



Clinical trial results:

A phase IIIa single-blind, controlled multicentre study to assess the safety, reactogenicity and immunogenicity of GSK Biologicals 10-valent pneumococcal conjugate vaccine or Prevenar when given as a fourth dose between 12-18 months of age in children previously vaccinated in infancy in the primary study 10PN-PD-DIT-001 (105553) with either GSK Biologicals 10-valent pneumococcal conjugate vaccine or Prevenar.

Due to a system error, the data reported in v1 is not correct and has been removed from public view.

Summary

EudraCT number	2006-001628-38
Trial protocol	FI FR
Global end of trial date	06 November 2007

Results information

Result version number	v2
This version publication date	19 March 2016
First version publication date	29 April 2015
Version creation reason	<ul style="list-style-type: none">• Correction of full data set Data correction due to a system error in EudraCT – Results Correction of errors detected in immunogenicity data

Trial information

Trial identification

Sponsor protocol code	107046
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Additional study identifiers

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	NCT00370396
WHO universal trial number (UTN)	-

Notes:

Sponsors

Sponsor organisation name	GlaxoSmithKline Biologicals
Sponsor organisation address	Rue de l'Institut 89, Rixensart, Belgium, B-1330
Public contact	Clinical Trials Call Center, GlaxoSmithKline Biologicals, 044 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	Yes

1901/2006 apply to this trial?	
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Notes:

Results analysis stage

Analysis stage	Final
Date of interim/final analysis	13 June 2008
Is this the analysis of the primary completion data?	No
Global end of trial reached?	Yes
Global end of trial date	06 November 2007
Was the trial ended prematurely?	No

Notes:

General information about the trial

Main objective of the trial:

To demonstrate that a booster dose of GSK Biologicals' 10-valent pneumococcal conjugate vaccine is non-inferior to Prevenar, both co-administered with DTPa-HBV-IPV/Hib vaccine, in terms of post-immunization febrile reactions with rectal fever > 39.0°C.

Criteria for safety:

Non-inferiority will be demonstrated if the upper limit of the 95% CI of the difference (10Pn-10Pn group minus 7Pn-7Pn group), in terms of percentage of subjects with rectal fever >39.0°C, is lower than 10%.

Protection of trial subjects:

All subjects were supervised after vaccination/product administration with appropriate medical treatment readily available. Vaccines/products were administered by qualified and trained personnel. Vaccines/products were administered only to eligible subjects that had no contraindications to any components of the vaccines/products. Towards ensuring the safety of subjects, the study design included an Active Primary Phase (Months 0-1) followed by an additional 5-months Extended Safety Follow-up Phase (ESFU (up to 6 months after the last vaccination/product administration during an). Prior to vaccination, subjects' pre-vaccination body temperature was also evaluated.

Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	25 September 2006
Long term follow-up planned	Yes
Long term follow-up rationale	Safety
Long term follow-up duration	5 Months
Independent data monitoring committee (IDMC) involvement?	No

Notes:

Population of trial subjects

Subjects enrolled per country

Country: Number of subjects enrolled	Finland: 398
Country: Number of subjects enrolled	France: 142
Country: Number of subjects enrolled	Poland: 572
Worldwide total number of subjects	1112
EEA total number of subjects	1112

Notes:

Subjects enrolled per age group	
In utero	0
Preterm newborn - gestational age < 37 wk	0
Newborns (0-27 days)	0
Infants and toddlers (28 days-23 months)	1112
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:

This study consisted of approximately 1200 subjects who were previously enrolled and had been vaccinated with either the 10Pn or 7Pn vaccine as part of the 10PN-PD-DIT-001 (105553) study (EudraCTnumber: 2005-003300-11).

Pre-assignment

Screening details:

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

Period 1

Period 1 title	Overall Study Period (overall period)
Is this the baseline period?	Yes
Allocation method	Randomised - controlled
Blinding used	Single blind
Roles blinded	Subject

Arms

Are arms mutually exclusive?	Yes
Arm title	10Pn-10Pn Group

Arm description:

This group consisted of subjects previously vaccinated with the 10Pn-PD-DiT vaccine (also referred as 10Pn vaccine or Synflorix™) as part of a previous study by GSK Biologicals – the 10PN-PD-DIT-001 (105553) study (EuDRA-CT number: 2005-003300-11). As part of the 105553 study, subjects had received a 3-dose primary vaccination of 10Pn vaccine at 2, 3 and 4 months of age (injected intramuscularly [IM] in the right thigh) co-administered with DTPa-HBV-IPV/Hib vaccine (or Infanrix hexa™), except for the second dose in France, which was co-administered with DTPa-IPV/Hib (or Infanrix™ IPV Hib), injected intramuscularly in the left thigh. As part of this study, at 12-18 months of age, subjects received a booster dose of 10Pn vaccine, injected IM in the right thigh or deltoid, co-administered with DTPa-HBV-IPV/Hib vaccine, injected IM in the left thigh or deltoid.

Arm type	Experimental
Investigational medicinal product name	10 valent streptococcus pneumoniae conjugate vaccine
Investigational medicinal product code	
Other name	10Pn-PD-DiT, Synflorix™ (by GSK Biologicals)
Pharmaceutical forms	Suspension for injection
Routes of administration	Intramuscular use

Dosage and administration details:

One dose administered at 12-18 months of age in the left thigh or deltoid

Investigational medicinal product name	DTPa-HBV-IPV/Hib
Investigational medicinal product code	
Other name	Infanrix hexa™ (by GSK Biologicals)
Pharmaceutical forms	Powder and solvent for suspension for injection
Routes of administration	Intramuscular use

Dosage and administration details:

One dose administered at at 12-18 months of age in the right thigh or deltoid

Arm title	7Pn-7Pn Group
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Arm description:

This group consisted of subjects previously vaccinated with the 7Pn vaccine (also referred as Prevenar™) as part of a previous study by GSK Biologicals – the 10PN-PD-DIT-001 (105553) study (EuDRA-CT number: 2005-003300-11). As part of the 105553 study, subjects had received a 3-dose primary vaccination of 7Pn vaccine at 2, 3 and 4 months of age (injected intramuscularly [IM] in the

right thigh) co-administered with DTPa-HBV-IPV/Hib vaccine (or Infanrix hexa™), except for the second dose in France, which was co-administered with DTPa-IPV/Hib (or Infanrix™ IPV Hib), injected intramuscularly in the left thigh. As part of this study, at 12-18 months of age, subjects received a booster dose of 7Pn vaccine, injected IM in the right thigh or deltoid, co-administered with DTPa-HBV-IPV/Hib vaccine, injected IM in the left thigh or deltoid.

Arm type	Active comparator
Investigational medicinal product name	7Pn
Investigational medicinal product code	
Other name	Prevenar™ by Wyeth Lederle Vaccines S.A.
Pharmaceutical forms	Suspension for injection
Routes of administration	Intramuscular use

Dosage and administration details:

One dose administered at 12-18 months of age in the left thigh or deltoid

Investigational medicinal product name	DTPa-HBV-IPV/Hib
Investigational medicinal product code	
Other name	Infanrix hexa™ (by GSK Biologicals)
Pharmaceutical forms	Powder and solvent for suspension for injection
Routes of administration	Intramuscular use

Dosage and administration details:

One dose administered at at 12-18 months of age in the right thigh or deltoid

Arm title	7Pn-10Pn Group
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Arm description:

This group consisted of subjects previously vaccinated with the 7Pn vaccine (also referred as Prevenar™) as part of a previous study by GSK Biologicals – the 10PN-PD-DIT-001 (105553) study (EuDRA-CT number: 2005-003300-11). As part of the 105553 study, subjects had received a 3-dose primary vaccination of 7Pn vaccine at 2, 3 and 4 months of age (injected intramuscularly [IM] in the right thigh) co-administered with DTPa-HBV-IPV/Hib vaccine (or Infanrix hexa™), except for the second dose in France, which was co-administered with DTPa-IPV/Hib (or Infanrix™ IPV Hib), injected intramuscularly in the left thigh. As part of this study, at 12-18 months of age, subjects received a booster dose of 10Pn-PD-DiT vaccine (also referred as 10Pn vaccine or Synflorix™), injected IM in the right thigh or deltoid, co-administered with DTPa-HBV-IPV/Hib vaccine, injected IM in the left thigh or deltoid.

Arm type	Active comparator
Investigational medicinal product name	10 valent streptococcus pneumoniae conjugate vaccine
Investigational medicinal product code	
Other name	10Pn-PD-DiT, Synflorix™ (by GSK Biologicals)
Pharmaceutical forms	Suspension for injection
Routes of administration	Intramuscular use

Dosage and administration details:

One dose administered at 12-18 months of age in the left thigh or deltoid

Investigational medicinal product name	DTPa-HBV-IPV/Hib
Investigational medicinal product code	
Other name	Infanrix hexa™ (by GSK Biologicals)
Pharmaceutical forms	Powder and solvent for suspension for injection
Routes of administration	Intramuscular use

Dosage and administration details:

One dose administered at at 12-18 months of age in the right thigh or deltoid

Number of subjects in period 1	10Pn-10Pn Group	7Pn-7Pn Group	7Pn-10Pn Group
Started	737	92	283
Overall Study Period	737	92	283
Completed	726	91	282
Not completed	11	1	1
Consent withdrawn by subject	-	-	1
Lost to follow-up	11	1	-

Baseline characteristics

Reporting groups

Reporting group title	10Pn-10Pn Group
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Reporting group description:

This group consisted of subjects previously vaccinated with the 10Pn-PD-DiT vaccine (also referred as 10Pn vaccine or Synflorix™) as part of a previous study by GSK Biologicals – the 10PN-PD-DIT-001 (105553) study (EuDRA-CT number: 2005-003300-11). As part of the 105553 study, subjects had received a 3-dose primary vaccination of 10Pn vaccine at 2, 3 and 4 months of age (injected intramuscularly [IM] in the right thigh) co-administered with DTPa-HBV-IPV/Hib vaccine (or Infanrix hexa™), except for the second dose in France, which was co-administered with DTPa-IPV/Hib (or Infanrix™ IPV Hib), injected intramuscularly in the left thigh. As part of this study, at 12-18 months of age, subjects received a booster dose of 10Pn vaccine, injected IM in the right thigh or deltoid, co-administered with DTPa-HBV-IPV/Hib vaccine, injected IM in the left thigh or deltoid.

Reporting group title	7Pn-7Pn Group
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Reporting group description:

This group consisted of subjects previously vaccinated with the 7Pn vaccine (also referred as Prevenar™) as part of a previous study by GSK Biologicals – the 10PN-PD-DIT-001 (105553) study (EuDRA-CT number: 2005-003300-11). As part of the 105553 study, subjects had received a 3-dose primary vaccination of 7Pn vaccine at 2, 3 and 4 months of age (injected intramuscularly [IM] in the right thigh) co-administered with DTPa-HBV-IPV/Hib vaccine (or Infanrix hexa™), except for the second dose in France, which was co-administered with DTPa-IPV/Hib (or Infanrix™ IPV Hib), injected intramuscularly in the left thigh. As part of this study, at 12-18 months of age, subjects received a booster dose of 7Pn vaccine, injected IM in the right thigh or deltoid, co-administered with DTPa-HBV-IPV/Hib vaccine, injected IM in the left thigh or deltoid.

Reporting group title	7Pn-10Pn Group
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Reporting group description:

This group consisted of subjects previously vaccinated with the 7Pn vaccine (also referred as Prevenar™) as part of a previous study by GSK Biologicals – the 10PN-PD-DIT-001 (105553) study (EuDRA-CT number: 2005-003300-11). As part of the 105553 study, subjects had received a 3-dose primary vaccination of 7Pn vaccine at 2, 3 and 4 months of age (injected intramuscularly [IM] in the right thigh) co-administered with DTPa-HBV-IPV/Hib vaccine (or Infanrix hexa™), except for the second dose in France, which was co-administered with DTPa-IPV/Hib (or Infanrix™ IPV Hib), injected intramuscularly in the left thigh. As part of this study, at 12-18 months of age, subjects received a booster dose of 10Pn-PD-DiT vaccine (also referred as 10Pn vaccine or Synflorix™), injected IM in the right thigh or deltoid, co-administered with DTPa-HBV-IPV/Hib vaccine, injected IM in the left thigh or deltoid.

Reporting group values	10Pn-10Pn Group	7Pn-7Pn Group	7Pn-10Pn Group
Number of subjects	737	92	283
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: months geometric mean	15.3	14.2	14.2

standard deviation	± 2.08	± 2.26	± 2.23
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Gender categorical Units: Subjects			
Female	360	50	134
Male	377	42	149

Reporting group values	Total		
Number of subjects	1112		
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: months geometric mean standard deviation	-		
Gender categorical Units: Subjects			
Female	544		
Male	568		

End points

End points reporting groups

Reporting group title	10Pn-10Pn Group
Reporting group description:	
This group consisted of subjects previously vaccinated with the 10Pn-PD-DiT vaccine (also referred as 10Pn vaccine or Synflorix™) as part of a previous study by GSK Biologicals – the 10PN-PD-DIT-001 (105553) study (EuDRA-CT number: 2005-003300-11). As part of the 105553 study, subjects had received a 3-dose primary vaccination of 10Pn vaccine at 2, 3 and 4 months of age (injected intramuscularly [IM] in the right thigh) co-administered with DTPa-HBV-IPV/Hib vaccine (or Infanrix hexa™), except for the second dose in France, which was co-administered with DTPa-IPV/Hib (or Infanrix™ IPV Hib), injected intramuscularly in the left thigh. As part of this study, at 12-18 months of age, subjects received a booster dose of 10Pn vaccine, injected IM in the right thigh or deltoid, co-administered with DTPa-HBV-IPV/Hib vaccine, injected IM in the left thigh or deltoid.	
Reporting group title	7Pn-7Pn Group
Reporting group description:	
This group consisted of subjects previously vaccinated with the 7Pn vaccine (also referred as Prevenar™) as part of a previous study by GSK Biologicals – the 10PN-PD-DIT-001 (105553) study (EuDRA-CT number: 2005-003300-11). As part of the 105553 study, subjects had received a 3-dose primary vaccination of 7Pn vaccine at 2, 3 and 4 months of age (injected intramuscularly [IM] in the right thigh) co-administered with DTPa-HBV-IPV/Hib vaccine (or Infanrix hexa™), except for the second dose in France, which was co-administered with DTPa-IPV/Hib (or Infanrix™ IPV Hib), injected intramuscularly in the left thigh. As part of this study, at 12-18 months of age, subjects received a booster dose of 7Pn vaccine, injected IM in the right thigh or deltoid, co-administered with DTPa-HBV-IPV/Hib vaccine, injected IM in the left thigh or deltoid.	
Reporting group title	7Pn-10Pn Group
Reporting group description:	
This group consisted of subjects previously vaccinated with the 7Pn vaccine (also referred as Prevenar™) as part of a previous study by GSK Biologicals – the 10PN-PD-DIT-001 (105553) study (EuDRA-CT number: 2005-003300-11). As part of the 105553 study, subjects had received a 3-dose primary vaccination of 7Pn vaccine at 2, 3 and 4 months of age (injected intramuscularly [IM] in the right thigh) co-administered with DTPa-HBV-IPV/Hib vaccine (or Infanrix hexa™), except for the second dose in France, which was co-administered with DTPa-IPV/Hib (or Infanrix™ IPV Hib), injected intramuscularly in the left thigh. As part of this study, at 12-18 months of age, subjects received a booster dose of 10Pn-PD-DiT vaccine (also referred as 10Pn vaccine or Synflorix™), injected IM in the right thigh or deltoid, co-administered with DTPa-HBV-IPV/Hib vaccine, injected IM in the left thigh or deltoid.	

Primary: Number of subjects with rectal temperature above (>) 39.0 degrees Celsius (°C) post booster between the 10Pn-10Pn and 7Pn-7Pn groups

End point title	Number of subjects with rectal temperature above (>) 39.0 degrees Celsius (°C) post booster between the 10Pn-10Pn and 7Pn-7Pn groups ^[1]
End point description:	
Fever was measured as rectal temperature. Assessment of occurrences of rectal temperature > 39.0 °C was performed post administration of the booster dose of pneumococcal vaccine (10PN or 7Pn vaccine) in this study. The analysis was performed on the Total vaccinated cohort, which included all subjects vaccinated in this study 10PN-PD-DIT-007, solely on subjects with results available.	
End point type	Primary
End point timeframe:	
Within 4 days (Days 0-3) after the booster vaccination at Month 0 in this study 10PN-PD-DIT-007	
Notes:	
[1] - 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 was not assessed in the 7Pn-10Pn Group.	

End point values	10Pn-10Pn Group	7Pn-7Pn Group		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	735	91		
Units: Subjects				
Subjects with rectal temperature >39°C	24	7		

Statistical analyses

Statistical analysis title	Non-inferiority of 10Pn vs 7Pn vaccine
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Statistical analysis description:

Analysis aimed at demonstrating the non-inferiority of 10Pn vs 7Pn vaccine, both co-administered with DTPa-HBV-IPV/Hib vaccine, in terms of post-immunization febrile reactions with rectal fever > 39.0°C. Towards this, standardized asymptotic 95% confidence interval (CI) for the difference [10Pn-10Pn minus 7Pn-7Pn] in terms of percentages of subjects reporting rectal fever >39.0°C was computed.

Comparison groups	7Pn-7Pn Group v 10Pn-10Pn Group
Number of subjects included in analysis	826
Analysis specification	Pre-specified
Analysis type	non-inferiority ^[2]
Parameter estimate	Difference in percentage
Point estimate	-4.43
Confidence interval	
level	95 %
sides	2-sided
lower limit	-11.85
upper limit	-0.21

Notes:

[2] - Non-inferiority was demonstrated if the upper limit of the computed standardized asymptotic 95% CI was lower than the pre-defined limit of 10%.

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

End point title	Number of subjects with any and Grade 3 solicited local symptoms
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End point description:

Solicited local symptoms assessed include pain, redness and swelling. Grade 3 pain was defined as crying when limb was moved/spontaneously painful. Grade 3 swelling/redness was defined as swelling/redness larger than (>) 30 millimeters (mm). "Any" is defined as incidence of the specified symptom regardless of intensity. The analysis was performed on the Total vaccinated cohort, which included all subjects vaccinated in this study 10PN-PD-DIT-007, solely on subjects with results available.

End point type	Secondary
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End point timeframe:

Within 4 days (Days 0-3) after the booster vaccination at Month 0 in this study 10PN-PD-DIT-007

End point values	10Pn-10Pn Group	7Pn-7Pn Group	7Pn-10Pn Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	735	91	282	
Units: Subjects				
Any Pain	452	48	150	
Grade 3 Pain	47	3	18	

Any Swelling	338	42	112	
Grade 3 Swelling	67	7	20	
Any Redness	451	59	153	
Grade 3 Redness	96	7	19	

Statistical analyses

No statistical analyses for this end point

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

End point title	Number of subjects with any and any Grade 3 solicited general symptoms
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End point description:

Solicited general symptoms assessed include drowsiness, fever (defined as rectal temperature $\geq 38.0^{\circ}\text{C}$), irritability, and loss of appetite. Grade 3 drowsiness was defined as drowsiness which prevented normal everyday activities. Grade 3 fever was defined as fever (rectal temperature) above ($>$) 40.0°C . Grade 3 irritability was defined as crying that could not be comforted/preventing normal everyday activities. Grade 3 loss of appetite was defined as the subject not eating at all. "Any" is defined as incidence of the specified symptom regardless of intensity or relationship to study vaccination. The analysis was performed on the Total vaccinated cohort, which included all subjects vaccinated in this study 10PN-PD-DIT-007, solely on subjects with results available.

End point type	Secondary
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End point timeframe:

Within 4 days (Days 0-3) after the booster vaccination at Month 0 in this study 10PN-PD-DIT-007

End point values	10Pn-10Pn Group	7Pn-7Pn Group	7Pn-10Pn Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	735	91	282	
Units: Subjects				
Any drowsiness	303	48	130	
Grade 3 drowsiness	5	0	5	
Any fever	245	33	112	
Grade 3 fever	1	2	3	
Any irritability	438	55	176	
Grade 3 irritability	15	2	12	
Any loss of appetite	230	31	92	
Grade 3 loss of appetite	4	0	3	

Statistical analyses

No statistical analyses for this end point

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

End point title	Number of subjects with unsolicited adverse events (AEs)
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End point description:

An AE is any untoward medical occurrence in a clinical investigation subject, temporally associated with the use of a medicinal product, whether or not considered related to the medicinal product. "Any" is defined as an incidence of an unsolicited AE regardless of intensity or relationship to study vaccination. The analysis was performed on the Total vaccinated cohort, which included all subjects vaccinated in this study 10PN-PD-DIT-007.

End point type	Secondary
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End point timeframe:

Within 31 days (Day 0-30) after the booster vaccination at Month 0 in this study 10PN-PD-DIT-007

End point values	10Pn-10Pn Group	7Pn-7Pn Group	7Pn-10Pn Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	737	92	283	
Units: Subjects				
Subject(s) with unsolicited AE(s)	188	32	99	

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with serious adverse events (SAEs) during the Active Phase of the study

End point title	Number of subjects with serious adverse events (SAEs) during the Active Phase of the study
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End point description:

An SAE is any untoward medical occurrence that: results in death, is life-threatening, requires hospitalization or prolongation of existing hospitalization, results in disability/incapacity, or may evolve into one of the outcomes listed above. "Any" is defined as an incidence of a SAE regardless of intensity/severity. The analysis was performed on the Total vaccinated cohort, which included all subjects vaccinated in this study 10PN-PD-DIT-007.

End point type	Secondary
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End point timeframe:

Throughout the Active Phase of the study, that is, within 31 days (Day 0-30) after the booster vaccination at Month 0 in this study 10PN-PD-DIT-007

End point values	10Pn-10Pn Group	7Pn-7Pn Group	7Pn-10Pn Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	737	92	283	
Units: Subjects				
Subject(s) with SAEs	12	1	4	

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with serious adverse events (SAEs) during the entire study

End point title	Number of subjects with serious adverse events (SAEs) during the entire study
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End point description:

An SAE is any untoward medical occurrence that: results in death, is life-threatening, requires hospitalization or prolongation of existing hospitalization, results in disability/incapacity, or may evolve into one of the outcomes listed above. "Any" is defined as an incidence of a SAE regardless of intensity/severity. The analysis was performed on the Total vaccinated cohort, which included all subjects vaccinated in this study 10PN-PD-DIT-007, solely on subjects enrolled in the ESFU Phase of the study.

End point type	Secondary
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End point timeframe:

Throughout the study period, from Month 0 prior to booster vaccination up to Month 6, end of the ESFU in this study 10PN-PD-DIT-007

End point values	10Pn-10Pn Group	7Pn-7Pn Group	7Pn-10Pn Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	726	92	282	
Units: Subjects				
Subject(s) with SAEs	33	6	8	

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects seroprotected as regards anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antigens – by 22F-inhibition Enzyme-linked immunosorbent assay (ELISA)

End point title	Number of subjects seroprotected as regards anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antigens – by 22F-inhibition Enzyme-linked immunosorbent assay (ELISA)
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End point description:

A seroprotected subject as regards anti-pneumococcal serotype antibody was defined as a subject with anti-pneumococcal serotype antibody concentration above than or equal to (\geq) 0.20 microgram per millilitre ($\mu\text{g/mL}$). Anti-pneumococcal serotypes antibodies assessed were antibodies against pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F (Anti-1, -4, -5, -6B, -7F, 9V, -14, -18C, -19F and -23F). Analysis was performed using the 22F-inhibition Enzyme-linked immunosorbent assay (ELISA), using $\geq 0.05 \mu\text{g/mL}$ as seropositivity cut off. For this endpoint, the analysis was performed on the according-to-protocol cohort for immunogenicity, e. a., evaluable subjects for whom assay results were available for antibodies against at least one study vaccine antigen component after booster vaccination.

End point type	Secondary
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End point timeframe:

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

End point values	10Pn-10Pn Group	7Pn-7Pn Group	7Pn-10Pn Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	347	89	134	
Units: Subjects				
Anti-1 PRE (N=338;82;133)	123	3	3	
Anti-1 Month 1 (N=342;81;133)	340	4	113	
Anti-4 PRE (N=342;78;131)	196	53	99	
Anti-4 Month 1 (N=343;88;133)	342	88	133	
Anti-5 PRE (N=344;84;134)	231	5	14	
Anti-5 Month 1 (N=342;82;133)	340	5	114	
Anti-6B PRE (N=333;75;131)	223	23	69	
Anti-6B Month 1 (N=341 ;87;133)	329	85	131	
Anti-7F PRE (N=340;85;133)	308	4	3	
Anti-7F Month 1 (N=342;85;133)	342	6	127	
Anti-9V PRE (N=344;77;130)	291	70	123	
Anti-9V Month 1 (N=340;89;133)	340	89	133	
Anti-14 PRE (N=336;75;130)	268	70	125	
Anti-14 Month 1 (N=339;86;133)	336	86	133	
Anti-18C PRE (N=341;83;131)	240	60	107	
Anti-18C Month 1 (N=343;87;134)	343	87	133	
Anti-19F PRE (N=347;85;134)	272	38	76	
Anti-19F Month 1 (N=343;87;134)	341	87	131	
Anti-23F PRE (N=338;77;130)	206	43	98	
Anti-23F Month 1 (N=341;88;132)	332	87	128	

Statistical analyses

No statistical analyses for this end point

Secondary: Antibody concentrations against pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F (Anti-1, -4, -5, -6B, -7F, 9V, -14, -18C, -19F and -23F) – by 22F-inhibition Enzyme-linked immunosorbent assay (ELISA)

End point title	Antibody concentrations against pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F (Anti-1, -4, -5, -6B, -7F, 9V, -14, -18C, -19F and -23F) – by 22F-inhibition Enzyme-linked immunosorbent assay (ELISA)
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End point description:

Anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antibody concentrations (Anti-1, -4, -5, -6B, -7F, -9V, -14, -18C, -19F and -23F) were calculated, expressed as geometric mean concentrations (GMCs), in microgram per millilitre (µg/mL). The seropositivity cut-off for the assay was ≥ 0.05 µg/mL. Antibody concentrations below the cut-off of the assay were given an arbitrary value of half the cut-off for the purpose of GMC calculation. For this endpoint, the analysis was performed on the according-to-protocol cohort for immunogenicity, e. a., evaluable subjects for whom assay results were available for antibodies against at least one study vaccine antigen component after booster vaccination.

End point type	Secondary
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End point timeframe:

Prior to (PRE) and one month (Month 1) post booster vaccination

End point values	10Pn-10Pn Group	7Pn-7Pn Group	7Pn-10Pn Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	347	89	134	
Units: µg/mL				
geometric mean (confidence interval 95%)				
Anti-1 PRE (N=338;82;133)	0.14 (0.13 to 0.16)	0.03 (0.03 to 0.04)	0.03 (0.03 to 0.04)	
Anti-1 Month 1 (N=342;81;133)	1.53 (1.4 to 1.68)	0.04 (0.03 to 0.05)	0.67 (0.56 to 0.8)	
Anti-4 PRE (N=342;78;131)	0.23 (0.21 to 0.26)	0.3 (0.25 to 0.37)	0.35 (0.3 to 0.41)	
Anti-4 Month 1 (N=343;88;133)	3.35 (3.06 to 3.67)	4.4 (3.75 to 5.15)	4.47 (3.85 to 5.19)	
Anti-5 PRE (N=344;84;134)	0.27 (0.25 to 0.3)	0.04 (0.04 to 0.05)	0.05 (0.04 to 0.05)	
Anti-5 Month 1 (N=342;82;133)	2.2 (2 to 2.42)	0.05 (0.04 to 0.07)	0.74 (0.6 to 0.9)	
Anti-6B PRE (N=333;75;131)	0.31 (0.27 to 0.35)	0.14 (0.11 to 0.19)	0.26 (0.2 to 0.33)	
Anti-6B Month 1 (N=341 ;87;133)	1.94 (1.74 to 2.17)	3.53 (2.83 to 4.41)	1.74 (1.48 to 2.05)	
Anti-7F PRE (N=340;85;133)	0.57 (0.52 to 0.62)	0.03 (0.03 to 0.04)	0.03 (0.03 to 0.03)	
Anti-7F Month 1 (N=342;85;133)	3.5 (3.25 to 3.76)	0.04 (0.03 to 0.05)	1.83 (1.49 to 2.24)	
Anti-9V PRE (N=344;77;130)	0.54 (0.48 to 0.6)	0.62 (0.51 to 0.76)	0.78 (0.68 to 0.89)	
Anti-9V Month 1 (N=340;89;133)	3.25 (2.99 to 3.53)	6.09 (5.19 to 7.15)	1.94 (1.73 to 2.19)	
Anti-14 PRE (N=336;75;130)	0.66 (0.56 to 0.76)	1.06 (0.82 to 1.38)	1.69 (1.4 to 2.03)	
Anti-14 Month 1 (N=339;86;133)	5.56 (5.01 to 6.18)	9.29 (7.85 to 10.99)	4.76 (4.12 to 5.49)	
Anti-18C PRE (N=341;83;131)	0.3 (0.28 to 0.34)	0.32 (0.26 to 0.39)	0.37 (0.32 to 0.43)	
Anti-18C Month 1 (N=343;87;134)	5.01 (4.6 to 5.46)	5.21 (4.44 to 6.11)	4.98 (4.17 to 5.93)	
Anti-19F PRE (N=347;85 ;134)	0.53 (0.46 to 0.61)	0.23 (0.17 to 0.31)	0.31 (0.24 to 0.41)	
Anti-19F Month 1 (N=343;87;134)	6.05 (5.46 to 6.71)	3.35 (2.83 to 3.97)	5.06 (4.24 to 6.04)	
Anti-23F PRE (N=338;77;130)	0.27 (0.23 to 0.31)	0.24 (0.19 to 0.31)	0.4 (0.32 to 0.5)	
Anti-23F Month 1 (N=341;88;132)	2.38 (2.13 to 2.66)	6.67 (5.38 to 8.26)	2.42 (1.99 to 2.95)	

Statistical analyses

No statistical analyses for this end point

Secondary: Opsonophagocytic activity (OPA) titers against pneumococcal serotypes

1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F

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

OPA titers against pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F (Opsono-1, -4, -5, -6B, -7F, -9V, -14, -18C, -19F and -23F) were calculated, expressed as geometric mean titers (GMTs) and tabulated. The seropositivity cut-off for the assay was ≥ 8 . Antibody titers below the cut-off of the assay were given an arbitrary value of half the cut-off for the purpose of GMT calculation. For this endpoint, the analysis was performed on the according-to-protocol cohort for immunogenicity, e. a., evaluable subjects for whom assay results were available for antibodies against at least one study vaccine antigen component after booster vaccination.

End point type	Secondary
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End point timeframe:

Prior to (PRE) and one month (Month 1) post booster vaccination

End point values	10Pn-10Pn Group	7Pn-7Pn Group	7Pn-10Pn Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	326	83	126	
Units: Titer				
geometric mean (confidence interval 95%)				
Opsono-1 PRE (N=326;83;126)	6.1 (5.4 to 6.9)	5 (4.1 to 6)	4.9 (4.2 to 5.8)	
Opsono-1 Month 1 (N=301;83;121)	192.2 (157.5 to 234.6)	4.3 (3.9 to 4.7)	8.3 (6.7 to 10.4)	
Opsono-4 PRE (N=295;79;112)	20.3 (16.2 to 25.5)	24.5 (15.4 to 38.8)	37.8 (24.8 to 57.7)	
Opsono-4 Month 1 (N=297;81;123)	1856.3 (1666.1 to 2068)	2812.6 (2282.5 to 3465.9)	1528.9 (1286.5 to 1817)	
Opsono-5 PRE (N=305;79;124)	8.2 (7.2 to 9.4)	4.4 (3.9 to 4.9)	4.1 (3.9 to 4.3)	
Opsono-5 Month 1 (N=299;83;122)	144.1 (122.1 to 170)	4.1 (3.9 to 4.4)	9.5 (7.5 to 11.9)	
Opsono-6B PRE (N=284;75;120)	60.3 (44.6 to 81.7)	51.4 (27.1 to 97.5)	36.7 (23.3 to 57.7)	
Opsono-6B Month 1 (N=295;79;118)	981.2 (830.7 to 1159.1)	3459.6 (2535.7 to 4720.3)	640.2 (480.7 to 852.7)	
Opsono-7F PRE (N=294;76;117)	377.7 (279.8 to 509.9)	34.8 (17.5 to 69.3)	25.3 (15.4 to 41.6)	
Opsono-7F Month 1 (N=296;74;118)	4330.3 (3836 to 4888.3)	25.2 (13.1 to 48.7)	2397.2 (1929.2 to 2978.7)	
Opsono-9V PRE (N=309;81;122)	296.9 (259.3 to 339.9)	305.5 (227.1 to 411)	305.1 (248.7 to 374.4)	
Opsono-9V Month 1 (N=297;79;120)	2343.5 (2097.1 to 2618.7)	5357.4 (4212.5 to 6813.6)	886.8 (747.7 to 1051.8)	
Opsono-14 PRE (N=299;79;118)	188.1 (149.9 to 235.9)	201.6 (129.4 to 314.2)	391.1 (303.1 to 504.6)	
Opsono-14 Month 1 (N=304;82;123)	2085.9 (1868 to 2329.1)	2134.2 (1689.1 to 2696.6)	977.8 (828.9 to 1153.5)	
Opsono-18C PRE (N=309;82;121)	8.7 (7.4 to 10.3)	10.4 (7.4 to 14.7)	8.5 (6.6 to 10.9)	
Opsono-18C Month 1 (N=299;76;121)	810.3 (712.4 to 921.7)	968.7 (724.1 to 1295.8)	610.7 (480.3 to 776.4)	

Opsono-19F PRE (N=317;81;123)	10.5 (8.9 to 12.3)	5.9 (4.5 to 7.8)	7.3 (5.5 to 9.6)	
Opsono-19F Month 1 (N=293;80;120)	624.3 (509.7 to 764.7)	287.8 (190.8 to 434.3)	530.1 (393 to 715.2)	
Opsono-23F PRE (N=305;77;120)	171.5 (126.3 to 232.8)	205.8 (110.1 to 384.6)	532.9 (344.4 to 824.7)	
Opsono-23F Month 1 (N=301;80;122)	2830.1 (2487.2 to 3220.3)	13900.7 (10177.4 to 18986.1)	2828.8 (2234.3 to 3581.6)	

Statistical analyses

No statistical analyses for this end point

Secondary: Antibody concentrations to protein D (Anti-PD) - by Enzyme-Linked Immunosorbent Assay (ELISA)

End point title	Antibody concentrations to protein D (Anti-PD) - by Enzyme-Linked Immunosorbent Assay (ELISA)
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End point description:

Anti-protein D (Anti-PD) antibody concentrations by Enzyme-Linked Immunosorbent Assay (ELISA) were calculated, expressed as geometric mean concentrations (GMCs) in ELISA unit per milli-liter (EL.U/mL) and tabulated. The seropositivity cut-off for the assay was ≥ 100 EL.U/mL. Antibody concentrations below the cut-off of the assay were given an arbitrary value of half the cut-off for the purpose of GMC calculation. For this endpoint, the analysis was performed on the according-to-protocol cohort for immunogenicity, e. a., evaluable subjects for whom assay results were available for antibodies against at least one study vaccine antigen component after booster vaccination.

End point type	Secondary
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End point timeframe:

Prior to (PRE) and one month (Month 1) post booster vaccination

End point values	10Pn-10Pn Group	7Pn-7Pn Group	7Pn-10Pn Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	340	86	134	
Units: EL.U/mL				
geometric mean (confidence interval 95%)				
Anti-PD, PRE (N=338;73;127)	556.4 (494.7 to 625.7)	72.3 (59.3 to 88)	78.1 (67.8 to 89.9)	
Anti-PD, Month 1 (N=340;86;134)	2887.6 (2573.7 to 3239.8)	75.3 (60 to 94.4)	125.5 (103.4 to 152.4)	

Statistical analyses

No statistical analyses for this end point

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

End point title	Anti-polyribosyl ribitol phosphate (anti-PRP) antibody
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End point description:

Anti-PRP antibody concentrations were calculated, expressed as geometric mean concentrations (GMCs), in microgram per milliliter ($\mu\text{g/mL}$), and tabulated. The seroprotection cut-off for the assay for the purpose of this endpoint was $\geq 0.15 \mu\text{g/mL}$. Antibody concentrations below the cut-off of the assay were given an arbitrary value of half the cut-off for the purpose of GMC calculation. For this endpoint, the analysis was performed on the according-to-protocol cohort for immunogenicity, e. a., evaluable subjects for whom assay results were available for antibodies against at least one study vaccine antigen component after booster vaccination.

End point type	Secondary
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End point timeframe:

Prior to (PRE) and one month (Month 1) post booster vaccination

End point values	10Pn-10Pn Group	7Pn-7Pn Group	7Pn-10Pn Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	344	46	136	
Units: $\mu\text{g/mL}$				
geometric mean (confidence interval 95%)				
Anti-PRP, PRE (N=344;39;136)	0.308 (0.272 to 0.348)	0.231 (0.151 to 0.353)	0.246 (0.2 to 0.304)	
Anti-PRP, Month 1 (N=343;46;136)	36.634 (31.897 to 42.074)	25.731 (15.87 to 41.719)	29.851 (23.563 to 37.816)	

Statistical analyses

No statistical analyses for this end point

Secondary: Anti-pertussis toxoid (Anti-PT), anti- filamentous haemagglutinin (Anti-FHA) and anti-pertactin (Anti-PRN) antibody concentrations

End point title	Anti-pertussis toxoid (Anti-PT), anti- filamentous haemagglutinin (Anti-FHA) and anti-pertactin (Anti-PRN) antibody concentrations
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End point description:

Anti-PT, Anti-FHA and Anti-PRN concentrations measured by Enzyme-Linked Immunosorbent Assay (ELISA) were calculated, expressed as geometric mean concentrations (GMCs) in ELISA unit per milliliter (EL.U/mL) and tabulated. The seropositivity cut-off for the assay was $\geq 5 \text{ EL.U/mL}$. Antibody concentrations below the cut-off of the assay were given an arbitrary value of half the cut-off for the purpose of GMC calculation. For this endpoint, the analysis was performed on the according-to-protocol cohort for immunogenicity, e. a., evaluable subjects for whom assay results were available for antibodies against at least one study vaccine antigen component after booster vaccination.

End point type	Secondary
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End point timeframe:

Prior to (PRE) and one month (Month 1) post booster vaccination

End point values	10Pn-10Pn Group	7Pn-7Pn Group	7Pn-10Pn Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	344	46	136	
Units: EL.U/mL				
geometric mean (confidence interval 95%)				
Anti-PT, PRE (N=332;34;133)	5.5 (5.1 to 6.1)	7.3 (5.2 to 10.3)	7 (6.1 to 8.1)	
Anti-PT, Month 1 (N=338;46;135)	79.6 (73.8 to 85.9)	76 (60.4 to 95.7)	85.8 (76.9 to 95.7)	
Anti-FHA, PRE (N=343;36;135)	27.1 (24.4 to 30.1)	29 (20.5 to 40.8)	35.5 (29.7 to 42.3)	
Anti-FHA, Month 1 (N=343;46;136)	357.7 (332.6 to 384.7)	334.5 (278.1 to 402.2)	400.2 (356.4 to 449.5)	
Anti-PRN, PRE (N=344;34;136)	9.1 (8.2 to 10.1)	11.1 (7.6 to 16.2)	12.1 (10.1 to 14.6)	
Anti-PRN, Month 1 (N=342;45;135)	248.9 (226.5 to 273.4)	204.6 (155.8 to 268.7)	276.5 (239.1 to 319.7)	

Statistical analyses

No statistical analyses for this end point

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

End point title	Anti-diphtheria (Anti-D) and anti-tetanus toxoids (Anti-TT) antibody concentrations
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End point description:

Anti-D and Anti-TT antibody concentrations were calculated, expressed as geometric mean concentrations (GMCs), in International units per milliliter (IU/mL), and tabulated. The seropositivity cut-off for the assay was ≥ 0.1 IU/mL. Antibody concentrations below the cut-off of the assay were given an arbitrary value of half the cut-off for the purpose of GMC calculation. For this endpoint, the analysis was performed on the according-to-protocol cohort for immunogenicity, e. a., evaluable subjects for whom assay results were available for antibodies against at least one study vaccine antigen component after booster vaccination.

End point type	Secondary
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End point timeframe:

Prior to (PRE) and one month (Month 1) post booster vaccination

End point values	10Pn-10Pn Group	7Pn-7Pn Group	7Pn-10Pn Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	344	46	136	
Units: EL.U/mL				
geometric mean (confidence interval 95%)				
Anti-D, PRE (N=344;34;136)	0.179 (0.161 to 0.199)	0.291 (0.2 to 0.424)	0.29 (0.25 to 0.336)	
Anti-D, Month 1 (N=343;45;136)	5.809 (5.352 to 6.305)	6.272 (4.883 to 8.055)	9.337 (8.419 to 10.356)	
Anti-TT, PRE (N=344;35;136)	0.417 (0.382 to 0.456)	0.261 (0.187 to 0.364)	0.265 (0.225 to 0.313)	

Anti-TT, Month 1 (N=343;46;136)	9.983 (9.293 to 10.724)	4.28 (3.294 to 5.562)	5.677 (5.038 to 6.397)	
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Statistical analyses

No statistical analyses for this end point

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

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

Anti-HBs antibody concentrations were calculated, expressed as geometric mean concentrations (GMCs), in milli-International unit per milliliter (IU/mL), and tabulated. The seropositivity cut-off for the assay was ≥ 10 mIU/mL. Antibody concentrations below the cut-off of the assay were given an arbitrary value of half the cut-off for the purpose of GMC calculation. For this endpoint, the analysis was performed on the according-to-protocol cohort for immunogenicity, e. a., evaluable subjects for whom assay results were available for antibodies against at least one study vaccine antigen component after booster vaccination.

End point type	Secondary
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End point timeframe:

Prior to (PRE) and one month (Month 1) post booster vaccination

End point values	10Pn-10Pn Group	7Pn-7Pn Group	7Pn-10Pn Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	329	48	134	
Units: mIU/mL				
geometric mean (confidence interval 95%)				
Anti-HBs, PRE (N=329;48;134)	147.2 (124.7 to 173.7)	148.9 (100.4 to 220.8)	156.6 (125.5 to 195.5)	
Anti-HBs, Month 1 (N=325;47;132)	3869.1 (3218.1 to 4651.8)	3132.2 (1906.3 to 5146.5)	4358.6 (3495.5 to 5434.8)	

Statistical analyses

No statistical analyses for this end point

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

End point title	Anti-polio type 1, 2 and 3 (Anti-Polio 1, 2 and 3) antibody titers
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End point description:

Anti-Polio 1, 2 and 3 antibody titers were calculated, expressed as geometric mean titers (GMTs) and tabulated. The seroprotection cut-off for the assay was ≥ 8 . Antibody titers below the cut-off of the assay were given an arbitrary value of half the cut-off for the purpose of GMT calculation. For this endpoint, the analysis was performed on the according-to-protocol cohort for immunogenicity, e. a., evaluable subjects for whom assay results were available for antibodies against at least one study vaccine antigen component after booster vaccination.

End point type	Secondary
End point timeframe:	
Prior to (PRE) and one month (Month 1) post booster vaccination	

End point values	10Pn-10Pn Group	7Pn-7Pn Group	7Pn-10Pn Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	318	48	131	
Units: Titers				
geometric mean (confidence interval 95%)				
Anti-Polio 1, PRE (N=318;48;131)	25.3 (21.9 to 29.3)	21.2 (15 to 30)	27.1 (20.7 to 35.4)	
Anti-Polio 1, Month 1 (N=279;42;121)	904.4 (779.7 to 1049.1)	819.3 (552.9 to 1214.2)	1003.7 (817.5 to 1232.3)	
Anti-Polio 2, PRE (N=317;46;130)	20.8 (18.1 to 24)	12.9 (8.8 to 18.9)	17.9 (14.1 to 22.8)	
Anti-Polio 2 , Month 1 (N=280;43;122)	793.5 (679.7 to 926.3)	495.7 (300.2 to 818.5)	661.2 (496.7 to 880.3)	
Anti-Polio 3, PRE (N=262;39;113)	33.7 (28.5 to 39.8)	25.8 (16.7 to 39.8)	28.2 (21.6 to 36.8)	
Anti-Polio 3, Month 1 (N=270;41;116)	1465 (1257.1 to 1707.3)	1191.7 (743.1 to 1911.3)	1646.5 (1294.4 to 2094.5)	

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects booster (BST) responder to pertussis toxoid (PT), filamentous haemagglutinin (FHA) and pertactin antigens

End point title	Number of subjects booster (BST) responder to pertussis toxoid (PT), filamentous haemagglutinin (FHA) and pertactin antigens
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End point description:

A BST responder to PT, FHA and PRN antigens was defined as a subject with the appearance of antibodies in subjects who were seronegative prior to the booster vaccination or at least 2-fold increase of pre-booster vaccination antibody concentrations in subjects who were seropositive prior to the booster vaccination. A seropositive/seronegative subject as regards Anti-PT/-FHA/ -PRN antibodies was defined as a subject with anti-PT/-FHA/ -PRN antibody concentrations ≥ 5 Enzyme-linked Immunosorbent assay (ELISA) unit per milli-liter (EL.U/mL)

End point type	Secondary
End point timeframe:	
One month (Month 1) post booster vaccination	

End point values	10Pn-10Pn Group	7Pn-7Pn Group	7Pn-10Pn Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	340	33	135	
Units: Subjects				
BST responder to PT antigens (N=324;31;132)	323	31	132	
BST responder to FHA antigens (N=340;33;135)	332	31	129	
BST responder to PRN antigens (N=340;31;135)	339	30	131	

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Solicited local and general symptoms: During the 4 days post booster; Unsolicited AEs: During the 31 days post booster; SAEs: From Month 0 prior to booster vaccination up to Month 6, end of the extended safety follow-up in this study 10PN-PD-DIT-007

Adverse event reporting additional description:

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

Assessment type	Non-systematic
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Dictionary used

Dictionary name	MedDRA
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Dictionary version	10.0
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Reporting groups

Reporting group title	10Pn-10Pn Group
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Reporting group description:

This group consisted of subjects previously vaccinated with the 10Pn-PD-DiT vaccine (also referred as 10Pn vaccine or Synflorix™) as part of a previous study by GSK Biologicals – the 10PN-PD-DIT-001 (105553) study (EuDRA-CT number: 2005-003300-11). As part of the 105553 study, subjects had received a 3-dose primary vaccination of 10Pn vaccine at 2, 3 and 4 months of age (injected intramuscularly [IM] in the right thigh) co-administered with DTPa-HBV-IPV/Hib vaccine (or Infanrix hexa™), except for the second dose in France, which was co-administered with DTPa-IPV/Hib (or Infanrix™ IPV Hib), injected intramuscularly in the left thigh. As part of this study, at 12-18 months of age, subjects received a booster dose of 10Pn vaccine, injected IM in the right thigh or deltoid, co-administered with DTPa-HBV-IPV/Hib vaccine, injected IM in the left thigh or deltoid.

Reporting group title	7Pn-10Pn Group
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Reporting group description:

This group consisted of subjects previously vaccinated with the 7Pn vaccine (also referred as Prevenar™) as part of a previous study by GSK Biologicals – the 10PN-PD-DIT-001 (105553) study (EuDRA-CT number: 2005-003300-11). As part of the 105553 study, subjects had received a 3-dose primary vaccination of 7Pn vaccine at 2, 3 and 4 months of age (injected intramuscularly [IM] in the right thigh) co-administered with DTPa-HBV-IPV/Hib vaccine (or Infanrix hexa™), except for the second dose in France, which was co-administered with DTPa-IPV/Hib (or Infanrix™ IPV Hib), injected intramuscularly in the left thigh. As part of this study, at 12-18 months of age, subjects received a booster dose of 10Pn-PD-DiT vaccine (also referred as 10Pn vaccine or Synflorix™), injected IM in the right thigh or deltoid, co-administered with DTPa-HBV-IPV/Hib vaccine, injected IM in the left thigh or deltoid.

Reporting group title	7Pn-7Pn Group
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Reporting group description:

This group consisted of subjects previously vaccinated with the 7Pn vaccine (also referred as Prevenar™) as part of a previous study by GSK Biologicals – the 10PN-PD-DIT-001 (105553) study (EuDRA-CT number: 2005-003300-11). As part of the 105553 study, subjects had received a 3-dose primary vaccination of 7Pn vaccine at 2, 3 and 4 months of age (injected intramuscularly [IM] in the right thigh) co-administered with DTPa-HBV-IPV/Hib vaccine (or Infanrix hexa™), except for the second dose in France, which was co-administered with DTPa-IPV/Hib (or Infanrix™ IPV Hib), injected intramuscularly in the left thigh. As part of this study, at 12-18 months of age, subjects received a booster dose of 7Pn vaccine, injected IM in the right thigh or deltoid, co-administered with DTPa-HBV-IPV/Hib vaccine, injected IM in the left thigh or deltoid.

Serious adverse events	10Pn-10Pn Group	7Pn-10Pn Group	7Pn-7Pn Group
Total subjects affected by serious adverse events			
subjects affected / exposed	33 / 737 (4.48%)	8 / 283 (2.83%)	6 / 92 (6.52%)
number of deaths (all causes)	0	0	0

number of deaths resulting from adverse events	0	0	0
Injury, poisoning and procedural complications			
Drug toxicity (post booster)	Additional description: SAE reported within the 31 days after the booster		
subjects affected / exposed	1 / 737 (0.14%)	0 / 283 (0.00%)	0 / 92 (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
Concussion (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[1]	1 / 726 (0.14%)	0 / 282 (0.00%)	0 / 91 (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
Drug toxicity (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[2]	1 / 726 (0.14%)	0 / 282 (0.00%)	0 / 91 (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
Limb injury (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[3]	1 / 726 (0.14%)	0 / 282 (0.00%)	0 / 91 (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
Thermal burn (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[4]	0 / 726 (0.00%)	0 / 282 (0.00%)	1 / 91 (1.10%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Nervous system disorders			
Febrile convulsion (post booster)	Additional description: SAE reported within the 31 days after the booster		
subjects affected / exposed	1 / 737 (0.14%)	0 / 283 (0.00%)	0 / 92 (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
Febrile convulsion (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		

alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[5]	2 / 726 (0.28%)	0 / 282 (0.00%)	0 / 91 (0.00%)
occurrences causally related to treatment / all	0 / 2	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Blood and lymphatic system disorders			
Microcytic anaemia (post booster)	Additional description: SAE reported within the 31 days after the booster		
subjects affected / exposed	1 / 737 (0.14%)	0 / 283 (0.00%)	0 / 92 (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
Microcytic anaemia(til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[6]	1 / 726 (0.14%)	0 / 282 (0.00%)	0 / 91 (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
General disorders and administration site conditions			
Oedema peripheral (post booster)	Additional description: SAE reported within the 31 days after the booster		
subjects affected / exposed	0 / 737 (0.00%)	1 / 283 (0.35%)	0 / 92 (0.00%)
occurrences causally related to treatment / all	0 / 0	1 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Oedema peripheral (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[7]	0 / 726 (0.00%)	1 / 282 (0.35%)	0 / 91 (0.00%)
occurrences causally related to treatment / all	0 / 0	1 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Gastrointestinal disorders			
Gastritis (post booster)	Additional description: SAE reported within the 31 days after the booster		
subjects affected / exposed	1 / 737 (0.14%)	0 / 283 (0.00%)	0 / 92 (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
Diarrhoea (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			

subjects affected / exposed ^[8]	1 / 726 (0.14%)	0 / 282 (0.00%)	1 / 91 (1.10%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Gastritis (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[9]	1 / 726 (0.14%)	0 / 282 (0.00%)	0 / 91 (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
Stomatitis (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[10]	1 / 726 (0.14%)	0 / 282 (0.00%)	0 / 91 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Respiratory, thoracic and mediastinal disorders			
Asthma (post booster)	Additional description: SAE reported within the 31 days after the booster		
subjects affected / exposed	1 / 737 (0.14%)	0 / 283 (0.00%)	0 / 92 (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
Bronchitis chronic (post booster)	Additional description: SAE reported within the 31 days after the booster		
subjects affected / exposed	0 / 737 (0.00%)	2 / 283 (0.71%)	0 / 92 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 2	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Asthma (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[11]	1 / 726 (0.14%)	0 / 282 (0.00%)	0 / 91 (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
Bronchitis chronic (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[12]	6 / 726 (0.83%)	4 / 282 (1.42%)	0 / 91 (0.00%)
occurrences causally related to treatment / all	0 / 6	0 / 4	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Skin and subcutaneous tissue disorders			
Dermatitis atopic (post booster)			
Additional description: SAE reported within the 31 days after the booster			
subjects affected / exposed	1 / 737 (0.14%)	0 / 283 (0.00%)	0 / 92 (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
Dermatitis atopic (til study end)			
Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase			
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[13]	1 / 726 (0.14%)	0 / 282 (0.00%)	0 / 91 (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
Purpura (til study end)			
Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase			
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[14]	1 / 726 (0.14%)	0 / 282 (0.00%)	0 / 91 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Infections and infestations			
Bronchitis (post booster)			
Additional description: SAE reported within the 31 days after the booster			
subjects affected / exposed	1 / 737 (0.14%)	1 / 283 (0.35%)	1 / 92 (1.09%)
occurrences causally related to treatment / all	0 / 1	0 / 1	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Ear infection (post booster)			
Additional description: SAE reported within the 31 days after the booster			
subjects affected / exposed	0 / 737 (0.00%)	0 / 283 (0.00%)	1 / 92 (1.09%)
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 (post booster)			
Additional description: SAE reported within the 31 days after the booster			
subjects affected / exposed	3 / 737 (0.41%)	1 / 283 (0.35%)	0 / 92 (0.00%)
occurrences causally related to treatment / all	0 / 3	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Gastroenteritis rotavirus (post booster)			
Additional description: SAE reported within the 31 days after the booster			
subjects affected / exposed	1 / 737 (0.14%)	0 / 283 (0.00%)	0 / 92 (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
Laryngitis (post booster)			
Additional description: SAE reported within the 31 days after the booster			

subjects affected / exposed	0 / 737 (0.00%)	0 / 283 (0.00%)	1 / 92 (1.09%)
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 (post booster)	Additional description: SAE reported within the 31 days after the booster		
subjects affected / exposed	0 / 737 (0.00%)	1 / 283 (0.35%)	0 / 92 (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
Pharyngitis (post booster)	Additional description: SAE reported within the 31 days after the booster		
subjects affected / exposed	2 / 737 (0.27%)	0 / 283 (0.00%)	0 / 92 (0.00%)
occurrences causally related to treatment / all	0 / 2	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Pneumonia (post booster)	Additional description: SAE reported within the 31 days after the booster		
subjects affected / exposed	1 / 737 (0.14%)	0 / 283 (0.00%)	0 / 92 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Respiratory tract infection (post booster)	Additional description: SAE reported within the 31 days after the booster		
subjects affected / exposed	1 / 737 (0.14%)	0 / 283 (0.00%)	0 / 92 (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
Upper respiratory tract infection (post booster)	Additional description: SAE reported within the 31 days after the booster		
subjects affected / exposed	1 / 737 (0.14%)	0 / 283 (0.00%)	0 / 92 (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
Adenovirus infection (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[15]	1 / 726 (0.14%)	0 / 282 (0.00%)	0 / 91 (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
Bronchiolitis (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			

subjects affected / exposed ^[16]	0 / 726 (0.00%)	0 / 282 (0.00%)	1 / 91 (1.10%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Bronchitis (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[17]	2 / 726 (0.28%)	2 / 282 (0.71%)	1 / 91 (1.10%)
occurrences causally related to treatment / all	0 / 2	0 / 2	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Ear infection (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[18]	0 / 726 (0.00%)	0 / 282 (0.00%)	1 / 91 (1.10%)
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 rotavirus (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[19]	1 / 726 (0.14%)	1 / 282 (0.35%)	1 / 91 (1.10%)
occurrences causally related to treatment / all	0 / 1	0 / 1	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Laryngitis (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[20]	1 / 726 (0.14%)	0 / 282 (0.00%)	2 / 91 (2.20%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 2
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Nasopharyngitis (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[21]	1 / 726 (0.14%)	1 / 282 (0.35%)	0 / 91 (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
Otitis media (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			

subjects affected / exposed ^[22]	0 / 726 (0.00%)	1 / 282 (0.35%)	0 / 91 (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
Pharyngitis (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[23]	2 / 726 (0.28%)	0 / 282 (0.00%)	0 / 91 (0.00%)
occurrences causally related to treatment / all	0 / 2	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Pneumonia (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[24]	2 / 726 (0.28%)	0 / 282 (0.00%)	0 / 91 (0.00%)
occurrences causally related to treatment / all	0 / 2	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Pyelonephritis (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[25]	1 / 726 (0.14%)	0 / 282 (0.00%)	0 / 91 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Respiratory tract infection (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[26]	1 / 726 (0.14%)	1 / 282 (0.35%)	0 / 91 (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
Upper respiratory tract infection (til study end)	Additional description: : SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[27]	1 / 726 (0.14%)	0 / 282 (0.00%)	0 / 91 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Gastroenteritis (til study end)			
alternative dictionary used: MedDRA 11.0			

subjects affected / exposed ^[28]	9 / 726 (1.24%)	1 / 282 (0.35%)	0 / 91 (0.00%)
occurrences causally related to treatment / all	0 / 9	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Metabolism and nutrition disorders			
Dehydration (post booster)	Additional description: SAE reported within the 31 days after the booster		
subjects affected / exposed	1 / 737 (0.14%)	0 / 283 (0.00%)	0 / 92 (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
Dehydration (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[29]	1 / 726 (0.14%)	0 / 282 (0.00%)	0 / 91 (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
Weight gain poor (til study end)	Additional description: SAE reported within the 31 days after the booster and during the ESFU, based on subjects participating for the ESFU phase		
alternative dictionary used: MedDRA 11.0			
subjects affected / exposed ^[30]	1 / 726 (0.14%)	0 / 282 (0.00%)	0 / 91 (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

Notes:

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

Justification: Analysis for this event was performed on subjects analysed and/or available results.

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

Justification: Analysis for this event was performed on subjects analysed and/or available results.

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

Justification: Analysis for this event was performed on subjects analysed and/or available results.

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

Justification: Analysis for this event was performed on subjects analysed and/or available results.

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

Justification: Analysis for this event was performed on subjects analysed and/or available results.

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

Justification: Analysis for this event was performed on subjects analysed and/or available results.

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

Justification: Analysis for this event was performed on subjects analysed and/or available results.

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

Justification: Analysis for this event was performed on subjects analysed and/or available results.

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

Justification: Analysis for this event was performed on subjects analysed and/or available results.

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

Justification: Analysis for this event was performed on subjects analysed and/or available results.

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

Non-serious adverse events	10Pn-10Pn Group	7Pn-10Pn Group	7Pn-7Pn Group
Total subjects affected by non-serious adverse events			
subjects affected / exposed	452 / 737 (61.33%)	176 / 283 (62.19%)	59 / 92 (64.13%)
General disorders and administration site conditions			
Pain			
alternative assessment type: Systematic			
subjects affected / exposed ^[31]	452 / 735 (61.50%)	150 / 282 (53.19%)	48 / 91 (52.75%)
occurrences (all)	452	150	48
Redness			
alternative assessment type: Systematic			
subjects affected / exposed ^[32]	451 / 735 (61.36%)	153 / 282 (54.26%)	59 / 91 (64.84%)
occurrences (all)	451	153	59
Swelling			
alternative assessment type: Systematic			
subjects affected / exposed ^[33]	338 / 735 (45.99%)	112 / 282 (39.72%)	42 / 91 (46.15%)
occurrences (all)	338	112	42
Drowsiness			
alternative assessment type: Systematic			
subjects affected / exposed ^[34]	303 / 735 (41.22%)	130 / 282 (46.10%)	48 / 91 (52.75%)
occurrences (all)	303	130	48
Fever (rectal temperature $\geq 38^{\circ}\text{C}$)			
alternative assessment type: Systematic			
subjects affected / exposed ^[35]	245 / 735 (33.33%)	112 / 282 (39.72%)	33 / 91 (36.26%)
occurrences (all)	245	112	33
Irritability			
alternative assessment type: Systematic			
subjects affected / exposed ^[36]	438 / 735 (59.59%)	176 / 282 (62.41%)	55 / 91 (60.44%)
occurrences (all)	438	176	55
Loss of appetite			
alternative assessment type: Systematic			

subjects affected / exposed ^[37]	230 / 735 (31.29%)	92 / 282 (32.62%)	31 / 91 (34.07%)
occurrences (all)	230	92	31
Injection site induration			
subjects affected / exposed	1 / 737 (0.14%)	7 / 283 (2.47%)	7 / 92 (7.61%)
occurrences (all)	1	7	7
Infections and infestations			
Rhinitis			
subjects affected / exposed	28 / 737 (3.80%)	19 / 283 (6.71%)	4 / 92 (4.35%)
occurrences (all)	28	19	4
Upper respiratory tract infection			
subjects affected / exposed	25 / 737 (3.39%)	13 / 283 (4.59%)	5 / 92 (5.43%)
occurrences (all)	25	13	5

Notes:

[31] - 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: Analysis for this event was performed on subjects analysed and/or available results.

[32] - 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: Analysis for this event was performed on subjects analysed and/or available results.

[33] - 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: Analysis for this event was performed on subjects analysed and/or available results.

[34] - 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: Analysis for this event was performed on subjects analysed and/or available results.

[35] - 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: Analysis for this event was performed on subjects analysed and/or available results.

[36] - 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: Analysis for this event was performed on subjects analysed and/or available results.

[37] - 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: Analysis for this event was performed on subjects analysed and/or available results.

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? No

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported