-1, anti-2 and anti-3) – Primary Phase of the study.

End point title	Titers of antibodies against poliovirus types 1, 2 and 3 (anti-1, anti-2 and anti-3) – Primary Phase of the study.
End point description: Antibody titers were measured by virus microneutralization test, expressed as geometric mean titers (GMTs). The cut-off of the assay for anti-1, anti-2 and anti-3 antibody was a titer higher than or equal to ( $\geq$ ) 8. This outcome concerns results for the Primary Phase of the study.	
End point type	Secondary
End point timeframe: At Month 3, e. g. one month post-Dose 3 of pneumococcal vaccine (10PP, Synflorix™ or Pevnar 13™)	

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Pevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	45	37	43	42
Units: Titers				
geometric mean (confidence interval 95%)				
ANTI-Polio 1 At Month 3 (N= 45,37,43,41)	175.7 (124.5 to 247.8)	138.2 (91 to 209.8)	190.3 (115.7 to 312.9)	173.7 (128.9 to 234)
ANTI-Polio 2 At Month 3 (N= 44,28,36,42)	134.3 (86.3 to 209.1)	114.7 (68.6 to 192)	177.6 (102.5 to 307.8)	148.4 (101.1 to 217.9)
ANTI-Polio 3 At Month 3 (N= 45,37,41,41)	445.7 (290.9 to 682.9)	432.2 (273 to 684.3)	552.7 (361.1 to 846.1)	538.6 (413.6 to 701.4)

## Statistical analyses

No statistical analyses for this end point

### Secondary: Titers of antibodies against poliovirus types 1, 2 and 3 (anti-1, anti-2 and anti-3) – Booster Phase of the study.

End point title	Titers of antibodies against poliovirus types 1, 2 and 3 (anti-1, anti-2 and anti-3) – Booster Phase of the study.
End point description: Antibody titers were measured by virus microneutralization test, expressed as geometric mean titers (GMTs). The cut-off of the assay for anti-1, anti-2 and anti-3 antibody was a titer higher than or equal to ( $\geq$ ) 8. This outcome concerns results for the Booster Phase of the study.	
End point type	Secondary

End point timeframe:

At Months 10 and 11, e.g. prior to and at one month post booster vaccination with pneumococcal vaccine (10PP, Synflorix™ or Prevnar 13™)

End point values	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group	Prevnar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	42	46	36	43
Units: Titers				
geometric mean (confidence interval 95%)				
ANTI-Polio 1 At Month 10 (N=35,37,32,41)	41.7 (25.9 to 67.3)	58.3 (35.6 to 95.6)	55.5 (33.9 to 90.9)	55.4 (38.3 to 80.1)
ANTI-Polio 1 At Month 11 (N=40,41,30,41)	1116 (696.1 to 1789.3)	1222 (737.1 to 2026.1)	1149.6 (764.3 to 1729)	1233.2 (898.9 to 1691.9)
ANTI-Polio 2 At Month 10 (N=39,46,36,43)	50.4 (33.4 to 76)	55.9 (35.6 to 87.8)	61 (40.2 to 92.7)	66.8 (48.6 to 91.9)
ANTI-Polio 2 At Month 11 (N=42,40,34,38)	1998.1 (1415 to 2821.5)	2332.2 (1739 to 3127.6)	2048.3 (1484.6 to 2825.9)	2284.8 (1705.1 to 3061.6)
ANTI-Polio 3 At Month 10 (N=36,40,33,38)	167.7 (113.3 to 248.3)	104.9 (68.7 to 160.2)	125.4 (81.2 to 193.6)	93.1 (66.2 to 130.9)
ANTI-Polio 3 At Month 11 (N=41,37,34,39)	2995.8 (2081.1 to 4312.6)	3626.3 (2623.6 to 5012.2)	2696.8 (1913.7 to 3800.4)	2820 (2127.9 to 3737.4)

## Statistical analyses

No statistical analyses for this end point

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

End point title	Number of subjects with serious adverse events (SAEs).
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End point description:

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

End point type	Secondary
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End point timeframe:

During the entire study period (Months 0-11)

<b>End point values</b>	10PP- LD/Infanrix hexa Group	10PP- HD/Infanrix hexa Group	Synflorix/Infan- rix hexa Group	Prev- nar 13/Infanrix hexa Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	146	142	145	142
Units: Subject				
Any SAE	13	9	21	17

### Statistical analyses

No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Solicited symptoms: during the 7 days post-primary vaccination and post-booster vaccination.

