



## Clinical trial results:

**A phase III long-term follow-up study to assess the immune responses following vaccination at 36-46 months of age with a booster dose of GSK Biologicals' 10-valent pneumococcal conjugate vaccine (10Pn-PD-DiT) and to evaluate the immunogenicity and safety of a 2-dose catch-up immunization course with the 10Pn-PD-DiT vaccine in the fourth year of life.**

### Summary

EudraCT number	2008-003950-14
Trial protocol	SK SE
Global end of trial date	02 July 2009

### Results information

Result version number	v1 (current)
This version publication date	05 April 2016
First version publication date	04 April 2015

### Trial information

#### Trial identification

Sponsor protocol code	111736
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#### Additional study identifiers

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	NCT00984139
WHO universal trial number (UTN)	-

Notes:

### Sponsors

Sponsor organisation name	GlaxoSmithKline Biologicals
Sponsor organisation address	Rue de l'Institut 89, Rixensart, Belgium, B-1330
Public contact	Clinical Trials Call Center, GlaxoSmithKline Biologicals, 044 2089-904466, GSKClinicalSupportHD@gsk.com
Scientific contact	Clinical Trials Call Center, GlaxoSmithKline Biologicals, 044 2089-904466, GSKClinicalSupportHD@gsk.com

Notes:

### Paediatric regulatory details

Is trial part of an agreed paediatric investigation plan (PIP)	Yes
EMA paediatric investigation plan number(s)	EMA-000673-PIP01-09
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?	No

Notes:

## Results analysis stage

Analysis stage	Final
Date of interim/final analysis	12 November 2009
Is this the analysis of the primary completion data?	No
Global end of trial reached?	Yes
Global end of trial date	02 July 2009
Was the trial ended prematurely?	No

Notes:

## General information about the trial

Main objective of the trial:

To assess the immune responses following vaccination with a booster dose of the 10Pn-PD-DiT vaccine administered at 36-46 months of age in children previously vaccinated with the 10Pn-PD-DiT vaccine in study 10PN-PD-DIT-002 (105539) according to either a 3-dose or 2-dose primary vaccination within the first 6 months of age and booster vaccination at 11 months of age and to assess the immune responses following vaccination with a single dose of the 10Pn-PD-DiT vaccine in age-matched unprimed children.

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. Subjects were followed-up for minimum 30 days after the last vaccination/product administration.

Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	02 December 2008
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	Slovakia: 85
Country: Number of subjects enrolled	Sweden: 87
Worldwide total number of subjects	172
EEA total number of subjects	172

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	0

months)	
Children (2-11 years)	172
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: -

### Pre-assignment

Screening details: -

### Pre-assignment period milestones

Number of subjects started	172
Number of subjects completed	172

### Period 1

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

### Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	10Pn-2d group

Arm description:

Subjects previously vaccinated with the 10Pn-PD-DiT vaccine according to a 2+1 schedule, receiving one dose of 10Pn-PD-DiT at 36-46 months of age, i.e. 24-34 months after the last dose given in study 10PN-PD-DIT-002 (105539).

Arm type	Experimental
Investigational medicinal product name	Synflorix™
Investigational medicinal product code	
Other name	10Pn-PD-DiT
Pharmaceutical forms	Suspension for injection
Routes of administration	Intramuscular use

Dosage and administration details:

Subjects received one additional dose of 10Pn-PD-DiT at 36-46 months of age, i.e. 24-34 months after the last dose given in study 10PN-PD-DIT-002 (105539) administered intramuscularly in the right deltoid

<b>Arm title</b>	10Pn-3d group
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Arm description:

Subjects previously vaccinated with the 10Pn-PD-DiT vaccine according to a 3+1 schedule, receiving one dose of 10Pn-PD-DiT at 36-46 months of age, i.e. 24-34 months after the last dose given in study 10PN-PD-DIT-002 (105539).

Arm type	Experimental
Investigational medicinal product name	Synflorix™
Investigational medicinal product code	
Other name	10Pn-PD-DiT
Pharmaceutical forms	Suspension for injection
Routes of administration	Intramuscular use

Dosage and administration details:

Subjects received one additional dose of 10Pn-PD-DiT at 36-46 months of age, i.e. 24-34 months after the last dose given in study 10PN-PD-DIT-002 (105539) administered intramuscularly in the right deltoid

<b>Arm title</b>	Unprimed group
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**Arm description:**

Age-matched subjects not previously vaccinated with any pneumococcal vaccine receiving two doses of 10Pn-PD-DiT at 36-46 and 38-48 months of age. Age-matching was ensured by the enrolment of subjects 36-46 months of age.

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

**Dosage and administration details:**

Subject received 2 doses of 10Pn-PD-DiT at 36-46 and 38-48 months of age, administered intramuscularly in the right deltoid.

<b>Number of subjects in period 1</b>	10Pn-2d group	10Pn-3d group	Unprimed group
Started	51	59	62
Completed	51	58	62
Not completed	0	1	0
Consent withdrawn by subject	-	1	-

## Baseline characteristics

### Reporting groups

Reporting group title	10Pn-2d group
Reporting group description: Subjects previously vaccinated with the 10Pn-PD-DiT vaccine according to a 2+1 schedule, receiving one dose of 10Pn-PD-DiT at 36-46 months of age, i.e. 24-34 months after the last dose given in study 10PN-PD-DIT-002 (105539).	
Reporting group title	10Pn-3d group
Reporting group description: Subjects previously vaccinated with the 10Pn-PD-DiT vaccine according to a 3+1 schedule, receiving one dose of 10Pn-PD-DiT at 36-46 months of age, i.e. 24-34 months after the last dose given in study 10PN-PD-DIT-002 (105539).	
Reporting group title	Unprimed group
Reporting group description: Age-matched subjects not previously vaccinated with any pneumococcal vaccine receiving two doses of 10Pn-PD-DiT at 36-46 and 38-48 months of age. Age-matching was ensured by the enrolment of subjects 36-46 months of age.	

Reporting group values	10Pn-2d group	10Pn-3d group	Unprimed group
Number of subjects	51	59	62
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			
arithmetic mean	38.2	38	40.1
standard deviation	± 1.83	± 1.81	± 2.64
Gender categorical Units: Subjects			
Female	25	25	31
Male	26	34	31

Reporting group values	Total		
Number of subjects	172		
Age categorical Units: Subjects			
In utero Preterm newborn infants (gestational age < 37 wks) Newborns (0-27 days)	0 0 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 arithmetic mean standard deviation	-		
Gender categorical Units: Subjects			
Female	81		
Male	91		

## End points

### End points reporting groups

Reporting group title	10Pn-2d group
Reporting group description: Subjects previously vaccinated with the 10Pn-PD-DiT vaccine according to a 2+1 schedule, receiving one dose of 10Pn-PD-DiT at 36-46 months of age, i.e. 24-34 months after the last dose given in study 10PN-PD-DIT-002 (105539).	
Reporting group title	10Pn-3d group
Reporting group description: Subjects previously vaccinated with the 10Pn-PD-DiT vaccine according to a 3+1 schedule, receiving one dose of 10Pn-PD-DiT at 36-46 months of age, i.e. 24-34 months after the last dose given in study 10PN-PD-DIT-002 (105539).	
Reporting group title	Unprimed group
Reporting group description: Age-matched subjects not previously vaccinated with any pneumococcal vaccine receiving two doses of 10Pn-PD-DiT at 36-46 and 38-48 months of age. Age-matching was ensured by the enrolment of subjects 36-46 months of age.	

### Primary: Antibody Geometric Mean Concentrations (GMCs) against the vaccine pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F in the Unprimed group

End point title	Antibody Geometric Mean Concentrations (GMCs) against the vaccine pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F in the Unprimed group <sup>[1][2]</sup>
End point description: Antibodies assessed for this outcome measure were those against the vaccine 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). 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. The results presented for the time point 7-10 days after dose 1 (Day 7), correspond to the primary outcome.	
End point type	Primary
End point timeframe: Pre-vaccination (PRE), one week after dose 1 (Day 7) and one month after dose 2 (Month 3)	

Notes:

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

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

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

Justification: When time frames are not the same for the 3 groups for a same endpoint, the endpoint has been duplicated: the first one for presenting results in the 10Pn-2d and 10Pn-3d groups and the second one for presenting the results in the Unprimed group.

End point values	Unprimed group			
Subject group type	Reporting group			
Number of subjects analysed	60			
Units: µg/mL				
geometric mean (confidence interval 95%)				
Anti-1 at PRE (N= 60)	0.06 (0.05 to 0.08)			



Anti-1 at Day 7 (N= 60)	0.6 (0.47 to 0.76)			
Anti-1 at Month 3 (N= 60)	2.81 (2.25 to 3.51)			
Anti-4 at PRE (N= 60)	0.04 (0.03 to 0.05)			
Anti-4 at Day 7 (N= 60)	2.37 (1.91 to 2.94)			
Anti-4 at Month 3 (N= 60)	8.44 (7.16 to 9.94)			
Anti-5 at PRE (N= 60)	0.07 (0.05 to 0.09)			
Anti-5 at Day 7 (N= 60)	0.45 (0.34 to 0.59)			
Anti-5 at Month 3 (N= 60)	3.54 (2.96 to 4.23)			
Anti-6B at PRE (N= 60)	0.1 (0.07 to 0.13)			
Anti-6B at Day 7 (N= 58)	0.2 (0.14 to 0.29)			
Anti-6B at Month 3 (N= 60)	1.11 (0.84 to 1.46)			
Anti-7F at PRE (N= 60)	0.08 (0.05 to 0.12)			
Anti-7F at Day 7 (N= 60)	0.92 (0.67 to 1.25)			
Anti-7F at Month 3 (N= 60)	6.1 (4.99 to 7.46)			
Anti-9V at PRE (N= 60)	0.05 (0.04 to 0.07)			
Anti-9V at Day 7 (N= 60)	0.33 (0.23 to 0.48)			
Anti-9V at Month 3 (N= 60)	2.22 (1.74 to 2.82)			
Anti-14 at PRE (N= 60)	0.25 (0.16 to 0.38)			
Anti-14 at Day 7 (N= 60)	0.54 (0.34 to 0.86)			
Anti-14 at Month 3 (N= 60)	6.48 (4.98 to 8.44)			
Anti-18C at PRE (N= 60)	0.06 (0.04 to 0.08)			
Anti-18C at Day 7 (N= 59)	1.45 (1.01 to 2.06)			
Anti-18C at Month 3 (N= 60)	22.28 (18.14 to 27.36)			
Anti-19F at PRE (N= 60)	0.23 (0.14 to 0.38)			
Anti-19F at Day 7 (N= 59)	1.82 (1.27 to 2.6)			
Anti-19F at Month 3 (N= 60)	17.03 (13.38 to 21.68)			
Anti-23F at PRE (N= 60)	0.06 (0.04 to 0.08)			
Anti-23F at Day 7 (N= 60)	0.1 (0.07 to 0.15)			
Anti-23F at Month 3 (N= 60)	1.09 (0.81 to 1.45)			

## Statistical analyses

No statistical analyses for this end point

### Primary: Antibody Geometric Mean Concentrations (GMCs) against the vaccine pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F in the 10Pn-2d and 10Pn-3d groups

End point title	Antibody Geometric Mean Concentrations (GMCs) against the vaccine pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F in the 10Pn-2d and 10Pn-3d groups <sup>[3][4]</sup>
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End point description:

Antibodies assessed for this outcome measure were those against the vaccine 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). 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. The results presented for the time point 7-10 days after immunization (Mth34+D7), correspond to the primary outcome.

End point type	Primary
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End point timeframe:

1 month after booster dose (Month 10) –in primary study 105539), pre-additional dose at Month 34 in the current study (Month 34) and one week after vaccination at Month 34+7 days (Mth34+D7)

Notes:

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

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

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

Justification: When time frames are not the same for the 3 groups for a same endpoint, the endpoint has been duplicated: the first one for presenting results in the 10Pn-2d and 10Pn-3d groups and the second one for presenting the results in the Unprimed group.

End point values	10Pn-2d group	10Pn-3d group		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	50	57		
Units: µg/mL				
geometric mean (confidence interval 95%)				
Anti-1 at Month 10 (N=50,57)	1.91 (1.52 to 2.42)	1.87 (1.49 to 2.33)		
Anti-1 at Month 34 (N=49,57)	0.13 (0.1 to 0.17)	0.17 (0.14 to 0.22)		
Anti-1 at Mth34+D7(N=50,55)	4.06 (3.2 to 5.15)	4.72 (3.77 to 5.92)		
Anti-4 at Month 10 (N=50,57)	2.97 (2.34 to 3.77)	3.2 (2.62 to 3.91)		
Anti-4 at Month 34 (N=48,54)	0.15 (0.1 to 0.23)	0.19 (0.14 to 0.25)		
Anti-4 at Mth34+D (N=49,55)	7.54 (5.98 to 9.5)	9.97 (7.68 to 12.95)		
Anti-5 at Month 10 (N=50,57)	2.71 (2.15 to 3.41)	3.01 (2.4 to 3.76)		
Anti-5 at Month 34 (N=50,57)	0.24 (0.19 to 0.31)	0.33 (0.26 to 0.42)		
Anti-5 at Mth34+D (N=50,55)	5.38 (4.09 to 7.08)	7.07 (5.51 to 9.09)		
Anti-6B at Month 10 (N=50,57)	0.9 (0.59 to 1.36)	1.62 (1.16 to 2.27)		
Anti-6B at Month 34 (N=48,57)	0.5 (0.29 to 0.88)	1.01 (0.62 to 1.64)		

Anti-6B at Mth34+D7 (N=50,55)	4 (2.82 to 5.69)	6.33 (4.75 to 8.45)		
Anti-7F at Month 10 (N=50,57)	2.94 (2.4 to 3.59)	3.88 (3.23 to 4.65)		
Anti-7F at Month 34 (N=49,56)	0.33 (0.24 to 0.46)	0.51 (0.42 to 0.61)		
Anti-7F at Mth34+D7 (N=50,55)	6.18 (5.05 to 7.56)	7.27 (5.87 to 9.01)		
Anti-9V at Month 10 (N=50,57)	2.59 (2.03 to 3.31)	3.81 (3.11 to 4.67)		
Anti-9V at Month 34 (N=50,57)	0.24 (0.18 to 0.33)	0.49 (0.34 to 0.69)		
Anti-9V at Mth34+D7 (N=50,55)	7.48 (5.88 to 9.51)	10.17 (7.86 to 13.16)		
Anti-14 at Month 10 (N=50,57)	3.91 (3.05 to 5)	5.22 (4.22 to 6.46)		
Anti-14 at Month 34 (N=50,56)	0.62 (0.39 to 0.97)	1.1 (0.69 to 1.75)		
Anti-14 at Mth34+D7 (N=50,55)	13.42 (9.7 to 18.55)	19.67 (14.97 to 25.84)		
Anti-18C at Month 10 (N=50,57)	4.87 (3.77 to 6.29)	5.52 (4.2 to 7.26)		
Anti-18C at Month 34 (N=50,56)	0.37 (0.26 to 0.54)	0.49 (0.35 to 0.7)		
Anti-18C at Mth34+D7 (N=50,55)	17.12 (12.77 to 22.94)	22.62 (17.58 to 29.11)		
Anti-19F at Month 10 (N=50,57)	6.68 (5.2 to 8.59)	6.6 (5.16 to 8.46)		
Anti-19F at Month 34 (N=47,56)	1.42 (0.8 to 2.51)	1.44 (0.82 to 2.53)		
Anti-19F at Mth34+D7 (N=50,55)	20.28 (15.71 to 26.19)	30.55 (24.32 to 38.37)		
Anti-23F at Month 10 (N=50,57)	2.12 (1.52 to 2.97)	2.67 (1.99 to 3.59)		
Anti-23F at Month 34 (N=49,56)	0.41 (0.23 to 0.71)	0.67 (0.41 to 1.11)		
Anti-23F at Mth34+D7 (N=50,55)	6.23 (4.34 to 8.94)	8.42 (6.38 to 11.11)		

## Statistical analyses

No statistical analyses for this end point

## Secondary: Number of subjects with Anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antibody concentrations $\geq 0.05$ $\mu\text{g/mL}$ in the 10Pn-2d and 10Pn-3d groups

End point title	Number of subjects with Anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antibody concentrations $\geq 0.05$ $\mu\text{g/mL}$ in the 10Pn-2d and 10Pn-3d groups <sup>[5]</sup>
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End point description:

Antibodies assessed for this outcome measure were those against the vaccine 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). Antibody concentrations were measured by 22F enzyme-linked immunosorbent assay (ELISA), expressed as geometric mean concentrations (GMCs), in micrograms per milliliter ( $\mu\text{g/mL}$ ). The seropositivity cut-off of the assay was an antibody concentration  $\geq 0.05$   $\mu\text{g/mL}$ .

End point type	Secondary
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End point timeframe:

1 month after booster dose (Month 10) –in primary study 105539), pre-additional dose at Month 34 in

## Notes:

[5] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period. Justification: When time frames are not the same for the 3 groups for a same endpoint, the endpoint has been duplicated: the first one for presenting results in the 10Pn-2d and 10Pn-3d groups and the second one for presenting the results in the Unprimed group.

End point values	10Pn-2d group	10Pn-3d group		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	50	57		
Units: Subjects				
Anti-1 at Month 10 (N=50,57)	50	57		
Anti-1 at Month 34 (N=49,57)	43	55		
Anti-1 at Mth34+D7(N=50,55)	50	55		
Anti-4 at Month 10 (N=50,57)	50	57		
Anti-4 at Month 34 (N=48,54)	41	54		
Anti-4 at Mth34+D7(N=49,55)	49	55		
Anti-5 at Month 10 (N=50,57)	50	57		
Anti-5 at Month 34 (N=50,57)	49	57		
Anti-5 at Mth34+D7(N=50,55)	50	55		
Anti-6B at Month 10 (N=50,57)	45	54		
Anti-6B at Month 34 (N=48,57)	43	56		
Anti-6B at Mth34+D7(N=50,55)	50	55		
Anti-7F at Month 10 (N=50,57)	50	57		
Anti-7F at Month 34 (N=49,56)	47	56		
Anti-7F at Mth34+D7(N=50,55)	50	55		
Anti-9V at Month 10 (N=50,57)	50	57		
Anti-9V at Month 34 (N=50,57)	48	56		
Anti-9V at Mth34+D7(N=50,55)	50	55		
Anti-14 at Month 10 (N=50,57)	50	57		
Anti-14 at Month 34 (N=50,56)	50	56		
Anti-14 at Mth34+D7 (N=50,55)	50	55		
Anti-18C at Month 10 (N=50,57)	50	57		
Anti-18C at Month 34 (N=50,56)	48	56		
Anti-18C at Mth34+D7(N=50,55)	50	55		
Anti-19F at Month 10 (N=50,57)	50	57		
Anti-19F at Month 34 (N=47,56)	47	56		
Anti-19F at Mth34+D7(N=50,55)	50	55		
Anti-23F at Month 10 (N=50,57)	49	56		
Anti-23F at Month 34 (N=49,56)	43	56		
Anti-23F at Mth34+D7(N=50,55)	49	55		

## Statistical analyses

No statistical analyses for this end point

**Secondary: Number of subjects with Anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antibody concentrations  $\geq 0.05$   $\mu\text{g/mL}$  in the Unprimed group**

End point title	Number of subjects with Anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antibody concentrations $\geq$ 0.05 $\mu\text{g/mL}$ in the Unprimed group <sup>[6]</sup>
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End point description:

Antibodies assessed for this outcome measure were those against the vaccine 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). Antibody concentrations were measured by 22F enzyme-linked immunosorbent assay (ELISA), expressed as geometric mean concentrations (GMCs), in micrograms per milliliter ( $\mu\text{g/mL}$ ). The seropositivity cut-off of the assay was an antibody concentration  $\geq$  0.05  $\mu\text{g/mL}$ .

End point type	Secondary
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End point timeframe:

Pre-vaccination (PRE), one week after dose 1 (Day 7) and one month after dose 2 (Month 3)

Notes:

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

Justification: When time frames are not the same for the 3 groups for a same endpoint, the endpoint has been duplicated: the first one for presenting results in the 10Pn-2d and 10Pn-3d groups and the second one for presenting the results in the Unprimed group.

End point values	Unprimed group			
Subject group type	Reporting group			
Number of subjects analysed	60			
Units: Subjects				
Anti-1 at PRE (N= 60)	34			
Anti-1 at Day 7 (N= 60)	60			
Anti-1 at Month 3 (N= 60)	60			
Anti-4 at PRE (N= 60)	9			
Anti-4 at Day 7 (N= 60)	60			
Anti-4 at Month 3 (N= 60)	60			
Anti-5 at PRE (N= 60)	37			
Anti-5 at Day 7 (N= 60)	60			
Anti-5 at Month 3 (N= 60)	60			
Anti-6B at PRE (N= 60)	40			
Anti-6B at Day 7 (N= 58)	49			
Anti-6B at Month 3 (N= 60)	60			
Anti-7F at PRE (N= 60)	29			
Anti-7F at Day 7 (N= 60)	60			
Anti-7F at Month 3 (N= 60)	60			
Anti-9V at PRE (N= 60)	21			
Anti-9V at Day 7 (N= 60)	58			
Anti-9V at Month 3 (N= 60)	60			
Anti-14 at PRE (N= 60)	56			
Anti-14 at Day 7 (N= 60)	58			
Anti-14 at Month 3 (N= 60)	60			
Anti-18C at PRE (N= 60)	23			
Anti-18C at Day 7 (N= 59)	59			
Anti-18C at Month 3 (N= 60)	60			
Anti-19F at PRE (N= 60)	44			
Anti-19F at Day 7 (N= 59)	59			
Anti-19F at Month 3 (N= 60)	60			
Anti-23F at PRE (N= 60)	23			
Anti-23F at Day 7 (N= 60)	39			
Anti-23F at Month 3 (N= 60)	60			

## Statistical analyses

No statistical analyses for this end point

### Secondary: Number of subjects with Anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antibody concentrations $\geq 0.20$ $\mu\text{g/mL}$ in the 10Pn-2d and 10Pn-3d groups

End point title	Number of subjects with Anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antibody concentrations $\geq 0.20$ $\mu\text{g/mL}$ in the 10Pn-2d and 10Pn-3d groups <sup>[7]</sup>
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#### End point description:

Antibodies assessed for this outcome measure were those against the vaccine 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). Antibody concentrations were measured by 22F enzyme-linked immunosorbent assay (ELISA), expressed as geometric mean concentrations (GMCs), in micrograms per milliliter ( $\mu\text{g/mL}$ ). The seropositivity cut-off of the assay was an antibody concentration  $\geq 0.05$   $\mu\text{g/mL}$ .

End point type	Secondary
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#### End point timeframe:

1 month after booster dose (Month 10) –in primary study 105539), pre-additional dose at Month 34 in the current study (Month 34) and one week after vaccination at Month 34+7 days (Mth34+D7)

#### 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: When time frames are not the same for the 3 groups for a same endpoint, the endpoint has been duplicated: the first one for presenting results in the 10Pn-2d and 10Pn-3d groups and the second one for presenting the results in the Unprimed group.

End point values	10Pn-2d group	10Pn-3d group		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	50	57		
Units: Subjects				
Anti-1 at Month 10(N=50,57)	50	57		
Anti-1 at Month 34(N=49,57)	16	28		
Anti-1 at Mth34+D7(N=50,55)	50	55		
Anti-4 at Month 10(N=50,57)	50	57		
Anti-4 at Month 34(N=48,54)	12	20		
Anti-4 at Mth34+D7(N=49,55)	49	55		
Anti-5 at Month 10(N=50,57)	50	57		
Anti-5 at Month 34(N=50,57)	31	35		
Anti-5 at Mth34+D7(N=50,55)	50	55		
Anti-6B at Month 10 (N=50,57)	44	54		
Anti-6B at Month 34(N=48,57)	29	44		
Anti-6B at Mth34+D7(N=50,55)	49	55		
Anti-7F at Month 10(N=50,57)	50	57		
Anti-7F at Month 34(N=49,56)	37	53		
Anti-7F at Mth34+D7(N=50,55)	50	55		
Anti-9V at Month 10(N=50,57)	49	57		
Anti-9V at Month 34(N=50,57)	27	45		

Anti-9V at Mth34+D7(N=50,55)	50	55		
Anti-14 at Month 10(N=50,57)	50	57		
Anti-14 at Month 34(N=50,56)	37	49		
Anti-14 at Mth34+D7(N=50,55)	50	55		
Anti-18C at Month 1(N=50,57)	50	56		
Anti-18C at Month 34(N=50, 56)	35	44		
Anti-18C at Mth34+D7(N=50,55)	50	55		
Anti-19F at Month 10(N=50,57)	49	56		
Anti-19F at Month 34(N=47,56)	39	47		
Anti-19F at Mth34+D7(N=50,55)	50	55		
Anti-23F at Month 10(N=50,57)	47	55		
Anti-23F at Month 34(N=49,56)	29	36		
Anti-23F at Mth34+D7(N=50,55)	49	55		

## Statistical analyses

No statistical analyses for this end point

### Secondary: Number of subjects with Anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antibody concentrations $\geq 0.20$ $\mu\text{g/mL}$ in the Unprimed group

End point title	Number of subjects with Anti-pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F antibody concentrations $\geq 0.20$ $\mu\text{g/mL}$ in the Unprimed group <sup>[8]</sup>
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End point description:

Antibodies assessed for this outcome measure were those against the vaccine 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). Antibody concentrations were measured by 22F enzyme-linked immunosorbent assay (ELISA), expressed as geometric mean concentrations (GMCs), in micrograms per milliliter ( $\mu\text{g/mL}$ ). The seropositivity cut-off of the assay was an antibody concentration  $\geq 0.05$   $\mu\text{g/mL}$ .

End point type	Secondary
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End point timeframe:

Pre-vaccination (PRE), one week after dose 1 (Day 7) and one month after dose 2 (Month 3)

Notes:

[8] - 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: When time frames are not the same for the 3 groups for a same endpoint, the endpoint has been duplicated: the first one for presenting results in the 10Pn-2d and 10Pn-3d groups and the second one for presenting the results in the Unprimed group.

End point values	Unprimed group			
Subject group type	Reporting group			
Number of subjects analysed	60			
Units: Subjects				
Anti-1 at PRE (N= 60)	10			
Anti-1 at Day 7 (N= 60)	54			
Anti-1 at Month 3 (N= 60)	60			
Anti-4 at PRE (N= 60)	4			
Anti-4 at Day 7 (N= 60)	60			
Anti-4 at Month 3 (N= 60)	60			
Anti-5 at PRE (N= 60)	9			
Anti-5 at Day 7 (N= 60)	47			

Anti-5 at Month 3 (N= 60)	60			
Anti-6B at PRE (N= 60)	19			
Anti-6B at Day 7 (N= 58)	29			
Anti-6B at Month 3 (N= 60)	56			
Anti-7F at PRE (N= 60)	11			
Anti-7F at Day 7 (N= 60)	54			
Anti-7F at Month 3 (N= 60)	60			
Anti-9V at PRE (N= 60)	7			
Anti-9V at Day 7 (N= 60)	40			
Anti-9V at Month 3 (N= 60)	60			
Anti-14 at PRE (N= 60)	27			
Anti-14 at Day 7 (N= 60)	42			
Anti-14 at Month 3 (N= 60)	60			
Anti-18C at PRE (N= 60)	8			
Anti-18C at Day 7 (N= 59)	56			
Anti-18C at Month 3 (N= 60)	60			
Anti-19F at PRE (N= 60)	29			
Anti-19F at Day 7 (N= 59)	57			
Anti-19F at Month 3 (N= 60)	60			
Anti-23F at PRE (N= 60)	11			
Anti-23F at Day 7 (N= 60)	16			
Anti-23F at Month 3 (N= 60)	56			

## Statistical analyses

No statistical analyses for this end point

### Secondary: Titers for opsonophagocytic activity against vaccine pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F in the 10Pn-2d and 10Pn-3d groups

End point title	Titers for opsonophagocytic activity against vaccine pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F in the 10Pn-2d and 10Pn-3d groups <sup>[9]</sup>
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End point description:

Seropositivity status defined as Opsonophagocytic activity against pneumococcal serotypes  $\geq 8$ .

End point type	Secondary
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End point timeframe:

1 month after booster dose (Month 10) –in primary study 105539), pre-additional dose at Month 34 in the current study (Month 34) and one week after vaccination at Month 34+7 days (Mth34+D7)

Notes:

[9] - 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: When time frames are not the same for the 3 groups for a same endpoint, the endpoint has been duplicated: the first one for presenting results in the 10Pn-2d and 10Pn-3d groups and the second one for presenting the results in the Unprimed group.



End point values	10Pn-2d group	10Pn-3d group		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	48	55		
Units: Titers				
geometric mean (confidence interval 95%)				
Opsono-1 at Month 10(N=44,53)	243.9 (137.3 to 433.3)	176.9 (104 to 301)		
Opsono-1 at Month 34 N=47,55)	5.5 (4.3 to 7)	6.2 (4.9 to 8)		
Opsono-1 at Mth34+D7(N=48,55)	2342.2 (1788.8 to 3066.7)	2321.5 (1827.1 to 2949.7)		
Opsono-4 at Month 10(N=43,51)	937.6 (600.8 to 1463.4)	1347 (1068.8 to 1697.7)		
Opsono-4 at Month 34(N=44,52)	9.6 (4.9 to 18.8)	9.5 (5.8 to 15.6)		
Opsono-4 at Mth34+D7(N=48,53)	13247.5 (9898 to 17730.4)	17732.6 (13218.8 to 23787.7)		
Opsono-5 at Month 10(N=45,54)	154 (94.2 to 251.6)	181.2 (125.4 to 262)		
Opsono-5 at Month 34(N=47,54)	6.7 (5.2 to 8.6)	8 (6.1 to 10.6)		
Opsono-5 at Mth34+D7(N=48,55)	991.5 (769.8 to 1277.1)	1221.1 (912.4 to 1634.2)		
Opsono-6B at Month 10(N=44,51)	292.2 (147.1 to 580.3)	458.8 (254.8 to 825.9)		
Opsono-6B at Month 34(N=42,54)	61.5 (22.8 to 165.6)	126.3 (59.4 to 268.5)		
Opsono-6B at Mth34+D7(N=47,54)	3312.9 (1751.2 to 6267.2)	3136 (1730 to 5684.6)		
Opsono-7F at Month 10(N=44,53)	2257.8 (1601.9 to 3182.3)	3856.8 (2890.4 to 5146.2)		
Opsono-7F at Month 34(N=45,53)	1329.1 (778.8 to 2268.4)	1225.5 (842.5 to 1782.6)		
Opsono-7F at Mth34+D7(N=48,52)	20779 (14616.7 to 29539.1)	22461.4 (16876.9 to 29893.7)		
Opsono-9V at Month 10(N=44,54)	1581.7 (1147.7 to 2179.9)	2013.9 (1565.3 to 2591)		
Opsono-9V at Month 34(N=43,53)	307.4 (210.3 to 449.4)	292.3 (221 to 386.6)		
Opsono-9V at Mth34+D7(N=48,52)	21193.6 (16100.3 to 27898.2)	19038.4 (14154.7 to 25607.2)		
Opsono-14 at Month 10(N=35,52)	1092.5 (691.9 to 1725)	1207.1 (961.4 to 1515.5)		
Opsono-14 at Month 34(N=41,49)	421.5 (258.8 to 686.5)	738.6 (540 to 1010.2)		
Opsono-14 at Mth34+D7(N=48,54)	14310 (10214 to 20048.7)	14670.9 (10258 to 20982.2)		
Opsono-18C at Month 10(N=45,54)	375.8 (251.3 to 562.1)	567.4 (422.8 to 761.5)		
Opsono-18C at Month 34(N=45,54)	11 (6 to 20.2)	17.7 (9.6 to 32.9)		
Opsono-18C at Mth34+D7(N=48,51)	6095.8 (4090.7 to 9083.8)	6448.7 (4258.7 to 9764.9)		

Opsono-19F at Month 10(N=43,54)	463.7 (318.3 to 675.6)	950.5 (653.3 to 1383)		
Opsono-19F at Month 34(N= 47,55)	34.1 (18.4 to 63.2)	48.4 (25.9 to 90.6)		
Opsono-19F at Mth34+D7(N=48,55)	2231.5 (1267.7 to 3927.9)	5684.4 (3647.8 to 8858)		
Opsono-23F at Month 10(N=45,53)	1414.6 (827.9 to 2417.1)	1984.8 (1520.3 to 2591.3)		
Opsono-23F at Month 34(N=43,49)	458.5 (186.3 to 1128.2)	465.6 (209.6 to 1034)		
Opsono-23F at Mth34+D7(N=48,54)	15688.3 (10571.2 to 23282.4)	13812.6 (9566 to 19944.4)		

## Statistical analyses

No statistical analyses for this end point

### Secondary: Titers for opsonophagocytic activity against vaccine pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F in the Unprimed group

End point title	Titers for opsonophagocytic activity against vaccine pneumococcal serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F and 23F in the Unprimed group <sup>[10]</sup>
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End point description:

Seropositivity status defined as Opsonophagocytic activity against pneumococcal serotypes  $\geq 8$ .

End point type	Secondary
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End point timeframe:

Pre-vaccination (PRE), one week after dose 1 (Day 7) and one month after dose 2 (Month 3)

Notes:

[10] - 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: When time frames are not the same for the 3 groups for a same endpoint, the endpoint has been duplicated: the first one for presenting results in the 10Pn-2d and 10Pn-3d groups and the second one for presenting the results in the Unprimed group.

End point values	Unprimed group			
Subject group type	Reporting group			
Number of subjects analysed	59			
Units: Titers				
geometric mean (confidence interval 95%)				
Opsono-1 at PRE (N= 58)	4 (4 to 4)			
Opsono-1 at Day 7 (N= 58)	441.1 (302.4 to 643.4)			
Opsono-1 at Month 3 (N= 56)	103 (67.6 to 157)			
Opsono-4 at PRE (N= 58)	5.1 (3.9 to 6.7)			
Opsono-4 at Day 7 (N= 58)	9675.9 (7792.2 to 12014.9)			
Opsono-4 at Month 3 (N= 56)	2687.5 (2165 to 3336.1)			

Opsono-5 at PRE (N= 59)	4.1 (3.9 to 4.5)			
Opsono-5 at Day 7 (N= 57)	330 (200.5 to 543)			
Opsono-5 at Month 3 (N= 56)	127.6 (92.7 to 175.6)			
Opsono-6B at PRE (N= 55)	21.6 (11 to 42.4)			
Opsono-6B at Day 7 (N= 54)	438.2 (208.4 to 921.5)			
Opsono-6B at Month 3 (N= 57)	1040.9 (652.8 to 1659.5)			
Opsono-7F at PRE (N= 55)	644.2 (355.5 to 1167.3)			
Opsono-7F at Day 7 (N=57)	11048.4 (8626.3 to 14150.5)			
Opsono-7F at Month 3 (N= 55)	6213.1 (4793.1 to 8053.7)			
Opsono-9V at PRE (N= 55)	103.1 (53.8 to 197.6)			
Opsono-9V at Day 7 (N= 57)	12217.8 (9359.1 to 15949.8)			
Opsono-9V at Month 3 (N= 55)	6085.2 (4718.5 to 7847.9)			
Opsono-14 at PRE (N= 53)	252.5 (138.1 to 461.5)			
Opsono-14 at Day 7 (N= 57)	3948.7 (2958.9 to 5269.5)			
Opsono-14 at Month 3 (N= 56)	4978.9 (3857.8 to 6425.9)			
Opsono-18C at PRE (N= 48)	6.1 (4 to 9.3)			
Opsono-18C at Day 7 (N= 57)	3905.6 (2648 to 5760.4)			
Opsono-18C at Month 3 (N= 56)	3984.5 (3187.9 to 4980.2)			
Opsono-19F at PRE (N= 59)	8.4 (5.6 to 12.7)			
Opsono-19F at Day 7 (N= 57)	367.5 (202.7 to 666.5)			
Opsono-19F at Month 3 (N= 56)	1772.5 (1285.9 to 2443.3)			
Opsono-23F at PRE (N= 52)	265.3 (121.5 to 579.6)			
Opsono-23F at Day 7 (N= 58)	5059 (3800.6 to 6734)			
Opsono-23F at Month 3 (N= 57)	5095.5 (3992.3 to 6503.6)			

## Statistical analyses

**Secondary: Antibody Geometric Mean Concentrations (GMCs) against the vaccine pneumococcal serotypes 6A and 19A in the 10Pn-2d and 10Pn-3d groups**

End point title	Antibody Geometric Mean Concentrations (GMCs) against the vaccine pneumococcal serotypes 6A and 19A in the 10Pn-2d and 10Pn-3d groups <sup>[11]</sup>
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## End point description:

Antibodies assessed for this outcome measure were those against the vaccine pneumococcal serotypes 6A and 19A (ANTI-6A and 19A). 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.

End point type	Secondary
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## End point timeframe:

1 month after booster dose (Month 10) –in primary study 105539), pre-additional dose at Month 34 in the current study (Month 34) and one week after vaccination at Month 34+7 days (Mth34+D7)

## Notes:

[11] - 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: When time frames are not the same for the 3 groups for a same endpoint, the endpoint has been duplicated: the first one for presenting results in the 10Pn-2d and 10Pn-3d groups and the second one for presenting the results in the Unprimed group.

End point values	10Pn-2d group	10Pn-3d group		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	50	57		
Units: µg/mL				
geometric mean (confidence interval 95%)				
Anti-6A at Month 10 (N= 49, 57)	0.31 (0.2 to 0.48)	0.51 (0.33 to 0.77)		
Anti-6A at Month 34 (N= 48, 55)	0.26 (0.16 to 0.42)	0.45 (0.28 to 0.71)		
Anti-6A at Mth34+D7 (N= 50, 55)	1.13 (0.71 to 1.79)	2 (1.32 to 3.03)		
Anti-19A at Month 10 (N= 50, 57)	0.8 (0.53 to 1.2)	0.75 (0.5 to 1.12)		
Anti-19A at Month 34 (N= 49, 57)	0.31 (0.2 to 0.49)	0.26 (0.17 to 0.4)		
Anti-19A at Mth34+D7 (N= 50, 55)	3.44 (2.3 to 5.15)	3.76 (2.47 to 5.73)		

**Statistical analyses**

No statistical analyses for this end point

**Secondary: Antibody Geometric Mean Concentrations (GMCs) against the vaccine pneumococcal serotypes 6A and 19A in the Unprimed group**

End point title	Antibody Geometric Mean Concentrations (GMCs) against the vaccine pneumococcal serotypes 6A and 19A in the Unprimed group <sup>[12]</sup>
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## End point description:

Antibodies assessed for this outcome measure were those against the vaccine pneumococcal serotypes 6A and 19A (ANTI-6A and 19A). 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.

End point type	Secondary
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End point timeframe:

Pre-vaccination (PRE), one week after dose 1 (Day 7) and one month after dose 2 (Month 3)

Notes:

[12] - 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: When time frames are not the same for the 3 groups for a same endpoint, the endpoint has been duplicated: the first one for presenting results in the 10Pn-2d and 10Pn-3d groups and the second one for presenting the results in the Unprimed group.

End point values	Unprimed group			
Subject group type	Reporting group			
Number of subjects analysed	60			
Units: µg/mL				
geometric mean (confidence interval 95%)				
Anti-6A at PRE (N= 60)	0.11 (0.08 to 0.16)			
Anti-6A at Day 7 (N= 60)	0.15 (0.11 to 0.21)			
Anti-6A at Month 3 (N= 60)	0.58 (0.42 to 0.79)			
Anti-19A at PRE (N= 60)	0.13 (0.09 to 0.2)			
Anti-19A at Day 7 (N= 59)	0.32 (0.21 to 0.49)			
Anti-19A at Month 3 (N= 60)	1.97 (1.46 to 2.65)			

## Statistical analyses

No statistical analyses for this end point

## Secondary: Number of subjects with Anti-pneumococcal serotypes 6A and 19A antibody concentrations $\geq 0.05$ µg/mL in the 10Pn-2d and 10Pn-3d groups

End point title	Number of subjects with Anti-pneumococcal serotypes 6A and 19A antibody concentrations $\geq 0.05$ µg/mL in the 10Pn-2d and 10Pn-3d groups <sup>[13]</sup>
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End point description:

Antibodies assessed for this outcome measure were those against the vaccine pneumococcal serotypes 6A and 19A (ANTI-6A and 19A). 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.

End point type	Secondary
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End point timeframe:

1 month after booster dose (Month 10) –in primary study 105539), pre-additional dose at Month 34 in the current study (Month 34) and one week after vaccination at Month 34+7 days (Mth34+D7)

Notes:

[13] - 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: When time frames are not the same for the 3 groups for a same endpoint, the endpoint has been duplicated: the first one for presenting results in the 10Pn-2d and 10Pn-3d groups and the

second one for presenting the results in the Unprimed group.

End point values	10Pn-2d group	10Pn-3d group		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	50	57		
Units: Subjects				
Anti-6A at Month 10 (N= 49, 57)	42	51		
Anti-6A at Month 34 (N= 48, 55)	43	51		
Anti-6A at Mth34+D7 (N= 50, 55)	48	55		
Anti-19A at Month 10 (N= 50, 57)	48	54		
Anti-19A at Month 34 (N= 49, 57)	44	50		
Anti-19A at Mth34+D7 (N= 50, 55)	50	55		

## Statistical analyses

No statistical analyses for this end point

### Secondary: Number of subjects with Anti-pneumococcal serotypes 6A and19A antibody concentrations $\geq 0.05$ $\mu\text{g/mL}$ in the Unprimed group

End point title	Number of subjects with Anti-pneumococcal serotypes 6A and19A antibody concentrations $\geq 0.05$ $\mu\text{g/mL}$ in the Unprimed group <sup>[14]</sup>
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End point description:

Antibodies assessed for this outcome measure were those against the vaccine pneumococcal serotypes 6A and 19A (ANTI-6A and 19A). Antibody concentrations were measured by 22F enzyme-linked immunosorbent assay (ELISA), expressed as geometric mean concentrations (GMCs), in micrograms per milliliter ( $\mu\text{g/mL}$ ). The seropositivity cut-off of the assay was an antibody concentration  $\geq 0.05$   $\mu\text{g/mL}$ .

End point type	Secondary
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End point timeframe:

Pre-vaccination (PRE), one week after dose 1 (Day 7) and one month after dose 2 (Month 3)

Notes:

[14] - 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: When time frames are not the same for the 3 groups for a same endpoint, the endpoint has been duplicated: the first one for presenting results in the 10Pn-2d and 10Pn-3d groups and the second one for presenting the results in the Unprimed group.

End point values	Unprimed group			
Subject group type	Reporting group			
Number of subjects analysed	60			
Units: Subjects				
Anti-6A at PRE (N= 60)	47			
Anti-6A at Day 7 (N= 60)	50			
Anti-6A at Month 3 (N= 60)	59			
Anti-19A at PRE (N= 60)	41			
Anti-19A at Day 7 (N= 59)	55			
Anti-19A at Month 3 (N= 60)	60			

## Statistical analyses

No statistical analyses for this end point

### Secondary: Number of subjects with Anti-pneumococcal serotypes 6A and 19A antibody concentrations $\geq 0.20$ $\mu\text{g/mL}$ in the 10Pn-2d and 10Pn-3d groups

End point title	Number of subjects with Anti-pneumococcal serotypes 6A and 19A antibody concentrations $\geq 0.20$ $\mu\text{g/mL}$ in the 10Pn-2d and 10Pn-3d groups <sup>[15]</sup>
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End point description:

Antibodies assessed for this outcome measure were those against the vaccine pneumococcal serotypes 6A and 19A (ANTI-6A and 19A). Antibody concentrations were measured by 22F enzyme-linked immunosorbent assay (ELISA), expressed as geometric mean concentrations (GMCs), in micrograms per milliliter ( $\mu\text{g/mL}$ ). The seropositivity cut-off of the assay was an antibody concentration  $\geq 0.05$   $\mu\text{g/mL}$ .

End point type	Secondary
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End point timeframe:

1 month after booster dose (Month 10) –in primary study 105539), pre-additional dose at Month 34 in the current study (Month 34) and one week after vaccination at Month 34+7 days (Mth34+D7)

Notes:

[15] - 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: When time frames are not the same for the 3 groups for a same endpoint, the endpoint has been duplicated: the first one for presenting results in the 10Pn-2d and 10Pn-3d groups and the second one for presenting the results in the Unprimed group.

End point values	10Pn-2d group	10Pn-3d group		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	50	57		
Units: Subjects				
Anti-6A at Month 10 (N= 49, 57)	31	43		
Anti-6A at Month 34 (N= 48, 55)	22	38		
Anti-6A at Mth34+D7 (N= 50, 55)	44	51		
Anti-19A at Month 10 (N= 50, 57)	41	45		
Anti-19A at Month 34 (N= 49, 57)	26	30		
Anti-19A at Mth34+D7 (N= 50, 55)	47	54		

## Statistical analyses

No statistical analyses for this end point

### Secondary: Number of subjects with Anti-pneumococcal serotypes 6A and 19A antibody concentrations $\geq 0.20$ $\mu\text{g/mL}$ in the Unprimed group

End point title	Number of subjects with Anti-pneumococcal serotypes 6A and 19A antibody concentrations $\geq 0.20$ $\mu\text{g/mL}$ in the Unprimed group <sup>[16]</sup>
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**End point description:**

Antibodies assessed for this outcome measure were those against the vaccine pneumococcal serotypes 6A and 19A (ANTI-6A and 19A). 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.

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End point type	Secondary
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**End point timeframe:**

Pre-vaccination (PRE), one week after dose 1 (Day 7) and one month after dose 2 (Month 3)

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**Notes:**

[16] - 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: When time frames are not the same for the 3 groups for a same endpoint, the endpoint has been duplicated: the first one for presenting results in the 10Pn-2d and 10Pn-3d groups and the second one for presenting the results in the Unprimed group.

End point values	Unprimed group			
Subject group type	Reporting group			
Number of subjects analysed	60			
Units: Subjects				
Anti-6A at PRE (N= 60)	13			
Anti-6A at Day 7 (N= 60)	24			
Anti-6A at Month 3 (N= 60)	49			
Anti-19A at PRE (N= 60)	22			
Anti-19A at Day 7 (N= 59)	33			
Anti-19A at Month 3 (N= 60)	58			

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**Statistical analyses**

No statistical analyses for this end point

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**Secondary: Titers for opsonophagocytic activity against vaccine pneumococcal serotypes 6A and 19A in the 10Pn-2d and 10Pn-3d groups**

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End point title	Titers for opsonophagocytic activity against vaccine pneumococcal serotypes 6A and 19A in the 10Pn-2d and 10Pn-3d groups <sup>[17]</sup>
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**End point description:**

Seropositivity status defined as Opsonophagocytic activity against pneumococcal serotypes  $\geq 8$

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End point type	Secondary
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**End point timeframe:**

1 month after booster dose (Month 10) –in primary study 105539), pre-additional dose at Month 34 in the current study (Month 34) and one week after vaccination at Mont 34+7 days (Mth34+D7)

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**Notes:**

[17] - 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: When time frames are not the same for the 3 groups for a same endpoint, the endpoint has been duplicated: the first one for presenting results in the 10Pn-2d and 10Pn-3d groups and the second one for presenting the results in the Unprimed group.



End point values	10Pn-2d group	10Pn-3d group		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	48	55		
Units: Titers				
geometric mean (confidence interval 95%)				
Opsono-6A at Month 10 (N= 35, 44)	60.9 (25.9 to 143.1)	135 (68.3 to 267)		
Opsono-6A at Month 34 (N= 40, 47)	64.3 (27.1 to 152.7)	81.5 (39.7 to 167.5)		
Opsono-6A at Mth34+D7 (N= 45, 50)	1639.4 (958.6 to 2803.9)	1267.3 (713.8 to 2250)		
Opsono-19A at Month 10 (N= 36, 46)	14.4 (7.6 to 27.3)	35.9 (18 to 71.6)		
Opsono-19A at Month 34 (N= 45, 55)	8 (5.2 to 12.2)	8.6 (5.6 to 13.4)		
Opsono-19A at Mth34+D7 (N= 48, 55)	799.3 (372.8 to 1713.4)	1871.6 (975.8 to 3589.8)		

## Statistical analyses

No statistical analyses for this end point

## Secondary: Titers for opsonophagocytic activity against vaccine pneumococcal serotypes 6A and 19A in the Unprimed group

End point title	Titers for opsonophagocytic activity against vaccine pneumococcal serotypes 6A and 19A in the Unprimed group <sup>[18]</sup>
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End point description:

Seropositivity status defined as Opsonophagocytic activity against pneumococcal serotypes  $\geq 8$

End point type	Secondary
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End point timeframe:

Pre-vaccination (PRE), one week after dose 1 (Day 7) and one month after dose 2 (Month 3)

Notes:

[18] - 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: When time frames are not the same for the 3 groups for a same endpoint, the endpoint has been duplicated: the first one for presenting results in the 10Pn-2d and 10Pn-3d groups and the second one for presenting the results in the Unprimed group.

End point values	Unprimed group			
Subject group type	Reporting group			
Number of subjects analysed	58			
Units: Titers				
geometric mean (confidence interval 95%)				
Opsono-6A at PRE (N= 50)	36.3 (18.9 to 69.6)			
Opsono-6A at Day 7 (N= 52)	389.6 (215.2 to 705.5)			
Opsono-6A at Month 3 (N= 52)	715.2 (487.3 to 1049.6)			
Opsono-19A at PRE (N= 58)	5.4 (4.2 to 6.9)			

Opsono-19A at Day 7 (N= 55)	211.9 (99.9 to 449.7)			
Opsono-19A at Month 3 (N= 53)	406.4 (227.3 to 726.9)			

## Statistical analyses

No statistical analyses for this end point

### Secondary: Concentrations of antibodies against protein D (ANTI-PD) in the 10Pn-2d and 10Pn-3d groups

End point title	Concentrations of antibodies against protein D (ANTI-PD) in the 10Pn-2d and 10Pn-3d groups <sup>[19]</sup>
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End point description:

ANTI-PD concentrations are expressed as geometric mean concentrations (GMCs), in enzyme-linked immunosorbent assay (ELISA) unit per milliliter (EL.U/mL). Seropositivity status is defined as Anti-PD antibody concentrations  $\geq 100$  EL.U/mL.

End point type	Secondary
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End point timeframe:

1 month after booster dose (Month 10) –in primary study 105539), pre-additional dose at Month 34 in the current study (Month 34) and one week after vaccination at Mont 34+7 days (Mth34+D7)

Notes:

[19] - 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: When time frames are not the same for the 3 groups for a same endpoint, the endpoint has been duplicated: the first one for presenting results in the 10Pn-2d and 10Pn-3d groups and the second one for presenting the results in the Unprimed group.

End point values	10Pn-2d group	10Pn-3d group		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	50	57		
Units: EL.U/mL				
geometric mean (confidence interval 95%)				
Anti-PD at Month 10 (N= 48, 56)	1438 (1018.9 to 2029.4)	2241.3 (1752.5 to 2866.3)		
Anti-PD at Month 34 (N= 50, 57)	301.6 (219.5 to 414.3)	461.3 (351.1 to 606)		
Anti-PD at Mth34+D7 (N= 50, 55)	1724.1 (1299.4 to 2287.5)	2113.2 (1651.2 to 2704.5)		

## Statistical analyses

No statistical analyses for this end point

### Secondary: Concentrations of antibodies against protein D (ANTI-PD) in the Unprimed group

End point title	Concentrations of antibodies against protein D (ANTI-PD) in the Unprimed group <sup>[20]</sup>
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End point description:

ANTI-PD concentrations are expressed as geometric mean concentrations (GMCs), in enzyme-linked immunosorbent assay (ELISA) unit per milliliter (EL.U/mL). Seropositivity status is defined as Anti-PD antibody concentrations  $\geq 100$  EL.U/mL.

End point type	Secondary
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End point timeframe:

Pre-vaccination (PRE), one week after dose 1 (Day 7) and one month after dose 2 (Month 3)

Notes:

[20] - 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: When time frames are not the same for the 3 groups for a same endpoint, the endpoint has been duplicated: the first one for presenting results in the 10Pn-2d and 10Pn-3d groups and the second one for presenting the results in the Unprimed group.

End point values	Unprimed group			
Subject group type	Reporting group			
Number of subjects analysed	60			
Units: EL.U/mL				
geometric mean (confidence interval 95%)				
Anti-PD at PRE (N= 60)	110.9 (88.8 to 138.6)			
Anti-PD at Day 7 (N= 60)	536.3 (390.7 to 736.2)			
Anti-PD at Month 3 (N= 60)	960.4 (752.7 to 1225.5)			

## Statistical analyses

No statistical analyses for this end point

## Secondary: Number of subjects with B-cells detection in the 10Pn-2d and 10Pn-3d groups

End point title	Number of subjects with B-cells detection in the 10Pn-2d and 10Pn-3d groups <sup>[21]</sup>
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End point description:

Quantification of memory B-cells that produce antibodies against vaccine pneumococcal serotypes (PS) 6B, 18C, 19F, 23F and C-PS (Elispot assay), prior to, and 7-10 days post- additional dose. Since none of the blood samples for memory B-cell quantification taken at the Slovakian site were suitable for testing, the assay for memory B-cell quantification was only performed on blood samples from all other evaluable subjects.

End point type	Secondary
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End point timeframe:

pre-additional dose at Month 34 in the current study (Month 34) and one week after vaccination at Month 34+7 days (Mth34+D7)

Notes:

[21] - 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: When time frames are not the same for the 3 groups for a same endpoint, the endpoint has been duplicated: the first one for presenting results in the 10Pn-2d and 10Pn-3d groups and the second one for presenting the results in the Unprimed group.

End point values	10Pn-2d group	10Pn-3d group		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	10	13		
Units: Subjects				
arithmetic mean (standard deviation)				
18C PS at Month 34 (N=10,11)	377 (± 459.3)	424.9 (± 668.2)		
18C PS at Mth34+D7 (N= 7,13)	1205.3 (± 661.4)	2891.2 (± 2274.5)		
19F PS at Month 34 (N= 10,11)	163.1 (± 306.4)	635.4 (± 1196.6)		
19F PS at Mth34+D7 (N= 7,13)	856.7 (± 1211.7)	1626 (± 1760.5)		
23F PS at Month 34 (N= 10,11)	174.2 (± 285)	212.2 (± 320.8)		
23F PS at Mth34+D7 (N= 7,13)	120.1 (± 92)	351.9 (± 400.4)		
6B PS at Month 34 (N= 10,11)	136.1 (± 131.8)	508.5 (± 606.3)		
6B PS at Mth34+D7 (N= 7,13)	153.1 (± 216)	469.7 (± 554.5)		
C-PS at Month 34 (N= 10,11)	246.3 (± 247.3)	751.2 (± 790.5)		
C-PS at Mth34+D7 (N= 7,13)	167.6 (± 92)	600.5 (± 488.8)		

## Statistical analyses

No statistical analyses for this end point

## 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:

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

End point type	Secondary
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End point timeframe:

during the 4-day (Days 0-3)post-vaccination period with the 10Pn-PD-DiT vaccine, following the additional dose in the 10Pn-2d and the 10Pn-3d groups and across the 2 doses in the Unprimed group

End point values	10Pn-2d group	10Pn-3d group	Unprimed group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	51	59	62	
Units: Subjects				
Any Pain (N=51, 59, 62)	41	44	49	
Grade 3 Pain (N=51, 59, 62)	3	4	6	
Any Redness (N=51, 59, 62)	34	35	41	

Grade 3 Redness (N=51, 59, 62)	9	12	15	
Any Swelling (N=51, 59, 62)	28	27	30	
Grade 3 Swelling (N=51, 59, 62)	5	9	9	

## Statistical analyses

No statistical analyses for this end point

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

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

Assessed solicited general symptoms were Drowsiness, Irritability/Fussiness (Irr./Fuss.), Loss of appetite (Loss Appet.) and Fever (rectal temperature higher than [ $\geq$ ] 38.0 degrees Celsius [ $^{\circ}$ C]),. Any = Occurrence of the specified solicited general symptom, regardless of intensity or relationship to vaccination. Related = Occurrence of the specified symptom assessed by the investigators as causally related to vaccination. Grade 3 Drowsiness = Drowsiness that prevented normal everyday activities. Grade 3 Irr./Fuss. = Crying that could not be comforted/prevented normal everyday activities. Grade 3 Loss of appetite = Subject did not eat at all. Grade 3 Fever = Rectal temperature higher than (>) 40.0 $^{\circ}$ C.

End point type	Secondary
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End point timeframe:

during the 4-day (Days 0-3)post-vaccination period with the 10Pn-PD-DiT vaccine, following the additional dose in the 10Pn-2d and the 10Pn-3d groups and across the 2 doses in the Unprimed group.

End point values	10Pn-2d group	10Pn-3d group	Unprimed group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	51	59	62	
Units: Subjects				
Any Drowsiness (N=51, 59, 62)	20	23	17	
Grade 3 Drowsiness (N=51, 59, 62)	0	0	0	
Related Drowsiness (N=51, 59, 62)	20	23	17	
Any Fever (N=51, 59, 62)	9	5	8	
Grade 3 Fever (N=51, 59, 62)	0	0	0	
Related Fever (N=51, 59, 62)	9	4	7	
Any Irr./Fuss (N=51, 59, 62)	20	27	21	
Grade 3 Irr./Fuss. (N=51, 59, 62)	0	0	0	
Related Irr./Fuss. (N=51, 59, 62)	20	25	20	
Any Loss Appet. (N=51, 59, 62)	12	13	14	
Grade 3 Loss Appet. (N=51, 59, 62)	0	0	0	
Related Loss Appet. (N=51, 59, 62)	12	13	14	

## Statistical analyses

No statistical analyses for this end point

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

End point title	Number (%) of subjects with unsolicited adverse events
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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
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End point timeframe:

Within the 31-day (Days 0-30) period post vaccination, with the 10Pn-PD-DiT vaccine, following the additional dose in the 10Pn-2d and the 10Pn-3d groups and across the 2 doses in the Unprimed group

End point values	10Pn-2d group	10Pn-3d group	Unprimed group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	51	59	62	
Units: Subjects				
Any AE	24	24	40	

### Statistical analyses

No statistical analyses for this end point

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

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

A SAE was defined as any medical occurrence that resulted in death, was life-threatening, required hospitalization or prolongation of hospitalization, resulted in disability/incapacity in a subject. AE(s) considered as SAE(s) also included invasive or malignant cancers, intensive treatment in an emergency room or at home for allergic bronchospasm, blood dyscrasias or convulsions that did not result in 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 31-day period following vaccination period

End point values	10Pn-2d group	10Pn-3d group	Unprimed group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	51	59	62	
Units: Subjects				
Any SAE	1	1	1	

## Statistical analyses

No statistical analyses for this end point

### Secondary: Number of subjects with B-cells detection in the Unprimed group

End point title	Number of subjects with B-cells detection in the Unprimed group <sup>[22]</sup>
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End point description:

Quantification of memory B-cells that produce antibodies against vaccine pneumococcal serotypes (PS) 6B, 18C, 19F, 23F and C-PS (Elispot assay), prior to, and 7-10 days post-dose 1. Since none of the blood samples for memory B-cell quantification taken at the Slovakian site were suitable for testing, the assay for memory B-cell quantification was only performed on blood samples from all other evaluable subjects.

End point type	Secondary
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End point timeframe:

Pre-vaccination (PRE), one week after dose 1 (Day 7)

Notes:

[22] - 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: When time frames are not the same for the 3 groups for a same endpoint, the endpoint has been duplicated: the first one for presenting results in the 10Pn-2d and 10Pn-3d groups and the second one for presenting the results in the Unprimed group.

End point values	Unprimed group			
Subject group type	Reporting group			
Number of subjects analysed	13			
Units: Subjects				
arithmetic mean (standard deviation)				
18C PS at PRE (N= 12)	246.5 (± 310.8)			
18C PS at Day 7 (N= 13)	3014.2 (± 4168.4)			
19F PS at PRE (N= 12)	306.4 (± 423.1)			
19F PS at Day 7 (N= 13)	599.8 (± 643.8)			
23F PS at PRE (N= 12)	280 (± 492.2)			
23F PS at Day 7 (N= 13)	450 (± 529.4)			
6B PS at PRE (N= 12)	159.8 (± 220.7)			
6B PS at Day 7 (N= 13)	432.4 (± 478.3)			
C-PS at PRE (N= 12)	751.9 (± 463)			
C-PS at Day 7 (N= 13)	789.2 (± 751.1)			

## **Statistical analyses**

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No statistical analyses for this end point



## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Solicited symptoms during the 4-day post-vaccination period and Unsolicited AEs & SAEs: during the 31-day post-vaccination period, following additional dose in the 10Pn-2d and the 10Pn-3d groups and across the 2 doses in the Unprimed group.

Adverse event reporting additional description:

Occurrences (all and "related to the treatment") were not calculated during the analysis and are filled in with "subjects affected" similar information.

Assessment type	Non-systematic
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### Dictionary used

Dictionary name	MedDRA
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Dictionary version	12.1
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### Reporting groups

Reporting group title	10Pn-2d Group
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Reporting group description: -

Reporting group title	10Pn-3d Group
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Reporting group description: -

Reporting group title	Unprimed Group
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Reporting group description: -

<b>Serious adverse events</b>	10Pn-2d Group	10Pn-3d Group	Unprimed Group
Total subjects affected by serious adverse events			
subjects affected / exposed	1 / 51 (1.96%)	1 / 59 (1.69%)	1 / 62 (1.61%)
number of deaths (all causes)	0	0	0
number of deaths resulting from adverse events			
Gastrointestinal disorders			
Gastritis			
subjects affected / exposed	1 / 51 (1.96%)	0 / 59 (0.00%)	0 / 62 (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			
subjects affected / exposed	0 / 51 (0.00%)	0 / 59 (0.00%)	1 / 62 (1.61%)
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 / 51 (0.00%)	1 / 59 (1.69%)	0 / 62 (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

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

<b>Non-serious adverse events</b>	10Pn-2d Group	10Pn-3d Group	Unprimed Group
Total subjects affected by non-serious adverse events			
subjects affected / exposed	41 / 51 (80.39%)	44 / 59 (74.58%)	49 / 62 (79.03%)
General disorders and administration site conditions			
Pain			
alternative assessment type: Systematic			
subjects affected / exposed	41 / 51 (80.39%)	44 / 59 (74.58%)	49 / 62 (79.03%)
occurrences (all)	41	44	49
Redness			
alternative assessment type: Systematic			
subjects affected / exposed	34 / 51 (66.67%)	35 / 59 (59.32%)	41 / 62 (66.13%)
occurrences (all)	34	35	41
Swelling			
alternative assessment type: Systematic			
subjects affected / exposed	28 / 51 (54.90%)	27 / 59 (45.76%)	30 / 62 (48.39%)
occurrences (all)	28	27	30
Drowsiness			
alternative assessment type: Systematic			
subjects affected / exposed	20 / 51 (39.22%)	23 / 59 (38.98%)	17 / 62 (27.42%)
occurrences (all)	20	23	17
Fever (Rectally, $\geq 38.0^{\circ}\text{C}$ )			
alternative assessment type: Systematic			
subjects affected / exposed	9 / 51 (17.65%)	5 / 59 (8.47%)	8 / 62 (12.90%)
occurrences (all)	9	5	8
Irritability			
alternative assessment type: Systematic			
subjects affected / exposed	20 / 51 (39.22%)	27 / 59 (45.76%)	21 / 62 (33.87%)
occurrences (all)	20	27	21
Loss of appetite			

alternative assessment type: Systematic subjects affected / exposed occurrences (all)	12 / 51 (23.53%) 12	13 / 59 (22.03%) 13	14 / 62 (22.58%) 14
Pyrexia subjects affected / exposed occurrences (all)	7 / 51 (13.73%) 7	8 / 59 (13.56%) 8	7 / 62 (11.29%) 7
Gastrointestinal disorders Vomiting alternative assessment type: Systematic subjects affected / exposed occurrences (all)	3 / 51 (5.88%) 3	3 / 59 (5.08%) 3	2 / 62 (3.23%) 2
Respiratory, thoracic and mediastinal disorders Cough subjects affected / exposed occurrences (all)	1 / 51 (1.96%) 1	5 / 59 (8.47%) 5	5 / 62 (8.06%) 5
Infections and infestations Nasopharyngitis subjects affected / exposed occurrences (all)	1 / 51 (1.96%) 1	4 / 59 (6.78%) 4	12 / 62 (19.35%) 12
Bronchitis subjects affected / exposed occurrences (all)	2 / 51 (3.92%) 2	3 / 59 (5.08%) 3	6 / 62 (9.68%) 6
Upper respiratory tract infection alternative assessment type: Systematic subjects affected / exposed occurrences (all)	2 / 51 (3.92%) 2	3 / 59 (5.08%) 3	4 / 62 (6.45%) 4
Viral infection alternative assessment type: Systematic subjects affected / exposed occurrences (all)	0 / 51 (0.00%) 0	1 / 59 (1.69%) 1	6 / 62 (9.68%) 6

## **More information**

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

Were there any global substantial amendments to the protocol? No

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### **Interruptions (globally)**

Were there any global interruptions to the trial? No

### **Limitations and caveats**

None reported