

**Clinical trial results:**

A phase III, open, randomized, controlled study to demonstrate the immunogenicity, reactogenicity and safety of GSK Biologicals meningococcal serogroup ACWY conjugate vaccine (GSK134612, MenACWY-TT) co-administered with Infanrix hexa compared to individual administration of each vaccine, in healthy 12-through 23-month-old children

Summary

EudraCT number	2006-006680-23
Trial protocol	GR DE AT
Global end of trial date	27 October 2008

Results information

Result version number	v1
This version publication date	11 May 2016
First version publication date	06 March 2015

Trial information**Trial identification**

Sponsor protocol code	109835
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Additional study identifiers

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	NCT00508261
WHO universal trial number (UTN)	-

Notes:

Sponsors

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

Notes:

Paediatric regulatory details

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

Notes:

Results analysis stage

Analysis stage	Final
Date of interim/final analysis	07 April 2009
Is this the analysis of the primary completion data?	Yes
Primary completion date	26 May 2008
Global end of trial reached?	Yes
Global end of trial date	27 October 2008
Was the trial ended prematurely?	No

Notes:

General information about the trial

Main objective of the trial:

In subjects of the MenACWY-TT + Infanrix hexa and MenACWY-TT groups:

To demonstrate the non-inferiority of the MenACWY-TT conjugate vaccine co-administered with combined DTPa-HBV-IPV/Hib vaccine to the MenACWY-TT conjugate vaccine given alone in terms of serum bactericidal antibodies (rSBA) for *N. meningitidis* serogroups A, C, W-135, and Y.

In subjects of the MenACWY-TT + Infanrix hexa and Infanrix hexa groups:

To demonstrate the non-inferiority of the combined DTPa-HBV-IPV/Hib vaccine co-administered with MenACWY-TT conjugate vaccine to DTPa-HBV-IPV/Hib vaccine given alone in terms of geometric mean concentrations (GMCs) of antibodies to pertussis toxoid (PT), filamentous haemagglutinin (FHA), pertactin (PRN), percentages of subjects with antibody concentrations to PRP $\geq 1.0\mu\text{g/ml}$ and to HBsAg $\geq 10\text{mIU/ml}$.

Protection of trial subjects:

All subjects were supervised for 30 min 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 30 days after the last vaccination/product administration.

Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	01 August 2007
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	Austria: 120
Country: Number of subjects enrolled	Germany: 598
Country: Number of subjects enrolled	Greece: 75
Worldwide total number of subjects	793
EEA total number of subjects	793

Notes:

Subjects enrolled per age group

In utero	0
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Preterm newborn - gestational age < 37 wk	0
Newborns (0-27 days)	0
Infants and toddlers (28 days-23 months)	793
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: -

Pre-assignment

Screening details:

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

Period 1

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

Arms

Are arms mutually exclusive?	Yes
Arm title	Nimenrix + Infanrix-hexa Group

Arm description: -

Arm type	Experimental
Investigational medicinal product name	Nimenrix™
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Injection
Routes of administration	Intramuscular use

Dosage and administration details:

Single dose intramuscular injection into the left thigh at Day 0.

Investigational medicinal product name	Infanrix™ Hexa
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Injection
Routes of administration	Intramuscular use

Dosage and administration details:

Single dose intramuscular injection into the right thigh at Day 0.

Arm title	Nimenrix Group
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Arm description: -

Arm type	Experimental
Investigational medicinal product name	Nimenrix™
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Injection
Routes of administration	Intramuscular use

Dosage and administration details:

Single dose intramuscular injection into the left thigh at Day 0.

Investigational medicinal product name	Infanrix-hexa™
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Injection
Routes of administration	Intramuscular use

Dosage and administration details:

Single dose intramuscular injection into the right thigh at Month 1.

Arm title	Infanrix-Hexa Group
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Infanrix-hexa™
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Injection
Routes of administration	Intramuscular use

Dosage and administration details:

Single dose intramuscular injection into the right thigh at Day 0.

Investigational medicinal product name	Nimenrix™
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Injection
Routes of administration	Intramuscular use

Dosage and administration details:

Single dose intramuscular injection into the left thigh at Month 1.

Arm title	Meningitec Group
Arm description: -	
Arm type	Active comparator
Investigational medicinal product name	Meningitec™
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Injection
Routes of administration	Intramuscular use

Dosage and administration details:

Single dose intramuscular injection into the left thigh at Day 0.

Number of subjects in period 1	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group
Started	222	220	224
Completed	219	212	218
Not completed	3	8	6
Consent withdrawn by subject	3	4	4
'Migrated/moved from study area '	-	1	-
Others	-	1	1
Lost to follow-up	-	1	1
Serious Adverse Event	-	1	-

Number of subjects in period 1	Meningitec Group
Started	127

Completed	126
Not completed	1
Consent withdrawn by subject	-
'Migrated/moved from study area '	-
Others	-
Lost to follow-up	1
Serious Adverse Event	-

Baseline characteristics

Reporting groups

Reporting group title	Nimenrix + Infanrix-hexa Group
Reporting group description: -	
Reporting group title	Nimenrix Group
Reporting group description: -	
Reporting group title	Infanrix-Hexa Group
Reporting group description: -	
Reporting group title	Meningitec Group
Reporting group description: -	

Reporting group values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group
Number of subjects	222	220	224
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: years			
arithmetic mean	14.6	15	14.9
standard deviation	± 3.01	± 3.33	± 3.17
Gender categorical Units: Subjects			
Female	109	106	119
Male	113	114	105

Reporting group values	Meningitec Group	Total	
Number of subjects	127	793	
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		0	
		0	
		0	
		0	
		0	
		0	
		0	
		0	

85 years and over		0	
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Age continuous Units: years arithmetic mean standard deviation	14.6 ± 2.99	-	
Gender categorical Units: Subjects			
Female	61	395	
Male	66	398	

End points

End points reporting groups

Reporting group title	Nimenrix + Infanrix-hexa Group
Reporting group description:	-
Reporting group title	Nimenrix Group
Reporting group description:	-
Reporting group title	Infanrix-Hexa Group
Reporting group description:	-
Reporting group title	Meningitec Group
Reporting group description:	-

Primary: Number of subjects with rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY titers $\geq 1:8$.

End point title	Number of subjects with rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY titers $\geq 1:8$. ^[1]
End point description:	
End point type	Primary
End point timeframe:	At 1 month after vaccination with Nimenrix vaccine (Month 1)

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: The analysis was based only on subjects receiving Nimenrix vaccination at Day 0.

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	193	186		
Units: Subjects				
rSBA-MenA, M1 (N=193; 183)	193	180		
rSBA-MenC, M1 (N=191; 183)	191	178		
rSBA-MenW-135, M1 (N=193; 186)	193	183		
rSBA-MenY, M1 (N=192, 185)	192	180		

Statistical analyses

Statistical analysis title	Difference in subjects with rSBA-MenA titres $\geq 1:8$
Statistical analysis description:	To demonstrate the non-inferiority of the Nimenrix vaccine co-administered with combined Infanrix-hexa vaccine to the Nimenrix vaccine given alone in terms of bactericidal antibodies to Neisseria meningitidis serogroups A, C, W-135, and Y.
Comparison groups	Nimenrix + Infanrix-hexa Group v Nimenrix Group

Number of subjects included in analysis	379
Analysis specification	Pre-specified
Analysis type	non-inferiority ^[2]
Parameter estimate	Difference in percentages
Point estimate	1.64
Confidence interval	
level	95 %
sides	2-sided
lower limit	-0.33
upper limit	4.71

Notes:

[2] - Criterion for non-inferiority:

The lower limit of the two-sided standardized asymptotic 95% confidence interval (CI) for the group difference in the percentages of subjects with serum bactericidal antibodies using baby rabbit complement (rSBA) titer $\geq 1:8$ is greater than or equal to the pre-defined clinical limit of -10%.

Statistical analysis title	Difference in subjects with rSAB-MenC titres $\geq 1:8$
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Statistical analysis description:

To demonstrate the non-inferiority of the Nimenrix vaccine co-administered with combined Infanrix hexa vaccine to the Nimenrix vaccine given alone in terms of bactericidal antibodies to Neisseria meningitidis serogroups A, C, W-135, and Y.

Comparison groups	Nimenrix + Infanrix-hexa Group v Nimenrix Group
Number of subjects included in analysis	379
Analysis specification	Pre-specified
Analysis type	non-inferiority ^[3]
Parameter estimate	Difference in percentages
Point estimate	2.73
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.73
upper limit	6.24

Notes:

[3] - Criterion for non-inferiority:

The lower limit of the two-sided standardized asymptotic 95% confidence interval (CI) for the group difference in the percentages of subjects with serum bactericidal antibodies using baby rabbit complement (rSBA) titer $\geq 1:8$ is greater than or equal to the pre-defined clinical limit of -10%.

Statistical analysis title	Difference in subjects with rSAB-MenW titres $\geq 1:8$
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Statistical analysis description:

To demonstrate the non-inferiority of the Nimenrix vaccine co-administered with combined Infanrix hexa vaccine to the Nimenrix vaccine given alone in terms of bactericidal antibodies to Neisseria meningitidis serogroups A, C, W-135, and Y.

Comparison groups	Nimenrix + Infanrix-hexa Group v Nimenrix Group
Number of subjects included in analysis	379
Analysis specification	Pre-specified
Analysis type	non-inferiority ^[4]
Parameter estimate	Difference in percentages
Point estimate	1.61
Confidence interval	
level	95 %
sides	2-sided
lower limit	-0.36
upper limit	4.64

Notes:

[4] - Criterion for non-inferiority:

The lower limit of the two-sided standardized asymptotic 95% confidence interval (CI) for the group difference in the percentages of subjects with serum bactericidal antibodies using baby rabbit complement (rSBA) titer $\geq 1:8$ is greater than or equal to the pre-defined clinical limit of -10%.

Statistical analysis title	Difference in subjects with rSAB-MenY titres $\geq 1:8$
Statistical analysis description:	
To demonstrate the non-inferiority of the Nimenrix vaccine co-administered with combined Infanrix hexa vaccine to the Nimenrix vaccine given alone in terms of bactericidal antibodies to Neisseria meningitidis serogroups A, C, W-135, and Y.	
Comparison groups	Nimenrix + Infanrix-hexa Group v Nimenrix Group
Number of subjects included in analysis	379
Analysis specification	Pre-specified
Analysis type	non-inferiority ^[5]
Parameter estimate	Difference in percentages
Point estimate	2.7
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.71
upper limit	6.18

Notes:

[5] - Criterion for non-inferiority:

The lower limit of the two-sided standardized asymptotic 95% confidence interval (CI) for the group difference in the percentages of subjects with serum bactericidal antibodies using baby rabbit complement (rSBA) titer $\geq 1:8$ is greater than or equal to the pre-defined clinical limit of -10%.

Primary: Anti-PT, anti-FHA and anti-PRN concentrations

End point title	Anti-PT, anti-FHA and anti-PRN concentrations ^[6]
End point description:	
End point type	Primary
End point timeframe:	
At 1 month after the first vaccination (Month 1)	

Notes:

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

Justification: The analysis was based only on subjects receiving Infanrix-hexa vaccination.

End point values	Nimenrix + Infanrix-hexa Group	Infanrix-Hexa Group		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	191	179		
Units: EL.U/mL				
geometric mean (confidence interval 95%)				
Anti-PT, M1 (N=191; 178)	86 (77 to 95)	85 (75 to 96)		
Anti-FHA, M1 (N=191; 178)	542 (492 to 597)	544 (485 to 611)		
Anti-PRN, M1 (N=190; 179)	470 (411 to 537)	450 (387 to 522)		

Statistical analyses

Statistical analysis title	GMC ratio for anti-PT concentrations
Statistical analysis description: To demonstrate the non-inferiority of the combined Infanrix hexa vaccine co-administered with Nimenrix vaccine to Infanrix hexa vaccine given alone in terms of geometric mean concentrations (GMCs) of antibodies to pertussis toxoid (PT) ≥ 1.0 g/mL.	
Comparison groups	Nimenrix + Infanrix-hexa Group v Infanrix-Hexa Group
Number of subjects included in analysis	370
Analysis specification	Pre-specified
Analysis type	non-inferiority ^[7]
Parameter estimate	Adjusted GMC ratios
Point estimate	0.97
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.83
upper limit	1.12

Notes:

[7] - Criterion for non-inferiority (1 month after the first study vaccination):

The lower limit of the two-sided 95% CI on the GMC ratio for anti-PT (ELISA) is greater than or equal to a pre-defined clinical limit of $\delta = 0.67$.

Statistical analysis title	GMC ratio for anti-FHA concentrations
Statistical analysis description: To demonstrate the non-inferiority of the combined Infanrix hexa vaccine co-administered with Nimenrix vaccine to Infanrix hexa vaccine given alone in terms of geometric mean concentrations (GMCs) of antibodies to filamentous haemagglutinin (FHA) ≥ 1.0 g/mL.	
Comparison groups	Nimenrix + Infanrix-hexa Group v Infanrix-Hexa Group
Number of subjects included in analysis	370
Analysis specification	Pre-specified
Analysis type	non-inferiority ^[8]
Parameter estimate	Adjusted GMC ratios
Point estimate	0.98
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.85
upper limit	1.13

Notes:

[8] - Criterion for non-inferiority (1 month after the first study vaccination):

The lower limit of the two-sided 95% CI on the GMC ratio for anti-FHA (ELISA) is greater than or equal to a pre-defined clinical limit of $\delta = 0.67$.

Statistical analysis title	GMC ratio for anti-PRN concentrations
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Statistical analysis description:

To demonstrate the non-inferiority of the combined Infanrix hexa vaccine co-administered with Nimenrix

vaccine to Infanrix hexa vaccine given alone in terms of geometric mean concentrations (GMCs) of antibodies to pertactin (PRN) ≥ 1.0 g/mL.

Comparison groups	Nimenrix + Infanrix-hexa Group v Infanrix-Hexa Group
Number of subjects included in analysis	370
Analysis specification	Pre-specified
Analysis type	non-inferiority ^[9]
Parameter estimate	Adjusted GMC ratios
Point estimate	0.92
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.78
upper limit	1.1

Notes:

[9] - Criterion for non-inferiority (1 month after the first study vaccination):

The lower limit of the two-sided 95% CI on the GMC ratio for anti-PRN (ELISA) is greater than or equal to a pre-defined clinical limit of $\delta = 0.67$.

Primary: Number of subjects with anti-HBs concentrations ≥ 10 mIU/mL

End point title	Number of subjects with anti-HBs concentrations ≥ 10
End point description:	
End point type	Primary
End point timeframe:	
At 1 month after vaccination with Nimenrix vaccine (Month 1)	

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: The analysis was based only on subjects receiving Infanrix-hexa vaccination.

End point values	Nimenrix + Infanrix-hexa Group	Infanrix-Hexa Group		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	181	169		
Units: Subjects				
Anti-PT, M1 (N=181; 169)	180	166		

Statistical analyses

Statistical analysis title	Difference in subjects with anti-HBs ≥ 10 mIU/mL
Statistical analysis description:	
To demonstrate the non-inferiority of the combined Infanrix hexa vaccine co-administered with Nimenrix vaccine to Infanrix hexa vaccine given alone in terms of geometric mean concentrations (GMCs) of antibodies to hepatitis B surface antigen (HBsAg) ≥ 1.0 g/mL.	
Comparison groups	Nimenrix + Infanrix-hexa Group v Infanrix-Hexa Group

Number of subjects included in analysis	350
Analysis specification	Pre-specified
Analysis type	non-inferiority ^[11]
Parameter estimate	Difference in percentages
Point estimate	1.22
Confidence interval	
level	95 %
sides	2-sided
lower limit	-1.47
upper limit	4.6

Notes:

[11] - Criterion for non-inferiority (1 month after the first study vaccination):

The lower limit of the two-sided standardized asymptotic 95% CI for the group difference in the percentages of subjects with anti-HBs antibody concentrations ≥ 10 mIU/ml is greater than or equal to the pre-defined clinical limit of -10%.

Primary: Number of subjects with anti-PRP concentrations $\geq 1\mu\text{g/mL}$

End point title	Number of subjects with anti-PRP concentrations $\geq 1\mu\text{g/mL}$ ^[12]
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End point description:

End point type	Primary
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End point timeframe:

At 1 month after vaccination with Nimenrix vaccine (Month 1)

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: The analysis was based only on subjects receiving Infanrix-hexa vaccination.

End point values	Nimenrix + Infanrix-hexa Group	Infanrix-Hexa Group		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	184	173		
Units: Subjects				
Anti-PRP, M1 (N=184; 173)	183	170		

Statistical analyses

Statistical analysis title	Difference in subjects with anti-PRP $\geq 1.0 \mu\text{g/mL}$
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Statistical analysis description:

To demonstrate the non-inferiority of the combined Infanrix hexa vaccine co-administered with Nimenrix vaccine to Infanrix hexa vaccine given alone in terms of geometric mean concentrations (GMCs) of antibodies to polyribosyl-ribitol-phosphate (PRP) $\geq 1.0 \mu\text{g/mL}$

Comparison groups	Nimenrix + Infanrix-hexa Group v Infanrix-Hexa Group
Number of subjects included in analysis	357
Analysis specification	Pre-specified
Analysis type	non-inferiority ^[13]
Parameter estimate	Difference in percentages
Point estimate	1.19

Confidence interval	
level	95 %
sides	2-sided
lower limit	-1.45
upper limit	4.5

Notes:

[13] - Criterion for non-inferiority (1 month after the first study vaccination):

The lower limit of the two-sided standardized asymptotic 95% CI for the group difference in the percentage of subjects with anti-PRP concentrations (ELISA) ≥ 1.0 $\mu\text{g/mL}$ is greater than or equal to the pre-defined clinical limit of -10%.

Secondary: Number of subjects with rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY titers $\geq 1:8$ and $\geq 1:128$

End point title	Number of subjects with rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY titers $\geq 1:8$ and $\geq 1:128$
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End point description:

End point type	Secondary
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End point timeframe:

At month 0, 1 and 2

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	193	186	179	114
Units: Subjects				
rSBA-MenA [M 0], $\geq 1:8$ (N=84,77,72,46)	30	32	34	18
rSBA-MenA [M 1], $\geq 1:8$ (N=193,183,163,100)	193	180	71	43
rSBA-MenA [M 2], $\geq 1:8$ (N=0,90,178,0)	0	90	178	0
rSBA-MenA [M 0], $\geq 1:128$ (N=84,77,72,46)	18	21	24	11
rSBA-MenA [M 1], $\geq 1:128$ (N=193,183,163,100)	193	179	57	30
rSBA-MenA [M 2], $\geq 1:128$ (N=0,90,178,0)	0	90	178	0
rSBA-MenC [M 0], $\geq 1:8$ (N=93,91,92,54)	20	25	13	11
rSBA-MenC [M 1], $\geq 1:8$ (N=191,183,177,114)	191	178	34	112
rSBA-MenC [M 2], $\geq 1:8$ (N=0,94,178,0)	0	91	178	0
rSBA-MenC [M 0], $\geq 1:128$ (N=93,91,92,54)	5	8	5	3
rSBA-MenC [M 1], $\geq 1:128$ (N=191,183,177,114)	189	172	14	102
rSBA-MenC [M 2], $\geq 1:128$ (N=0,94,178,0)	0	85	157	0
rSBA-MenW-135 [M 0], $\geq 1:8$ (N=91,84,85,55)	43	42	46	22
rSBA-MenW-135 [M 1], $\geq 1:8$ (N=193,186,173,112)	193	183	86	41
rSBA-MenW-135 [M 2], $\geq 1:8$ (N=0,91,179,0)	0	91	179	0

rSBA-MenW-135 [M 0], $\geq 1:128$ (N=91,84,85,55)	17	11	23	10
rSBA-MenW-135 [M 1] $\geq 1:128$ (N=193,186,173,112)	193	180	49	23
rSBA-MenW-135 [M 2], $\geq 1:128$ (N=0,91,179,0)	0	90	178	0
rSBA-MenY [M 0], $\geq 1:8$ (N=94,87,87,55)	57	53	53	30
rSBA-MenY [M 1], $\geq 1:8$ (N=192,185,174,110)	192	180	103	71
rSBA-MenY [M 2], $\geq 1:8$ (N=0,92,179,0)	0	91	178	0
rSBA-MenY [M 0], $\geq 1:128$ (N=94,87,87,55)	38	37	34	20
rSBA-MenY [M 1], $\geq 1:128$ (N=192,185,174,110)	192	178	79	38
rSBA-MenY [M 2], $\geq 1:128$ (N=0,92,179,0)	0	91	178	0

Statistical analyses

No statistical analyses for this end point

Secondary: rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY titers

End point title	rSBA-MenA, rSBA-MenC, rSBA-MenW-135 and rSBA-MenY titers
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End point description:

End point type	Secondary
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End point timeframe:

At month 0, 1 and 2

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	193	186	179	114
Units: Titers				
geometric mean (confidence interval 95%)				
rSBA-MenA [M 0], (N=84,77,72,46)	15 (10 to 22.4)	19 (12.2 to 29.5)	24 (15 to 38.4)	15.9 (9.2 to 27.5)
rSBA-MenA [M 1], (N=193,183,163,100)	3152.9 (2752.5 to 3611.4)	3169.9 (2577.2 to 3898.8)	24.2 (17.4 to 33.7)	21.5 (14.5 to 32.1)
rSBA-MenA [M 2], (N=0,90,178,0)	0 (0 to 0)	2881.9 (2292 to 3623.6)	1938.3 (1699.1 to 2211.2)	0 (0 to 0)
rSBA-MenC [M 0], (N=93,91,92,54)	7.4 (5.7 to 9.6)	9.1 (6.7 to 12.2)	6.1 (4.9 to 7.7)	7.6 (5.2 to 11.2)
rSBA-MenC [M 1], (N=191,183,177,114)	879.7 (763.1 to 1014)	828.7 (672.4 to 1021.4)	7.5 (6.1 to 9.3)	691.4 (520.8 to 917.9)
rSBA-MenC [M 2], (N=0,94,178,0)	0 (0 to 0)	519.6 (391.7 to 689.2)	386 (333.9 to 446.2)	0 (0 to 0)

rSBA-MenW-135 [M 0], (N=91,84,85,55)	19 (13.1 to 27.6)	19.2 (13.3 to 27.7)	24.8 (16.7 to 36.8)	15.6 (9.8 to 25)
rSBA-MenW-135 [M 1], (N=193,186,173,112)	4147 (3670.1 to 4685.8)	4022.3 (3269.2 to 4948.8)	25.2 (18.6 to 34.2)	14.2 (10.2 to 19.7)
rSBA-MenW-135 [M 2], (N=0,91,179,0)	0 (0 to 0)	3630.1 (2899.1 to 4545.4)	2466.4 (2175.4 to 2796.4)	0 (0 to 0)
rSBA-MenY [M 0], (N=94,87,87,55)	36.8 (24.7 to 54.8)	45.4 (29.1 to 71)	41.2 (26.7 to 63.4)	32 (18.3 to 55.9)
rSBA-MenY [M 1], (N=192,185,174,110)	3461.8 (2990.1 to 4007.9)	3167.7 (2521.9 to 3978.9)	45.9 (33 to 63.9)	47.2 (32.1 to 69.3)
rSBA-MenY [M 2], (N=0,92,179,0)	0 (0 to 0)	3010.4 (2325.3 to 3897.3)	2446.9 (2088.5 to 2866.8)	0 (0 to 0)

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with Anti-polysaccharide A (anti-PSA), anti-PSC, anti-PSW, and anti-PSY $\geq 0.3\mu\text{g/mL}$ and $\geq 2.0\mu\text{g/mL}$

End point title	Number of subjects with Anti-polysaccharide A (anti-PSA), anti-PSC, anti-PSW, and anti-PSY $\geq 0.3\mu\text{g/mL}$ and $\geq 2.0\mu\text{g/mL}$
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End point description:

End point type	Secondary
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End point timeframe:

At month 0, 1 and 2

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	51	47	47	29
Units: Subjects				
Anti-PSA [Month 0], ≥ 0.3 (N=45,45,41,27)	4	1	1	1
Anti-PSA [Month 1], ≥ 0.3 (N=46,46,37,25)	46	45	1	1
Anti-PSA [Month 2], ≥ 0.3 (N=0,44,42,0)	0	44	42	0
Anti-PSA [Month 0], ≥ 2.0 (N=45,45,41,27)	0	0	0	0
Anti-PSA [Month 1], ≥ 2.0 (N=45,45,41,27)	46	44	1	0
Anti-PSA [Month 2], ≥ 2.0 (N=45,45,41,27)	0	43	40	0
Anti-PSC [Month 0], ≥ 0.3 (N=48,43,46,29)	1	1	2	0
Anti-PSC [Month 1], ≥ 0.3 (N=51,41,47,28)	51	41	2	28

Anti-PSC [Month 2], ≥ 0.3 (N=0,41,47,0)	0	41	47	0
Anti-PSC [Month 0], ≥ 2.0 (N=48,43,46,29)	1	0	0	0
Anti-PSC [Month 1], ≥ 2.0 (N=51,41,47,28)	50	41	0	26
Anti-PSC [Month 2], ≥ 2.0 (N=0,41,47,0)	0	41	43	0
Anti-PSW-135 [Month 0], ≥ 0.3 (N=44,43,40,26)	1	1	2	0
Anti-PSW-135 [Month 1], ≥ 0.3 (N=44,47,41,26)	44	43	2	0
Anti-PSW-135 [Month 2], ≥ 0.3 (N=0,44,41,0)	0	43	41	0
Anti-PSW-135 [Month 0], ≥ 2.0 (N=44,43,40,26)	0	0	1	0
Anti-PSW-135 [Month 1], ≥ 2.0 (N=44,47,41,26)	40	39	2	0
Anti-PSW-135 [Month 2], ≥ 2.0 (N=0,41,41,0)	0	36	29	0
Anti-PSY [Month 0], ≥ 0.3 (N=45,44,42,29)	1	1	0	0
Anti-PSY [Month 1], ≥ 0.3 (N=45,45,37,23)	45	43	1	0
Anti-PSY [Month 2], ≥ 0.3 (N=0,44,41,0)	0	44	41	0
Anti-PSY [Month 0], ≥ 2.0 (N=45,44,42,29)	0	0	0	0
Anti-PSY [Month 1], ≥ 2.0 (N=45,45,37,23)	40	42	1	0
Anti-PSY [Month 2], ≥ 2.0 (N=0,44,41,0)	0	40	34	0

Statistical analyses

No statistical analyses for this end point

Secondary: Anti-polysaccharide A (anti-PSA), anti-PSC, anti-PSW, and anti-PSY antibody concentrations

End point title	Anti-polysaccharide A (anti-PSA), anti-PSC, anti-PSW, and anti-PSY antibody concentrations
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End point description:

End point type	Secondary
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End point timeframe:

At month 0, 1 and 2

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	48	47	47	29
Units: µg/mL				
geometric mean (confidence interval 95%)				
Anti-PSA [M 0], (N=45,45,41,27)	0.17 (0.15 to 0.19)	0.15 (0.15 to 0.16)	0.16 (0.14 to 0.18)	0.16 (0.14 to 0.18)
Anti-PSA [M 1], (N=46,46,37,25)	31.01 (23.73 to 40.52)	33.15 (21.89 to 50.18)	0.17 (0.13 to 0.22)	0.16 (0.14 to 0.18)
Anti-PSA [M 2], (N=0,44,42,0)	0 (0 to 0)	16.93 (12.39 to 23.13)	12.28 (9.38 to 16.06)	0 (0 to 0)
Anti-PSC [M 0], (N=48,43,46,29)	0.16 (0.14 to 0.2)	0.16 (0.14 to 0.17)	0.16 (0.15 to 0.17)	0.15 (0.15 to 0.15)
Anti-PSC [M 1], (N=51,41,47,28)	13.74 (10.68 to 17.67)	23.52 (18.91 to 29.25)	0.16 (0.15 to 0.17)	7.99 (5.57 to 11.46)
Anti-PSC [M 2], (N=0,41,47,0)	0 (0 to 0)	9.73 (7.82 to 12.12)	5.84 (4.66 to 7.32)	0 (0 to 0)
Anti-PSW-135 [M 0], (N=44,43,40,26)	0.16 (0.14 to 0.17)	0.15 (0.15 to 0.16)	0.17 (0.14 to 0.22)	0.15 (0.15 to 0.15)
Anti-PSW-135 [M 1], (N=44,47,41,26)	6.43 (4.92 to 8.4)	4.15 (2.82 to 6.11)	0.18 (0.14 to 0.22)	0.15 (0.15 to 0.15)
Anti-PSW-135 [M 2], (N=0,44,41,0)	0 (0 to 0)	3.99 (2.91 to 5.48)	3.4 (2.52 to 4.59)	0 (0 to 0)
Anti-PSY [M 0], (N=45,44,42,29)	0.15 (0.15 to 0.16)	0.15 (0.15 to 0.16)	0.15 (0.15 to 0.15)	0.15 (0.15 to 0.15)
Anti-PSY [M 1], (N=45,45,37,23)	6.52 (4.91 to 8.65)	9.42 (6.49 to 13.66)	0.17 (0.13 to 0.21)	0.15 (0.15 to 0.15)
Anti-PSY [M 2], (N=0,44,41,0)	0 (0 to 0)	7.86 (6.04 to 10.23)	4.76 (3.73 to 6.09)	0 (0 to 0)

Statistical analyses

No statistical analyses for this end point

Secondary: Number of seroprotected subjects for Anti-tetanus toxoid (anti-TT)

End point title	Number of seroprotected subjects for Anti-tetanus toxoid (anti-TT)
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End point description:

End point type	Secondary
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End point timeframe:

At month 0, 1 and 2

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	186	180	176	110
Units: Subjects				
anti-TT [M 0], ≥ 0.1 (N=186,177,171,108)	177	161	155	99
anti-TT [M 1], ≥ 0.1 (N=184,180,174,110)	184	177	173	99
anti-TT [M 2], ≥ 0.1 (N=0,177,176,0)	0	177	176	0

Statistical analyses

No statistical analyses for this end point

Secondary: Anti-tetanus toxoid (anti-TT) antibody concentrations

End point title Anti-tetanus toxoid (anti-TT) antibody concentrations

End point description:

End point type Secondary

End point timeframe:

At month 0, 1 and 2

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	186	180	176	110
Units: IU/mL				
geometric mean (confidence interval 95%)				
anti-TT [M 0], (N=186,177,171,108)	0.481 (0.417 to 0.554)	0.39 (0.332 to 0.457)	0.416 (0.354 to 0.489)	0.393 (0.325 to 0.475)
anti-TT [M 1], (N=184,180,174,110)	10.47 (9.131 to 12.007)	7.941 (6.517 to 9.677)	6.189 (5.404 to 7.089)	0.374 (0.306 to 0.457)
anti-TT [M 2], (N=0,177,176,0)	0 (0 to 0)	13.966 (12.199 to 15.987)	8.236 (7.348 to 9.231)	0 (0 to 0)

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects seroprotected for anti-diphtheria (anti-D)

End point title Number of subjects seroprotected for anti-diphtheria (anti-D)

End point description:

End point type Secondary

End point timeframe:

At month 0, 1 and 2

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	185	178	176	110
Units: Subjects				
anti-D [M 0], ≥ 0.1 (N=185,174,170,106)	169	157	154	94
anti-D [M 1], ≥ 0.1 (N=184,178,174,110)	184	156	173	109
anti-D [M 2], ≥ 0.1 (N=0,177,176,0)	0	176	176	0

Statistical analyses

No statistical analyses for this end point

Secondary: Anti-diphtheria (anti-D) antibody concentrations

End point title Anti-diphtheria (anti-D) antibody concentrations

End point description:

End point type Secondary

End point timeframe:

At month 0, 1 and 2

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	185	178	176	110
Units: IU/mL				
geometric mean (confidence interval 95%)				
anti-D [M 0], (N=185,174,170,106)	0.477 (0.407 to 0.559)	0.476 (0.397 to 0.57)	0.437 (0.367 to 0.521)	0.452 (0.355 to 0.574)
anti-D [M 1], (N=184,178,174,110)	7.636 (6.889 to 8.465)	0.404 (0.335 to 0.487)	7.292 (6.362 to 8.358)	5.201 (4.243 to 6.376)
anti-D [M 2], (N=0,177,176,0)	0 (0 to 0)	8.561 (7.553 to 9.703)	5.21 (4.623 to 5.872)	0 (0 to 0)

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects seroprotected for anti-polio type 1, 2 & 3

End point title | Number of subjects seroprotected for anti-polio type 1, 2 & 3

End point description:

End point type | Secondary

End point timeframe:

At month 0, 1 and 2

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	168	164	164	100
Units: Subjects				
anti-p1 [M 0] (N=168,161,156,100)	158	143	142	90
anti-p1 [M 1] (N=167,164,164,99)	166	149	163	89
anti-p1 [M 2] (N=0,160,162,0)	0	159	161	0
anti-p2 [M 0] (N=168,161,156,98)	153	141	145	80
anti-p2 [M 1] (N=167,164,163,98)	166	147	161	80
anti-p2 [M 2] (N=0,159,162,0)	0	159	161	0
anti-p3 [M 0] (N=168,161,157,100)	155	148	143	88
anti-p3 [M 1] (N=167,163,163,100)	167	150	160	87
anti-p3 [M 2] (N=0,160,161,0)	0	159	159	0

Statistical analyses

No statistical analyses for this end point

Secondary: Anti-polio type 1, 2 & 3 titers

End point title | Anti-polio type 1, 2 & 3 titers

End point description:

End point type | Secondary

End point timeframe:

At month 0, 1 and 2

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	168	164	164	100
Units: Titers				
geometric mean (confidence interval 95%)				
anti-p1 [M 0] (N=168,161,156,100)	84.2 (67.2 to 105.4)	72.5 (55.6 to 94.5)	83.6 (65.5 to 106.6)	71.7 (51.7 to 99.6)
anti-p1 [M 1] (N=167,164,164,99)	984.4 (830.4 to 1167)	74.2 (56.7 to 97.3)	1308.5 (1073.2 to 1595.5)	66.3 (46.6 to 94.4)
anti-p1 [M 2] (N=0,160,162,0)	0 (0 to 0)	1288.2 (1052.5 to 1576.6)	1108.4 (913.5 to 1344.8)	0 (0 to 0)
anti-p2 [M 0] (N=168,161,156,98)	76.8 (60.8 to 97)	66.3 (50.9 to 86.5)	65.6 (51.2 to 84.2)	49.3 (34.9 to 69.6)
anti-p2 [M 1] (N=167,164,163,98)	1372 (1153.5 to 1631.9)	70.3 (53.4 to 92.6)	1540.4 (1253.2 to 1893.2)	49.8 (34.5 to 71.9)
anti-p2 [M 2] (N=0,159,162,0)	0 (0 to 0)	1650.5 (1358.5 to 2005.3)	1174.5 (961.4 to 1434.8)	0 (0 to 0)
anti-p3 [M 0] (N=168,161,157,100)	104.4 (81.1 to 134.4)	99.8 (77.5 to 128.5)	113.2 (86.9 to 147.5)	102.9 (72.8 to 145.4)
anti-p3 [M 1] (N=167,163,163,100)	2295.6 (1952.1 to 2699.4)	96.6 (74.2 to 125.8)	2034.3 (1594.9 to 2594.8)	85.3 (58.7 to 124.1)
anti-p3 [M 2] (N=0,160,161,0)	0 (0 to 0)	2478 (2049.2 to 2996.4)	1655.1 (1308.9 to 2092.9)	0 (0 to 0)

Statistical analyses

No statistical analyses for this end point

Secondary: Numbers of seroprotected subjects for anti-PRP

End point title	Numbers of seroprotected subjects for anti-PRP
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End point description:

End point type	Secondary
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End point timeframe:

At month 0, 1 and 2

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	185	179	176	110
Units: Subjects				
anti-PRP [M 0] ≥ 1.0 (N=185,175,171,108)	73	64	65	36
anti-PRP [M 1] ≥ 1.0 (N=184,179,173,110)	183	70	170	34
anti-PRP [M 2] ≥ 1.0 (N=0,177,176,0)	0	172	170	0

Statistical analyses

No statistical analyses for this end point

Secondary: Anti-PRP antibody concentrations

End point title	Anti-PRP antibody concentrations
End point description:	
End point type	Secondary
End point timeframe:	
At month 0, 1 and 2	

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	185	179	176	110
Units: $\mu\text{g/mL}$				
geometric mean (confidence interval 95%)				
anti-PRP [M 0] (N=185,175,171,108)	0.806 (0.658 to 0.987)	0.665 (0.528 to 0.839)	0.766 (0.596 to 0.986)	0.585 (0.449 to 0.762)
anti-PRP [M 1] (N=184,179,173,110)	25.556 (21.358 to 30.579)	0.711 (0.56 to 0.904)	31.165 (25.142 to 38.631)	0.55 (0.42 to 0.72)
anti-PRP [M 2] (N=0,177,176,0)	0 (0 to 0)	12.239 (10.392 to 14.414)	21.023 (17.036 to 25.942)	0 (0 to 0)

Statistical analyses

No statistical analyses for this end point

Secondary: Number of seroprotected subjects for anti-HBs

End point title	Number of seroprotected subjects for anti-HBs
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End point description:

End point type Secondary

End point timeframe:

At month 0, 1 and 2

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	181	174	169	106
Units: Subjects				
anti-HBS [M 0] ≥ 10 (N=180,169,166,102)	173	158	155	95
anti-HBS [M 1] ≥ 10 (N=181,174,169,106)	180	160	166	100
anti-HBS [M 2] ≥ 10 (N=0,173,168,0)	0	172	167	0
anti-HBS [M 0] ≥ 100 (N=180,169,166,102)	92	80	75	46
anti-HBS [M 1] ≥ 100 (N=181,174,169,106)	169	85	155	46
anti-HBS [M 2] ≥ 100 (N=0,173,168,0)	0	168	158	0

Statistical analyses

No statistical analyses for this end point

Secondary: Anti-HBs antibody concentrations

End point title Anti-HBs antibody concentrations

End point description:

End point type Secondary

End point timeframe:

At month 0, 1 and 2

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	181	174	169	106
Units: mIU/mL				
geometric mean (confidence interval 95%)				
anti-HBS [M 0] (N=180,169,166,102)	111.6 (90.9 to 136.9)	92.8 (75.3 to 114.4)	101.2 (81.5 to 125.7)	85.6 (65.7 to 111.5)

anti-HBS [M 1] (N=181,174,169,106)	2048.4 (1589.3 to 2640)	95 (74.8 to 120.6)	1711.6 (1292.7 to 2266.3)	101.6 (75.5 to 136.7)
anti-HBS [M 2] (N=0,173,168,0)	0 (0 to 0)	2392.3 (1841.7 to 3107.4)	1241 (976.2 to 1577.7)	0 (0 to 0)

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with a vaccine response to PT, FHA and PRN antigens

End point title	Number of subjects with a vaccine response to PT, FHA and PRN antigens ^[14]
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End point description:

Vaccine response to these antigens is defined as appearance of antibodies in subjects who were seronegative (antibody concentration < 5 EL.U/mL) at pre-vaccination or as at least a 2-fold increase in post-over pre-vaccination antibody concentrations in subjects seropositive at pre-vaccination.

End point type	Secondary
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End point timeframe:

At 1 month after vaccination

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: The analysis was based only on subjects receiving experimental vaccination.

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	30	47	44	
Units: Subjects				
PT (N=30,47,44)	30	47	44	
FHA (N=3,1,1)	3	1	1	
PRN (N=13,10,18)	13	10	18	

Statistical analyses

No statistical analyses for this end point

Secondary: Anti-PT, anti-FHA and anti-PRN antibody concentrations

End point title	Anti-PT, anti-FHA and anti-PRN antibody concentrations
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End point description:

End point type	Secondary
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End point timeframe:

At month 0, 1 and 2

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	194	188	182	114
Units: EL.U/mL				
geometric mean (confidence interval 95%)				
Anti-PT [M 0] (N=193,187,182,112)	11 (10 to 12)	10 (8 to 11)	10 (9 to 12)	11 (9 to 13)
Anti-PT [M 1] (N=191,180,178,109)	86 (77 to 95)	8 (7 to 9)	85 (75 to 96)	9 (7 to 10)
Anti-PT [M 2] (N=0,177,179,0)	0 (0 to 0)	91 (80 to 102)	63 (55 to 71)	0 (0 to 0)
Anti-FHA [M 0] (N=193,183,181,111)	51 (44 to 59)	55 (46 to 66)	49 (41 to 57)	55 (44 to 68)
Anti-FHA [M 1] (N=191,183,178,110)	542 (492 to 597)	48 (40 to 58)	544 (485 to 611)	55 (42 to 71)
Anti-FHA [M 2] (N=0,178,176,0)	0 (0 to 0)	664 (664 to 750)	413 (366 to 465)	0 (0 to 0)
Anti-PRN [M 0] (N=194,188,182,114)	26 (23 to 31)	26 (22 to 31)	21 (17 to 24)	23 (18 to 28)
Anti-PRN [M 1] (N=190,184,179,112)	470 (411 to 537)	23 (19 to 27)	450 (387 to 522)	21 (16 to 26)
Anti-PRN [M 2] (N=0,178,178,0)	0 (0 to 0)	583 (502 to 676)	336 (286 to 395)	0 (0 to 0)

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects reporting any and Grade 3 solicited local symptoms post-meningococcal vaccination

End point title	Number of subjects reporting any and Grade 3 solicited local symptoms post-meningococcal vaccination
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End point description:

End point type	Secondary
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End point timeframe:

During the 4-day (Days 0-3) follow-up period after Nimenrix vaccination

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	220	217	219	126
Units: Subjects				
Any Pain	49	30	35	16
Grade 3 Pain	3	0	1	1
Any Redness	70	74	56	36
Grade 3 Redness	3	8	8	2

Any Swelling	42	36	36	23
Grade 3 Swelling	2	3	7	0

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects reporting any and Grade 3 solicited local symptoms post-combined diphtheria vaccination

End point title	Number of subjects reporting any and Grade 3 solicited local symptoms post-combined diphtheria vaccination ^[15]
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End point description:

End point type	Secondary
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End point timeframe:

During the 4-day (Days 0-3) follow-up period after Infanrix-hexa vaccination

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: The analysis was based only on subjects receiving combined-diphtheria vaccination.

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	220	209	221	
Units: Subjects				
Any Pain	60	65	64	
Grade 3 Pain	6	5	10	
Any Redness	70	77	99	
Grade 3 Redness	11	14	27	
Any Swelling	48	53	74	
Grade 3 Swelling	12	14	22	

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects reporting any solicited general symptoms following each dose

End point title	Number of subjects reporting any solicited general symptoms following each dose
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End point description:

Subjects in the Nimenrix + Infanrix-hexa Group did not receive a second dose of vaccination.

End point type	Secondary
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End point timeframe:

During the 4-day (Days 0-3) post-vaccination

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	220	218	221	126
Units: Subjects				
Drowsiness, D1	85	56	80	29
Fever, D1	80	41	71	15
Irritability, D1	83	63	75	25
Loss of appetite, D1	51	46	51	15
Drowsiness, D2	0	63	56	0
Fever, D2	0	60	37	0
Irritability, D2	0	75	50	0
Loss of appetite, D2	0	54	38	0

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects reporting any rash

End point title	Number of subjects reporting any rash
End point description:	
End point type	Secondary
End point timeframe:	
During the entire study	

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	222	220	224	127
Units: Subjects				
Any rash	13	25	22	12

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects reporting any new onset of chronic illnesses (NOCI)

End point title	Number of subjects reporting any new onset of chronic illnesses (NOCIs)
End point description:	
End point type	Secondary
End point timeframe:	
During the entire study	

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	222	220	224	127
Units: Subjects				
Any NOCIs	1	2	6	1

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects reporting any conditions prompting emergency room visits (ER)

End point title	Number of subjects reporting any conditions prompting emergency room visits (ER)
End point description:	
End point type	Secondary
End point timeframe:	
During the entire study	

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	222	220	224	127
Units: Subjects				
Any ER visits	5	3	14	6

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects reporting any unsolicited adverse events (AEs) after

the first dose

End point title	Number of subjects reporting any unsolicited adverse events (AEs) after the first dose
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End point description:

End point type	Secondary
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End point timeframe:

Occurring within Day 0-30 following vaccination

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	222	220	224	127
Units: Subjects				
Any AE(s)	71	81	83	42

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects reporting any unsolicited adverse events (AEs) after the second dose

End point title	Number of subjects reporting any unsolicited adverse events (AEs) after the second dose ^[16]
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End point description:

End point type	Secondary
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End point timeframe:

Occurring within Day 0-30 following vaccination

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: The analysis was based only on subjects receiving a second dose of vaccination.

End point values	Nimenrix Group	Infanrix-Hexa Group		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	215	221		
Units: Subjects				
Any AE(s)	87	79		

Statistical analyses

No statistical analyses for this end point

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

End point title	Number of subjects reporting any serious adverse events (SAEs)
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End point description:

End point type	Secondary
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End point timeframe:

From dose 1 up to study end

End point values	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group	Meningitec Group
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	222	220	224	127
Units: Subjects				
Any SAE(s)	10	8	11	6

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

SAEs were reported throughout the entire study period. Solicited symptoms were reported during a 4-day period (Day 0-Day 3) after any vaccine dose, while unsolicited AEs were collected within 31 days (Days 0-30) after vaccination.

Assessment type	Non-systematic
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Dictionary used

Dictionary name	MedDRA
Dictionary version	11.1

Reporting groups

Reporting group title	Nimenrix + Infanrix-hexa Group
Reporting group description:	-
Reporting group title	Nimenrix Group
Reporting group description:	-
Reporting group title	Infanrix-Hexa Group
Reporting group description:	-
Reporting group title	Meningitec Group
Reporting group description:	-

Serious adverse events	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group
Total subjects affected by serious adverse events			
subjects affected / exposed	10 / 222 (4.50%)	8 / 220 (3.64%)	11 / 224 (4.91%)
number of deaths (all causes)	0	0	1
number of deaths resulting from adverse events	0	0	0
Injury, poisoning and procedural complications			
Concussion			
subjects affected / exposed	1 / 222 (0.45%)	1 / 220 (0.45%)	0 / 224 (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
Animal bite			
subjects affected / exposed	0 / 222 (0.00%)	1 / 220 (0.45%)	0 / 224 (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
Contusion			
subjects affected / exposed	1 / 222 (0.45%)	0 / 220 (0.00%)	0 / 224 (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

Skull fracture			
subjects affected / exposed	0 / 222 (0.00%)	1 / 220 (0.45%)	0 / 224 (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
Nervous system disorders			
Febrile convulsion			
subjects affected / exposed	2 / 222 (0.90%)	0 / 220 (0.00%)	1 / 224 (0.45%)
occurrences causally related to treatment / all	0 / 2	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Blood and lymphatic system disorders			
Anaemia			
subjects affected / exposed	0 / 222 (0.00%)	1 / 220 (0.45%)	0 / 224 (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
General disorders and administration site conditions			
Cyst			
subjects affected / exposed	0 / 222 (0.00%)	0 / 220 (0.00%)	1 / 224 (0.45%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Drowning			
subjects affected / exposed	0 / 222 (0.00%)	0 / 220 (0.00%)	1 / 224 (0.45%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 1
Pyrexia			
subjects affected / exposed	1 / 222 (0.45%)	0 / 220 (0.00%)	0 / 224 (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
Immune system disorders			
Hypersensitivity			
subjects affected / exposed	0 / 222 (0.00%)	0 / 220 (0.00%)	0 / 224 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Gastrointestinal disorders			
Aphthous stomatitis			

subjects affected / exposed	0 / 222 (0.00%)	1 / 220 (0.45%)	0 / 224 (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
Respiratory, thoracic and mediastinal disorders			
Bronchospasm			
subjects affected / exposed	0 / 222 (0.00%)	0 / 220 (0.00%)	1 / 224 (0.45%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Skin and subcutaneous tissue disorders			
Rash			
subjects affected / exposed	0 / 222 (0.00%)	1 / 220 (0.45%)	0 / 224 (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
Infections and infestations			
Gastroenteritis			
subjects affected / exposed	1 / 222 (0.45%)	1 / 220 (0.45%)	2 / 224 (0.89%)
occurrences causally related to treatment / all	0 / 1	0 / 1	0 / 2
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Gastroenteritis rotavirus			
subjects affected / exposed	1 / 222 (0.45%)	1 / 220 (0.45%)	2 / 224 (0.89%)
occurrences causally related to treatment / all	0 / 1	0 / 1	0 / 2
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Bronchitis			
subjects affected / exposed	1 / 222 (0.45%)	0 / 220 (0.00%)	0 / 224 (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 norovirus			
subjects affected / exposed	1 / 222 (0.45%)	0 / 220 (0.00%)	1 / 224 (0.45%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Bronchopneumonia			
subjects affected / exposed	0 / 222 (0.00%)	1 / 220 (0.45%)	1 / 224 (0.45%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Otitis media			
subjects affected / exposed	0 / 222 (0.00%)	0 / 220 (0.00%)	1 / 224 (0.45%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Coxsackie viral infection			
subjects affected / exposed	1 / 222 (0.45%)	0 / 220 (0.00%)	0 / 224 (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
Croup infectious			
subjects affected / exposed	0 / 222 (0.00%)	0 / 220 (0.00%)	1 / 224 (0.45%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Pneumonia			
subjects affected / exposed	0 / 222 (0.00%)	0 / 220 (0.00%)	1 / 224 (0.45%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Pneumonia respiratory syncytial viral			
subjects affected / exposed	1 / 222 (0.45%)	0 / 220 (0.00%)	0 / 224 (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
Subcutaneous abscess			
subjects affected / exposed	0 / 222 (0.00%)	1 / 220 (0.45%)	0 / 224 (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
Tonsillitis			
subjects affected / exposed	1 / 222 (0.45%)	0 / 220 (0.00%)	0 / 224 (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			
subjects affected / exposed	1 / 222 (0.45%)	0 / 220 (0.00%)	0 / 224 (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
Urinary tract infection			

subjects affected / exposed	0 / 222 (0.00%)	0 / 220 (0.00%)	1 / 224 (0.45%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Metabolism and nutrition disorders			
Iron deficiency			
subjects affected / exposed	0 / 222 (0.00%)	0 / 220 (0.00%)	0 / 224 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Serious adverse events	Meningitec Group		
Total subjects affected by serious adverse events			
subjects affected / exposed	6 / 127 (4.72%)		
number of deaths (all causes)	0		
number of deaths resulting from adverse events	0		
Injury, poisoning and procedural complications			
Concussion			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Animal bite			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Contusion			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Skull fracture			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Nervous system disorders			
Febrile convulsion			

subjects affected / exposed	0 / 127 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Blood and lymphatic system disorders			
Anaemia			
subjects affected / exposed	1 / 127 (0.79%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
General disorders and administration site conditions			
Cyst			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Drowning			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Pyrexia			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Immune system disorders			
Hypersensitivity			
subjects affected / exposed	1 / 127 (0.79%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Gastrointestinal disorders			
Aphthous stomatitis			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Respiratory, thoracic and mediastinal disorders			
Bronchospasm			

subjects affected / exposed	1 / 127 (0.79%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Skin and subcutaneous tissue disorders			
Rash			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Infections and infestations			
Gastroenteritis			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Gastroenteritis rotavirus			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Bronchitis			
subjects affected / exposed	2 / 127 (1.57%)		
occurrences causally related to treatment / all	0 / 2		
deaths causally related to treatment / all	0 / 0		
Gastroenteritis norovirus			
subjects affected / exposed	1 / 127 (0.79%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Bronchopneumonia			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Otitis media			
subjects affected / exposed	1 / 127 (0.79%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Coxsackie viral infection			

subjects affected / exposed	0 / 127 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Croup infectious			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Pneumonia			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Pneumonia respiratory syncytial viral			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Subcutaneous abscess			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Tonsillitis			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Upper respiratory tract infection			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Urinary tract infection			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Metabolism and nutrition disorders			
Iron deficiency			

subjects affected / exposed	1 / 127 (0.79%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		

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

Non-serious adverse events	Nimenrix + Infanrix-hexa Group	Nimenrix Group	Infanrix-Hexa Group
Total subjects affected by non-serious adverse events			
subjects affected / exposed	85 / 222 (38.29%)	87 / 220 (39.55%)	99 / 224 (44.20%)
General disorders and administration site conditions			
Pain (after meningococcal vaccination)			
alternative assessment type: Systematic			
subjects affected / exposed	49 / 222 (22.07%)	30 / 220 (13.64%)	35 / 224 (15.63%)
occurrences (all)	49	30	35
Redness (after meningococcal vaccination)			
alternative assessment type: Systematic			
subjects affected / exposed	70 / 222 (31.53%)	74 / 220 (33.64%)	56 / 224 (25.00%)
occurrences (all)	70	74	56
Swelling (after meningococcal vaccination)			
alternative assessment type: Systematic			
subjects affected / exposed	42 / 222 (18.92%)	36 / 220 (16.36%)	36 / 224 (16.07%)
occurrences (all)	42	36	36
Pain (after Infanrix-hexa vaccination)			
alternative assessment type: Systematic			
subjects affected / exposed	60 / 222 (27.03%)	65 / 220 (29.55%)	64 / 224 (28.57%)
occurrences (all)	60	65	64
Redness (after infanrix-hexa vaccination)			
alternative assessment type: Systematic			
subjects affected / exposed	70 / 222 (31.53%)	77 / 220 (35.00%)	99 / 224 (44.20%)
occurrences (all)	70	77	99
Swelling (after infanrix-hexa vaccination)			
alternative assessment type:			

Systematic			
subjects affected / exposed	48 / 222 (21.62%)	53 / 220 (24.09%)	74 / 224 (33.04%)
occurrences (all)	48	53	74
Drowsiness (after the first dose)			
alternative assessment type: Systematic			
subjects affected / exposed	85 / 222 (38.29%)	56 / 220 (25.45%)	80 / 224 (35.71%)
occurrences (all)	85	56	80
Fever - Rectally (after the first dose)			
alternative assessment type: Systematic			
subjects affected / exposed	80 / 222 (36.04%)	41 / 220 (18.64%)	71 / 224 (31.70%)
occurrences (all)	80	41	71
Irritability (after the first dose)			
alternative assessment type: Systematic			
subjects affected / exposed	83 / 222 (37.39%)	63 / 220 (28.64%)	75 / 224 (33.48%)
occurrences (all)	83	63	75
Loss of appetite (after the first dose)			
alternative assessment type: Systematic			
subjects affected / exposed	51 / 222 (22.97%)	46 / 220 (20.91%)	51 / 224 (22.77%)
occurrences (all)	51	46	51
Drowsiness (after the second dose)			
alternative assessment type: Systematic			
subjects affected / exposed	0 / 222 (0.00%)	63 / 220 (28.64%)	56 / 224 (25.00%)
occurrences (all)	0	63	56
Fever - Rectally (after the second dose)			
alternative assessment type: Systematic			
subjects affected / exposed	0 / 222 (0.00%)	60 / 220 (27.27%)	37 / 224 (16.52%)
occurrences (all)	0	60	37
Irritability (after the second dose)			
alternative assessment type: Systematic			
subjects affected / exposed	0 / 222 (0.00%)	75 / 220 (34.09%)	50 / 224 (22.32%)
occurrences (all)	0	75	50
Loss of appetite (after the second dose)			
alternative assessment type: Systematic			

subjects affected / exposed occurrences (all)	0 / 222 (0.00%) 0	54 / 220 (24.55%) 54	38 / 224 (16.96%) 38
Infections and infestations			
Upper respiratory tract infection (after the first dose) subjects affected / exposed occurrences (all)	12 / 222 (5.41%) 12	13 / 220 (5.91%) 13	12 / 224 (5.36%) 12
Rhinitis (after the first dose) subjects affected / exposed occurrences (all)	9 / 222 (4.05%) 9	11 / 220 (5.00%) 11	0 / 224 (0.00%) 0
Upper respiratory tract infection (after the second dose) subjects affected / exposed occurrences (all)	4 / 222 (1.80%) 4	17 / 220 (7.73%) 17	14 / 224 (6.25%) 14
Gastroenteritis (after the second dose) subjects affected / exposed occurrences (all)	0 / 222 (0.00%) 0	12 / 220 (5.45%) 12	8 / 224 (3.57%) 8
Bronchitis (after the second dose) subjects affected / exposed occurrences (all)	0 / 222 (0.00%) 0	11 / 220 (5.00%) 11	7 / 224 (3.13%) 7
Bronchitis (after the first dose) subjects affected / exposed occurrences (all)	7 / 222 (3.15%) 7	0 / 220 (0.00%) 0	6 / 224 (2.68%) 6

Non-serious adverse events	Meningitec Group		
Total subjects affected by non-serious adverse events subjects affected / exposed	42 / 127 (33.07%)		
General disorders and administration site conditions Pain (after meningococcal vaccination) alternative assessment type: Systematic subjects affected / exposed occurrences (all)	16 / 127 (12.60%) 16		
Redness (after meningococcal vaccination) alternative assessment type: Systematic			

subjects affected / exposed	36 / 127 (28.35%)		
occurrences (all)	36		
Swelling (after meningococcal vaccination)			
alternative assessment type: Systematic			
subjects affected / exposed	23 / 127 (18.11%)		
occurrences (all)	23		
Pain (after Infanrix-hexa vaccination)			
alternative assessment type: Systematic			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences (all)	0		
Redness (after infanrix-hexa vaccination)			
alternative assessment type: Systematic			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences (all)	0		
Swelling (after infanrix-hexa vaccination)			
alternative assessment type: Systematic			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences (all)	0		
Drowsiness (after the first dose)			
alternative assessment type: Systematic			
subjects affected / exposed	29 / 127 (22.83%)		
occurrences (all)	29		
Fever - Rectally (after the first dose)			
alternative assessment type: Systematic			
subjects affected / exposed	15 / 127 (11.81%)		
occurrences (all)	15		
Irritability (after the first dose)			
alternative assessment type: Systematic			
subjects affected / exposed	25 / 127 (19.69%)		
occurrences (all)	25		
Loss of appetite (after the first dose)			
alternative assessment type: Systematic			

subjects affected / exposed	15 / 127 (11.81%)		
occurrences (all)	15		
Drowsiness (after the second dose)			
alternative assessment type: Systematic			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences (all)	0		
Fever - Rectally (after the second dose)			
alternative assessment type: Systematic			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences (all)	0		
Irritability (after the second dose)			
alternative assessment type: Systematic			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences (all)	0		
Loss of appetite (after the second dose)			
alternative assessment type: Systematic			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences (all)	0		
Infections and infestations			
Upper respiratory tract infection (after the first dose)			
subjects affected / exposed	8 / 127 (6.30%)		
occurrences (all)	8		
Rhinitis (after the first dose)			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences (all)	0		
Upper respiratory tract infection (after the second dose)			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences (all)	0		
Gastroenteritis (after the second dose)			
subjects affected / exposed	0 / 127 (0.00%)		
occurrences (all)	0		
Bronchitis (after the second dose)			

subjects affected / exposed	0 / 127 (0.00%)		
occurrences (all)	0		
Bronchitis (after the first dose)			
subjects affected / exposed	7 / 127 (5.51%)		
occurrences (all)	7		

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