Unsolicited AEs during 31 days post-primary vaccination and post booster vaccination. SAEs: during the entire study period (Months 0-11).

Adverse event reporting additional description:

Solicited symptoms results are presented only for subjects for whom results were available. Note: the occurrences (all) numbers were not calculated during the analysis: data entered are equal to the subject affected numbers.

Assessment type	Systematic
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### Dictionary used

Dictionary name	MedDRA
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Dictionary version	18.1
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### Reporting groups

Reporting group title	10PP-LD/Infanrix hexa Group
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Reporting group description:

This group consisted in infants aged 6-14 weeks at primary vaccination who received a 3-dose primary vaccination of the GSK 2189242A (or 10PP) vaccine combined with low doses (LD) of pneumococcal pneumolysin toxoid proteins (dPly) and pneumococcal histidine protein D (PhtD) co-administered with the *Infanrix hexa*<sup>™</sup> vaccine at Study Months 0, 1 and 2. Subjects also received a booster dose of each of these vaccines, administered at Study Month 10.

Reporting group title	10PP-HD/Infanrix hexa Group
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Reporting group description:

This group consisted in infants aged 6-14 weeks at primary vaccination who received a 3-dose primary vaccination of the GSK 2189242A (or 10PP) vaccine combined with high doses (HD) of pneumococcal pneumolysin toxoid proteins (dPly) and pneumococcal histidine protein D (PhtD), co-administered with the *Infanrix hexa*<sup>™</sup> vaccine at Study Months 0, 1 and 2. Subjects also received a booster dose of each of these vaccines, administered at Study Month 10.

Reporting group title	Synflorix/Infanrix hexa Group
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Reporting group description:

This group consisted in infants aged 6-14 weeks at primary vaccination who received a 3-dose primary vaccination of *Synflorix*<sup>™</sup> vaccine, co-administered with the *Infanrix hexa*<sup>™</sup> vaccine at Study Months 0, 1 and 2. Subjects also received a booster dose of each of these vaccines, administered at Study Month 10.

Reporting group title	Prevnar 13/Infanrix hexa Group
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Reporting group description:

This group consisted in infants aged 6-14 weeks at primary vaccination who received a 3-dose primary vaccination of *Prevnar 13*<sup>™</sup> vaccine, co-administered with the *Infanrix hexa*<sup>™</sup> vaccine at Study Months 0, 1 and 2. Subjects also received a booster dose of each of these vaccines, administered at Study Month 10.

Serious adverse events	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group
Total subjects affected by serious adverse events			
subjects affected / exposed	13 / 146 (8.90%)	9 / 142 (6.34%)	21 / 145 (14.48%)
number of deaths (all causes)	0	0	0
number of deaths resulting from adverse events			
Injury, poisoning and procedural complications			

Concussion			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	3 / 145 (2.07%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 3
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Thermal burn			
subjects affected / exposed	1 / 146 (0.68%)	1 / 142 (0.70%)	0 / 145 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Accidental exposure to product by child			
subjects affected / exposed	1 / 146 (0.68%)	0 / 142 (0.00%)	0 / 145 (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
Fall			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Head injury			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	0 / 145 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Skull fracture			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	0 / 145 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Congenital, familial and genetic disorders			
Phimosis			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Vascular disorders			
Haematoma			

subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
<b>Nervous system disorders</b>			
Febrile convulsion			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	0 / 145 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Burning sensation			
subjects affected / exposed	0 / 146 (0.00%)	1 / 142 (0.70%)	0 / 145 (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
Epilepsy			
subjects affected / exposed	0 / 146 (0.00%)	1 / 142 (0.70%)	0 / 145 (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
Hypotonia			
subjects affected / exposed	1 / 146 (0.68%)	0 / 142 (0.00%)	0 / 145 (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
Hypotonic-hyporesponsive episode			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 0	0 / 0	1 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
<b>General disorders and administration site conditions</b>			
Localised oedema			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
<b>Gastrointestinal disorders</b>			
Aphthous ulcer			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0



Diarrhoea			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Dyspepsia			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Rectal fissure			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Umbilical hernia			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	0 / 145 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Respiratory, thoracic and mediastinal disorders			
Apnoea			
subjects affected / exposed	1 / 146 (0.68%)	0 / 142 (0.00%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Skin and subcutaneous tissue disorders			
Skin discolouration			
subjects affected / exposed	1 / 146 (0.68%)	0 / 142 (0.00%)	0 / 145 (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
Urticaria			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	0 / 145 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Psychiatric disorders			
Psychomotor retardation			

subjects affected / exposed	1 / 146 (0.68%)	0 / 142 (0.00%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Breath holding			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	0 / 145 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Renal and urinary disorders			
Nephrolithiasis			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	0 / 145 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Infections and infestations			
Bronchitis			
subjects affected / exposed	1 / 146 (0.68%)	1 / 142 (0.70%)	2 / 145 (1.38%)
occurrences causally related to treatment / all	0 / 1	0 / 1	0 / 2
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Otitis media			
subjects affected / exposed	3 / 146 (2.05%)	0 / 142 (0.00%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 3	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Pneumonia			
subjects affected / exposed	2 / 146 (1.37%)	1 / 142 (0.70%)	0 / 145 (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
Gastroenteritis			
subjects affected / exposed	1 / 146 (0.68%)	1 / 142 (0.70%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 1	0 / 1	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Gastroenteritis rotavirus			
subjects affected / exposed	1 / 146 (0.68%)	1 / 142 (0.70%)	0 / 145 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Laryngitis			

subjects affected / exposed	0 / 146 (0.00%)	1 / 142 (0.70%)	0 / 145 (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
Bacterial infection			
subjects affected / exposed	1 / 146 (0.68%)	0 / 142 (0.00%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Pyelonephritis acute			
subjects affected / exposed	0 / 146 (0.00%)	1 / 142 (0.70%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Respiratory tract infection			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Urinary tract infection			
subjects affected / exposed	1 / 146 (0.68%)	1 / 142 (0.70%)	0 / 145 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Campylobacter gastroenteritis			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	0 / 145 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Conjunctivitis			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	0 / 145 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Exanthema subitum			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	0 / 145 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Gastroenteritis Escherichia coli			

subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Gastroenteritis viral			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	0 / 145 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Hand-foot-and-mouth disease			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Nasopharyngitis			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Pyelonephritis			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Rhinitis			
subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	0 / 145 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Viral infection			
subjects affected / exposed	0 / 146 (0.00%)	1 / 142 (0.70%)	0 / 145 (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
Metabolism and nutrition disorders			
Hypoglycaemia			
subjects affected / exposed	0 / 146 (0.00%)	1 / 142 (0.70%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Decreased appetite			

subjects affected / exposed	0 / 146 (0.00%)	0 / 142 (0.00%)	1 / 145 (0.69%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Type 1 diabetes mellitus			
subjects affected / exposed	0 / 146 (0.00%)	1 / 142 (0.70%)	0 / 145 (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>	Prevnar 13/Infanrix hexa Group		
Total subjects affected by serious adverse events			
subjects affected / exposed	17 / 142 (11.97%)		
number of deaths (all causes)	0		
number of deaths resulting from adverse events			
Injury, poisoning and procedural complications			
Concussion			
subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Thermal burn			
subjects affected / exposed	1 / 142 (0.70%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Accidental exposure to product by child			
subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Fall			
subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Head injury			

subjects affected / exposed	1 / 142 (0.70%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Skull fracture			
subjects affected / exposed	1 / 142 (0.70%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Congenital, familial and genetic disorders			
Phimosis			
subjects affected / exposed	1 / 142 (0.70%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Vascular disorders			
Haematoma			
subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Nervous system disorders			
Febrile convulsion			
subjects affected / exposed	2 / 142 (1.41%)		
occurrences causally related to treatment / all	0 / 2		
deaths causally related to treatment / all	0 / 0		
Burning sensation			
subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Epilepsy			
subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Hypotonia			
subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		

Hypotonic-hyporesponsive episode subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
General disorders and administration site conditions			
Localised oedema subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Gastrointestinal disorders			
Aphthous ulcer subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Diarrhoea subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Dyspepsia subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Rectal fissure subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Umbilical hernia subjects affected / exposed	1 / 142 (0.70%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Respiratory, thoracic and mediastinal disorders			
Apnoea			

subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Skin and subcutaneous tissue disorders			
Skin discolouration			
subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Urticaria			
subjects affected / exposed	1 / 142 (0.70%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Psychiatric disorders			
Psychomotor retardation			
subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Breath holding			
subjects affected / exposed	1 / 142 (0.70%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Renal and urinary disorders			
Nephrolithiasis			
subjects affected / exposed	1 / 142 (0.70%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Infections and infestations			
Bronchitis			
subjects affected / exposed	3 / 142 (2.11%)		
occurrences causally related to treatment / all	0 / 3		
deaths causally related to treatment / all	0 / 0		
Otitis media			



subjects affected / exposed	0 / 142 (0.00%)			
occurrences causally related to treatment / all	0 / 0			
deaths causally related to treatment / all	0 / 0			
Pneumonia				
subjects affected / exposed	1 / 142 (0.70%)			
occurrences causally related to treatment / all	0 / 1			
deaths causally related to treatment / all	0 / 0			
Gastroenteritis				
subjects affected / exposed	0 / 142 (0.00%)			
occurrences causally related to treatment / all	0 / 0			
deaths causally related to treatment / all	0 / 0			
Gastroenteritis rotavirus				
subjects affected / exposed	1 / 142 (0.70%)			
occurrences causally related to treatment / all	0 / 1			
deaths causally related to treatment / all	0 / 0			
Laryngitis				
subjects affected / exposed	2 / 142 (1.41%)			
occurrences causally related to treatment / all	0 / 2			
deaths causally related to treatment / all	0 / 0			
Bacterial infection				
subjects affected / exposed	0 / 142 (0.00%)			
occurrences causally related to treatment / all	0 / 0			
deaths causally related to treatment / all	0 / 0			
Pyelonephritis acute				
subjects affected / exposed	0 / 142 (0.00%)			
occurrences causally related to treatment / all	0 / 0			
deaths causally related to treatment / all	0 / 0			
Respiratory tract infection				
subjects affected / exposed	1 / 142 (0.70%)			
occurrences causally related to treatment / all	0 / 1			
deaths causally related to treatment / all	0 / 0			
Urinary tract infection				

subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Campylobacter gastroenteritis			
subjects affected / exposed	1 / 142 (0.70%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Conjunctivitis			
subjects affected / exposed	1 / 142 (0.70%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Exanthema subitum			
subjects affected / exposed	1 / 142 (0.70%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Gastroenteritis Escherichia coli			
subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Gastroenteritis viral			
subjects affected / exposed	1 / 142 (0.70%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Hand-foot-and-mouth disease			
subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Nasopharyngitis			
subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Pyelonephritis			

subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Rhinitis			
subjects affected / exposed	1 / 142 (0.70%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Viral infection			
subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Metabolism and nutrition disorders			
Hypoglycaemia			
subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Decreased appetite			
subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Type 1 diabetes mellitus			
subjects affected / exposed	0 / 142 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		

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

<b>Non-serious adverse events</b>	10PP-LD/Infanrix hexa Group	10PP-HD/Infanrix hexa Group	Synflorix/Infanrix hexa Group
Total subjects affected by non-serious adverse events			
subjects affected / exposed	141 / 146 (96.58%)	137 / 142 (96.48%)	139 / 145 (95.86%)
General disorders and administration site conditions			
Pain (primary vaccination)	Additional description: Symptom reported during the 7-day post-primary vaccination periods, across doses		

subjects affected / exposed <sup>[1]</sup>	75 / 146 (51.37%)	73 / 142 (51.41%)	72 / 144 (50.00%)
occurrences (all)	75	73	72
Redness (primary vaccination)	Additional description: Symptom reported during the 7-day post-primary vaccination periods, across doses		
subjects affected / exposed <sup>[2]</sup>	96 / 146 (65.75%)	97 / 142 (68.31%)	88 / 144 (61.11%)
occurrences (all)	96	97	88
Swelling (primary vaccination)	Additional description: Symptom reported during the 7-day post-primary vaccination periods, across doses		
subjects affected / exposed <sup>[3]</sup>	82 / 146 (56.16%)	74 / 142 (52.11%)	60 / 144 (41.67%)
occurrences (all)	82	74	60
Drowsiness (primary vaccination)	Additional description: Symptom reported during the 7-day post-primary vaccination periods, across doses		
subjects affected / exposed <sup>[4]</sup>	107 / 146 (73.29%)	96 / 142 (67.61%)	98 / 144 (68.06%)
occurrences (all)	107	96	98
Irritability (primary vaccination)	Additional description: Symptom reported during the 7-day post-primary vaccination periods, across doses		
alternative assessment type: Non-systematic			
subjects affected / exposed <sup>[5]</sup>	118 / 146 (80.82%)	113 / 142 (79.58%)	110 / 144 (76.39%)
occurrences (all)	118	113	110
Loss of appetite (primary vaccination)	Additional description: Symptom reported during the 7-day post-primary vaccination periods, across doses		
subjects affected / exposed <sup>[6]</sup>	65 / 146 (44.52%)	59 / 142 (41.55%)	59 / 144 (40.97%)
occurrences (all)	65	59	59
Fever (primary vaccination)	Additional description: (rectal temperature $\geq 38^{\circ}\text{C}$ ) Symptom reported during the 7-day post-primary vaccination periods, across doses		
subjects affected / exposed <sup>[7]</sup>	76 / 146 (52.05%)	71 / 142 (50.00%)	74 / 144 (51.39%)
occurrences (all)	76	71	74
Pain (booster vaccination)	Additional description: Symptom reported during the 7-day post-booster vaccination period		
subjects affected / exposed <sup>[8]</sup>	77 / 144 (53.47%)	73 / 140 (52.14%)	61 / 139 (43.88%)
occurrences (all)	77	73	61
Redness (booster vaccination)	Additional description: Symptom reported during the 7-day post-booster vaccination period		
subjects affected / exposed <sup>[9]</sup>	83 / 144 (57.64%)	81 / 140 (57.86%)	68 / 139 (48.92%)
occurrences (all)	83	81	68
Swelling (booster vaccination)	Additional description: Symptom reported during the 7-day post-booster vaccination period		
subjects affected / exposed <sup>[10]</sup>	70 / 144 (48.61%)	55 / 140 (39.29%)	49 / 139 (35.25%)
occurrences (all)	70	55	49
Drowsiness (booster vaccination)	Additional description: Symptom reported during the 7-day post-booster vaccination period		

subjects affected / exposed <sup>[11]</sup> occurrences (all)	77 / 144 (53.47%) 77	64 / 140 (45.71%) 64	66 / 139 (47.48%) 66
Irritability (booster vaccination)	Additional description: Symptom reported during the 7-day post-booster vaccination period		
subjects affected / exposed <sup>[12]</sup> occurrences (all)	95 / 144 (65.97%) 95	84 / 140 (60.00%) 84	82 / 139 (58.99%) 82
Loss of appetite (booster vaccination)	Additional description: Symptom reported during the 7-day post-booster vaccination period		
subjects affected / exposed <sup>[13]</sup> occurrences (all)	49 / 144 (34.03%) 49	38 / 140 (27.14%) 38	36 / 139 (25.90%) 36
Fever (booster vaccination)	Additional description: (rectal temperature $\geq 38^{\circ}\text{C}$ ) Symptom reported during the 7-day post-booster vaccination period		
subjects affected / exposed <sup>[14]</sup> occurrences (all)	50 / 144 (34.72%) 50	55 / 140 (39.29%) 55	51 / 139 (36.69%) 51
Eye disorders			
Conjunctivitis (primary vaccination)	Additional description: Unsolicited AE reported during the 31-day post-primary vaccination periods, across doses		
alternative assessment type: Non-systematic subjects affected / exposed occurrences (all)	5 / 146 (3.42%) 5	9 / 142 (6.34%) 9	5 / 145 (3.45%) 5
Infections and infestations			
Bronchitis (primary vaccination)	Additional description: Unsolicited AE reported during the 31-day post-primary vaccination periods, across doses		
alternative assessment type: Non-systematic subjects affected / exposed occurrences (all)	6 / 146 (4.11%) 6	12 / 142 (8.45%) 12	11 / 145 (7.59%) 11
Nasopharyngitis (primary vaccination)	Additional description: Unsolicited AE reported during the 31-day post-primary vaccination periods, across doses		
alternative assessment type: Non-systematic subjects affected / exposed occurrences (all)	10 / 146 (6.85%) 10	7 / 142 (4.93%) 7	12 / 145 (8.28%) 12
Nasopharyngitis (booster vaccination)	Additional description: Unsolicited AE reported during the 31-day post-booster vaccination period		
alternative assessment type: Non-systematic subjects affected / exposed <sup>[15]</sup> occurrences (all)	9 / 144 (6.25%) 9	4 / 140 (2.86%) 4	3 / 140 (2.14%) 3
Rhinitis (primary vaccination)	Additional description: Unsolicited AE reported during the 31-day post-primary vaccination periods, across doses		
alternative assessment type: Non-systematic			

subjects affected / exposed	11 / 146 (7.53%)	11 / 142 (7.75%)	12 / 145 (8.28%)
occurrences (all)	11	11	12
Viral infection (primary vaccination)	Additional description: Unsolicited AE reported during the 31-day post-primary vaccination periods, across doses		
alternative assessment type: Non-systematic			
subjects affected / exposed	0 / 146 (0.00%)	9 / 142 (6.34%)	5 / 145 (3.45%)
occurrences (all)	0	9	5

<b>Non-serious adverse events</b>	Prevnar 13/Infanrix hexa Group		
Total subjects affected by non-serious adverse events			
subjects affected / exposed	134 / 142 (94.37%)		
General disorders and administration site conditions			
Pain (primary vaccination)	Additional description: Symptom reported during the 7-day post-primary vaccination periods, across doses		
subjects affected / exposed <sup>[1]</sup>	64 / 142 (45.07%)		
occurrences (all)	64		
Redness (primary vaccination)	Additional description: Symptom reported during the 7-day post-primary vaccination periods, across doses		
subjects affected / exposed <sup>[2]</sup>	83 / 142 (58.45%)		
occurrences (all)	83		
Swelling (primary vaccination)	Additional description: Symptom reported during the 7-day post-primary vaccination periods, across doses		
subjects affected / exposed <sup>[3]</sup>	59 / 142 (41.55%)		
occurrences (all)	59		
Drowsiness (primary vaccination)	Additional description: Symptom reported during the 7-day post-primary vaccination periods, across doses		
subjects affected / exposed <sup>[4]</sup>	102 / 142 (71.83%)		
occurrences (all)	102		
Irritability (primary vaccination)	Additional description: Symptom reported during the 7-day post-primary vaccination periods, across doses		
alternative assessment type: Non-systematic			
subjects affected / exposed <sup>[5]</sup>	113 / 142 (79.58%)		
occurrences (all)	113		
Loss of appetite (primary vaccination)	Additional description: Symptom reported during the 7-day post-primary vaccination periods, across doses		
subjects affected / exposed <sup>[6]</sup>	57 / 142 (40.14%)		
occurrences (all)	57		
Fever (primary vaccination)	Additional description: (rectal temperature $\geq 38^{\circ}\text{C}$ ) Symptom reported during the 7-day post-primary vaccination periods, across doses		

subjects affected / exposed <sup>[7]</sup>	65 / 142 (45.77%)		
occurrences (all)	65		
Pain (booster vaccination)	Additional description: Symptom reported during the 7-day post-booster vaccination period		
subjects affected / exposed <sup>[8]</sup>	68 / 140 (48.57%)		
occurrences (all)	68		
Redness (booster vaccination)	Additional description: Symptom reported during the 7-day post-booster vaccination period		
subjects affected / exposed <sup>[9]</sup>	66 / 140 (47.14%)		
occurrences (all)	66		
Swelling (booster vaccination)	Additional description: Symptom reported during the 7-day post-booster vaccination period		
subjects affected / exposed <sup>[10]</sup>	59 / 140 (42.14%)		
occurrences (all)	59		
Drowsiness (booster vaccination)	Additional description: Symptom reported during the 7-day post-booster vaccination period		
subjects affected / exposed <sup>[11]</sup>	73 / 140 (52.14%)		
occurrences (all)	73		
Irritability (booster vaccination)	Additional description: Symptom reported during the 7-day post-booster vaccination period		
subjects affected / exposed <sup>[12]</sup>	90 / 140 (64.29%)		
occurrences (all)	90		
Loss of appetite (booster vaccination)	Additional description: Symptom reported during the 7-day post-booster vaccination period		
subjects affected / exposed <sup>[13]</sup>	57 / 140 (40.71%)		
occurrences (all)	57		
Fever (booster vaccination)	Additional description: (rectal temperature $\geq 38^{\circ}\text{C}$ ) Symptom reported during the 7-day post-booster vaccination period		
subjects affected / exposed <sup>[14]</sup>	53 / 140 (37.86%)		
occurrences (all)	53		
Eye disorders			
Conjunctivitis (primary vaccination)	Additional description: Unsolicited AE reported during the 31-day post-primary vaccination periods, across doses		
alternative assessment type: Non-systematic			
subjects affected / exposed	3 / 142 (2.11%)		
occurrences (all)	3		
Infections and infestations			
Bronchitis (primary vaccination)	Additional description: Unsolicited AE reported during the 31-day post-primary vaccination periods, across doses		
alternative assessment type: Non-systematic			
subjects affected / exposed	13 / 142 (9.15%)		
occurrences (all)	13		

Nasopharyngitis (primary vaccination) alternative assessment type: Non-systematic subjects affected / exposed occurrences (all)	Additional description: Unsolicited AE reported during the 31-day post-primary vaccination periods, across doses		
	8 / 142 (5.63%)		
	8		
Nasopharyngitis (booster vaccination) alternative assessment type: Non-systematic subjects affected / exposed <sup>[15]</sup> occurrences (all)	Additional description: Unsolicited AE reported during the 31-day post-booster vaccination period		
	6 / 140 (4.29%)		
	6		
Rhinitis (primary vaccination) alternative assessment type: Non-systematic subjects affected / exposed occurrences (all)	Additional description: Unsolicited AE reported during the 31-day post-primary vaccination periods, across doses		
	14 / 142 (9.86%)		
	14		
Viral infection (primary vaccination) alternative assessment type: Non-systematic subjects affected / exposed occurrences (all)	Additional description: Unsolicited AE reported during the 31-day post-primary vaccination periods, across doses		
	3 / 142 (2.11%)		
	3		

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: Solicited symptoms results are presented only for subjects for whom results were available.

[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: Solicited symptoms results are presented only for subjects for whom results were available.

[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: Solicited symptoms results are presented only for subjects for whom results were available.

[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: Solicited symptoms results are presented only for subjects for whom results were available.

[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: Solicited symptoms results are presented only for subjects for whom results were available.

[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: Solicited symptoms results are presented only for subjects for whom results were available.

[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: Solicited symptoms results are presented only for subjects for whom results were available.

[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: Solicited symptoms results are presented only for subjects for whom results were available.



available.

[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: Solicited symptoms results are presented only for subjects for whom results were available.

[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: Solicited symptoms results are presented only for subjects for whom results were available.

[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: Solicited symptoms results are presented only for subjects for whom results were available.

[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: Solicited symptoms results are presented only for subjects for whom results were available.

[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: Solicited symptoms results are presented only for subjects for whom results were available.

[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: Solicited symptoms results are presented only for subjects for whom results were available.

[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: Unsolicited symptoms results are presented only for subjects for whom results were available at the booster phase.

## 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

Limitations of the trial such as small numbers of subjects analysed or technical problems leading to unreliable data.

The results of analysis of the anti-Ply haemolysis activity inhibition are not presented as assay was not validated.
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Notes: