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<p><b>Study Number:</b> 112595 (10PN-PD-DIT-053)</p>
<p><b>Title:</b> Impact on nasopharyngeal carriage, acute otitis media, immunogenicity and safety of GSK Biologicals' pneumococcal conjugate vaccine 1024850A.  <i>Synflorix™</i>- GSK1024850A (10Pn): GlaxoSmithKline (GSK) Biologicals' 10-valent pneumococcal polysaccharide and non-typeable <i>Haemophilus influenzae</i> (<i>H. influenzae</i>) protein D conjugate (10Pn-PD-DiT) vaccine.</p>
<p><b>Rationale:</b> The aim of this study was to assess the impact of 10Pn on nasopharyngeal carriage, acute otitis media (AOM), the immunogenicity and safety in subjects which 10Pn vaccine was given either as a 2-dose or 3-dose primary vaccination course in children below 7 months of age with a booster dose given early in the second year of life, or when given as a catch-up immunization dose in children 7 to 18 months of age. For all subjects enrolled in this study in combination with data collected for subjects enrolled in the 10PN-PD-DIT-043 (111442) study, within which this study is nested, vaccine effectiveness in preventing culture-confirmed or probable cases of ID and impact on hospital-diagnosed pneumonia cases, occurrence of tympanostomy tube placement and outpatient antimicrobial prescriptions was evaluated using data collected from the national registers. Control vaccines were GSK Biologicals' <i>Engerix B™</i>, in children below 12 months of age, and <i>Havrix 720 Junior™</i>, in children aged 12 months and above.  Duration of treatment in this study was of, approximately, 18 months for subjects enrolled between 6 weeks and 6 months of age, 15 months for subjects enrolled between 7 to 11 months of age, and 10 months for subjects enrolled between 12 to 18 months of age.  Refer to the 111442 CTRS for further details and results of the 10PN-PD-DIT-043 (111442) study.</p> <p><i>Engerix B™</i> (HBV): GSK Biologicals' Hepatitis B vaccine.  <i>Havrix™ 720 Junior</i> (HAV): GSK Biologicals' Hepatitis A vaccine.</p>
<p><b>Phase:</b> III</p>
<p><b>Study Period:</b> 18 February 2009 (Study start) to</p> <ul style="list-style-type: none"> <li>• 22 December 2011 (Last Subject Last Visit in this 112595 study)</li> <li>• 31 January 2012 (End time point for the Primary Objective and Outcome analysis common to both 111442 and 112595 studies)</li> </ul>
<p><b>Study Design:</b> Double-blind, cluster-randomized, controlled study with 4 groups of clusters* (2:2:1:1)  This study was nested in 10PN-PD-DIT-043 (111442) study and was carried out in 50 clusters* out of total 78 study clusters, including 6 which recruited solely to this 112595 study.  * Refer to the Treatment section for definitions of the study clusters.</p>
<p><b>Centres:</b> 15 centres in Finland.</p>
<p><b>Indication:</b> Active immunization against <i>S. pneumoniae</i> serotypes 1, 4, 5, 6B, 7F, 9V, 14, 18C, 19F, and 23 F, and <i>H. influenzae</i> in children aged 6 to 18 months.</p>
<p><b>Treatment:</b> Municipalities participating to the study were organised into the following 4 parallel groups of clusters (2:2:1:1):</p> <ul style="list-style-type: none"> <li>• 10Pn 3+1 group of clusters: Subjects enrolled in the 10Pn 3+1 clusters received 10Pn vaccine. Children enrolled in these clusters between 6 weeks and 6 months of age received a 3-dose primary vaccination schedule.</li> <li>• 10Pn 2+1 group of clusters: Subjects enrolled in the 10Pn 2+1 clusters received 10Pn vaccine. Children enrolled in these clusters between 6 weeks and 6 months of age received a 2-dose primary vaccination schedule.</li> <li>• Control 3+1 group of clusters: subjects enrolled in the Control 3+1 clusters received HBV vaccine if &lt; 12 months of age at the time of first study vaccination, or HAV vaccine if ≥ 12 months of age at the time of first study vaccination. Children enrolled in these clusters between 6 weeks and 6 months of age received a 3-dose primary vaccination schedule.</li> <li>• Control 2+1 group of clusters: subjects enrolled in the Control 2+1 clusters received HBV vaccine if &lt; 12 months of age at the time of first study vaccination, or HAV vaccine if ≥ 12 months of age at the time of first study vaccination. Children enrolled in these clusters between 6 weeks and 6 months of age received a 2-dose primary vaccination schedule.</li> </ul>
<p>Vaccination schedules and study groups depended on the age at enrolment:</p> <ul style="list-style-type: none"> <li>• Infants enrolled between 6 weeks and 6 months of age: 3-dose primary vaccination with 10Pn vaccine ("10Pn3+1 Schedule") or HBV vaccine ("Ctrl3+1 Schedule") with an interval of at least 4 weeks, or 2-dose primary vaccination with 10Pn vaccine ("10Pn2+1 Schedule") or HBV vaccine ("Ctrl2+1 Schedule") with an interval of at least 8 weeks, followed by a booster dose of the same vaccine with an interval of preferably 6 months since the previous vaccine</li> </ul>

dose (minimum 4 months).

This age group is also referred to as the "Infant cohort".

- Catch-up infants enrolled between 7 and 11 months of age: 2-dose primary vaccination with either 10Pn ("Catch-up 7-11M-10Pn") or HBV vaccine ("Catch-up 7-11M-Ctrl") with an interval of at least 4 weeks, followed by a booster dose of the same vaccine with an interval of preferably 6 months since the previous vaccine dose (minimum 4 months) ("7-11M Schedule").
- Catch-up toddlers enrolled between 12 and 18 months of age: 2-dose vaccination with 10Pn ("Catch-up 12-18M-10Pn") or HAV vaccine ("Catch-up 12-18M-Ctrl") with an interval of at least and preferably 6 months between doses ("12-18M Schedule").

The age group between 7 and 18 months of age is also referred to as the "Catch-up cohort"

All study vaccines were administered intramuscularly in the thigh, or in the deltoid region of upper arm in children aged  $\geq 12$  months, provided the muscle size was adequate.

**Objectives:\***

- To demonstrate the effectiveness of 10Pn vaccine in preventing culture-confirmed Invasive Pneumococcal Disease (IPD) due to vaccine pneumococcal serotypes in children vaccinated with at least one dose of 10Pn within the first 7 months of life in clusters assigned to a 3-dose primary vaccination course.

*Criterion for effectiveness:*

*Effectiveness (VE) in preventing culture-confirmed IPD due to the 10 vaccine serotypes was demonstrated if the 2-sided p-value calculated for the null hypothesis  $H_0 = (\text{vaccine-type [VT] IPD VE} = 0\%)$  was lower than 5%.*

*\*This is the Primary Objective of the 111442 study in which this study was nested. Subjects enrolled to 112595 study contributed to this primary objective of the 111442 study as well as to its secondary objectives, and results are presented in the 111442 CTRS. All objectives of this nested 112595 study are secondary objectives and thus not listed here.*

**Primary Outcome/Efficacy Variable:**

In children starting vaccination within the first 7 months of life in clusters assigned to a 3-dose primary vaccination course:

- Occurrence of culture-confirmed IPD due to any of the 10 pneumococcal vaccine serotypes.

*\*This is the Primary Outcome of the 111442 study and subjects of the 112595 study, as nested within the 111442 study, are contributing to this primary outcome of the main 111442 study. Results for this Primary Outcome are presented in the 111442 CTRS. All outcomes in this nested 112595 study are secondary outcomes and listed in the Secondary Outcome section below*

**Secondary Outcome/Efficacy Variable(s):**

Effectiveness

In children starting vaccination within the first 7 months of life in clusters assigned to a 2-dose primary vaccination course:

- Occurrence of culture-confirmed IPD due to any of the 10 pneumococcal vaccine serotypes<sup>u</sup>.

In the vaccinated population:

- Occurrence of culture-confirmed ID due to any of the bacterial pathogens listed below<sup>u</sup>:
  - any and each of the 10Pn vaccine serotypes
  - any and each of the vaccine-related pneumococcal serotypes
  - any and each of the other pneumococcal serotypes
  - any and each of the *H. influenzae* types
  - any other bacterial pathogen
- Occurrence of probable cases of ID caused by the bacterial pathogens as listed above<sup>u</sup>
- Occurrence of hospital-diagnosed pneumonia cases<sup>u</sup>
- Occurrence of hospital-diagnosed pneumonia cases with abnormal pulmonary infiltrates on the chest X-ray (CXR pneumonia) based on the chest X-ray (CXR) reading according to WHO criteria <sup>u</sup>
- Occurrence of hospital-diagnosed pneumonia cases with alveolar consolidation/pleural effusion on the CXR (CXR-AC pneumonia) based on the CXR reading according to WHO criteria<sup>u</sup>
- Occurrence of hospital-diagnosed pneumonia cases without alveolar infiltrates or pleural effusion on the CXR (CXR-NAC pneumonia) based on the CXR reading according to WHO criteria<sup>u</sup>
- Occurrence of tympanostomy tube placements<sup>u</sup>
- Occurrence of outpatient antibiotic prescriptions<sup>u</sup>
- Antimicrobial susceptibility of *S. pneumoniae* and *H. influenzae* isolated from invasive disease<sup>e</sup>

Carriage

- Occurrence of *H. influenzae*, *S. pneumoniae* and/or other bacterial pathogens in the nasopharynx
- Acquisition of new *H. influenzae* and/or *S. pneumoniae* strains in the nasopharynx

#### Immunogenicity (in the Immuno subset<sup>%</sup>)

- Subjects from 6 weeks to 6 months of age:
  - Concentration of antibodies and opsonophagocytic activity (OPA) against components of the 10Pn vaccine
    - Concentrations of antibodies and OPA against vaccine pneumococcal serotypes
    - Concentrations of antibodies and OPA against cross-reactive pneumococcal serotypes 6A and 19A
  - Antibody concentrations against protein D
- Subjects from 7-11 and 12-18 months of age:
  - Concentration of antibodies against components of the 10Pn vaccine
    - Concentrations of antibodies against vaccine pneumococcal serotypes.
    - Concentrations of antibodies against cross-reactive pneumococcal serotypes 6A and 19A.

#### Clinical acute otitis media (AOM)

- Occurrence of AOM with level 1 of diagnostic certainty.
- Occurrence of recurrent AOM based on level 1 of diagnostic certainty.
- Occurrence of AOM with level 1 of diagnostic certainty with documented antimicrobial prescription.

#### Respiratory tract infection (RTI), including AOM (in a subset of subjects in Turku area)<sup>X</sup>:

- Occurrence of lower respiratory tract infections (LRTIs).
- Occurrence of upper respiratory tract infections (URTIs), including AOM as specified below:
  - AOM with level 1-3 of diagnostic certainty.
  - Recurrent AOM based on level 1-3 of diagnostic certainty.
  - AOM by severity.
  - AOM with level 1-3 of diagnostic certainty with documented antimicrobial prescription.

#### Safety<sup>\*</sup>

- Occurrence of solicited local adverse events (AEs) (any, grade 3) within 4 days after each vaccination
- Occurrence of solicited general AEs (any, grade 3, related) within 4 days after each vaccination.
- Occurrence of unsolicited AEs within 31 days after each vaccination.
- Occurrence of serious adverse events (SAEs) following administration of the first vaccine dose up to study end.

<sup>H</sup>Results for these Secondary Outcomes concern subjects enrolled in this study as well as those enrolled in the 111442 study. These results are presented in the 111442 CTRS.

<sup>£</sup>Results on this outcome were not available at the time of writing of this CTRS. They will be posted in the 111442 CTRS when available.

<sup>%</sup>The Immuno subset was constituted of the first ± 1500 subjects from whom blood samples were collected, according to age and treatment groups. The Month 0 nasopharyngeal swab samples collected from subjects within their first 7 months of age were obtained solely from this Immuno subset.

<sup>X</sup>Exploratory analysis of outcomes related to impact on AOM severity, LRTI and URTI in the Turku area are not included in this CTRS because they are uninterpretable due to low sample size.

<sup>\*</sup>In addition, SAEs notified via passive surveillance were collected – from 31 January 2012 (end time point for the Primary Objective) till 05 October 2013 (the end of the 18-month period after study unblinding). Please refer to the 111442 CTRS for these results.

**Statistical Methods:** The analyses were performed on cohorts defined as follows:

- The Total Vaccinated cohort for analysis of safety and carriage included all subjects with at least one vaccine administration documented.
- The Total Vaccinated cohort for analysis of carriage included all vaccinated subjects for whom data concerning carriage outcome measures were available.
- The Total Vaccinated cohort for analysis of AOM/RTI effectiveness included all vaccinated subjects for whom data concerning AOM/RTI effectiveness outcome measures were available. Note that the effectiveness analysis was performed considering cluster randomisation methodology and that wrongly randomised subjects for cluster randomisation effects were excluded from this analysis.
- The According-to-Protocol (ATP) cohort for immunogenicity included all evaluable subjects (i.e. those meeting all eligibility criteria, complying with the procedures and intervals defined in the protocol, with no elimination criteria during the study) for whom data concerning immunogenicity outcome measures were available.

Analyses of carriage, immunogenicity and safety were performed as per individually randomised subjects attributed to the

actual treatment received.

#### Analysis of Carriage

The analysis was based on the Total Vaccinated cohort for analysis of carriage.

At each time point where a swab sample result was available, the following analyses were performed:

- Percentage of subjects with positive nasopharyngeal sample was tabulated with 95% confidence interval (CI)
- Vaccine efficacy estimated as  $[(1-\text{relative risk}) \times 100]$  with 95% CI was tabulated for carriage of *H. influenzae*, *S. pneumoniae* and other bacterial pathogens.

Cumulative acquisition of new bacteria/serotypes in the nasopharynx was also tabulated with 95% CI.

#### Analysis of Immunogenicity

The analysis of immunogenicity was performed on the ATP cohort for immunogenicity.

For each treatment group in each age range and at each time point where a blood sample result was available, the following parameters were tabulated with 95% CIs:

- Antibody geometric mean concentrations (GMCs), measured by 22F-inhibition enzyme-linked immunosorbent assay (ELISA), and seropositivity\* rates for responses to each vaccine/cross-reactive pneumococcal serotype and protein D
- The percentage of subjects with pneumococcal antibody concentrations against serotypes 1, 4, 5, 6A, 6B, 7F, 9V, 14, 18C, 19A, 19F and 23F  $\geq 0.05 \mu\text{g/mL}$  and  $\geq 0.2 \mu\text{g/mL}$
- The percentage of subjects with anti-PD antibody concentrations  $\geq 100 \text{ EL.U/mL}$

For the subjects from 6 weeks to 6 months of age and for each treatment group, and at each time point where a blood sample result was available, the following parameters were tabulated with 95% CIs:

- Antibody geometric mean titres (GMTs)
- The percentage of subjects with OPA against pneumococcal serotypes 1, 4, 5, 6A, 6B, 7F, 9V, 14, 18C, 19A, 19F and 23F  $\geq 8$ .

\*A seropositive subject was a subject with antibody concentration  $\geq 0.05 \mu\text{g/mL}$  and 100 EL.U/mL cut-off values for pneumococcal and anti-PD antibody concentrations, respectively.

#### Analysis of Effectiveness

The analysis of Effectiveness was performed on the Total Vaccinated cohort for analysis of AOM/RTI effectiveness.

An initial analysis of AOM/RTI was performed using one fixed calendar date as end of follow-up time for all subjects, similarly to what was applied for the effectiveness outcomes common with 111442 study in which effectiveness outcome collection was performed via national registers. A post-hoc re-analysis of AOM/RTI objectives with the corrected definition of follow-up taking into account individual end of follow-up time was performed; the results of re-analysis as the most prominent for AOM outcome are presented in this CTRS.

The AOM/RTI effectiveness outcomes were analysed descriptively applying the following algorithm:

- Using a negative binomial log-linear model favouring correction for the cluster effect by taking into account for over-dispersion associated to cluster.
- In case of convergence issue with the first model, a negative binomial log-linear model was applied.
- If the over-dispersion was null, the above models were replaced by a standard Poisson model

Any of these models was applied to derive the vaccine efficacy (VE), defined as 1-relative risk, and its 95% CI.

Exploratory analysis of outcomes related to impact on AOM severity, LRTI and URTI in the Turku area are not included in this CTRS because they are uninterpretable due to low sample size

#### Analysis of Safety

The analysis was performed on the Total Vaccinated cohort for analysis of safety and carriage.

The percentages of subjects reporting each individual solicited local and general AE during the 4-day (day 0-day 3) solicited follow-up period after vaccination were tabulated with exact 95% CIs. The same tabulation was performed for grade 3 AEs and for general AEs assessed by the investigators as causally related to the vaccination. The percentage of subjects with at least one unsolicited AE reported during the 31-day (Days 0-30) follow-up period and classified by the Medical Dictionary for Regulatory Activities (MedDRA) preferred term was tabulated. Serious adverse events during the entire study period were described in detail. Note that, to avoid inconsistency in the clinical database between the AE reporting and the AOM questionnaire, the questionnaire used for AOM report collection, otitis was not requested to be reported as an AE if already reported via the AOM questionnaire.

In addition to the above, SAEs notified via passive surveillance were collected –from 31 January 2012 (end time point for the Primary Objective) till 05 October 2013 (the end of the 18-month period after study unblinding).

**Study Population:** Male or female subjects between, and including, 6 weeks to 18 months of age at the time of the first

vaccination. Subjects who received previous vaccination with any registered, non-registered or investigational Hepatitis A or B virus or pneumococcal vaccines or for whom vaccination with such a vaccine other than the study vaccines was planned during the study period were excluded from the study, as well as subjects with any medical condition that would contraindicate the initiation of routine immunization outside a clinical trial context. Among others, subjects were excluded if they presented high risk of pneumococcal infections (such as anatomic or functional asplenia, HIV infection, chronic cardiac or respiratory disease (not asthma), diabetes, cochlear implant, CSF fistula or with significant immunodeficiency). Written informed consent was obtained from the parent(s) or from the guardian(s) of the subject.

**Number of subjects:**

Note regarding the tables presented here below: After the analysis had been performed, an error in treatment number allocation was identified. For 3 subjects, new subject numbers were allocated after administration of the first dose without excluding the initially allocated subject numbers from the Total Vaccinated cohort. Thus, for these 3 initially enrolled subjects, 2 subject numbers per each subject were used, while actually there were 3 subjects less enrolled among the 6181 subject numbers allocated. Therefore the actual total number of subjects enrolled was 6178 subjects in the Total Vaccinated cohort. This corresponds to 6174 subjects in the Total Vaccinated cohort for safety and carriage instead of the 6177 subjects presented in the demographic tables below. As these 3 subjects were part of separate age cohorts, the error would not be expected to have a significant impact on the overall data analysis; therefore re-analysis was not performed. The results presented below are based on the analysis including the 6 subject numbers pertaining to 3 enrolled subjects.

**Infants Enrolled between 6 Weeks and 6 Months of Age**

Number of subjects	10Pn3+1 Group	Ctrl3+1 Group	10Pn2+1 Group	Ctrl2+1 Group
Planned, N	1840	920	1840	920
Randomized, N (Total Vaccinated cohort for analysis of safety and carriage)	1849	1069	1316	859
Completed, n (%)	1696 (91.7)	979 (91.6)	1224 (93.0)	797 (92.8)
Total Number Subjects Withdrawn, n (%)	153 (8.3)	90 (8.4)	92 (7.0)	62 (7.2)
Withdrawn due to Adverse Events, n (%)	12 (0.7)	3 (0.3)	6 (0.5)	5 (0.6)
Withdrawn due to Lack of Efficacy, n (%)	Not applicable	Not applicable	Not applicable	Not applicable
Withdrawn for other reasons, n (%)	141 (7.6)	87 (8.1)	86 (6.5)	57 (6.6)
Demographics	10Pn3+1 Group	Ctrl3+1 Group	10Pn2+1 Group	Ctrl2+1 Group
N (Total Vaccinated cohort for analysis of safety and carriage)	1849	1069	1316	859
Females: Males	921:928	551:518	681:635	393:466
Mean Age, months (SD)	2.4 (1.02)	2.6 (1.19)	2.3 (0.95)	2.4 (1.00)
White - Caucasian / European heritage, n (%)	1822 (98.5)	1058 (99.0)	1303 (99.0)	845 (98.4)

10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine

Ctrl3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with HBV vaccine

10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine

Ctrl2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with HBV vaccine

**Children Enrolled between 7 and 11 Months of Age**

Number of Subjects:	10Pn Group	Ctrl Group
Planned, N	432	216
Randomized, N (Total Vaccinated cohort for analysis of safety and carriage)	241	204
Completed, n (%)	204 (84.6)	178 (87.3)
Total Number Subjects Withdrawn, n (%)	37 (15.4)	26 (12.7)
Withdrawn due to Adverse Events, n (%)	2 (0.9)	1 (0.5)
Withdrawn due to Lack of Efficacy, n (%)	Not applicable	Not applicable
Withdrawn for other reasons, n (%)	35 (14.5)	25 (12.2)
Demographics	10Pn Group	Ctrl Group
N (Total Vaccinated cohort for analysis of safety and carriage)	241	204
Females: Males	118:123	113:91
Mean Age, months (SD)	9.0 (1.44)	8.7 (1.39)
White - Caucasian / European heritage, n (%)	235 (97.5)	201 (98.5)

10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine

Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine

<b>Children Enrolled between 12 and 18 Months of Age</b>														
<b>Number of Subjects:</b>		<b>10Pn Group</b>					<b>Ctrl Group</b>							
Planned, N		432					216							
Randomized, N (Total Vaccinated cohort for analysis of safety and carriage)		368					271							
Completed, n (%)		340 (92.4)					256 (94.5)							
Total Number Subjects Withdrawn, n (%)		28 (7.6)					15 (5.5)							
Withdrawn due to Adverse Events, n (%)		0 (0.0)					1 (0.4)							
Withdrawn due to Lack of Efficacy, n (%)		Not applicable					Not applicable							
Withdrawn for other reasons, n (%)		28 (7.6)					14 (5.1)							
<b>Demographics</b>		<b>10Pn Group</b>					<b>Ctrl Group</b>							
N (Total Vaccinated cohort for analysis of safety and carriage)		368					271							
Females: Males		173:195					142:129							
Mean Age, months (SD)		15.0 (1.99)					15.2 (1.99)							
White - Caucasian / European heritage, n (%)		362 (98.4)					270 (99.6)							
10Pn Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of 10Pn vaccine														
Ctrl Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of HAV vaccine														
<b>Primary Efficacy Results:</b> Refer to the 111442 CTRS for these results.														
<b>Secondary Outcome Variable(s):</b> Refer to the 111442 CTRS for results for secondary outcomes that are not presented in this summary.														
<b>Secondary Outcome Variable(s):</b> Occurrence of <i>S. pneumoniae</i> (any) in nasopharyngeal swabs and vaccine efficacy for 10Pn3+1 Group versus Ctrl Group in infants enrolled between 6 weeks and 6 months of age (Total Vaccinated cohort for analysis of carriage)														
		<b>10Pn3+1 Group</b>					<b>Ctrl Group</b>					<b>Vaccine efficacy</b>		
		<b>95% CI</b>					<b>95% CI</b>					<b>95% CI</b>		
<b>Age</b>	<b>Timing</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>%</b>	<b>LL</b>	<b>UL</b>
3 Months	PRE(M0)	253	49	19.4	14.7	24.8	341	56	16.4	12.7	20.8	-17.9	-76.2	21.3
6 Months	PIII(M3)	1803	412	22.9	20.9	24.9	1897	464	24.5	22.5	26.5	6.6	-6.9	18.4
11-12 Months	PIII(M8)	1784	500	28.0	26.0	30.2	1877	604	32.2	30.1	34.3	12.9	1.8	22.8
14-15 Months	PIV(M11)	1727	512	29.6	27.5	31.9	1814	638	35.2	33.0	37.4	15.7	5.2	25.1
18-22 Months	PIV(M18)	1686	503	29.8	27.7	32.1	1769	736	41.6	39.3	43.9	28.3	19.6	36.1
-	Across time points	1816	1041	57.3	55.0	59.6	1910	1237	64.8	62.6	66.9	11.5	3.8	18.6
10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine														
Ctrl Group = Infants enrolled 6 weeks -6 months of age: infants primed with 2 or 3 doses and boosted with HBV vaccine														
For each time point: N = number of swabs cultured at the considered time point n/% = number/percentage of swabs associated to the specified bacteria at the considered time point														
Across time points N = number of swabs cultured after at least one time point n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point														
VE (%) = Vaccine efficacy estimated as 1-Relative Risk														
95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)														
Nasopharyngeal swabs at PRE(M0) were only collected in the Immuno subset														
PRE(M0) = Prior to dose 1														
PIII(M3) = 1 month post dose 3														
PIII(M8) = Pre booster dose														
PIV(M11) = 3 months post-booster dose														
PIV(M18) = 10 months post-booster dose														
<b>Secondary Outcome Variable(s):</b> Occurrence of <i>S. pneumoniae</i> (any) in nasopharyngeal swabs and vaccine efficacy for 10Pn2+1 Group versus Ctrl Group in infants enrolled between 6 weeks and 6 months of age (Total Vaccinated cohort for analysis of carriage)														
		<b>10Pn2+1 Group</b>					<b>Ctrl Group</b>					<b>Vaccine efficacy</b>		
		<b>95% CI</b>					<b>95% CI</b>					<b>95% CI</b>		
<b>Age</b>	<b>Timing</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>%</b>	<b>LL</b>	<b>UL</b>
3 Months	PRE(M0)	253	31	12.3	8.5	16.9	341	56	16.4	12.7	20.8	25.4	-17.7	53.5

6 Months	PII(M3)	1289	323	25.1	22.7	27.5	1897	464	24.5	22.5	26.5	-2.4	-18.3	11.4
11-12 Months	PII(M8)	1269	383	30.2	27.7	32.8	1877	604	32.2	30.1	34.3	6.2	-6.8	17.7
14-15 Months	PIII(M11)	1227	370	30.2	27.6	32.8	1814	638	35.2	33.0	37.4	14.3	2.4	24.8
18-22 Months	PIII(M18)	1216	430	35.4	32.7	38.1	1769	736	41.6	39.3	43.9	15.0	4.1	24.7
-	Across time points	1297	774	59.7	56.9	62.4	1910	1237	64.8	62.6	66.9	7.9	-0.9	15.9

10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine

Ctrl Group= Infants enrolled 6 weeks -6 months of age: infants primed with 2 or 3 doses and boosted with HBV vaccine

For each time point:

N = number of swabs cultured at the considered time point

n/% = number/percentage of swabs associated to the specified bacteria at the considered time point

Across time points:

N = number of swabs cultured after at least one time point

n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point

VE (%) = Vaccine efficacy estimated as 1-Relative Risk

95% CI = 95% confidence interval; LL = lower limit , UL = upper limit (conditional exact method)

Nasopharyngeal swabs at PRE(M0) were only collected in the Immuno subset

PRE(M0) = Prior to dose 1

PII(M3) = 1 month post-dose 2

PII(M8) = Prior to booster dose

PIII(M11) = 3 months post-booster dose

PIII(M18) = 10 months post-booster dose

**Secondary Outcome Variable(s):** Occurrence of *S. pneumoniae* (any) in nasopharyngeal swabs and vaccine efficacy for 10Pn Group versus Ctrl Group in children enrolled between 7 and 11 months of age (Total Vaccinated cohort for analysis of carriage)

Age	Timing	10Pn Group					Ctrl Group					Vaccine efficacy		
		N	n	%	95% CI		N	n	%	95% CI		%	95% CI	
					LL	UL				LL	UL		LL	UL
7-11 Months	PRE(M0)	236	69	29.2	23.5	35.5	198	58	29.3	23.1	36.2	0.2	-44.0	30.6
9-13 Months	PII(M2)	230	79	34.3	28.2	40.9	200	56	28.0	21.9	34.8	-22.7	-76.0	14.0
13-17 Months	PII(M6)	225	81	36.0	29.7	42.6	197	87	44.2	37.1	51.4	18.5	-11.6	40.5
16-20 Months	PIII(M9)	209	75	35.9	29.4	42.8	179	72	40.2	33.0	47.8	10.8	-25.0	36.3
23-27 Months	PIII(M16)	200	68	34.0	27.5	41.0	175	75	42.9	35.4	50.5	20.7	-11.6	43.7
-	Across time points	240	154	64.2	57.7	70.2	203	146	71.9	65.2	78.0	10.8	-12.7	29.3

10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine

Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine

For each time point:

N = number of swabs cultured at the considered time point

n/% = number/percentage of swabs associated to the specified bacteria at the considered time point

Across time points

N = number of swabs cultured after at least one time point

n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point

VE (%) = Vaccine efficacy estimated as 1-Relative Risk

95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)

PRE(M0) = Prior to dose 1

PII(M2) = 1 month post dose 2

PII(M6) = Pre booster dose

PIII(M9) = 3 months post booster dose

PIII(M16) = 10 months post booster dose

**Secondary Outcome Variable(s):** Occurrence of *S. pneumoniae* (any) in nasopharyngeal swabs and vaccine efficacy for 10Pn Group versus Ctrl Group in children enrolled between 12 and 18 months of age (Total Vaccinated cohort for analysis of carriage)

Age	Timing	10Pn Group					Ctrl Group					Vaccine efficacy		
		N	n	%	95% CI		N	n	%	95% CI		%	95% CI	
					LL	UL				LL	UL		LL	UL
12-18 Months	PRE(M0)	358	125	34.9	30.0	40.1	265	88	33.2	27.6	39.2	-5.1	-39.7	20.6
19-25 Months	PII(M7)	340	152	44.7	39.3	50.2	255	112	43.9	37.7	50.2	-1.8	-31.1	20.8

21-27 Months	PII(M9)	338	132	39.1	33.8	44.5	254	105	41.3	35.2	47.7	5.5	-23.3	27.4
-	Across time points	365	236	64.7	59.5	69.6	271	176	64.9	58.9	70.6	0.4	-21.7	18.4
<p>10Pn Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of 10Pn vaccine  Ctrl Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of HAV vaccine  For each time point:  N = number of swabs cultured at the considered time point  n/% = number/percentage of swabs associated to the specified bacteria at the considered time point  Across time points:  N = number of swabs cultured after at least one time point  n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point  VE (%) = Vaccine efficacy estimated as 1-Relative Risk  95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  PRE(M0) = Prior to dose 1  PII(M7) = 1 month post dose 2  PII(M9) = 3 months post dose 2</p>														
<b>Secondary Outcome Variable(s):</b> Occurrence of <i>S. pneumoniae</i> (10Pn vaccine serotypes) in nasopharyngeal swabs and vaccine efficacy for 10Pn3+1 Group versus Ctrl Group in infants enrolled between 6 weeks and 6 months of age (Total Vaccinated cohort for analysis of carriage)														
		10Pn3+1 Group					Ctrl Group					Vaccine efficacy		
		95% CI					95% CI					95% CI		
<b>Age</b>	<b>Timing</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>%</b>	<b>LL</b>	<b>UL</b>
3 Months	PRE(M0)	253	29	11.5	7.8	16.0	341	30	8.8	6.0	12.3	-30.3	-124.7	24.5
6 Months	PIII(M3)	1803	183	10.1	8.8	11.6	1897	237	12.5	11.0	14.1	18.8	1.1	33.4
11-12 Months	PIII(M8)	1784	229	12.8	11.3	14.5	1877	342	18.2	16.5	20.0	29.6	16.5	40.7
14-15 Months	PIV(M11)	1727	209	12.1	10.6	13.7	1814	364	20.1	18.2	22.0	39.7	28.3	49.4
18-22 Months	PIV(M18)	1686	169	10.0	8.6	11.6	1769	404	22.8	20.9	24.9	56.1	47.3	63.5
-	Across time points	1816	476	26.2	24.2	28.3	1910	802	42.0	39.8	44.2	37.6	30.0	44.4
<p>10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine  Ctrl Group = Infants enrolled 6 weeks -6 months of age: infants primed with 2 or 3 doses and boosted with HBV vaccine  For each time point:  N = number of swabs cultured at the considered time point  n/% = number/percentage of swabs associated to the specified bacteria at the considered time point  Across time points  N = number of swabs cultured after at least one time point  n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point  VE (%) = Vaccine efficacy estimated as 1-Relative Risk  95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  Nasopharyngeal swabs at PRE(M0) were only collected in the Immuno subset  PRE(M0) = Prior to dose 1  PIII(M3) = 1 month post dose 3  PIII(M8) = Pre booster dose  PIV(M11) = 3 months post-booster dose  PIV(M18) = 10 months post-booster dose</p>														
<b>Secondary Outcome Variable(s):</b> Occurrence of <i>S. pneumoniae</i> (10Pn vaccine serotypes) in nasopharyngeal swabs and vaccine efficacy for 10Pn2+1 Group versus Ctrl Group in infants enrolled between 6 weeks and 6 months of age (Total Vaccinated cohort for analysis of carriage)														
		10Pn2+1 Group					Ctrl Group					Vaccine efficacy		
		95% CI					95% CI					95% CI		
<b>Age</b>	<b>Timing</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>%</b>	<b>LL</b>	<b>UL</b>
3 Months	PRE(M0)	253	18	7.1	4.3	11.0	341	30	8.8	6.0	12.3	19.1	-49.9	57.5
6 Months	PII(M3)	1289	159	12.3	10.6	14.3	1897	237	12.5	11.0	14.1	1.3	-21.2	19.8
11-12 Months	PII(M8)	1269	178	14.0	12.2	16.1	1877	342	18.2	16.5	20.0	23.0	7.5	36.1
14-15 Months	PIII(M11)	1227	153	12.5	10.7	14.4	1814	364	20.1	18.2	22.0	37.9	24.7	48.9
18-22 Months	PIII(M18)	1216	176	14.5	12.5	16.6	1769	404	22.8	20.9	24.9	36.6	24.2	47.2
-	Across time points	1297	390	30.1	27.6	32.6	1910	802	42.0	39.8	44.2	28.4	19.1	36.7
<p>10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  Ctrl Group= Infants enrolled 6 weeks -6 months of age: infants primed with 2 or 3 doses and boosted with HBV vaccine</p>														

<p>For each time point:  N = number of swabs cultured at the considered time point  n/% = number/percentage of swabs associated to the specified bacteria at the considered time point  Across time points:  N = number of swabs cultured after at least one time point  n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point  VE (%) = Vaccine efficacy estimated as 1-Relative Risk  95% CI = 95% confidence interval; LL = lower limit , UL = upper limit (conditional exact method)  Nasopharyngeal swabs at PRE(M0) were only collected in the Immuno subset  PRE(M0) = Prior to dose 1  PII(M3) = 1 month post-dose 2  PII(M8) = Prior to booster dose  PIII(M11) = 3 months post-booster dose  PIII(M18) = 10 months post-booster dose</p>														
<p><b>Secondary Outcome Variable(s):</b> Occurrence of <i>S. pneumoniae</i> (10Pn vaccine serotypes) in nasopharyngeal swabs and vaccine efficacy for 10Pn Group versus Ctrl Group in children enrolled between 7 and 11 months of age (Total Vaccinated cohort for analysis of carriage)</p>														
		10Pn Group					Ctrl Group					Vaccine efficacy		
		95% CI					95% CI					95% CI		
Age	Timing	N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL
7-11 Months	PRE(M0)	236	44	18.6	13.9	24.2	198	34	17.2	12.2	23.2	-8.6	-75.2	32.2
9-13 Months	PII(M2)	230	43	18.7	13.9	24.3	200	35	17.5	12.5	23.5	-6.8	-72.0	33.2
13-17 Months	PII(M6)	225	43	19.1	14.2	24.9	197	55	27.9	21.8	34.7	31.5	-3.9	55.2
16-20 Months	PIII(M9)	209	34	16.3	11.5	22.0	179	47	26.3	20.0	33.3	38.0	1.6	61.4
23-27 Months	PIII(M16)	200	28	14.0	9.5	19.6	175	48	27.4	21.0	34.7	49.0	17.0	69.2
-	Across time points	240	96	40.0	33.8	46.5	203	109	53.7	46.6	60.7	25.5	1.1	44.0
<p>10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine  For each time point:  N = number of swabs cultured at the considered time point  n/% = number/percentage of swabs associated to the specified bacteria at the considered time point  Across time points:  N = number of swabs cultured after at least one time point  n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point  VE (%) = Vaccine efficacy estimated as 1-Relative Risk  95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  PRE(M0) = Prior to dose 1  PII(M2) = 1 month post dose 2  PII(M6) = Pre booster dose  PIII(M9) = 3 months post booster dose  PIII(M16) = 10 months post booster dose</p>														
<p><b>Secondary Outcome Variable(s):</b> Occurrence of <i>S. pneumoniae</i> (10Pn vaccine serotypes) in nasopharyngeal swabs and vaccine efficacy for 10Pn Group versus Ctrl Group in children enrolled between 12 and 18 months of age (Total vaccinated cohort for analysis of carriage)</p>														
		10Pn Group					Ctrl Group					Vaccine efficacy		
		95% CI					95% CI					95% CI		
Age	Timing	N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL
12-18 Months	PRE(M0)	358	70	19.6	15.6	24.0	265	57	21.5	16.7	27.0	9.1	-31.3	36.8
19-25 Months	PII(M7)	340	69	20.3	16.1	25.0	255	70	27.5	22.1	33.4	26.1	-4.6	47.8
21-27 Months	PII(M9)	338	64	18.9	14.9	23.5	254	53	20.9	16.0	26.4	9.3	-33.2	37.9
-	Across time points	365	129	35.3	30.4	40.5	271	117	43.2	37.2	49.3	18.1	-6.1	36.8
<p>10Pn Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of 10Pn vaccine  Ctrl Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of HAV vaccine  For each time point:  N = number of swabs cultured at the considered time point  n/% = number/percentage of swabs associated to the specified bacteria at the considered time point  Across time points:</p>														

<p>N = number of swabs cultured after at least one time point  n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point  VE (%) = Vaccine efficacy estimated as 1-Relative Risk  95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  PRE(M0) = Prior to dose 1  PII(M7) = 1 month post dose 2  PII(M9) = 3 months post dose 2</p>														
<p><b>Secondary Outcome Variable(s):</b> Cumulative acquisition of <i>S. pneumoniae</i> (any) detected in nasopharyngeal swabs and vaccine efficacy for 10Pn3+1 Group versus Ctrl Group in infants enrolled between 6 weeks and 6 months of age (Total Vaccinated cohort for analysis of carriage)</p>														
		10Pn3+1 Group					Ctrl Group					Vaccine efficacy		
		95% CI					95% CI					95% CI		
Age	Timing	N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL
11-12 Months	PIII(M8)	1780	331	18.6	16.8	20.5	1874	415	22.1	20.3	24.1	16.0	2.7	27.5
14-15 Months	PIV(M11)	1723	562	32.6	30.4	34.9	1807	692	38.3	36.0	40.6	14.8	4.7	23.9
18-22 Months	PIV(M18)	1675	818	48.8	46.4	51.3	1752	1023	58.4	56.0	60.7	16.4	8.2	23.8
<p>10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine  Ctrl Group = Infants enrolled 6 weeks -6 months of age: infants primed with 2 or 3 doses and boosted with HBV vaccine  N = number of subjects with swabs cultured and available bacteria up to the considered time point  n/% = number/percentage of subjects with new acquisition associated to the specified bacteria at the considered time point  VE (%) = Vaccine Efficacy estimated as 1-Relative Risk  95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  PIII(M8) = Prior to booster dose  PIV(M11) = 3 months post-booster dose  PIV(M18) = 10 months post-booster dose</p>														
<p><b>Secondary Outcome Variable(s):</b> Cumulative acquisition of <i>S. pneumoniae</i> (any) detected in nasopharyngeal swabs and vaccine efficacy for 10Pn2+1 Group versus Ctrl Group in infants enrolled between 6 weeks and 6 months of age (Total Vaccinated cohort for analysis of carriage)</p>														
		10Pn2+1 Group					Ctrl Group					Vaccine efficacy		
		95% CI					95% CI					95% CI		
Age	Timing	N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL
11-12 Months	PII(M8)	1269	246	19.4	17.2	21.7	1874	415	22.1	20.3	24.1	12.5	-2.7	25.5
14-15 Months	PIII(M11)	1222	400	32.7	30.1	35.4	1807	692	38.3	36.0	40.6	14.5	3.2	24.6
18-22 Months	PIII(M18)	1200	609	50.8	47.9	53.6	1752	1023	58.4	56.0	60.7	13.1	3.8	21.5
<p>10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  Ctrl Group = Infants enrolled 6 weeks -6 months of age: infants primed with 2 or 3 doses and boosted with HBV vaccine  N = number of subjects with swabs cultured and available bacteria up to the considered time point  n/% = number/percentage of subjects with new acquisition associated to the specified bacteria at the considered time point  VE (%) = Vaccine Efficacy estimated as 1-Relative Risk  95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  PII(M8) = Prior to booster dose  PIII(M11) = 3 months post-booster dose  PIII(M18) = 10 months post-booster dose</p>														
<p><b>Secondary Outcome Variable(s):</b> Cumulative acquisition of <i>S. pneumoniae</i> (any) detected in nasopharyngeal swabs and vaccine efficacy for 10Pn Group versus Ctrl Group in children enrolled between 7 and 11 months of age (Total Vaccinated cohort for analysis of carriage)</p>														
		10Pn Group					Ctrl Group					Vaccine efficacy		
		95% CI					95% CI					95% CI		
Age	Timing	N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL
9-13 Months	PII(M2)	226	36	15.9	11.4	21.4	195	30	15.4	10.6	21.2	-3.5	-74.0	38.0
13-17 Months	PII(M6)	221	78	35.3	29.0	42.0	192	83	43.2	36.1	50.6	18.4	-12.6	40.8
16-20 Months	PIII(M9)	205	95	46.3	39.4	53.4	175	100	57.1	49.5	64.6	18.9	-8.5	39.4
23-27 Months	PIII(M16)	194	117	60.3	53.1	67.2	170	116	68.2	60.7	75.2	11.6	-15.3	32.2
<p>10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine  N = number of subjects with swabs cultured and available bacteria up to the considered time point  n/% = number/percentage of subjects with new acquisition associated to the specified bacteria at the considered time point</p>														

<p>VE (%) = Vaccine Efficacy estimated as 1-Relative Risk  95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  PII(M2) = 1 month post dose 2  PII(M6) = Prior to booster dose  PIII(M9) = 3 months post booster dose  PIII(M16) = 10 months post booster dose</p>														
<p><b>Secondary Outcome Variable(s):</b> Cumulative acquisition of <i>S. pneumoniae</i> (any) detected in nasopharyngeal swabs and vaccine efficacy for 10Pn Group versus Ctrl Group in children enrolled between 12 and 18 months of age (Total Vaccinated cohort for analysis of carriage)</p>														
		<b>10Pn Group</b>					<b>Ctrl Group</b>					<b>Vaccine efficacy</b>		
		<b>95% CI</b>					<b>95% CI</b>					<b>95% CI</b>		
<b>Age</b>	<b>Timing</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>%</b>	<b>LL</b>	<b>UL</b>
19-25 Months	PII(M7)	333	130	39.0	33.8	44.5	249	94	37.8	31.7	44.1	-3.4	-36.3	21.3
21-27 Months	PII(M9)	330	166	50.3	44.8	55.8	246	133	54.1	47.6	60.4	7.0	-17.8	26.4
<p>10Pn Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of 10Pn vaccine  Ctrl Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of HAV vaccine  N = number of subjects with swabs cultured and available bacteria up to the considered time point  n/% = number/percentage of subjects with new acquisition associated to the specified bacteria at the considered time point  VE (%) = Vaccine Efficacy estimated as 1-Relative Risk  95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  PII(M7) = 1 month post dose 2  PII(M9) = 3 months post dose 2</p>														
<p><b>Secondary Outcome Variable(s):</b> Cumulative acquisition of <i>S. pneumoniae</i> (10Pn vaccine serotypes) detected in nasopharyngeal swabs and vaccine efficacy - 10Pn3+1 Group versus Ctrl Group in infants enrolled between 6 weeks and 6 months of age (Total Vaccinated cohort for analysis of carriage)</p>														
		<b>10Pn3+1 Group</b>					<b>Ctrl Group</b>					<b>Vaccine efficacy</b>		
		<b>95% CI</b>					<b>95% CI</b>					<b>95% CI</b>		
<b>Age</b>	<b>Timing</b>	<b>N</b>	<b>N</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>%</b>	<b>LL</b>	<b>UL</b>
11-12 Months	PII(M8)	1780	131	7.4	6.2	8.7	1874	223	11.9	10.5	13.5	38.2	22.9	50.5
14-15 Months	PIII(M11)	1723	221	12.8	11.3	14.5	1807	387	21.4	19.5	23.4	40.1	29.2	49.5
18-22 Months	PIII(M18)	1675	326	19.5	17.6	21.4	1752	626	35.7	33.5	38.0	45.5	37.6	52.5
<p>10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine  Ctrl Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 or 3 doses and boosted with HBV vaccine  For time point considered:  N = number of subjects with swabs cultured and available bacteria up to the considered time point  n/% = number/percentage of subjects with new acquisition associated to the specified bacteria at the considered time point  VE (%) = Vaccine Efficacy estimated as 1-Relative Risk  95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  PII(M8) = Prior to booster dose  PIII(M11) = 3 months post-booster dose  PIII(M18) = 10 months post-booster dose</p>														
<p><b>Secondary Outcome Variable(s):</b> Cumulative acquisition of <i>S. pneumoniae</i> (10Pn vaccine serotypes) detected in nasopharyngeal swabs and vaccine efficacy - 10Pn2+1 Group versus Ctrl Group in infants enrolled between 6 weeks and 6 months of age (Total Vaccinated cohort for analysis of carriage)</p>														
		<b>10Pn2+1 Group</b>					<b>Ctrl Group</b>					<b>Vaccine efficacy</b>		
		<b>95% CI</b>					<b>95% CI</b>					<b>95% CI</b>		
<b>Age</b>	<b>Timing</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>%</b>	<b>LL</b>	<b>UL</b>
11-12 Months	PII(M8)	1269	97	7.6	6.2	9.2	1874	223	11.9	10.5	13.5	35.8	18.1	49.9
14-15 Months	PIII(M11)	1222	156	12.8	10.9	14.8	1807	387	21.4	19.5	23.4	40.4	28.0	50.8
18-22 Months	PIII(M18)	1200	269	22.4	20.1	24.9	1752	626	35.7	33.5	38.0	37.3	27.5	45.8
<p>10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  Ctrl Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 or 3 doses and boosted with HBV vaccine  For time point considered:  N = number of subjects with swabs cultured and available bacteria up to the considered time point  n/% = number/percentage of subjects with new acquisition associated to the specified bacteria at the considered time point  VE (%) = Vaccine Efficacy estimated as 1-Relative Risk  95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)</p>														

PII(M8) = Prior to booster dose PIII(M11) = 3 months post-booster dose PIII(M18) = 10 months post-booster dose														
<b>Secondary Outcome Variable(s):</b> Cumulative acquisition of <i>S. pneumoniae</i> (10Pn vaccine serotypes) detected in nasopharyngeal swabs and vaccine efficacy - 10Pn Group versus Ctrl Group in children enrolled between 7 and 11 months of age (Total Vaccinated cohort for analysis of carriage)														
		<b>10Pn Group</b>					<b>Ctrl Group</b>					<b>Vaccine efficacy</b>		
		<b>95% CI</b>					<b>95% CI</b>					<b>95% CI</b>		
<b>Age</b>	<b>Timing</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>%</b>	<b>LL</b>	<b>UL</b>
9-13 Months	PII(M2)	226	18	8.0	4.8	12.3	195	17	8.7	5.2	13.6	8.6	-88.7	55.6
13-17 Months	PII(M6)	221	41	18.6	13.7	24.3	192	51	26.6	20.5	33.4	30.2	-7.5	54.9
16-20 Months	PIII(M9)	205	50	24.4	18.7	30.9	175	70	40.0	32.7	47.7	39.0	11.1	58.5
23-27 Months	PIII(M16)	194	62	32.0	25.5	39.0	170	88	51.8	44.0	59.5	38.3	13.6	56.1
10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine For time point considered: N = number of subjects with swabs cultured and available bacteria up to the considered time point n/% = number/percentage of subjects with new acquisition associated to the specified bacteria at the considered time point VE (%) = Vaccine Efficacy estimated as 1-Relative Risk 95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method) PII(M2) = 1 month post dose 2 PII(M6) = Prior to booster dose PIII(M9) = 3 months post booster dose PIII(M16) = 10 months post booster dose														
<b>Secondary Outcome Variable(s):</b> Cumulative acquisition of <i>S. pneumoniae</i> (10Pn vaccine serotypes) detected in nasopharyngeal swabs and vaccine efficacy – 10Pn Group versus Ctrl Group in children enrolled between 12 and 18 months of age (Total Vaccinated cohort for analysis of carriage)														
		<b>10Pn Group</b>					<b>Ctrl Group</b>					<b>Vaccine efficacy</b>		
		<b>95% CI</b>					<b>95% CI</b>					<b>95% CI</b>		
<b>Age</b>	<b>Timing</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>%</b>	<b>LL</b>	<b>UL</b>
19-25 Months	PII(M7)	333	53	15.9	12.2	20.3	249	55	22.1	17.1	27.8	27.9	-7.0	51.5
21-27 Months	PII(M9)	330	78	23.6	19.2	28.6	246	74	30.1	24.4	36.2	21.4	-9.5	43.6
10Pn Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of 10Pn-PD-DiT vaccine Ctrl Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of HAV vaccine For time point considered: N = number of subjects with swabs cultured and available bacteria up to the considered time point n/% = number/percentage of subjects with new acquisition associated to the specified bacteria at the considered time point VE (%) = Vaccine Efficacy estimated as 1-Relative Risk 95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method) PII(M7) = 1 month post dose 2 PII(M9) = 3 months post dose 2														
<b>Secondary Outcome Variable(s):</b> Occurrence of <i>H. influenzae</i> ** in nasopharyngeal swabs and vaccine efficacy for 10Pn3+1 Group versus Ctrl Group in infants enrolled between 6 weeks and 6 months of age (Total Vaccinated cohort for analysis of carriage)														
		<b>10Pn3+1 Group</b>					<b>Ctrl Group</b>					<b>Vaccine efficacy</b>		
		<b>95% CI</b>					<b>95% CI</b>					<b>95% CI</b>		
<b>Age</b>	<b>Timing</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>%</b>	<b>LL</b>	<b>UL</b>
3 Months	PRE(M0)	253	6	2.4	0.9	5.1	341	10	2.9	1.4	5.3	19.1	-145.6	75.8
6 Months	PIII(M3)	1803	57	3.2	2.4	4.1	1897	46	2.4	1.8	3.2	-30.4	-96.6	13.1
11-12 Months	PIII(M8)	1784	84	4.7	3.8	5.8	1877	87	4.6	3.7	5.7	-1.6	-38.7	25.6
14-15 Months	PIV(M11)	1726	121	7.0	5.9	8.3	1814	92	5.1	4.1	6.2	-38.2	-83.3	-4.5
18-22 Months	PIV(M18)	1684	211	12.5	11.0	14.2	1768	190	10.7	9.3	12.3	-16.6	-42.6	4.6
-	Across time points	1816	408	22.5	20.6	24.5	1910	372	19.5	17.7	21.3	-15.4	-33.1	0.0
10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine Ctrl Group= Infants enrolled 6 weeks -6 months of age: infants primed with 2 or 3 doses and boosted with HBV vaccine														

\*\*Data presented only include results from samples confirmed as positive for Hi/NTHi after differentiation from *H. haemolyticus* by PCR assay

For each time point:

N = number of swabs cultured at the considered time point

n/% = number/percentage of swabs associated to the specified bacteria at the considered time point

Across time points:

N = number of swabs cultured after at least one time point

n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point

VE (%) = Vaccine efficacy estimated as 1-Relative Risk

95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)

Nasopharyngeal swabs at PRE (M0) were only collected in the Immuno subset.

PRE(M0) = Prior to dose 1

PIII(M3) = 1 month post-dose 3

PIII(M8) = Prior to booster dose

PIV(M11) = 3 months post-booster dose

M18) = 10 months post-booster dose

**Secondary Outcome Variable(s):** Occurrence of *H. influenzae*\*\* in nasopharyngeal swabs and vaccine efficacy for 10Pn2+1 Group versus Ctrl Group in infants enrolled between 6 weeks and 6 months of age (Total Vaccinated cohort for analysis of carriage)

Age	Timing	10Pn2+1 Group					Ctrl Group					Vaccine efficacy		
		N	n	%	95% CI		N	n	%	95% CI		%	95% CI	
					LL	UL				LL	UL		LL	UL
3 Months	PRE(M0)	253	4	1.6	0.4	4.0	341	10	2.9	1.4	5.3	46.1	-86.9	87.7
6 Months	PII(M3)	1289	36	2.8	2.0	3.8	1897	46	2.4	1.8	3.2	-15.2	-82.1	27.7
11-12 Months	PII(M8)	1269	72	5.7	4.5	7.1	1877	87	4.6	3.7	5.7	-22.4	-69.2	11.7
14-15 Months	PIII(M11)	1227	84	6.8	5.5	8.4	1814	92	5.1	4.1	6.2	-35.0	-83.5	0.8
18-22 Months	PIII(M18)	1212	128	10.6	8.9	12.4	1768	190	10.7	9.3	12.3	1.7	-23.6	22.1
-	Across time points	1297	276	21.3	19.1	23.6	1910	372	19.5	17.7	21.3	-9.3	-28.0	6.8

10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine

Ctrl Group= Infants enrolled 6 weeks -6 months of age: infants primed with 2 or 3 doses and boosted with HBV vaccine

\*\*Data presented only include results from samples confirmed as positive for Hi/NTHi after differentiation from *H. haemolyticus* by PCR assay.

For each time point:

N = number of swabs cultured at the considered time point

n/% = number/percentage of swabs associated to the specified bacteria at the considered time point

Across time points:

N = number of swabs cultured after at least one time point

n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point

VE (%) = Vaccine efficacy estimated as 1-Relative Risk

95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)

Nasopharyngeal swabs at PRE(M0) were only collected in the Immuno subset

PRE(M0) = Prior to dose 1

PII(M3) = 1 month post-dose 2

PII(M8) = Pre booster dose

PIII(M11) = 3 months post-booster dose

PIII(M18) = 10 months post-booster dose

**Secondary Outcome Variable(s):** Occurrence of *H. influenzae*\*\* in nasopharyngeal swabs and vaccine efficacy for 10Pn Group versus Ctrl Group in children enrolled between 7 and 11 months of age (Total Vaccinated cohort for analysis of carriage)

Age	Timing	10Pn Group					Ctrl Group					Vaccine efficacy		
		N	n	%	95% CI		N	n	%	95% CI		%	95% CI	
					LL	UL				LL	UL		LL	UL
7-11 Months	PRE(M0)	236	6	2.5	0.9	5.5	198	8	4.0	1.8	7.8	37.1	-106.8	82.0
9-13 Months	PII(M2)	230	8	3.5	1.5	6.7	200	9	4.5	2.1	8.4	22.7	-125.7	74.1
13-17 Months	PII(M6)	225	22	9.8	6.2	14.4	197	14	7.1	3.9	11.6	-37.6	-190.8	32.7

16-20 Months	PIII(M9)	209	17	8.1	4.8	12.7	179	13	7.3	3.9	12.1	-12.0	-150.7	48.8
23-27 Months	PIII(M16)	200	21	10.5	6.6	15.6	175	15	8.6	4.9	13.7	-22.5	-155.4	39.8
-	Across time points	240	66	27.5	22.0	33.6	203	45	22.2	16.7	28.5	-24.1	-85.4	16.3

10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  
Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine  
\*\*Data presented only include results from samples confirmed as positive for Hi/NTHi after differentiation from *H. haemolyticus* by PCR assay.  
For each time point:  
N = number of swabs cultured at the considered time point  
n/% = number/percentage of swabs associated to the specified bacteria at the considered time point  
Across time points:  
N = number of swabs cultured after at least one time point  
n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point  
VE (%) = Vaccine efficacy estimated as 1-Relative Risk  
95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  
PRE(M0) = Prior to dose 1  
PII(M2) = 1 month post-Dose 2  
PII(M6) = Pre-booster dose  
PIII(M9) = 3 months post-booster dose  
PIII(M16) = 10 months post-booster dose

**Secondary Outcome Variable(s):** Occurrence of *H. influenzae*\*\* in nasopharyngeal swabs and vaccine efficacy for 10Pn Group versus Ctrl Group in children enrolled between 12 and 18 months of age (Total Vaccinated cohort for analysis of carriage)

		10Pn Group					Ctrl Group					Vaccine efficacy		
					95% CI					95% CI				
Age	Timing	N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL
12-18 Months	PRE(M0)	358	21	5.9	3.7	8.8	265	12	4.5	2.4	7.8	-29.5	-188.8	39.1
19-25 Months	PII(M7)	340	24	7.1	4.6	10.3	255	21	8.2	5.2	12.3	14.3	-61.9	54.3
21-27 Months	PII(M9)	338	27	8.0	5.3	11.4	254	29	11.4	7.8	16.0	30.0	-22.4	60.1
-	Across time points	365	60	16.4	12.8	20.6	271	54	19.9	15.3	25.2	17.5	-21.4	43.8

10Pn Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of 10Pn vaccine  
Ctrl Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of HAV vaccine  
\*\*Data presented only include results from samples confirmed as positive for Hi/NTHi after differentiation from *H. haemolyticus* by PCR assay  
For each time point:  
N = number of swabs cultured at the considered time point  
n/% = number/percentage of swabs associated to the specified bacteria at the considered time point  
Across time points:  
N = number of swabs cultured after at least one time point  
n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point  
VE (%) = Vaccine efficacy estimated as 1-Relative Risk  
95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  
PRE(M0) = Prior to dose 1  
PII(M7) = 1 month post-dose 2  
PII(M9) = 3 months post-dose 2

**Secondary Outcome Variable(s):** Cumulative acquisition of *H. influenzae*\*\* detected in nasopharyngeal swabs and vaccine efficacy for 10Pn3+1 Group versus Ctrl Group in infants enrolled between 6 weeks and 6 months of age (Total Vaccinated cohort for analysis of carriage)

		10Pn3+1 Group					Ctrl Group					Vaccine efficacy		
					95% CI					95% CI				
Age	Timing	N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL
11-12 Months	PIII(M8)	1780	77	4.3	3.4	5.4	1874	83	4.4	3.5	5.5	2.3	-34.8	29.3
14-15 Months	PIV(M11)	1722	176	10.2	8.8	11.7	1807	157	8.7	7.4	10.1	-17.6	-46.8	5.7
18-22 Months	PIV(M18)	1672	349	20.9	18.9	22.9	1751	313	17.9	16.1	19.8	-16.8	-36.5	0.0

10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine

Ctrl Group= Infants enrolled 6 weeks -6 months of age: infants primed with 2 or 3 doses and boosted with HBV vaccine  
 \*\* Data presented only include results from samples confirmed as positive for Hi/NTHi after differentiation from *H. haemolyticus* by PCR assay  
 N = number of subjects with swabs cultured and available bacteria up to the considered time point  
 n/% = number/percentage of subjects with new acquisition associated to the specified bacteria at the considered time point  
 VE (%) = Vaccine Effectiveness as 1-Relative Risk  
 95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  
 PIII(M8) = Prior to booster dose  
 PIV(M11) = 3 months post-booster dose  
 PIV(M18) = 10 months post-booster dose

**Secondary Outcome Variable(s):** Cumulative acquisition of *H. influenzae*\*\* detected in nasopharyngeal swabs and vaccine efficacy for 10Pn2+1 Group versus Ctrl Group in infants enrolled between 6 weeks and 6 months of age (Total Vaccinated cohort for analysis of carriage)

		10Pn2+1 Group					Ctrl Group					Vaccine efficacy		
		95% CI					95% CI					95% CI		
Age	Timing	N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL
11-12 Months	PII(M8)	1269	65	5.1	4.0	6.5	1874	83	4.4	3.5	5.5	-15.6	-62.0	17.7
14-15 Months	PIII(M11)	1222	139	11.4	9.6	13.3	1807	157	8.7	7.4	10.1	-30.9	-65.5	-3.4
18-22 Months	PIII(M18)	1196	240	20.1	17.8	22.5	1751	313	17.9	16.1	19.8	-12.3	-33.2	5.5

10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  
 Ctrl Group= Infants enrolled 6 weeks -6 months of age: infants primed with 2 or 3 doses and boosted with HBV vaccine  
 \*\*Data presented only include results from samples confirmed as positive for Hi/NTHi after differentiation from *H. haemolyticus* by PCR assay  
 Ctrl 6W-6M Group = pooling of the Ctrl3+1 6W-6M Group and Ctrl2+1 6W-6M Group  
 N = number of subjects with swabs cultured and available bacteria up to the considered time point  
 n/% = number/percentage of subjects with new acquisition associated to the specified bacteria at the considered time point  
 VE (%) = Vaccine Effectiveness as 1-Relative Risk  
 95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  
 PII(M8) = Prior to booster dose  
 PIII(M11) = 3 months post-booster dose  
 PIII(M18) = 10 months post-booster dose

**Secondary Outcome Variable(s):** Cumulative acquisition of *H. influenzae*\*\* detected in nasopharyngeal swabs and vaccine efficacy for 10Pn Group versus Ctrl Group in children enrolled between 7 and 11 months of age (Total Vaccinated cohort for analysis of carriage)

		10Pn Group					Ctrl Group					Vaccine efficacy		
		95% CI					95% CI					95% CI		
Age	Timing	N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL
9-13 Months	PII(M2)	226	8	3.5	1.5	6.9	195	9	4.6	2.1	8.6	23.3	-124.0	74.3
13-17 Months	PII(M6)	221	29	13.1	9.0	18.3	192	19	9.9	6.1	15.0	-32.6	-150.3	28.1
16-20 Months	PIII(M9)	205	37	18.0	13.0	24.0	175	28	16.0	10.9	22.3	-12.8	-91.4	32.8
23-27 Months	PIII(M16)	194	55	28.4	22.1	35.2	170	39	22.9	16.9	30.0	-23.6	-91.3	19.5

10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  
 Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine  
 \*\*Data presented only include results from samples confirmed as positive for Hi/NTHi after differentiation from *H. haemolyticus* by PCR assay  
 N = number of subjects with swabs cultured and available bacteria up to the considered time point  
 n/% = number/percentage of subjects with new acquisition associated to the specified bacteria at the considered time point  
 VE % = Vaccine Effectiveness as 1-Relative Risk  
 95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  
 PII(M2) = 1 month post dose 2  
 PII(M6) = Prior to booster dose  
 PIII(M9) = 3 months post booster dose  
 PIII(M16) = 10 months post booster dose

**Secondary Outcome Variable(s):** Cumulative acquisition of *H. influenzae*\*\* detected in nasopharyngeal swabs and vaccine efficacy for 10Pn Group versus Ctrl Group in children enrolled between 12 and 18 months of age (Total Vaccinated cohort for analysis of carriage)

		10Pn Group					Ctrl Group					Vaccine efficacy		
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					95% CI					95% CI		95% CI			
Age	Timing	N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL	
19-25 Months	PII(M7)	333	19	5.7	3.5	8.8	249	20	8.0	5.0	12.1	29.0	-40.2	64.1	
21-27 Months	PII(M9)	330	37	11.2	8.0	15.1	246	41	16.7	12.2	21.9	32.7	-7.6	58.1	
<p>10Pn Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of 10Pn vaccine  Ctrl Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of HAV vaccine  ** Data presented only include results from samples confirmed as positive for Hi/NTHi after differentiation from H. haemolyticus by PCR assay  N = number of subjects with swabs cultured and available bacteria up to the considered time point  n/% = number/percentage of subjects with new acquisition associated to the specified bacteria at the considered time point  VE % = Vaccine Effectiveness as 1-Relative Risk  95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  PII(M7) = 1 month post dose 2  PII(M9) = 3 months post dose 2</p>															
<b>Secondary Outcome Variable(s):</b> Occurrence of <i>Moraxella catarrhalis</i> in nasopharyngeal swabs and vaccine efficacy for 10Pn3+1 Group versus Ctrl Group in infants enrolled between 6 weeks and 6 months of age (Total Vaccinated cohort for analysis of carriage)															
		10Pn3+1 Group					Ctrl Group					Vaccine efficacy			
					95% CI					95% CI				95% CI	
Age	Timing	N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL	
3 Months	PRE(M0)	253	57	22.5	17.5	28.2	341	76	22.3	18.0	27.1	-1.1	-44.4	29.6	
6 Months	PIII(M3)	1803	459	25.5	23.5	27.5	1897	486	25.6	23.7	27.6	0.6	-13.1	12.7	
11-12 Months	PIII(M8)	1784	671	37.6	35.4	39.9	1877	733	39.1	36.8	41.3	3.7	-7.1	13.4	
14-15 Months	PIV(M11)	1727	612	35.4	33.2	37.7	1814	668	36.8	34.6	39.1	3.8	-7.5	13.9	
18-22 Months	PIV(M18)	1686	794	47.1	44.7	49.5	1769	780	44.1	41.8	46.4	-6.8	-18.1	3.4	
-	Across time points	1816	1403	77.3	75.3	79.2	1910	1470	77.0	75.0	78.8	-0.4	-8.1	6.8	
<p>10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine  Ctrl Group= Infants enrolled 6 weeks -6 months of age: infants primed with 2 or 3 doses and boosted with HBV vaccine  For each time point:  N = number of swabs cultured at the considered time point  n/% = number/percentage of swabs associated to the specified bacteria at the considered time point  Across time points:  N = number of swabs cultured after at least one time point  n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point  VE (%) = Vaccine efficacy estimated as 1-Relative Risk  95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  Nasopharyngeal swabs at PRE(M0) were only collected in the Immuno subset  PRE(M0) = Prior to dose 1  PIII(M3) = 1 month post dose 3  PIII(M8) = Pre booster dose  PIV(M11) = 3 months post-booster dose  PIV(M18) = 10 months post-booster dose</p>															
<b>Secondary Outcome Variable(s):</b> Occurrence of <i>Moraxella catarrhalis</i> in nasopharyngeal swabs and vaccine efficacy for 10Pn2+1 Group versus Ctrl Group in infants enrolled between 6 weeks and 6 months of age (Total Vaccinated cohort for analysis of carriage)															
		10Pn2+1 Group					Ctrl Group					Vaccine efficacy			
					95% CI					95% CI				95% CI	
Age	Timing	N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL	
3 Months	PRE(M0)	253	58	22.9	17.9	28.6	341	76	22.3	18.0	27.1	-2.9	-46.7	28.2	
6 Months	PII(M3)	1289	345	26.8	24.4	29.3	1897	486	25.6	23.7	27.6	-4.5	-20.2	9.3	
11-12 Months	PII(M8)	1269	493	38.8	36.2	41.6	1877	733	39.1	36.8	41.3	0.5	-11.7	11.4	
14-15 Months	PIII(M11)	1227	466	38.0	35.3	40.8	1814	668	36.8	34.6	39.1	-3.1	-16.3	8.6	
18-22 Months	PIII(M18)	1216	566	46.5	43.7	49.4	1769	780	44.1	41.8	46.4	-5.6	-17.8	5.4	
-	Across time points	1297	1014	78.2	75.8	80.4	1910	1470	77.0	75.0	78.8	-1.6	-10.1	6.3	

10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  
 Ctrl Group= Infants enrolled 6 weeks -6 months of age: infants primed with 2 or 3 doses and boosted with HBV vaccine  
 For each time point:

N = number of swabs cultured at the considered time point

n/% = number/percentage of swabs associated to the specified bacteria at the considered time point

Across time points:

N = number of swabs cultured after at least one time point

n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point

VE (%) = Vaccine efficacy estimated as 1-Relative Risk

95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)

Nasopharyngeal swabs at PRE(M0) were only collected in the Immuno subset

PRE(M0) = Prior to dose 1

PII(M3) = 1 month post dose 2

PII(M8) = Prior to booster dose

PIII(M11) = 3 months post-booster dose

PIII(M18) = 10 months post-booster dose

**Secondary Outcome Variable(s):** Occurrence of *Moraxella catarrhalis* in nasopharyngeal swabs and vaccine efficacy for 10Pn Group versus Ctrl Group in children enrolled between 7 and 11 months of age (Total Vaccinated cohort for analysis of carriage)

		10Pn Group					Ctrl Group					Vaccine efficacy		
					95% CI					95% CI				
Age	Timing	N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL
7-11 Months	PRE(M0)	236	69	29.2	23.5	35.5	198	59	29.8	23.5	36.7	1.9	-41.3	31.7
9-13 Months	PII(M2)	230	73	31.7	25.8	38.2	200	61	30.5	24.2	37.4	-4.1	-48.7	26.9
13-17 Months	PII(M6)	225	109	48.4	41.8	55.2	197	98	49.7	42.6	56.9	2.6	-29.3	26.6
16-20 Months	PIII(M9)	209	91	43.5	36.7	50.6	179	81	45.3	37.8	52.8	3.8	-31.5	29.5
23-27 Months	PIII(M16)	200	83	41.5	34.6	48.7	175	63	36.0	28.9	43.6	-15.3	-62.6	17.9
-	Across time points	240	202	84.2	78.9	88.5	203	167	82.3	76.3	87.3	-2.3	-26.4	17.1

10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine

Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine

For each time point:

N = number of swabs cultured at the considered time point

n/% = number/percentage of swabs associated to the specified bacteria at the considered time point

Across time points:

N = number of swabs cultured after at least one time point

n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point

VE (%) = Vaccine efficacy estimated as 1-Relative Risk

95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)

PRE(M0) = Prior to dose 1

PII(M2) = 1 month post dose 2

PII(M6) = Prior to booster dose

PIII(M9) = 3 months post booster dose

PIII(M16) = 10 months post booster dose

**Secondary Outcome Variable(s):** Occurrence of *Moraxella catarrhalis* in nasopharyngeal swabs and vaccine efficacy for 10Pn Group versus Ctrl Group in children enrolled between 12 and 18 months of age (Total Vaccinated cohort for analysis of carriage)

		10Pn Group					Ctrl Group					Vaccine efficacy		
					95% CI					95% CI				
Age	Timing	N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL
12-18 Months	PRE(M0)	358	143	39.9	34.8	45.2	265	72	27.2	21.9	33.0	-47.0	-98.0	-10.0
19-25 Months	PII(M7)	340	167	49.1	43.7	54.6	255	129	50.6	44.3	56.9	2.9	-23.1	23.3
21-27 Months	PII(M9)	338	143	42.3	37.0	47.8	254	120	47.2	41.0	53.6	10.4	-15.1	30.2
-	Across time points	365	263	72.1	67.1	76.6	271	198	73.1	67.4	78.3	1.4	-19.2	18.3

10Pn Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of 10Pn vaccine

Ctrl Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of HAV vaccine

<p>For each time point:  N = number of swabs cultured at the considered time point  n/% = number/percentage of swabs associated to the specified bacteria at the considered time point  Across time points:  N = number of swabs cultured after at least one time point  n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point  VE (%) = Vaccine efficacy estimated as 1-Relative Risk  95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  PRE(M0) = Prior to dose 1  PII(M7) = 1 month post dose 2  PII(M9) = 3 months post dose 2</p>														
<p><b>Secondary Outcome Variable(s):</b> Occurrence of Group A <i>Streptococcus</i> in nasopharyngeal swabs and vaccine efficacy for 10Pn3+1 Group versus Ctrl Group in infants enrolled between 6 weeks and 6 months of age (Total Vaccinated cohort for analysis of carriage)</p>														
		10Pn3+1 Group					Ctrl Group					Vaccine efficacy		
		95% CI					95% CI					95% CI		
Age	Timing	N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL
3 Months	PRE(M0)	253	0	0.0	0.0	1.4	341	1	0.3	0.0	1.6	100	-5156.5	100
6 Months	PIII(M3)	1803	10	0.6	0.3	1.0	1897	8	0.4	0.2	0.8	-31.5	-283.5	53.3
11-12 Months	PIII(M8)	1784	9	0.5	0.2	1.0	1877	5	0.3	0.1	0.6	-89.4	-619.4	43.0
14-15 Months	PIV(M11)	1727	4	0.2	0.1	0.6	1814	10	0.6	0.3	1.0	58.0	-45.7	90.4
18-22 Months	PIV(M18)	1686	5	0.3	0.1	0.7	1769	7	0.4	0.2	0.8	25.1	-174.3	81.2
-	Across time points	1816	26	1.4	0.9	2.1	1910	27	1.4	0.9	2.1	-1.3	-80.3	43.2
<p>10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine  Ctrl Group = Infants enrolled 6 weeks -6 months of age: infants primed with 2 or 3 doses and boosted with HBV vaccine  For each time point:  N = number of swabs cultured at the considered time point  n/% = number/percentage of swabs associated to the specified bacteria at the considered time point  Across time points:  N = number of swabs cultured after at least one time point  n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point  VE (%) = Vaccine efficacy estimated as 1-Relative Risk  95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  Nasopharyngeal swabs at PRE(M0) were only collected in the Immuno subset  PRE(M0) = Prior to dose 1  PIII(M3) = 1 month post dose 3  PIII(M8) = Pre booster dose  PIV(M11) = 3 months post-booster dose  PIV(M18) = 10 months post-booster dose</p>														
<p><b>Secondary Outcome Variable(s):</b> Occurrence of Group A <i>Streptococcus</i> in nasopharyngeal swabs and vaccine efficacy for 10Pn2+1 Group versus Ctrl Group in infants enrolled between 6 weeks and 6 months of age (Total Vaccinated cohort for analysis of carriage)</p>														
		10Pn2+1 Group					Ctrl Group					Vaccine efficacy		
		95% CI					95% CI					95% CI		
Age	Timing	N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL
3 Months	PRE(M0)	253	0	0.0	0.0	1.4	341	1	0.3	0.0	1.6	100	-5156.5	100
6 Months	PII(M3)	1289	5	0.4	0.1	0.9	1897	8	0.4	0.2	0.8	8.0	-218.9	76.3
11-12 Months	PII(M8)	1269	8	0.6	0.3	1.2	1877	5	0.3	0.1	0.6	-136.7	-819.4	31.7
14-15 Months	PIII(M11)	1227	5	0.4	0.1	0.9	1814	10	0.6	0.3	1.0	26.1	-137.4	80.2
18-22 Months	PIII(M18)	1216	5	0.4	0.1	1.0	1769	7	0.4	0.2	0.8	-3.9	-280.3	74.0
-	Across time points	1297	23	1.8	1.1	2.6	1910	27	1.4	0.9	2.1	-25.4	-127.2	31.3
<p>10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  Ctrl Group= Infants enrolled 6 weeks -6 months of age: infants primed with 2 or 3 doses and boosted with HBV vaccine  For each time point:  N = number of swabs cultured at the considered time point</p>														

n/% = number/percentage of swabs associated to the specified bacteria at the considered time point  
 Across time points:  
 N = number of swabs cultured after at least one time point  
 n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point  
 VE (%) = Vaccine efficacy estimated as 1-Relative Risk  
 95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  
 Nasopharyngeal swabs at PRE(M0) were only collected in the Immuno subset  
 PRE(M0) = Prior to dose 1  
 PII(M3) = 1 month post dose 2  
 PII(M8) = Prior to booster dose  
 PIII(M11) = 3 months post-booster dose  
 PIII(M18) = 10 months post-booster dose

**Secondary Outcome Variable(s):** Occurrence of Group A *Streptococcus* in nasopharyngeal swabs and vaccine efficacy for 10Pn Group versus Ctrl Group in children enrolled between 7 and 11 months of age (Total Vaccinated cohort for analysis of carriage)

		10Pn Group					Ctrl Group					Vaccine efficacy		
		95% CI					95% CI					95% CI		
Age	Timing	N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL
7-11 Months	PRE(M0)	236	1	0.4	0.0	2.3	198	1	0.5	0.0	2.8	16.1	-6485.8	98.9
9-13 Months	PII(M2)	230	0	0.0	0.0	1.6	200	3	1.5	0.3	4.3	100	-110.4	100
13-17 Months	PII(M6)	225	0	0.0	0.0	1.6	197	1	0.5	0.0	2.8	100	-3314.7	100
16-20 Months	PIII(M9)	209	0	0.0	0.0	1.7	179	2	1.1	0.1	4.0	100	-356.0	100
23-27 Months	PIII(M16)	200	2	1.0	0.1	3.6	175	1	0.6	0.0	3.1	-75.0	-10224.5	90.9
-	Across time points	240	3	1.3	0.3	3.6	203	6	3.0	1.1	6.3	57.7	-98.0	93.2

10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  
 Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine  
 For each time point:

N = number of swabs cultured at the considered time point  
 n/% = number/percentage of swabs associated to the specified bacteria at the considered time point  
 Across time points:  
 N = number of swabs cultured after at least one time point  
 n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point  
 VE (%) = Vaccine efficacy estimated as 1-Relative Risk  
 95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  
 PRE(M0) = Prior to dose 1  
 PII(M2) = 1 month post dose 2  
 PII(M6) = Prior to booster dose  
 PIII(M9) = 3 months post booster dose  
 PIII(M16) = 10 months post booster dose

**Secondary Outcome Variable(s):** Occurrence of Group A *Streptococcus* in nasopharyngeal swabs and vaccine efficacy for 10Pn Group versus Ctrl Group in children enrolled between 12 and 18 months of age (Total Vaccinated cohort for analysis of carriage)

		10Pn Group					Ctrl Group					Vaccine efficacy		
		95% CI					95% CI					95% CI		
Age	Timing	N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL
12-18 Months	PRE(M0)	358	3	0.8	0.2	2.4	265	0	0.0	0.0	1.4			69.4
19-25 Months	PII(M7)	340	2	0.6	0.1	2.1	255	0	0.0	0.0	1.4			85.9
21-27 Months	PII(M9)	338	0	0.0	0.0	1.1	254	2	0.8	0.1	2.8	100	-300.1	100
-	Across time points	365	5	1.4	0.4	3.2	271	2	0.7	0.1	2.6	-85.6	-1849.2	69.6

10Pn Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of 10Pn vaccine  
 Ctrl Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of HAV vaccine  
 For each time point:

N = number of swabs cultured at the considered time point  
 n/% = number/percentage of swabs associated to the specified bacteria at the considered time point  
 Across time points:

N = number of swabs cultured after at least one time point  
n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point  
VE (%) = Vaccine efficacy estimated as 1-Relative Risk  
95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  
PRE(M0) = Prior to dose 1  
PII(M7) = 1 month post dose 2  
PII(M9) = 3 months postdose 2  
I = negative infinity

**Secondary Outcome Variable(s):** Occurrence of *Staphylococcus aureus* in nasopharyngeal swabs and vaccine efficacy for 10Pn3+1 Group versus Ctrl Group in infants enrolled between 6 weeks and 6 months of age (Total Vaccinated cohort for analysis of carriage)

		10Pn3+1 Group					Ctrl Group					Vaccine efficacy		
		95% CI					95% CI					95% CI		
Age	Timing	N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL
3 Months	PRE(M0)	253	111	43.9	37.7	50.2	341	144	42.2	36.9	47.7	-3.9	-34.0	19.6
6 Months	PIII(M3)	1803	762	42.3	40.0	44.6	1897	796	42.0	39.7	44.2	-0.7	-11.4	8.9
11-12 Months	PIII(M8)	1784	468	26.2	24.2	28.3	1877	462	24.6	22.7	26.6	-6.6	-21.5	6.5
14-15 Months	PIV(M11)	1727	387	22.4	20.5	24.5	1814	373	20.6	18.7	22.5	-9.0	-26.0	5.7
18-22 Months	PIV(M18)	1686	255	15.1	13.4	16.9	1769	266	15.0	13.4	16.8	-0.6	-19.9	15.6
-	Across time points	1816	1190	65.5	63.3	67.7	1910	1222	64.0	61.8	66.1	-2.4	-11.0	5.5

10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine  
Ctrl Group= Infants enrolled 6 weeks -6 months of age: infants primed with 2 or 3 doses and boosted with HBV vaccine  
For each time point:

N = number of swabs cultured at the considered time point  
n/% = number/percentage of swabs associated to the specified bacteria at the considered time point  
Across time points:  
N = number of swabs cultured after at least one time point  
n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point

VE (%) = Vaccine efficacy estimated as 1-Relative Risk  
95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)

Nasopharyngeal swabs at PRE(M0) were only collected in the Immuno subset

PRE(M0) = Prior to dose 1  
PIII(M3) = 1 month post dose 3  
PIII(M8) = Prior to booster dose  
PIV(M11) = 3 Months post-booster dose  
PIV(M18) = 10 months post-booster dose

**Secondary Outcome Variable(s):** Occurrence of *Staphylococcus aureus* in nasopharyngeal swabs and vaccine efficacy for 10Pn2+1 Group versus Ctrl Group in infants enrolled between 6 weeks and 6 months of age (Total Vaccinated cohort for analysis of carriage)

		10Pn2+1 Group					Ctrl Group					Vaccine efficacy		
		95% CI					95% CI					95% CI		
Age	Timing	N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL
3 Months	PRE(M0)	253	108	42.7	36.5	49.0	341	144	42.2	36.9	47.7	-1.1	-30.6	22.0
6 Months	PII(M3)	1289	515	40.0	37.3	42.7	1897	796	42.0	39.7	44.2	4.8	-6.5	14.9
11-12 Months	PII(M8)	1269	306	24.1	21.8	26.6	1877	462	24.6	22.7	26.6	2.0	-13.4	15.5
14-15 Months	PIII(M11)	1227	282	23.0	20.7	25.4	1814	373	20.6	18.7	22.5	-11.8	-30.8	4.6
18-22 Months	PIII(M18)	1216	182	15.0	13.0	17.1	1769	266	15.0	13.4	16.8	0.5	-20.6	18.0
-	Across time points	1297	838	64.6	61.9	67.2	1910	1222	64.0	61.8	66.1	-1.0	-10.4	7.6

10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  
Ctrl Group= Infants enrolled 6 weeks -6 months of age: infants primed with 2 or 3 doses and boosted with HBV vaccine  
For each time point:

N = number of swabs cultured at the considered time point  
n/% = number/percentage of swabs associated to the specified bacteria at the considered time point  
Across time points:

N = number of swabs cultured after at least one time point  
n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point  
VE (%) = Vaccine efficacy estimated as 1-Relative Risk  
95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  
Nasopharyngeal swabs at PRE(M0) were only collected in the Immuno subset  
PRE(M0) = Prior to dose 1  
PII(M3) = 1 month post dose 2  
PII(M8) = Prior to booster dose  
PIII(M11) = 3 months post-booster dose  
PIII(M18) = 10 Months post-booster dose

**Secondary Outcome Variable(s):** Occurrence of *Staphylococcus aureus* in nasopharyngeal swabs and vaccine efficacy for 10Pn Group versus Ctrl Group in children enrolled between 7 and 11 months of age (Total Vaccinated cohort for analysis of carriage)

Age	Timing	10Pn Group					Ctrl Group					Vaccine efficacy		
		N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL
7-11 Months	PRE(M0)	236	60	25.4	20.0	31.5	198	53	26.8	20.7	33.5	5.0	-40.1	35.5
9-13 Months	PII(M2)	230	53	23.0	17.8	29.0	200	63	31.5	25.1	38.4	26.8	-7.1	50.2
13-17 Months	PII(M6)	225	32	14.2	9.9	19.5	197	26	13.2	8.8	18.7	-7.8	-88.3	37.8
16-20 Months	PIII(M9)	209	34	16.3	11.5	22.0	179	31	17.3	12.1	23.7	6.1	-58.0	44.0
23-27 Months	PIII(M16)	200	30	15.0	10.4	20.7	175	36	20.6	14.8	27.3	27.1	-21.8	56.6
-	Across time points	240	132	55.0	48.5	61.4	203	132	65.0	58.0	71.6	15.4	-8.5	34.1

10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine

Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine

For each time point:

N = number of swabs cultured at the considered time point

n/% = number/percentage of swabs associated to the specified bacteria at the considered time point

Across time points:

N = number of swabs cultured after at least one time point

n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point

VE (%) = Vaccine efficacy estimated as 1-Relative Risk

95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)

PRE(M0) = Prior to dose 1

PII(M2) = 1 month post dose 2

PII(M6) = Prior to booster dose

PIII(M9) = 3 months post booster dose

PIII(M16) = 10 months post booster dose

**Secondary Outcome Variable(s):** Occurrence of *Staphylococcus aureus* in nasopharyngeal swabs and vaccine efficacy for 10Pn Group versus Ctrl Group in children enrolled between 12 and 18 months of age (Total Vaccinated cohort for analysis of carriage)

Age	Timing	10Pn Group					Ctrl Group					Vaccine efficacy		
		N	n	%	LL	UL	N	n	%	LL	UL	%	LL	UL
12-18 Months	PRE(M0)	358	45	12.6	9.3	16.5	265	38	14.3	10.4	19.1	12.3	-38.7	44.3
19-25 Months	PII(M7)	340	47	13.8	10.3	18.0	255	41	16.1	11.8	21.2	14.0	-34.0	44.7
21-27 Months	PII(M9)	338	39	11.5	8.3	15.4	254	40	15.7	11.5	20.8	26.7	-16.8	54.1
-	Across time points	365	104	28.5	23.9	33.4	271	96	35.4	29.7	41.4	19.6	-7.3	39.6

10Pn Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of 10Pn vaccine

Ctrl Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of HAV vaccine

For each time point:

N = number of swabs cultured at the considered time point

n/% = number/percentage of swabs associated to the specified bacteria at the considered time point

Across time points

N = number of swabs cultured after at least one time point

n/% = number/percentage of subjects with swabs associated to the specified bacteria after at least one time point

VE (%) = Vaccine efficacy estimated as 1-Relative Risk  
95% CI = 95% confidence interval; LL = lower limit, UL = upper limit (conditional exact method)  
PRE(M0) = Prior to dose 1  
PII(M7) = 1 month post dose 2  
PII(M9) = 3 Months post dose 2

**Secondary Outcome Variable(s):** Seropositivity rates and GMCs for anti-ANTI-1, anti-ANTI-4, anti-ANTI-5, anti-ANTI-6B, anti-ANTI-7F, anti-ANTI-9V, anti-ANTI-14, anti-ANTI-18C, anti-ANTI-19F and anti-ANTI-23F antibodies (22F-inhibition ELISA) (ATP cohort for immunogenicity)

Antibody	Group	Timing	N	≥ 0.05 µg/mL				≥ 0.2 µg/mL				GMC (µg/mL)		
				n	%	95% CI		n	%	95% CI		value	95% CI	
						LL	UL			LL	UL		LL	UL
ANTI-1	10Pn3+1	PIII(M3)	208	208	100	98.2	100	208	100	98.2	100	1.86	1.68	2.05
		PIII(M8)	202	202	100	98.2	100	181	89.6	84.5	93.4	0.54	0.48	0.61
		PIV(M9)	189	189	100	98.1	100	189	100	98.1	100	2.13	1.88	2.41
		PIV(M18)	185	183	98.9	96.1	99.9	162	87.6	81.9	92.0	0.50	0.44	0.57
	Ctrl3+1	PIII(M3)	121	15	12.4	7.1	19.6	6	5.0	1.8	10.5	0.03	0.03	0.04
		PIII(M8)	122	16	13.1	7.7	20.4	3	2.5	0.5	7.0	0.03	0.03	0.03
		PIV(M9)	119	27	22.7	15.5	31.3	2	1.7	0.2	5.9	0.03	0.03	0.04
		PIV(M18)	113	50	44.2	34.9	53.9	5	4.4	1.5	10.0	0.04	0.04	0.05
	10Pn2+1	PII(M3)	205	205	100	98.2	100	201	98.0	95.1	99.5	1.37	1.25	1.52
		PII(M8)	209	209	100	98.3	100	169	80.9	74.9	86.0	0.42	0.37	0.47
		PIII(M9)	193	193	100	98.1	100	193	100	98.1	100	1.91	1.72	2.12
		PIII(M18)	189	188	99.5	97.1	100	145	76.7	70.0	82.5	0.36	0.32	0.40
	Ctrl2+1	PII(M3)	142	10	7.0	3.4	12.6	2	1.4	0.2	5.0	0.03	0.03	0.03
		PII(M8)	132	24	18.2	12.0	25.8	5	3.8	1.2	8.6	0.03	0.03	0.04
		PIII(M9)	127	37	29.1	21.4	37.9	4	3.1	0.9	7.9	0.04	0.03	0.04
		PIII(M18)	122	55	45.1	36.1	54.3	8	6.6	2.9	12.5	0.05	0.04	0.06
ANTI-4	10Pn3+1	PIII(M3)	208	208	100	98.2	100	207	99.5	97.4	100	2.47	2.23	2.75
		PIII(M8)	203	203	100	98.2	100	201	99.0	96.5	99.9	0.97	0.86	1.09
		PIV(M9)	189	189	100	98.1	100	189	100	98.1	100	3.61	3.20	4.06
		PIV(M18)	185	184	99.5	97.0	100	168	90.8	85.7	94.6	0.62	0.54	0.71
	Ctrl3+1	PIII(M3)	122	5	4.1	1.3	9.3	0	0.0	0.0	3.0	0.03	0.03	0.03
		PIII(M8)	122	8	6.6	2.9	12.5	2	1.6	0.2	5.8	0.03	0.03	0.03
		PIV(M9)	116	10	8.6	4.2	15.3	3	2.6	0.5	7.4	0.03	0.03	0.03
		PIV(M18)	113	12	10.6	5.6	17.8	4	3.5	1.0	8.8	0.03	0.03	0.03
	10Pn2+1	PII(M3)	204	204	100	98.2	100	202	99.0	96.5	99.9	1.87	1.68	2.07
		PII(M8)	209	209	100	98.3	100	199	95.2	91.4	97.7	0.72	0.64	0.81
		PIII(M9)	193	193	100	98.1	100	193	100	98.1	100	3.16	2.84	3.52
		PIII(M18)	189	189	100	98.1	100	170	89.9	84.7	93.8	0.59	0.52	0.67
	Ctrl2+1	PII(M3)	141	13	9.2	5.0	15.3	3	2.1	0.4	6.1	0.03	0.03	0.03
		PII(M8)	134	16	11.9	7.0	18.7	3	2.2	0.5	6.4	0.03	0.03	0.03
		PIII(M9)	125	23	18.4	12.0	26.3	5	4.0	1.3	9.1	0.03	0.03	0.04
		PIII(M18)	122	16	13.1	7.7	20.4	3	2.5	0.5	7.0	0.03	0.03	0.04
ANTI-5	10Pn3+1	PIII(M3)	208	208	100	98.2	100	208	100	98.2	100	2.73	2.47	3.01
		PIII(M8)	201	201	100	98.2	100	197	98.0	95.0	99.5	1.07	0.95	1.19
		PIV(M9)	189	188	99.5	97.1	100	188	99.5	97.1	100	3.27	2.87	3.73
		PIV(M18)	185	185	100	98.0	100	176	95.1	91.0	97.8	0.85	0.75	0.97
	Ctrl3+1	PIII(M3)	121	24	19.8	13.1	28.1	2	1.7	0.2	5.8	0.03	0.03	0.03
		PIII(M8)	123	49	39.8	31.1	49.1	8	6.5	2.8	12.4	0.04	0.04	0.05
		PIV(M9)	120	62	51.7	42.4	60.9	8	6.7	2.9	12.7	0.05	0.04	0.06
		PIV(M18)	113	90	79.6	71.0	86.6	25	22.1	14.9	30.9	0.10	0.08	0.13
	10Pn2+1	PII(M3)	204	204	100	98.2	100	201	98.5	95.8	99.7	1.97	1.76	2.19
		PII(M8)	209	208	99.5	97.4	100	198	94.7	90.8	97.3	0.71	0.63	0.80
		PIII(M9)	193	193	100	98.1	100	193	100	98.1	100	2.82	2.52	3.15
		PIII(M18)	189	189	100	98.1	100	182	96.3	92.5	98.5	0.83	0.73	0.94
	Ctrl2+1	PII(M3)	139	33	23.7	16.9	31.7	4	2.9	0.8	7.2	0.03	0.03	0.04

		PII(M8)	133	52	39.1	30.8	47.9	7	5.3	2.1	10.5	0.04	0.04	0.05
		PIII(M9)	128	78	60.9	51.9	69.4	16	12.5	7.3	19.5	0.06	0.05	0.08
		PIII(M18)	122	93	76.2	67.7	83.5	19	15.6	9.6	23.2	0.09	0.08	0.11
ANTI-6B	10Pn3+1	PIII(M3)	208	193	92.8	88.4	95.9	165	79.3	73.2	84.6	0.51	0.43	0.62
		PIII(M8)	203	194	95.6	91.8	98.0	182	89.7	84.6	93.5	0.58	0.50	0.67
		PIV(M9)	189	184	97.4	93.9	99.1	179	94.7	90.5	97.4	1.43	1.22	1.68
		PIV(M18)	185	181	97.8	94.6	99.4	162	87.6	81.9	92.0	0.60	0.50	0.72
	Ctrl3+1	PIII(M3)	122	14	11.5	6.4	18.5	3	2.5	0.5	7.0	0.03	0.03	0.03
		PIII(M8)	123	11	8.9	4.5	15.4	1	0.8	0.0	4.4	0.03	0.03	0.03
		PIV(M9)	120	20	16.7	10.5	24.6	1	0.8	0.0	4.6	0.03	0.03	0.03
		PIV(M18)	113	42	37.2	28.3	46.8	7	6.2	2.5	12.3	0.04	0.04	0.05
	10Pn2+1	PII(M3)	205	192	93.7	89.4	96.6	136	66.3	59.4	72.8	0.32	0.27	0.37
		PII(M8)	209	201	96.2	92.6	98.3	173	82.8	77.0	87.6	0.42	0.36	0.48
		PIII(M9)	193	190	98.4	95.5	99.7	187	96.9	93.4	98.9	1.43	1.25	1.65
		PIII(M18)	189	187	98.9	96.2	99.9	158	83.6	77.5	88.6	0.58	0.48	0.70
	Ctrl2+1	PII(M3)	142	16	11.3	6.6	17.7	2	1.4	0.2	5.0	0.03	0.03	0.03
		PII(M8)	133	14	10.5	5.9	17.0	3	2.3	0.5	6.5	0.03	0.03	0.03
		PIII(M9)	127	23	18.1	11.8	25.9	5	3.9	1.3	8.9	0.03	0.03	0.04
		PIII(M18)	124	57	46.0	37.0	55.1	17	13.7	8.2	21.0	0.06	0.05	0.07
ANTI-7F	10Pn3+1	PIII(M3)	209	209	100	98.3	100	209	100	98.3	100	2.90	2.62	3.20
		PIII(M8)	202	202	100	98.2	100	202	100	98.2	100	1.56	1.40	1.74
		PIV(M9)	189	189	100	98.1	100	189	100	98.1	100	4.25	3.80	4.75
		PIV(M18)	185	185	100	98.0	100	184	99.5	97.0	100	1.19	1.07	1.32
	Ctrl3+1	PIII(M3)	120	23	19.2	12.6	27.4	5	4.2	1.4	9.5	0.03	0.03	0.04
		PIII(M8)	122	28	23.0	15.8	31.4	8	6.6	2.9	12.5	0.04	0.03	0.04
		PIV(M9)	120	29	24.2	16.8	32.8	8	6.7	2.9	12.7	0.04	0.03	0.04
		PIV(M18)	113	36	31.9	23.4	41.3	12	10.6	5.6	17.8	0.05	0.04	0.05
	10Pn2+1	PII(M3)	205	204	99.5	97.3	100	202	98.5	95.8	99.7	1.76	1.57	1.97
		PII(M8)	209	209	100	98.3	100	204	97.6	94.5	99.2	0.96	0.86	1.07
		PIII(M9)	193	193	100	98.1	100	193	100	98.1	100	3.62	3.28	4.01
		PIII(M18)	189	189	100	98.1	100	189	100	98.1	100	1.27	1.15	1.41
	Ctrl2+1	PII(M3)	140	27	19.3	13.1	26.8	5	3.6	1.2	8.1	0.03	0.03	0.04
		PII(M8)	132	21	15.9	10.1	23.3	7	5.3	2.2	10.6	0.03	0.03	0.04
		PIII(M9)	129	27	20.9	14.3	29.0	6	4.7	1.7	9.8	0.03	0.03	0.04
		PIII(M18)	122	40	32.8	24.6	41.9	10	8.2	4.0	14.6	0.04	0.04	0.05
ANTI-9V	10Pn3+1	PIII(M3)	208	208	100	98.2	100	207	99.5	97.4	100	2.23	2.00	2.48
		PIII(M8)	203	203	100	98.2	100	201	99.0	96.5	99.9	1.35	1.20	1.51
		PIV(M9)	188	188	100	98.1	100	188	100	98.1	100	3.98	3.56	4.46
		PIV(M18)	185	185	100	98.0	100	182	98.4	95.3	99.7	1.32	1.16	1.50
	Ctrl3+1	PIII(M3)	122	9	7.4	3.4	13.5	2	1.6	0.2	5.8	0.03	0.03	0.03
		PIII(M8)	121	6	5.0	1.8	10.5	1	0.8	0.0	4.5	0.03	0.03	0.03
		PIV(M9)	119	10	8.4	4.1	14.9	1	0.8	0.0	4.6	0.03	0.03	0.03
		PIV(M18)	113	22	19.5	12.6	28.0	5	4.4	1.5	10.0	0.03	0.03	0.04
	10Pn2+1	PII(M3)	205	204	99.5	97.3	100	201	98.0	95.1	99.5	1.38	1.24	1.54
		PII(M8)	209	209	100	98.3	100	203	97.1	93.9	98.9	0.87	0.77	0.97
		PIII(M9)	193	193	100	98.1	100	193	100	98.1	100	3.88	3.47	4.33
		PIII(M18)	189	189	100	98.1	100	185	97.9	94.7	99.4	0.92	0.82	1.03
	Ctrl2+1	PII(M3)	140	14	10.0	5.6	16.2	3	2.1	0.4	6.1	0.03	0.03	0.03
		PII(M8)	133	8	6.0	2.6	11.5	1	0.8	0.0	4.1	0.03	0.03	0.03
		PIII(M9)	127	16	12.6	7.4	19.7	3	2.4	0.5	6.7	0.03	0.03	0.03
		PIII(M18)	122	24	19.7	13.0	27.8	8	6.6	2.9	12.5	0.04	0.03	0.04
ANTI-14	10Pn3+1	PIII(M3)	209	209	100	98.3	100	209	100	98.3	100	5.00	4.46	5.61
		PIII(M8)	202	202	100	98.2	100	198	98.0	95.0	99.5	2.52	2.19	2.91
		PIV(M9)	189	189	100	98.1	100	189	100	98.1	100	6.40	5.62	7.29
		PIV(M18)	185	185	100	98.0	100	184	99.5	97.0	100	1.98	1.70	2.30
	Ctrl3+1	PIII(M3)	121	64	52.9	43.6	62.0	22	18.2	11.8	26.2	0.07	0.06	0.09

		PIII(M8)	121	53	43.8	34.8	53.1	12	9.9	5.2	16.7	0.05	0.04	0.06	
		PIV(M9)	118	59	50.0	40.7	59.3	11	9.3	4.7	16.1	0.06	0.05	0.07	
		PIV(M18)	113	76	67.3	57.8	75.8	13	11.5	6.3	18.9	0.08	0.06	0.11	
		PII(M3)	205	205	100	98.2	100	202	98.5	95.8	99.7	3.31	2.92	3.75	
	10Pn2+1	PII(M8)	209	208	99.5	97.4	100	197	94.3	90.2	97.0	1.32	1.13	1.54	
		PIII(M9)	193	193	100	98.1	100	192	99.5	97.1	100	4.84	4.26	5.51	
		PIII(M18)	189	189	100	98.1	100	185	97.9	94.7	99.4	1.57	1.32	1.86	
		PII(M3)	140	70	50.0	41.4	58.6	22	15.7	10.1	22.8	0.06	0.05	0.07	
	Ctrl2+1	PII(M8)	131	37	28.2	20.7	36.8	9	6.9	3.2	12.6	0.04	0.04	0.05	
		PIII(M9)	120	56	46.7	37.5	56.0	16	13.3	7.8	20.7	0.06	0.05	0.07	
		PIII(M18)	122	91	74.6	65.9	82.0	29	23.8	16.5	32.3	0.12	0.09	0.15	
		PIII(M3)	209	208	99.5	97.4	100	207	99.0	96.6	99.9	6.51	5.63	7.54	
	ANTI-18C	10Pn3+1	PIII(M8)	202	200	99.0	96.5	99.9	198	98.0	95.0	99.5	2.45	2.10	2.86
			PIV(M9)	189	187	98.9	96.2	99.9	187	98.9	96.2	99.9	10.43	8.94	12.18
			PIV(M18)	185	184	99.5	97.0	100	183	98.9	96.1	99.9	2.18	1.89	2.53
			PIII(M3)	121	25	20.7	13.8	29.0	3	2.5	0.5	7.1	0.03	0.03	0.04
Ctrl3+1		PIII(M8)	123	5	4.1	1.3	9.2	3	2.4	0.5	7.0	0.03	0.03	0.03	
		PIV(M9)	119	10	8.4	4.1	14.9	2	1.7	0.2	5.9	0.03	0.03	0.03	
		PIV(M18)	113	23	20.4	13.4	29.0	8	7.1	3.1	13.5	0.04	0.03	0.04	
		PII(M3)	205	205	100	98.2	100	203	99.0	96.5	99.9	3.38	2.88	3.95	
10Pn2+1		PII(M8)	209	209	100	98.3	100	204	97.6	94.5	99.2	1.49	1.29	1.73	
		PIII(M9)	193	193	100	98.1	100	193	100	98.1	100	10.60	9.48	11.84	
		PIII(M18)	189	189	100	98.1	100	189	100	98.1	100	2.16	1.89	2.48	
		PII(M3)	141	33	23.4	16.7	31.3	7	5.0	2.0	10.0	0.04	0.03	0.04	
Ctrl2+1		PII(M8)	132	4	3.0	0.8	7.6	1	0.8	0.0	4.1	0.03	0.02	0.03	
		PIII(M9)	124	20	16.1	10.1	23.8	2	1.6	0.2	5.7	0.03	0.03	0.03	
		PIII(M18)	120	32	26.7	19.0	35.5	9	7.5	3.5	13.8	0.04	0.03	0.05	
		PIII(M3)	209	209	100	98.3	100	206	98.6	95.9	99.7	5.91	5.06	6.89	
ANTI-19F	10Pn3+1	PIII(M8)	202	202	100	98.2	100	200	99.0	96.5	99.9	2.73	2.36	3.16	
		PIV(M9)	189	189	100	98.1	100	189	100	98.1	100	8.04	7.04	9.17	
		PIV(M18)	185	185	100	98.0	100	183	98.9	96.1	99.9	2.17	1.84	2.55	
		PIII(M3)	122	59	48.4	39.2	57.6	16	13.1	7.7	20.4	0.06	0.05	0.07	
	Ctrl3+1	PIII(M8)	122	27	22.1	15.1	30.5	16	13.1	7.7	20.4	0.05	0.04	0.06	
		PIV(M9)	116	30	25.9	18.2	34.8	12	10.3	5.5	17.4	0.04	0.03	0.05	
		PIV(M18)	113	49	43.4	34.1	53.0	24	21.2	14.1	29.9	0.07	0.05	0.08	
		PII(M3)	205	205	100	98.2	100	200	97.6	94.4	99.2	3.40	2.92	3.97	
	10Pn2+1	PII(M8)	209	209	100	98.3	100	200	95.7	92.0	98.0	1.51	1.29	1.75	
		PIII(M9)	193	193	100	98.1	100	192	99.5	97.1	100	7.41	6.54	8.40	
		PIII(M18)	189	189	100	98.1	100	187	98.9	96.2	99.9	2.10	1.79	2.47	
		PII(M3)	140	64	45.7	37.3	54.3	21	15.0	9.5	22.0	0.06	0.05	0.07	
	Ctrl2+1	PII(M8)	133	19	14.3	8.8	21.4	9	6.8	3.1	12.5	0.03	0.03	0.04	
		PIII(M9)	124	37	29.8	22.0	38.7	11	8.9	4.5	15.3	0.04	0.04	0.05	
		PIII(M18)	123	42	34.1	25.8	43.2	30	24.4	17.1	33.0	0.07	0.05	0.10	
		PIII(M3)	208	192	92.3	87.8	95.5	175	84.1	78.4	88.8	0.68	0.56	0.83	
ANTI-23F	10Pn3+1	PIII(M8)	202	192	95.0	91.1	97.6	178	88.1	82.8	92.2	0.73	0.62	0.87	
		PIV(M9)	189	183	96.8	93.2	98.8	179	94.7	90.5	97.4	2.30	1.90	2.77	
		PIV(M18)	185	184	99.5	97.0	100	171	92.4	87.6	95.8	0.95	0.79	1.13	
		PIII(M3)	121	18	14.9	9.1	22.5	2	1.7	0.2	5.8	0.03	0.03	0.03	
	Ctrl3+1	PIII(M8)	123	10	8.1	4.0	14.4	4	3.3	0.9	8.1	0.03	0.03	0.03	
		PIV(M9)	119	16	13.4	7.9	20.9	6	5.0	1.9	10.7	0.03	0.03	0.04	
		PIV(M18)	113	37	32.7	24.2	42.2	15	13.3	7.6	20.9	0.05	0.04	0.06	
		PII(M3)	205	195	95.1	91.2	97.6	158	77.1	70.7	82.6	0.54	0.45	0.65	
	10Pn2+1	PII(M8)	209	194	92.8	88.4	95.9	158	75.6	69.2	81.3	0.42	0.35	0.50	
		PIII(M9)	193	190	98.4	95.5	99.7	188	97.4	94.1	99.2	2.18	1.88	2.54	
		PIII(M18)	189	187	98.9	96.2	99.9	169	89.4	84.1	93.4	0.75	0.63	0.88	
		PII(M3)	142	38	26.8	19.7	34.8	7	4.9	2.0	9.9	0.04	0.03	0.04	

		PII(M8)	134	10	7.5	3.6	13.3	2	1.5	0.2	5.3	0.03	0.03	0.03
		PIII(M9)	123	23	18.7	12.2	26.7	3	2.4	0.5	7.0	0.03	0.03	0.04
		PIII(M18)	122	38	31.1	23.1	40.2	8	6.6	2.9	12.5	0.04	0.04	0.05
<p>10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine  Ctrl3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with HBV vaccine  10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  Ctrl2+1 Group = Infants enrolled 6 weeks-6 months of age: infant primed with 2 doses and boosted with HBV vaccine  GMC = geometric mean antibody concentration  n/% = number/percentage of subjects with concentration equal to or above specified value  95% CI = 95% confidence interval; LL = Lower Limit, UL = Upper Limit  PII(M3) = 1 month after dose 2 at Month 3  PII(M8) = pre-booster vaccination blood sample at Month 8  PIII(M3) = 1 month after dose 3  PIII(M8) = pre-booster vaccination blood sample at Month 8  PIII(M9) = 1 month post-booster vaccination at Month 9  PIII(M18) = 10 months post-booster vaccination at Month 18  PIV(M9) = 1 month post-booster vaccination at Month 9  PIV(M18) = 10 months post-booster vaccination at Month 18</p>														
<b>Secondary Outcome Variable(s):</b> Seropositivity rates and GMCs for anti-ANTI-6A and anti-ANTI-19A antibodies (22F-inhibition ELISA) (ATP cohort for immunogenicity)														
			≥ 0.05 µg/mL				≥ 0.2 µg/mL				GMC (µg/mL)			
			n		95% CI		n		95% CI		value		95% CI	
<b>Antibody</b>	<b>Group</b>	<b>Timing</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>value</b>	<b>LL</b>	<b>UL</b>
ANTI-6A	10Pn3+1	PIII(M3)	208	151	72.6	66.0	78.5	80	38.5	31.8	45.4	0.13	0.11	0.15
		PIII(M8)	202	169	83.7	77.8	88.5	94	46.5	39.5	53.7	0.19	0.16	0.23
		PIV(M9)	189	178	94.2	89.8	97.1	145	76.7	70.0	82.5	0.53	0.43	0.65
		PIV(M18)	185	175	94.6	90.3	97.4	112	60.5	53.1	67.6	0.30	0.25	0.36
	Ctrl3+1	PIII(M3)	120	22	18.3	11.9	26.4	4	3.3	0.9	8.3	0.03	0.03	0.04
		PIII(M8)	121	5	4.1	1.4	9.4	2	1.7	0.2	5.8	0.03	0.03	0.03
		PIV(M9)	120	18	15.0	9.1	22.7	3	2.5	0.5	7.1	0.03	0.03	0.03
		PIV(M18)	113	38	33.6	25.0	43.1	8	7.1	3.1	13.5	0.04	0.03	0.05
	10Pn2+1	PII(M3)	203	132	65.0	58.0	71.6	57	28.1	22.0	34.8	0.09	0.08	0.11
		PII(M8)	209	163	78.0	71.8	83.4	78	37.3	30.7	44.3	0.14	0.12	0.17
		PIII(M9)	193	184	95.3	91.3	97.8	150	77.7	71.2	83.4	0.50	0.42	0.60
		PIII(M18)	189	171	90.5	85.4	94.3	110	58.2	50.8	65.3	0.27	0.22	0.33
	Ctrl2+1	PII(M3)	140	27	19.3	13.1	26.8	6	4.3	1.6	9.1	0.03	0.03	0.04
		PII(M8)	133	10	7.5	3.7	13.4	4	3.0	0.8	7.5	0.03	0.03	0.03
		PIII(M9)	125	22	17.6	11.4	25.4	5	4.0	1.3	9.1	0.03	0.03	0.04
		PIII(M18)	124	49	39.5	30.9	48.7	16	12.9	7.6	20.1	0.05	0.04	0.06
ANTI-19A	10Pn3+1	PIII(M3)	208	165	79.3	73.2	84.6	86	41.3	34.6	48.4	0.15	0.12	0.18
		PIII(M8)	202	172	85.1	79.5	89.8	116	57.4	50.3	64.3	0.23	0.19	0.28
		PIV(M9)	188	177	94.1	89.8	97.0	158	84.0	78.0	89.0	0.95	0.75	1.19
		PIV(M18)	185	181	97.8	94.6	99.4	138	74.6	67.7	80.7	0.46	0.38	0.55
	Ctrl3+1	PIII(M3)	120	37	30.8	22.7	39.9	15	12.5	7.2	19.8	0.04	0.04	0.05
		PIII(M8)	122	17	13.9	8.3	21.4	4	3.3	0.9	8.2	0.03	0.03	0.03
		PIV(M9)	117	38	32.5	24.1	41.8	8	6.8	3.0	13.0	0.04	0.03	0.05
		PIV(M18)	113	47	41.6	32.4	51.2	18	15.9	9.7	24.0	0.06	0.05	0.08
	10Pn2+1	PII(M3)	204	153	75.0	68.5	80.8	86	42.2	35.3	49.3	0.13	0.11	0.16
		PII(M8)	209	158	75.6	69.2	81.3	89	42.6	35.8	49.6	0.15	0.13	0.19
		PIII(M9)	193	189	97.9	94.8	99.4	167	86.5	80.9	91.0	0.89	0.74	1.07
		PIII(M18)	189	179	94.7	90.5	97.4	130	68.8	61.7	75.3	0.36	0.30	0.43
	Ctrl2+1	PII(M3)	142	51	35.9	28.0	44.4	12	8.5	4.4	14.3	0.04	0.04	0.05
		PII(M8)	132	17	12.9	7.7	19.8	3	2.3	0.5	6.5	0.03	0.03	0.03
		PIII(M9)	125	29	23.2	16.1	31.6	5	4.0	1.3	9.1	0.04	0.03	0.04
		PIII(M18)	118	49	41.5	32.5	51.0	21	17.8	11.4	25.9	0.06	0.05	0.08
<p>10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine  Ctrl3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with HBV vaccine</p>														

10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  
 Ctrl2+1 Group = Infants enrolled 6 weeks-6 months of age: infant primed with 2 doses and boosted with HBV vaccine  
 GMC = geometric mean antibody concentration  
 n/% = number/percentage of subjects with concentration equal to or above specified value  
 95% CI = 95% confidence interval; LL = Lower Limit, UL = Upper Limit  
 PII(M3) = 1 month after dose 2 at Month 3  
 PII(M8) = pre-booster vaccination blood sample at Month 8  
 PIII(M3) = 1 month after dose 3  
 PIII(M8) = pre-booster vaccination blood sample at Month 8  
 PIII(M9) = 1 month post-booster vaccination at Month 9  
 PIII(M18) = 10 months post-booster vaccination at Month 18  
 PIV(M9) = 1 month post-booster vaccination at Month 9  
 PIV(M18) = 10 months post-booster vaccination at Month 18

**Secondary Outcome Variable(s):** Seropositivity rates and GMTs for OPA-1, OPA-4, OPA-5, OPA-6B, OPA-7F, OPA-9V, OPA-14, OPA-18C, OPA-19F and OPA-23F (ATP cohort for immunogenicity)

Antibody	Group	Timing	N	≥ 8				GMT		
				n	%	95% CI		value	95% CI	
						LL	UL		LL	UL
OPA-1	10Pn3+1	PIII(M3)	202	145	71.8	65.0	77.9	52.8	40.7	68.4
		PIII(M8)	199	76	38.2	31.4	45.3	13.8	10.8	17.6
		PIV(M9)	184	173	94.0	89.6	97.0	305.6	238.9	390.8
		PIV(M18)	184	98	53.3	45.8	60.6	20.9	16.1	27.1
	Ctrl3+1	PIII(M3)	118	1	0.8	0.0	4.6	4.1	3.9	4.2
		PIII(M8)	119	4	3.4	0.9	8.4	4.4	4.0	4.9
		PIV(M9)	120	7	5.8	2.4	11.6	4.6	4.1	5.1
		PIV(M18)	112	1	0.9	0.0	4.9	4.1	3.9	4.2
	10Pn2+1	PII(M3)	196	131	66.8	59.8	73.4	38.3	30.0	49.0
		PII(M8)	205	60	29.3	23.1	36.0	9.8	8.0	12.0
		PIII(M9)	185	160	86.5	80.7	91.1	256.9	194.6	339.2
		PIII(M18)	187	68	36.4	29.5	43.7	13.0	10.2	16.6
	Ctrl2+1	PII(M3)	139	1	0.7	0.0	3.9	4.1	3.9	4.2
		PII(M8)	132	5	3.8	1.2	8.6	4.6	4.0	5.3
		PIII(M9)	125	1	0.8	0.0	4.4	4.2	3.9	4.5
		PIII(M18)	119	3	2.5	0.5	7.2	4.2	4.0	4.5
OPA-4	10Pn3+1	PIII(M3)	199	199	100	98.2	100	845.6	746.8	957.4
		PIII(M8)	190	158	83.2	77.1	88.2	78.7	61.1	101.3
		PIV(M9)	184	184	100	98.0	100	1745.7	1476.3	2064.1
		PIV(M18)	172	127	73.8	66.6	80.2	105.1	75.2	146.8
	Ctrl3+1	PIII(M3)	112	3	2.7	0.6	7.6	4.6	3.9	5.5
		PIII(M8)	119	9	7.6	3.5	13.9	6.0	4.6	7.7
		PIV(M9)	115	8	7.0	3.1	13.2	5.8	4.5	7.5
		PIV(M18)	109	11	10.1	5.1	17.3	6.6	4.9	8.8
	10Pn2+1	PII(M3)	192	191	99.5	97.1	100	553.0	484.9	630.5
		PII(M8)	195	132	67.7	60.6	74.2	43.4	32.9	57.3
		PIII(M9)	187	186	99.5	97.1	100	1143.4	961.9	1359.0
		PIII(M18)	181	114	63.0	55.5	70.0	51.9	37.5	72.0
	Ctrl2+1	PII(M3)	134	5	3.7	1.2	8.5	4.8	4.1	5.6
		PII(M8)	125	4	3.2	0.9	8.0	4.6	4.0	5.2
		PIII(M9)	122	4	3.3	0.9	8.2	4.7	4.0	5.6
		PIII(M18)	115	14	12.2	6.8	19.6	6.3	5.0	7.9
OPA-5	10Pn3+1	PIII(M3)	199	185	93.0	88.5	96.1	65.9	55.8	77.7
		PIII(M8)	197	139	70.6	63.7	76.8	20.6	16.9	25.0
		PIV(M9)	185	179	96.8	93.1	98.8	191.6	155.9	235.4
		PIV(M18)	179	139	77.7	70.8	83.5	26.9	22.1	32.8
	Ctrl3+1	PIII(M3)	118	1	0.8	0.0	4.6	4.0	4.0	4.1
		PIII(M8)	119	0	0.0	0.0	3.1	4.0	4.0	4.0
		PIV(M9)	120	1	0.8	0.0	4.6	4.1	3.9	4.2

	10Pn2+1	PIV(M18)	112	0	0.0	0.0	3.2	4.0	4.0	4.0
		PII(M3)	195	172	88.2	82.8	92.4	48.5	40.5	58.0
		PII(M8)	204	127	62.3	55.2	68.9	15.6	13.1	18.6
		PIII(M9)	186	179	96.2	92.4	98.5	145.6	120.2	176.2
	Ctrl2+1	PIII(M18)	187	123	65.8	58.5	72.5	21.2	17.3	26.1
		PII(M3)	135	0	0.0	0.0	2.7	4.0	4.0	4.0
		PII(M8)	132	1	0.8	0.0	4.1	4.1	3.9	4.3
		PIII(M9)	126	1	0.8	0.0	4.3	4.1	3.9	4.3
OPA-6B	10Pn3+1	PIII(M18)	119	0	0.0	0.0	3.1	4.0	4.0	4.0
		PIII(M3)	195	175	89.7	84.6	93.6	740.6	558.3	982.4
		PII(M8)	195	163	83.6	77.6	88.5	220.3	161.1	301.1
		PIV(M9)	181	171	94.5	90.1	97.3	736.3	576.2	941.0
	Ctrl3+1	PIV(M18)	179	129	72.1	64.9	78.5	75.0	51.6	109.0
		PIII(M3)	111	2	1.8	0.2	6.4	4.4	3.8	5.0
		PIII(M8)	116	6	5.2	1.9	10.9	5.5	4.2	7.2
		PIV(M9)	117	8	6.8	3.0	13.0	6.1	4.6	8.2
	10Pn2+1	PIV(M18)	106	12	11.3	6.0	18.9	7.4	5.3	10.4
		PII(M3)	186	149	80.1	73.6	85.6	268.6	193.3	373.3
		PII(M8)	191	139	72.8	65.9	79.0	121.6	85.9	172.3
		PIII(M9)	183	176	96.2	92.3	98.4	879.1	695.4	1111.2
	Ctrl2+1	PIII(M18)	173	108	62.4	54.8	69.7	62.0	41.6	92.3
		PII(M3)	132	1	0.8	0.0	4.1	4.2	3.8	4.7
		PII(M8)	130	4	3.1	0.8	7.7	4.8	4.0	5.9
		PIII(M9)	117	7	6.0	2.4	11.9	5.3	4.3	6.6
OPA-7F	10Pn3+1	PIII(M18)	115	16	13.9	8.2	21.6	7.9	5.7	11.1
		PIII(M3)	197	197	100	98.1	100	3894.8	3320.2	4569.0
		PII(M8)	199	199	100	98.2	100	1960.7	1654.4	2323.7
		PIV(M9)	184	184	100	98.0	100	5219.7	4440.2	6136.0
	Ctrl3+1	PIV(M18)	183	183	100	98.0	100	2124.5	1813.8	2488.5
		PIII(M3)	103	71	68.9	59.1	77.7	87.6	56.8	135.1
		PIII(M8)	114	103	90.4	83.4	95.1	349.0	252.2	483.0
		PIV(M9)	117	110	94.0	88.1	97.6	436.7	324.7	587.4
	10Pn2+1	PIV(M18)	109	103	94.5	88.4	98.0	643.3	479.5	863.0
		PII(M3)	190	189	99.5	97.1	100	2553.5	2124.7	3069.0
		PII(M8)	202	202	100	98.2	100	1454.9	1235.2	1713.7
		PIII(M9)	185	185	100	98.0	100	4863.2	4211.1	5616.3
	Ctrl2+1	PIII(M18)	186	186	100	98.0	100	2182.7	1910.6	2493.5
		PII(M3)	118	70	59.3	49.9	68.3	59.6	38.3	92.6
		PII(M8)	124	114	91.9	85.7	96.1	364.8	270.9	491.3
		PIII(M9)	117	108	92.3	85.9	96.4	522.2	372.4	732.3
OPA-9V	10Pn3+1	PIII(M18)	113	106	93.8	87.7	97.5	856.5	617.2	1188.6
		PIII(M3)	194	194	100	98.1	100	2798.0	2411.9	3246.0
		PII(M8)	198	198	100	98.2	100	735.3	625.6	864.3
		PIV(M9)	183	183	100	98.0	100	3491.2	3049.2	3997.3
	Ctrl3+1	PIV(M18)	181	180	99.4	97.0	100	809.1	677.0	966.9
		PIII(M3)	112	14	12.5	7.0	20.1	6.5	5.1	8.3
		PIII(M8)	105	41	39.0	29.7	49.1	19.4	12.9	29.1
		PIV(M9)	110	45	40.9	31.6	50.7	24.7	16.0	38.0
	10Pn2+1	PIV(M18)	100	61	61.0	50.7	70.6	73.0	44.9	118.5
		PII(M3)	186	186	100	98.0	100	1687.2	1442.7	1973.1
		PII(M8)	198	198	100	98.2	100	509.4	431.3	601.6
		PIII(M9)	179	179	100	98.0	100	3196.0	2718.4	3757.6
	Ctrl2+1	PIII(M18)	185	183	98.9	96.1	99.9	700.1	592.5	827.1
		PII(M3)	130	10	7.7	3.8	13.7	5.3	4.5	6.4
		PII(M8)	123	46	37.4	28.8	46.6	19.3	13.2	28.4
			PIII(M9)	109	46	42.2	32.8	52.0	24.5	15.9

OPA-14	10Pn3+1	PIII(M18)	108	62	57.4	47.5	66.9	55.9	35.4	88.2
		PIII(M3)	198	197	99.5	97.2	100	1831.3	1572.5	2132.7
		PIII(M8)	198	194	98.0	94.9	99.4	529.4	446.6	627.6
		PIV(M9)	185	185	100	98.0	100	2657.2	2280.6	3096.1
	Ctrl3+1	PIV(M18)	180	175	97.2	93.6	99.1	639.0	524.6	778.4
		PIII(M3)	106	27	25.5	17.5	34.9	10.5	7.5	14.7
		PIII(M8)	105	40	38.1	28.8	48.1	18.9	12.6	28.3
		PIV(M9)	109	29	26.6	18.6	35.9	14.1	9.3	21.3
	10Pn2+1	PIV(M18)	101	51	50.5	40.4	60.6	45.2	27.4	74.4
		PII(M3)	191	188	98.4	95.5	99.7	1146.3	944.2	1391.8
		PII(M8)	198	178	89.9	84.8	93.7	233.5	185.1	294.7
		PIII(M9)	187	187	100	98.0	100	1724.2	1475.5	2014.8
	Ctrl2+1	PIII(M18)	182	174	95.6	91.5	98.1	463.8	380.9	564.7
		PII(M3)	124	18	14.5	8.8	22.0	7.3	5.5	9.5
		PII(M8)	123	48	39.0	30.4	48.2	22.2	14.8	33.1
		PIII(M9)	114	50	43.9	34.6	53.5	26.2	17.3	39.9
OPA-18C	10Pn3+1	PIII(M18)	104	74	71.2	61.4	79.6	99.2	64.2	153.3
		PIII(M3)	192	188	97.9	94.8	99.4	543.3	444.5	664.2
		PIII(M8)	195	146	74.9	68.2	80.8	50.0	38.0	65.7
		PIV(M9)	183	181	98.9	96.1	99.9	1066.1	890.3	1276.6
	Ctrl3+1	PIV(M18)	179	148	82.7	76.3	87.9	70.4	53.7	92.2
		PIII(M3)	116	0	0.0	0.0	3.1	4.0	4.0	4.0
		PIII(M8)	118	1	0.8	0.0	4.6	4.1	3.9	4.3
		PIV(M9)	118	0	0.0	0.0	3.1	4.0	4.0	4.0
	10Pn2+1	PIV(M18)	110	1	0.9	0.0	5.0	4.1	3.9	4.4
		PII(M3)	184	168	91.3	86.3	94.9	230.6	177.0	300.4
		PII(M8)	197	118	59.9	52.7	66.8	28.9	21.6	38.6
		PIII(M9)	183	183	100	98.0	100	1052.2	881.8	1255.5
	Ctrl2+1	PIII(M18)	179	147	82.1	75.7	87.4	84.9	63.4	113.6
		PII(M3)	132	0	0.0	0.0	2.8	4.0	4.0	4.0
		PII(M8)	131	1	0.8	0.0	4.2	4.1	3.9	4.3
		PIII(M9)	125	1	0.8	0.0	4.4	4.2	3.9	4.5
OPA-19F	10Pn3+1	PIII(M18)	119	22	18.5	12.0	26.6	6.2	5.2	7.4
		PIII(M3)	196	191	97.4	94.1	99.2	649.6	522.7	807.4
		PIII(M8)	198	165	83.3	77.4	88.2	63.5	49.2	81.9
		PIV(M9)	183	177	96.7	93.0	98.8	1026.0	807.3	1303.9
	Ctrl3+1	PIV(M18)	181	155	85.6	79.7	90.4	80.1	60.2	106.6
		PIII(M3)	118	0	0.0	0.0	3.1	4.0	4.0	4.0
		PIII(M8)	117	2	1.7	0.2	6.0	4.2	3.9	4.6
		PIV(M9)	119	3	2.5	0.5	7.2	4.4	3.9	4.8
	10Pn2+1	PIV(M18)	110	4	3.6	1.0	9.0	4.4	4.0	4.8
		PII(M3)	187	163	87.2	81.5	91.6	197.6	148.6	262.8
		PII(M8)	204	135	66.2	59.2	72.6	30.1	23.6	38.5
		PIII(M9)	186	180	96.8	93.1	98.8	854.6	672.1	1086.6
	Ctrl2+1	PIII(M18)	187	151	80.7	74.4	86.1	56.7	42.7	75.3
		PII(M3)	138	2	1.4	0.2	5.1	4.1	4.0	4.2
		PII(M8)	132	2	1.5	0.2	5.4	4.2	3.9	4.5
		PIII(M9)	125	0	0.0	0.0	2.9	4.0	4.0	4.0
OPA-23F	10Pn3+1	PIII(M18)	116	4	3.4	0.9	8.6	4.3	4.0	4.7
		PIII(M3)	196	182	92.9	88.3	96.0	1900.7	1440.0	2508.7
		PIII(M8)	191	154	80.6	74.3	86.0	457.1	313.4	666.8
		PIV(M9)	184	183	99.5	97.0	100	3248.2	2705.9	3899.2
	Ctrl3+1	PIV(M18)	174	137	78.7	71.9	84.6	398.6	265.6	598.3
		PIII(M3)	111	9	8.1	3.8	14.8	7.0	4.9	10.1
		PIII(M8)	111	24	21.6	14.4	30.4	15.9	9.6	26.3
		PIV(M9)	119	31	26.1	18.4	34.9	21.8	12.9	37.0

		PIV(M18)	109	43	39.4	30.2	49.3	56.4	29.9	106.3
	10Pn2+1	PII(M3)	188	168	89.4	84.0	93.4	897.1	663.5	1212.9
		PII(M8)	202	138	68.3	61.4	74.7	237.2	156.6	359.3
		PIII(M9)	184	179	97.3	93.8	99.1	2630.7	2047.9	3379.2
		PIII(M18)	181	118	65.2	57.8	72.1	222.7	139.3	356.1
	Ctrl2+1	PII(M3)	131	8	6.1	2.7	11.7	5.6	4.4	7.1
		PII(M8)	129	29	22.5	15.6	30.7	17.3	10.6	28.0
		PIII(M9)	121	28	23.1	16.0	31.7	17.3	10.6	28.2
		PIII(M18)	113	41	36.3	27.4	45.9	43.4	23.8	79.0

10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine

Ctrl3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with HBV vaccine

10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine

Ctrl2+1 Group = Infants enrolled 6 weeks-6 months of age: infant primed with 2 doses and boosted with HBV vaccine

GMT = geometric mean antibody titre

n/% = number/percentage of subjects with titre equal to or above specified value

95% CI = 95% confidence interval; LL = Lower Limit, UL = Upper Limit

PII(M3) = 1 month after dose 2 at Month 3

PII(M8) = pre-booster vaccination blood sample at Month 8

PIII(M3) = 1 month after dose 3

PIII(M8) = pre-booster vaccination blood sample at Month 8

PIII(M9) = 1 month post-booster vaccination at Month 9

PIII(M18) = 10 months post-booster vaccination at Month 18

PIV(M9) = 1 month post-booster vaccination at Month 9

PIV(M18) = 10 months post-booster vaccination at Month 18

**Secondary Outcome Variable(s):** Seropositivity rates and GMTs for OPA-6A and OPA-19A (ATP cohort for immunogenicity)

Antibody	Group	Timing	N	≥ 8				GMT		
				n	%	95% CI		value	95% CI	
						LL	UL		LL	UL
OPA-6A	10Pn3+1	PIII(M3)	191	137	71.7	64.8	78.0	90.8	66.4	124.3
		PIII(M8)	188	120	63.8	56.5	70.7	70.9	50.7	99.1
		PIV(M9)	177	138	78.0	71.1	83.8	173.8	125.7	240.4
		PIV(M18)	179	87	48.6	41.1	56.2	32.9	23.2	46.7
	Ctrl3+1	PIII(M3)	116	1	0.9	0.0	4.7	4.1	3.9	4.4
		PIII(M8)	117	6	5.1	1.9	10.8	5.2	4.2	6.4
		PIV(M9)	115	7	6.1	2.5	12.1	5.3	4.3	6.5
		PIV(M18)	109	17	15.6	9.4	23.8	8.0	5.9	11.0
	10Pn2+1	PII(M3)	183	104	56.8	49.3	64.1	43.1	31.2	59.5
		PII(M8)	195	115	59.0	51.7	66.0	59.0	42.0	82.9
		PIII(M9)	168	141	83.9	77.5	89.1	285.9	205.3	398.2
		PIII(M18)	167	87	52.1	44.2	59.9	41.8	28.8	60.8
	Ctrl2+1	PII(M3)	135	2	1.5	0.2	5.2	4.4	3.8	5.0
		PII(M8)	132	7	5.3	2.2	10.6	5.1	4.3	6.2
		PIII(M9)	113	7	6.2	2.5	12.3	5.3	4.3	6.6
		PIII(M18)	110	25	22.7	15.3	31.7	10.5	7.4	14.8
OPA-19A	10Pn3+1	PIII(M3)	193	82	42.5	35.4	49.8	25.2	18.3	34.8
		PIII(M8)	197	46	23.4	17.6	29.9	8.6	7.0	10.7
		PIV(M9)	181	142	78.5	71.7	84.2	145.0	104.7	200.9
		PIV(M18)	182	52	28.6	22.1	35.7	12.2	9.2	16.1
	Ctrl3+1	PIII(M3)	118	3	2.5	0.5	7.3	4.3	3.9	4.8
		PIII(M8)	118	4	3.4	0.9	8.5	4.3	3.9	4.8
		PIV(M9)	119	4	3.4	0.9	8.4	4.3	4.0	4.8
		PIV(M18)	111	7	6.3	2.6	12.6	4.8	4.1	5.7
	10Pn2+1	PII(M3)	190	55	28.9	22.6	36.0	11.9	9.2	15.5
		PII(M8)	204	25	12.3	8.1	17.6	5.8	5.0	6.9
		PIII(M9)	183	127	69.4	62.2	76.0	78.9	55.5	112.2
		PIII(M18)	181	37	20.4	14.8	27.1	8.5	6.6	10.9
	Ctrl2+1	PII(M3)	137	2	1.5	0.2	5.2	4.1	4.0	4.3

		PII(M8)	129	1	0.8	0.0	4.2	4.0	4.0	4.1
		PIII(M9)	125	2	1.6	0.2	5.7	4.1	4.0	4.2
		PIII(M18)	118	7	5.9	2.4	11.8	5.1	4.2	6.3
<p>10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine  Ctrl3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with HBV vaccine  10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  Ctrl2+1 Group = Infants enrolled 6 weeks-6 months of age: infant primed with 2 doses and boosted with HBV vaccine  GMT = geometric mean antibody titre  n/% = number/percentage of subjects with titre equal to or above specified value  95% CI = 95% confidence interval; LL = Lower Limit, UL = Upper Limit  PII(M3) = 1 month after dose 2 at Month 3  PII(M8) = pre-booster vaccination blood sample at Month 8  PIII(M3) = 1 month after dose 3  PIII(M8) = pre-booster vaccination blood sample at Month 8  PIII(M9) = 1 month post-booster vaccination at Month 9  PIII(M18) = 10 months post-booster vaccination at Month 18  PIV(M9) = 1 month post-booster vaccination at Month 9  PIV(M18) = 10 months post-booster vaccination at Month 18</p>										
<b>Secondary Outcome Variable(s): Seropositivity rates and GMCs for ANTI-PD antibodies (ATP cohort for immunogenicity)</b>										
			<b>≥ 100 EL.U/mL</b>				<b>GMC (EL.U/mL)</b>			
					<b>95% CI</b>				<b>95% CI</b>	
<b>Antibody</b>	<b>Group</b>	<b>Timing</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>value</b>	<b>LL</b>	<b>UL</b>
ANTI-PD	10Pn3+1	PIII(M3)	209	208	99.5	97.4	100	1869.4	1670.7	2091.7
		PIII(M8)	203	201	99.0	96.5	99.9	955.2	837.1	1089.9
		PIV(M9)	188	188	100	98.1	100	2734.7	2406.0	3108.3
		PIV(M18)	185	184	99.5	97.0	100	1030.0	884.3	1199.7
	Ctrl3+1	PIII(M3)	121	16	13.2	7.8	20.6	60.5	54.8	66.7
		PIII(M8)	123	18	14.6	8.9	22.1	62.7	56.4	69.7
		PIV(M9)	118	15	12.7	7.3	20.1	61.6	55.0	69.0
		PIV(M18)	113	18	15.9	9.7	24.0	65.5	57.4	74.8
	10Pn2+1	PII(M3)	203	202	99.5	97.3	100	1062.9	936.0	1207.0
		PII(M8)	209	201	96.2	92.6	98.3	505.6	439.2	582.1
		PIII(M9)	193	192	99.5	97.1	100	1903.9	1642.7	2206.6
		PIII(M18)	188	179	95.2	91.1	97.8	687.7	577.8	818.4
	Ctrl2+1	PII(M3)	139	32	23.0	16.3	30.9	66.1	60.3	72.4
		PII(M8)	131	22	16.8	10.8	24.3	62.9	57.0	69.5
		PIII(M9)	127	30	23.6	16.5	32.0	68.2	61.1	76.1
		PIII(M18)	124	37	29.8	22.0	38.7	78.6	68.8	89.8
<p>10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine  Ctrl3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with HBV vaccine  10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  Ctrl2+1 Group = Infants enrolled 6 weeks-6 months of age: infant primed with 2 doses and boosted with HBV vaccine  GMC = geometric mean antibody concentration  n/% = number/percentage of subjects with concentration equal to or above specified value  95% CI = 95% confidence interval; LL = Lower Limit, UL = Upper Limit  PII(M3) = 1 month after dose 2 at Month 3  PII(M8) = pre-booster vaccination blood sample at Month 8  PIII(M3) = 1 month after dose 3  PIII(M8) = pre-booster vaccination blood sample at Month 8  PIII(M9) = one month post-booster vaccination at Month 9  PIII(M18) = ten months post-booster vaccination at Month 18  PIV(M9) = 1 month post-booster vaccination at Month 9  PIV(M18) = 10 months post-booster vaccination at Month 18</p>										
<b>Secondary Outcome Variable(s): Seropositivity rates and GMCs for anti-ANTI-1, anti-ANTI-4, anti-ANTI-5, anti-ANTI-6B, anti-ANTI-7F, anti-ANTI-9V, anti-ANTI-14, anti-ANTI-18C, anti-ANTI-19F and anti-ANTI-23F antibodies (22F-inhibition ELISA) (ATP cohort for immunogenicity)</b>										
						<b>≥ 0.05 µg/mL</b>		<b>≥ 0.2 µg/mL</b>		<b>GMC (µg/mL)</b>

Antibody	Sub-Group	Group	Timing	N	95% CI				95% CI				value	95% CI	
					n	%	LL	UL	n	%	LL	UL		LL	UL
ANTI-1	Catch-up 7-11M	10Pn	PII(M2)	151	151	100	97.6	100	149	98.7	95.3	99.8	1.96	1.72	2.23
			PII(M6)	144	144	100	97.5	100	139	96.5	92.1	98.9	0.66	0.58	0.75
			PIII(M7)	137	137	100	97.3	100	137	100	97.3	100	2.62	2.33	2.94
			PIII(M16)	124	124	100	97.1	100	117	94.4	88.7	97.7	0.59	0.51	0.68
		Ctrl	PII(M2)	100	14	14.0	7.9	22.4	1	1.0	0.0	5.4	0.03	0.03	0.03
			PII(M6)	97	30	30.9	21.9	41.1	6	6.2	2.3	13.0	0.04	0.03	0.05
			PIII(M7)	90	24	26.7	17.9	37.0	6	6.7	2.5	13.9	0.04	0.03	0.05
			PIII(M16)	88	45	51.1	40.2	61.9	9	10.2	4.8	18.5	0.05	0.04	0.06
	Catch-up 12-18M	10Pn	PI(M1)	181	180	99.4	97.0	100	167	92.3	87.4	95.7	0.73	0.63	0.84
			PII(M7)	167	167	100	97.8	100	166	99.4	96.7	100	1.87	1.67	2.09
			PII(M9)	162	162	100	97.7	100	158	97.5	93.8	99.3	0.95	0.84	1.08
		Ctrl	PI(M1)	138	50	36.2	28.2	44.8	3	2.2	0.5	6.2	0.04	0.04	0.05
PII(M7)			134	39	29.1	21.6	37.6	2	1.5	0.2	5.3	0.04	0.03	0.04	
PII(M9)			132	49	37.1	28.9	46.0	4	3.0	0.8	7.6	0.04	0.04	0.05	
ANTI-4	Catch-up 7-11M	10Pn	PII(M2)	150	150	100	97.6	100	150	100	97.6	100	5.85	5.16	6.63
			PII(M6)	144	144	100	97.5	100	144	100	97.5	100	1.55	1.36	1.76
			PIII(M7)	135	135	100	97.3	100	135	100	97.3	100	5.45	4.85	6.14
			PIII(M16)	124	124	100	97.1	100	124	100	97.1	100	1.21	1.07	1.38
		Ctrl	PII(M2)	101	3	3.0	0.6	8.4	0	0.0	0.0	3.6	0.03	0.02	0.03
			PII(M6)	96	6	6.3	2.3	13.1	2	2.1	0.3	7.3	0.03	0.02	0.03
			PIII(M7)	90	7	7.8	3.2	15.4	1	1.1	0.0	6.0	0.03	0.02	0.03
			PIII(M16)	88	8	9.1	4.0	17.1	2	2.3	0.3	8.0	0.03	0.03	0.03
	Catch-up 12-18M	10Pn	PI(M1)	181	181	100	98.0	100	181	100	98.0	100	4.64	4.11	5.25
			PII(M7)	167	167	100	97.8	100	167	100	97.8	100	5.28	4.77	5.84
			PII(M9)	162	162	100	97.7	100	161	99.4	96.6	100	2.57	2.29	2.87
		Ctrl	PI(M1)	143	8	5.6	2.4	10.7	2	1.4	0.2	5.0	0.03	0.03	0.03
PII(M7)			134	12	9.0	4.7	15.1	3	2.2	0.5	6.4	0.03	0.03	0.03	
PII(M9)			133	22	16.5	10.7	24.0	3	2.3	0.5	6.5	0.03	0.03	0.03	
ANTI-5	Catch-up 7-11M	10Pn	PII(M2)	151	151	100	97.6	100	151	100	97.6	100	2.40	2.13	2.72
			PII(M6)	144	144	100	97.5	100	144	100	97.5	100	1.19	1.06	1.34
			PIII(M7)	137	137	100	97.3	100	137	100	97.3	100	4.11	3.71	4.56
			PIII(M16)	123	123	100	97.0	100	123	100	97.0	100	1.30	1.12	1.51
		Ctrl	PII(M2)	99	34	34.3	25.1	44.6	2	2.0	0.2	7.1	0.04	0.03	0.04
			PII(M6)	96	55	57.3	46.8	67.3	8	8.3	3.7	15.8	0.06	0.05	0.07
			PIII(M7)	89	52	58.4	47.5	68.8	12	13.5	7.2	22.4	0.07	0.05	0.08
			PIII(M16)	87	68	78.2	68.0	86.3	21	24.1	15.6	34.5	0.13	0.09	0.17
	Catch-up 12-18M	10Pn	PI(M1)	181	181	100	98.0	100	164	90.6	85.4	94.4	0.77	0.67	0.88
			PII(M7)	167	167	100	97.8	100	167	100	97.8	100	3.45	3.05	3.90
			PII(M9)	162	162	100	97.7	100	162	100	97.7	100	2.14	1.88	2.44
		Ctrl	PI(M1)	140	92	65.7	57.2	73.5	19	13.6	8.4	20.4	0.07	0.06	0.08
PII(M7)			133	95	71.4	63.0	78.9	13	9.8	5.3	16.1	0.07	0.06	0.08	
PII(M9)			133	96	72.2	63.7	79.6	21	15.8	10.0	23.1	0.08	0.07	0.10	
ANTI-6B	Catch-up 7-11M	10Pn	PII(M2)	151	131	86.8	80.3	91.7	91	60.3	52.0	68.1	0.27	0.21	0.33
			PII(M6)	144	136	94.4	89.3	97.6	123	85.4	78.6	90.7	0.49	0.40	0.58
			PIII(M7)	137	128	93.4	87.9	97.0	124	90.5	84.3	94.9	1.06	0.85	1.31
			PIII(M16)	124	120	96.8	91.9	99.1	105	84.7	77.1	90.5	0.52	0.42	0.65
		Ctrl	PII(M2)	100	5	5.0	1.6	11.3	0	0.0	0.0	3.6	0.03	0.03	0.03
			PII(M6)	97	24	24.7	16.5	34.5	2	2.1	0.3	7.3	0.03	0.03	0.04
			PIII(M7)	90	23	25.6	16.9	35.8	3	3.3	0.7	9.4	0.03	0.03	0.04
			PIII(M16)	88	41	46.6	35.9	57.5	11	12.5	6.4	21.3	0.06	0.04	0.07
	Catch-up 12-18M	10Pn	PI(M1)	181	125	69.1	61.8	75.7	57	31.5	24.8	38.8	0.11	0.09	0.13
			PII(M7)	167	160	95.8	91.6	98.3	144	86.2	80.1	91.1	0.69	0.57	0.83
			PII(M9)	162	156	96.3	92.1	98.6	130	80.2	73.3	86.1	0.48	0.40	0.57

ANTI-7F	Catch-up 7-11M	Ctrl	PI(M1)	136	35	25.7	18.6	33.9	7	5.1	2.1	10.3	0.04	0.03	0.04
			PII(M7)	133	50	37.6	29.3	46.4	15	11.3	6.5	17.9	0.05	0.04	0.06
			PII(M9)	133	60	45.1	36.5	54.0	22	16.5	10.7	24.0	0.06	0.05	0.07
	10Pn	PII(M2)	150	150	100	97.6	100	150	100	97.6	100	3.61	3.21	4.06	
		PII(M6)	144	144	100	97.5	100	144	100	97.5	100	2.22	1.97	2.51	
		PIII(M7)	137	137	100	97.3	100	137	100	97.3	100	5.44	4.80	6.15	
		PIII(M16)	123	123	100	97.0	100	123	100	97.0	100	2.08	1.82	2.39	
	Ctrl	PII(M2)	100	9	9.0	4.2	16.4	3	3.0	0.6	8.5	0.03	0.03	0.03	
		PII(M6)	97	16	16.5	9.7	25.4	6	6.2	2.3	13.0	0.03	0.03	0.04	
		PIII(M7)	89	16	18.0	10.6	27.5	6	6.7	2.5	14.1	0.04	0.03	0.05	
		PIII(M16)	88	28	31.8	22.3	42.6	9	10.2	4.8	18.5	0.05	0.04	0.06	
	Catch-up 12-18M	10Pn	PI(M1)	181	181	100	98.0	100	180	99.4	97.0	100	2.53	2.22	2.89
			PII(M7)	167	167	100	97.8	100	167	100	97.8	100	3.95	3.58	4.35
			PII(M9)	162	162	100	97.7	100	162	100	97.7	100	2.73	2.48	3.01
		Ctrl	PI(M1)	142	26	18.3	12.3	25.7	4	2.8	0.8	7.1	0.03	0.03	0.04
PII(M7)	134		35	26.1	18.9	34.4	11	8.2	4.2	14.2	0.04	0.03	0.05		
PII(M9)	133		36	27.1	19.7	35.5	15	11.3	6.5	17.9	0.05	0.04	0.06		
ANTI-9V	Catch-up 7-11M	10Pn	PII(M2)	151	151	100	97.6	100	146	96.7	92.4	98.9	1.42	1.24	1.64
			PII(M6)	144	144	100	97.5	100	137	95.1	90.2	98.0	0.88	0.76	1.02
			PIII(M7)	137	137	100	97.3	100	137	100	97.3	100	2.81	2.44	3.23
			PIII(M16)	123	123	100	97.0	100	119	96.7	91.9	99.1	1.16	0.99	1.37
	Ctrl	PII(M2)	100	1	1.0	0.0	5.4	0	0.0	0.0	3.6	0.03	0.02	0.03	
		PII(M6)	96	12	12.5	6.6	20.8	3	3.1	0.6	8.9	0.03	0.03	0.04	
		PIII(M7)	90	12	13.3	7.1	22.1	4	4.4	1.2	11.0	0.03	0.03	0.04	
		PIII(M16)	88	17	19.3	11.7	29.1	3	3.4	0.7	9.6	0.03	0.03	0.04	
	Catch-up 12-18M	10Pn	PI(M1)	181	179	98.9	96.1	99.9	168	92.8	88.0	96.1	0.84	0.73	0.97
			PII(M7)	167	167	100	97.8	100	166	99.4	96.7	100	1.60	1.42	1.81
			PII(M9)	163	163	100	97.8	100	161	98.8	95.6	99.9	1.22	1.07	1.39
		Ctrl	PI(M1)	140	18	12.9	7.8	19.6	3	2.1	0.4	6.1	0.03	0.03	0.03
	PII(M7)		134	20	14.9	9.4	22.1	6	4.5	1.7	9.5	0.03	0.03	0.04	
	PII(M9)		129	22	17.1	11.0	24.7	7	5.4	2.2	10.9	0.03	0.03	0.04	
	ANTI-14	Catch-up 7-11M	10Pn	PII(M2)	150	150	100	97.6	100	150	100	97.6	100	3.81	3.34
PII(M6)				144	144	100	97.5	100	144	100	97.5	100	3.06	2.69	3.49
PIII(M7)				137	137	100	97.3	100	137	100	97.3	100	8.38	7.42	9.47
PIII(M16)				123	123	100	97.0	100	123	100	97.0	100	2.91	2.44	3.48
Ctrl		PII(M2)	100	38	38.0	28.5	48.3	9	9.0	4.2	16.4	0.05	0.04	0.06	
		PII(M6)	95	48	50.5	40.1	60.9	21	22.1	14.2	31.8	0.08	0.06	0.11	
		PIII(M7)	89	56	62.9	52.0	72.9	18	20.2	12.4	30.1	0.10	0.07	0.14	
		PIII(M16)	88	68	77.3	67.1	85.5	21	23.9	15.4	34.1	0.13	0.09	0.19	
Catch-up 12-18M		10Pn	PI(M1)	181	181	100	98.0	100	169	93.4	88.7	96.5	1.07	0.90	1.28
			PII(M7)	167	167	100	97.8	100	167	100	97.8	100	6.04	5.37	6.79
			PII(M9)	161	161	100	97.7	100	161	100	97.7	100	3.73	3.30	4.21
		Ctrl	PI(M1)	143	76	53.1	44.6	61.5	19	13.3	8.2	20.0	0.06	0.05	0.08
PII(M7)			132	89	67.4	58.7	75.3	19	14.4	8.9	21.6	0.09	0.07	0.12	
PII(M9)			133	102	76.7	68.6	83.6	45	33.8	25.9	42.5	0.21	0.15	0.29	
ANTI-18C		Catch-up 7-11M	10Pn	PII(M2)	150	150	100	97.6	100	149	99.3	96.3	100	10.03	8.67
	PII(M6)			144	144	100	97.5	100	144	100	97.5	100	4.70	4.01	5.50
	PIII(M7)			137	137	100	97.3	100	137	100	97.3	100	19.87	17.08	23.12
	PIII(M16)			123	123	100	97.0	100	123	100	97.0	100	5.46	4.61	6.46
	Ctrl	PII(M2)	101	8	7.9	3.5	15.0	0	0.0	0.0	3.6	0.03	0.03	0.03	
		PII(M6)	97	12	12.4	6.6	20.6	4	4.1	1.1	10.2	0.03	0.03	0.04	
		PIII(M7)	90	12	13.3	7.1	22.1	5	5.6	1.8	12.5	0.03	0.03	0.04	
		PIII(M16)	88	25	28.4	19.3	39.0	10	11.4	5.6	19.9	0.04	0.03	0.06	
	Catch-up 12-18M	10Pn	PI(M1)	181	181	100	98.0	100	180	99.4	97.0	100	3.76	3.35	4.22
			PII(M7)	166	166	100	97.8	100	166	100	97.8	100	21.27	18.70	24.19
			PII(M9)	162	162	100	97.7	100	162	100	97.7	100	12.44	10.88	14.22

		Ctrl	PI(M1)	142	32	22.5	16.0	30.3	5	3.5	1.2	8.0	0.04	0.03	0.04	
			PII(M7)	134	27	20.1	13.7	27.9	6	4.5	1.7	9.5	0.04	0.03	0.04	
			PII(M9)	133	28	21.1	14.5	29.0	10	7.5	3.7	13.4	0.04	0.03	0.05	
ANTI-19F	Catch-up 7-11M	10Pn	PII(M2)	151	149	98.7	95.3	99.8	147	97.4	93.4	99.3	6.64	5.41	8.15	
			PII(M6)	144	144	100	97.5	100	140	97.2	93.0	99.2	3.41	2.81	4.14	
			PIII(M7)	137	137	100	97.3	100	136	99.3	96.0	100	11.73	9.73	14.13	
			PIII(M16)	124	124	100	97.1	100	123	99.2	95.6	100	3.69	3.06	4.44	
		Ctrl		PII(M2)	100	21	21.0	13.5	30.3	9	9.0	4.2	16.4	0.04	0.03	0.05
	PII(M6)			93	26	28.0	19.1	38.2	16	17.2	10.2	26.4	0.05	0.04	0.07	
	PIII(M7)			86	29	33.7	23.9	44.7	17	19.8	12.0	29.8	0.06	0.04	0.08	
	PIII(M16)			87	45	51.7	40.8	62.6	25	28.7	19.5	39.4	0.09	0.07	0.13	
		Catch-up 12-18M	10Pn	PI(M1)	181	180	99.4	97.0	100	179	98.9	96.1	99.9	2.63	2.24	3.10
	PII(M7)			166	166	100	97.8	100	166	100	97.8	100	12.10	10.38	14.11	
	PII(M9)			162	162	100	97.7	100	162	100	97.7	100	8.49	7.39	9.74	
				Ctrl		PI(M1)	143	50	35.0	27.2	43.4	26	18.2	12.2	25.5	0.06
PII(M7)	134	59	44.0			35.5	52.9	37	27.6	20.2	36.0	0.09	0.07	0.12		
PII(M9)	132	61	46.2			37.5	55.1	46	34.8	26.8	43.6	0.11	0.08	0.15		
			PII(M2)			151	139	92.1	86.5	95.8	117	77.5	70.0	83.9	0.55	0.44
ANTI-23F	Catch-up 7-11M	10Pn	PII(M6)	144	140	97.2	93.0	99.2	128	88.9	82.6	93.5	0.64	0.54	0.77	
			PIII(M7)	137	135	98.5	94.8	99.8	134	97.8	93.7	99.5	2.04	1.71	2.43	
			PIII(M16)	123	120	97.6	93.0	99.5	115	93.5	87.6	97.2	0.80	0.66	0.96	
				Ctrl		PII(M2)	100	8	8.0	3.5	15.2	3	3.0	0.6	8.5	0.03
	PII(M6)	94	22			23.4	15.3	33.3	7	7.4	3.0	14.7	0.04	0.03	0.05	
	PIII(M7)	88	25			28.4	19.3	39.0	10	11.4	5.6	19.9	0.04	0.03	0.05	
	PIII(M16)	87	35			40.2	29.9	51.3	16	18.4	10.9	28.1	0.06	0.05	0.08	
		Catch-up 12-18M	10Pn	PI(M1)	181	150	82.9	76.6	88.1	78	43.1	35.8	50.6	0.16	0.13	0.19
	PII(M7)			167	165	98.8	95.7	99.9	157	94.0	89.3	97.1	1.27	1.07	1.50	
	PII(M9)			162	160	98.8	95.6	99.9	147	90.7	85.2	94.7	0.83	0.70	0.99	
				Ctrl		PI(M1)	138	26	18.8	12.7	26.4	4	2.9	0.8	7.3	0.03
	PII(M7)	134	47			35.1	27.0	43.8	14	10.4	5.8	16.9	0.05	0.04	0.06	
PII(M9)	132	54	40.9			32.4	49.8	16	12.1	7.1	18.9	0.05	0.04	0.06		

Groups part of the Catch-up 7-11M sub-group:

- 10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine
- Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine

Groups part of the Catch-up 12-18M sub-group:

- 10Pn Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of 10Pn vaccine
- Ctrl Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of HAV vaccine

GMC = geometric mean antibody concentration

n/% = number/percentage of subjects with concentration equal to or above specified value

95% CI = 95% confidence interval; LL = Lower Limit, UL = Upper Limit

PI(M1) = 1 month after dose 1 at Month 1

PII(M2) = 1 month after dose 2 at Month 2

PII(M7) = 1 month after dose 2 at Month 7

PII(M9) = 3 months after dose 2 at month 9

PII(M6) = pre-booster vaccination blood sample at Month 6

PIII(M7) = 1 month post-booster vaccination at Month 7

PIII(M16) = 10 months post-booster vaccination at Month 16

**Secondary Outcome Variable(s):** Seropositivity rates and GMCs for anti-ANTI-6A and anti-ANTI-19A antibodies (22F-inhibition ELISA) (ATP cohort for immunogenicity)

Antibody	Sub-group	Group	Timing	N	≥ 0.05 µg/mL				≥ 0.2 µg/mL				GMC (µg/mL)		
					n	%	95% CI		n	%	95% CI		value	95% CI	
							LL	UL			LL	UL		LL	UL
ANTI-6A	Catch-up 7-11M	10Pn	PII(M2)	150	90	60.0	51.7	67.9	56	37.3	29.6	45.6	0.11	0.09	0.14
			PII(M6)	144	123	85.4	78.6	90.7	85	59.0	50.5	67.1	0.23	0.18	0.29
			PIII(M7)	137	130	94.9	89.8	97.9	113	82.5	75.1	88.4	0.70	0.55	0.90
			PIII(M16)	123	121	98.4	94.2	99.8	79	64.2	55.1	72.7	0.33	0.26	0.41

	Ctrl	PII(M2)	99	7	7.1	2.9	14.0	0	0.0	0.0	3.7	0.03	0.03	0.03		
		PII(M6)	96	13	13.5	7.4	22.0	4	4.2	1.1	10.3	0.03	0.03	0.04		
		PIII(M7)	89	17	19.1	11.5	28.8	4	4.5	1.2	11.1	0.03	0.03	0.04		
		PIII(M16)	88	39	44.3	33.7	55.3	12	13.6	7.2	22.6	0.06	0.04	0.07		
	Catch-up 12-18M	10Pn	PI(M1)	181	89	49.2	41.7	56.7	34	18.8	13.4	25.2	0.06	0.05	0.08	
			PII(M7)	167	145	86.8	80.7	91.6	106	63.5	55.7	70.8	0.32	0.26	0.41	
			PII(M9)	162	145	89.5	83.7	93.8	102	63.0	55.0	70.4	0.29	0.23	0.36	
		Ctrl	PI(M1)	143	32	22.4	15.8	30.1	8	5.6	2.4	10.7	0.04	0.03	0.04	
			PII(M7)	134	55	41.0	32.6	49.9	18	13.4	8.2	20.4	0.05	0.04	0.06	
			PII(M9)	132	65	49.2	40.4	58.1	23	17.4	11.4	25.0	0.06	0.05	0.08	
	ANTI-19A	Catch-up 7-11M	10Pn	PII(M2)	151	136	90.1	84.1	94.3	94	62.3	54.0	70.0	0.33	0.26	0.42
				PII(M6)	144	133	92.4	86.7	96.1	107	74.3	66.4	81.2	0.49	0.39	0.62
PIII(M7)				137	132	96.4	91.7	98.8	128	93.4	87.9	97.0	1.98	1.53	2.56	
PIII(M16)				123	116	94.3	88.6	97.7	101	82.1	74.2	88.4	0.93	0.70	1.23	
Ctrl			PII(M2)	100	19	19.0	11.8	28.1	4	4.0	1.1	9.9	0.04	0.03	0.04	
			PII(M6)	97	31	32.0	22.9	42.2	10	10.3	5.1	18.1	0.05	0.04	0.06	
			PIII(M7)	90	26	28.9	19.8	39.4	8	8.9	3.9	16.8	0.04	0.04	0.06	
			PIII(M16)	88	43	48.9	38.1	59.8	17	19.3	11.7	29.1	0.08	0.06	0.11	
Catch-up 12-18M		10Pn	PI(M1)	181	153	84.5	78.4	89.5	82	45.3	37.9	52.9	0.20	0.16	0.25	
			PII(M7)	167	166	99.4	96.7	100	160	95.8	91.6	98.3	2.61	2.12	3.22	
			PII(M9)	162	161	99.4	96.6	100	150	92.6	87.4	96.1	1.72	1.41	2.10	
		Ctrl	PI(M1)	136	45	33.1	25.3	41.7	16	11.8	6.9	18.4	0.05	0.04	0.06	
PII(M7)	134		57	42.5	34.0	51.4	16	11.9	7.0	18.7	0.06	0.05	0.07			
		PII(M9)	132	67	50.8	41.9	59.6	20	15.2	9.5	22.4	0.07	0.05	0.09		

Groups part of the Catch-up 7-11M sub-group:

- 10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine
- Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine

Groups part of the Catch-up 12-18M sub-group:

- 10Pn Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of 10Pn vaccine
- Ctrl Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of HAV vaccine

GMC = geometric mean antibody concentration

n/% = number/percentage of subjects with concentration equal to or above specified value

95% CI = 95% confidence interval; LL = Lower Limit, UL = Upper Limit

PI(M1) = 1 month after dose 1 at Month 1

PII(M2) = 1 month after dose 2 at Month 2

PII(M7) = 1 month after dose 2 at Month 7

PII(M9) = 3 months after dose 2 at Month 9

PII(M6) = pre-booster vaccination blood sample at Month 6

PIII(M7) = 1 month post-booster vaccination at Month 7

PIII(M16) = 10 months post-booster vaccination at Month 16

**Secondary Outcome Variable(s):** Vaccine effectiveness in reducing the number of subjects reporting at least one AOM episode with level 1 of diagnosis certainty for the infants enrolled between 6 weeks and 6 months of age any time after the administration of the first vaccine dose in the 112595 study – 3+1 and 2+1 schedules (Total Vaccinated cohort for analysis of AOM/RTI effectiveness)

Event Type	Group					Person-year rate			VE		
		N	n+	n	T(year)	n/T (Per 1000)	LL	UL	%	LL	UL
Subjects with at least one AOM episode with level 1 of diagnosis certainty [with documented AOM questionnaire]	10Pn3+1	1846	16	1163	2764.80	420.645	396.814	445.534	6.1	-2.7	14.1
	10Pn2+1	942	17	589	1417.36	415.560	382.673	450.518	7.4	-2.8	16.6
	Ctrl	1329	17	892	2011.68	443.411	414.786	473.491	-	-	-

10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine

10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine

Ctrl Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 or 3 doses and boosted with HBV vaccine

AOM episode with level 1 of diagnostic certainty = AOM episode defined as AOM event diagnosed by a physician according to

the Finnish AOM management guidelines (confirmed cases) and reported by subjects' Parent(s)/guardian(s) regardless the documentation in medical records or other source document.

VE (%) = Vaccine effectiveness (1 minus Relative Risk)

N = total number of subjects

T (year) = sum of follow-up period expressed in years taking into account a defined per-subject end of follow-up

n = number of subjects reporting a AOM episode with level 1 of diagnosis certainty after the administration of first vaccine dose

n+ = number of clusters with at least one event AOM episode with level 1 of diagnosis certainty after the administration of first vaccine dose

n/T (%) = percentage of subjects reporting a AOM episode with level 1 of diagnosis certainty after the administration of first vaccine dose expressed in 1000-child year

95% CI = 95% confidence interval, LL = lower limit, UL = upper limit

Note: A classical log linear Poisson regression model with strata was used to compute the VE and its 95% CI

**Secondary Outcome Variable(s):** Vaccine effectiveness in reducing the number of subjects reporting at least one AOM episode with level 1 of diagnosis certainty for the children enrolled between 7 and 11 months of age any time after the administration of first vaccine dose in the 112595 study – 7-11M Schedule (Total Vaccinated cohort for analysis of AOM/RTI effectiveness)

Event Type	Group					Person-year rate			VE		
		N	n+	n	T(year)	n/T (Per 1000)	LL	UL	%	LL	UL
Subjects with at least one AOM episode with level 1 of diagnosis certainty [with documented AOM questionnaire]	10Pn	191	19	117	229.24	510.388	422.105	611.686	15.2	-14.6	36.8
	Ctrl	96	8	71	120.31	590.118	460.887	744.354	-	-	-

10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine

Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine

AOM episode with level 1 of diagnostic certainty = AOM episode defined as AOM event diagnosed by a physician according to the Finnish AOM management guidelines (confirmed cases) and reported by subjects' Parent(s)/guardian(s) regardless the documentation in medical records or other source document.

VE (%) = Vaccine effectiveness (1 minus Relative Risk)

N = total number of subjects

T (year) = sum of follow-up period expressed in years taking into account a defined per-subject end of follow-up

n = number of subjects reporting a AOM episode with level 1 of diagnosis certainty after the administration of first vaccine dose

n+ = number of clusters with at least one event AOM episode with level 1 of diagnosis certainty after the administration of first vaccine dose

n/T (%) = percentage of subjects reporting a AOM episode with level 1 of diagnosis certainty after the administration of first vaccine dose expressed in 1000-child year

95% CI = 95% confidence interval, LL = lower limit, UL = upper limit

Note: A classical log linear Poisson regression model with strata was used to compute the VE and its 95% CI

**Secondary Outcome Variable(s):** Vaccine effectiveness in reducing the number of subjects reporting at least one AOM episode with level 1 of diagnosis certainty for the children enrolled between 12 and 18 months of age any time after the administration of first vaccine dose in the 112595 study – 12-18M Schedule (Total Vaccinated cohort for analysis of AOM/RTI effectiveness)

Event Type	Group					Person-year rate			VE		
		N	n+	n	T(year)	n/T (Per 1000)	LL	UL	%	LL	UL
Subjects with at least one AOM episode with level 1 of diagnosis certainty [with documented AOM questionnaire]	10Pn	286	20	139	232.42	598.065	502.777	706.159	-6.1	-49.0	23.1
	Ctrl	106	8	49	86.39	567.194	419.613	749.861	-	-	-

10Pn Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of 10Pn vaccine

Ctrl Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of HAV vaccine

AOM episode with level 1 of diagnostic certainty = AOM episode defined as AOM event diagnosed by a physician according to the Finnish AOM management guidelines (confirmed cases) and reported by subjects' Parent(s)/guardian(s) regardless the documentation in medical records or other source document.

VE (%) = Vaccine effectiveness (1 minus Relative Risk)  
 N = total number of subjects  
 T (year) = sum of follow-up period expressed in years taking into account a defined per-subject end of follow-up  
 n = number of subjects reporting a AOM episode with level 1 of diagnosis certainty after the administration of first vaccine dose  
 n+ = number of clusters with at least one event AOM episode with level 1 of diagnosis certainty after the administration of first vaccine dose  
 n/T (%) = percentage of subjects reporting a AOM episode with level 1 of diagnosis certainty after the administration of first vaccine dose expressed in 1000-child year  
 95% CI = 95% confidence interval, LL = lower limit, UL = upper limit  
 Note: A classical log linear Poisson regression model with strata was used to compute the VE and its 95% CI

**Secondary Outcome Variable(s):** Vaccine effectiveness in reducing the number of subjects reporting recurrent AOM episode with level 1 of diagnosis certainty for the children enrolled between 6 weeks and 6 months of age any time after the administration of first vaccine dose in the 112595 study – 3+1 and 2+1 schedules (Total Vaccinated cohort for analysis of AOM/RTI effectiveness)

Event Type	Group					Person-year rate			VE		
		N	n+	n	T(year)	n/T (Per 1000)	LL	UL	%	LL	UL
Subjects with recurrent AOM episodes with level 1 of diagnosis certainty [with documented AOM questionnaire]	10Pn3+1	1846	16	278	2764.80	100.550	89.076	113.091	-5.4	-27.4	12.6
	10Pn2+1	942	17	146	1417.36	103.008	86.977	121.137	-5.9	-32.0	18.8
	Ctrl	1329	16	191	2011.68	94.946	81.957	109.407	-	-	-

10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine  
 10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  
 Ctrl Group = Infants enrolled 6 weeks -6 months of age: infants primed with 2 or 3 doses and boosted with HBV vaccine  
 AOM episode with level 1 of diagnostic certainty = AOM episode defined as AOM event diagnosed by a physician according to the Finnish AOM management guidelines (confirmed cases) and reported by subjects' Parent(s)/guardian(s) regardless the documentation in medical records or other source document.

VE (%) = Vaccine effectiveness (1 minus Relative Risk)  
 N = total number of subjects  
 T (year) = sum of follow-up period expressed in years taking into account a defined per-subject end of follow-up  
 n = number of subjects reporting recurrent AOM episode with level 1 of diagnosis certainty after the administration of first vaccine dose  
 n+ = number of clusters with recurrent AOM episode with level 1 of diagnosis certainty after the administration of first vaccine dose  
 n/T (%) = percentage of subjects reporting recurrent AOM episode with level 1 of diagnosis certainty after the administration of first vaccine dose expressed in 1000-child year  
 95% CI = 95% confidence interval, LL = lower limit, UL = upper limit  
 Note:

- For 3+1 schedule, a classical log linear Poisson regression model with strata was used to compute the VE and its 95% CI
- For the 2+1 schedule a Negative Binomial regression model with strata was used to compute the VE and its 95% CI

**Secondary Outcome Variable(s):** Vaccine effectiveness in prevention of recurrent AOM episode with level 1 of diagnosis certainty for the children enrolled between 7 and 11 months of age any time after the administration of first vaccine dose in the 112595 study – 7-11M Schedule (Total Vaccinated cohort for analysis of AOM/RTI effectiveness)

Event Type	Group					Person-year rate			VE		
		N	n+	n	T(year)	n/T (Per 1000)	LL	UL	%	LL	UL
Subjects with recurrent AOM episode with level 1 of diagnosis certainty [with documented AOM questionnaire]	10Pn	191	10	18	229.24	78.521	46.537	124.097	44.2	-11.5	71.8
	Ctrl	96	8	16	120.31	132.984	76.012	215.958	-	-	-

10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  
 Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine  
 AOM episode with level 1 of diagnostic certainty = AOM episode defined as AOM event diagnosed by a physician according to the Finnish AOM management guidelines (confirmed cases) and reported by subjects' Parent(s)/guardian(s) regardless the

documentation in medical records or other source document.  
 Recurrent AOM episode = at least 3 AOM episodes within 6 months or 4 episodes or more within one year. Recurrent AOM was considered to have the diagnostic certainty equal to the minimum level of diagnostic certainty of the individual episodes taken into account for the definition of recurrence.  
 VE (%) = Vaccine effectiveness (1 minus Relative Risk)  
 N = total number of subjects  
 T (year) = sum of follow-up period expressed in years taking into account a defined per-subject end of follow-up  
 n = number of subjects reporting recurrent AOM episode with level 1 of diagnosis certainty after the administration of first vaccine dose  
 n+ = number of clusters with recurrent AOM episode with level 1 of diagnosis certainty after the administration of first vaccine dose  
 n/T (%) = percentage of subjects reporting recurrent AOM episode with level 1 of diagnosis certainty after the administration of first vaccine dose expressed in 1000-child year  
 95% CI = 95% confidence interval, LL = lower limit, UL = upper limit  
 Note: a classical log linear Poisson regression model with strata was used to compute the VE and its 95% CI

**Secondary Outcome Variable(s):** Vaccine effectiveness in prevention of recurrent AOM episode with level 1 of diagnosis certainty for the children enrolled between 12 and 18 months of age any time after the administration of first vaccine dose in the 112595 study – 12-18M Schedule (Total Vaccinated cohort for analysis of AOM/RTI effectiveness)

Event Type	Group					Person-year rate			VE		
		N	n+	n	T(year)	n/T (Per 1000)	LL	UL	%	LL	UL
Recurrent AOM episode with level 1 of diagnosis certainty [with documented AOM questionnaire]	10Pn	286	11	21	232.42	90.355	55.931	138.117	-69.5	-486.2	36.4
	Ctrl	106	2	4	86.39	46.302	12.616	118.550	-	-	-

10Pn Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of 10Pn vaccine  
 Ctrl Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of HAV vaccine  
 AOM episode with level 1 of diagnostic certainty = AOM episode defined as AOM event diagnosed by a physician according to the Finnish AOM management guidelines (confirmed cases) and reported by subjects' Parent(s)/guardian(s) regardless the documentation in medical records or other source document.  
 Recurrent AOM episode = at least 3 AOM episodes within 6 months or 4 episodes or more within one year. Recurrent AOM was considered to have the diagnostic certainty equal to the minimum level of diagnostic certainty of the individual episodes taken into account for the definition of recurrence.  
 VE (%) = Vaccine effectiveness (1 minus Relative Risk)  
 N = total number of subjects  
 T (year) = sum of follow-up period expressed in years taking into account a defined per-subject end of follow-up  
 n = number of subjects reporting recurrent AOM episode with level 1 of diagnosis certainty after the administration of first vaccine dose  
 n+ = number of clusters with recurrent AOM episode with level 1 of diagnosis certainty after the administration of first vaccine dose  
 n/T (%) = percentage of subjects reporting recurrent AOM episode with level 1 of diagnosis certainty after the administration of first vaccine dose expressed in 1000-child year  
 95% CI = 95% confidence interval, LL = lower limit, UL = upper limit  
 Note: a classical log linear Poisson regression model with strata was used to compute the VE and its 95% CI

**Secondary Outcome Variable(s):** Vaccine effectiveness in reducing the number of subjects reporting at least one AOM episode with level 1 of diagnosis certainty and with antimicrobial prescription for the children enrolled between 6 weeks and 6 months of age any time after the administration of the first vaccine dose in the 112595 study – 3+1 and 2+1 schedules (Total Vaccinated cohort for analysis of AOM/RTI effectiveness)

Event Type	Group					Person-year rate			VE		
		N	n+	n	T(year)	n/T (Per 1000)	LL	UL	%	LL	UL
Subjects with at least one AOM episode with level 1 of diagnosis certainty [with documented AOM questionnaire] and with at least one antibiotic taken	10Pn3+1	1846	16	113 3	2764.80	409.795	386.277	434.369	6.1	-2.8	14.2
	10Pn2+1	942	17	579	1417.36	408.505	375.904	443.176	6.4	-4.0	15.8
	Ctrl	1329	17	867	2011.68	430.984	402.769	460.653	-	-	-

10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine

10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  
 Ctrl Group = Infants enrolled 6 weeks -6 months of age: infants primed with 2 or 3 doses and boosted with HBV vaccine  
 AOM episode with level 1 of diagnostic certainty = AOM episode defined as AOM event diagnosed by a physician according to the Finnish AOM management guidelines (confirmed cases) and reported by subjects' Parent(s)/guardian(s) regardless the documentation in medical records or other source document.  
 VE (%) = Vaccine effectiveness (1 minus Relative Risk)  
 N = total number of subjects  
 T (year) = sum of follow-up period expressed in years taking into account a defined per-subject end of follow-up  
 n = number of subjects reporting a AOM episode with level 1 of diagnosis certainty and with antimicrobial prescription after the administration of first vaccine dose  
 n+ = number of clusters with at least one event AOM episode with level 1 of diagnosis certainty and with antimicrobial prescription after the administration of first vaccine dose  
 n/T (%) = percentage of subjects reporting a AOM episode with level 1 of diagnosis certainty and with antimicrobial prescription after the administration of first vaccine dose expressed in 1000-child year  
 95% CI = 95% confidence interval, LL = lower limit, UL = upper limit  
 Note: A classical log linear Poisson regression model with strata was used to compute the VE and its 95% CI

**Secondary Outcome Variable(s):** Vaccine effectiveness in reducing the number of subjects reporting at least one AOM episode with level 1 of diagnosis certainty and with antimicrobial prescription for the children enrolled between 7 and 11 months of age any time after the administration of first vaccine dose in the 112595 study – 7-11M Schedule (Total Vaccinated cohort for analysis of AOM/RTI effectiveness)

Event Type	Group	N	n+	n	T(year)	Person-year rate			VE		
						n/T (Per 1000)	LL	UL	%	LL	UL
Subjects with at least one AOM episode with level 1 of diagnosis certainty [with documented AOM questionnaire] and with at least one antibiotic taken	10Pn	191	19	114	229.24	497.301	410.212	597.410	16.3	-13.4	37.8
	Ctrl	96	8	70	120.31	581.807	453.547	735.078	-	-	-

10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  
 Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine  
 AOM episode with level 1 of diagnostic certainty = AOM episode defined as AOM event diagnosed by a physician according to the Finnish AOM management guidelines (confirmed cases) and reported by subjects' Parent(s)/guardian(s) regardless the documentation in medical records or other source document.  
 VE (%) = Vaccine effectiveness (1 minus Relative Risk)  
 N = total number of subjects  
 T (year) = sum of follow-up period expressed in years taking into account a defined per-subject end of follow-up  
 n = number of subjects reporting a AOM episode with level 1 of diagnosis certainty and with antimicrobial prescription after the administration of first vaccine dose  
 n+ = number of clusters with at least one event AOM episode with level 1 of diagnosis certainty and with antimicrobial prescription after the administration of first vaccine dose  
 n/T (%) = percentage of subjects reporting a AOM episode with level 1 of diagnosis certainty and with antimicrobial prescription after the administration of first vaccine dose expressed in 1000-child year  
 95% CI = 95% confidence interval, LL = lower limit, UL = upper limit  
 Note: a classical log linear Poisson regression model with strata was used to compute the VE and its 95% CI

**Secondary Outcome Variable(s):** Vaccine effectiveness in reducing the number of subjects reporting at least one AOM episode with level 1 of diagnosis certainty and with antimicrobial prescription for the children enrolled between 12 and 18 months of age any time after the administration of first vaccine dose in the 112595 study – 12-18M Schedule (Total Vaccinated cohort for analysis of AOM/RTI effectiveness)

Event Type	Group	N	n+	n	T(year)	Person-year rate			VE		
						n/T (Per 1000)	LL	UL	%	LL	UL
Subjects with at least one AOM episode with level 1 of diagnosis certainty [with documented AOM questionnaire] and with at least one antibiotic taken	10Pn	286	20	138	232.42	593.763	498.833	701.499	-7.5	-51.4	22.3
	Ctrl	106	8	48	86.39	555.619	409.670	736.670	-	-	-

10Pn Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of 10Pn vaccine  
 Ctrl Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of HAV vaccine  
 AOM episode with level 1 of diagnostic certainty = AOM episode defined as AOM event diagnosed by a physician according to the Finnish AOM management guidelines (confirmed cases) and reported by subjects' Parent(s)/guardian(s) regardless the documentation in medical records or other source document.  
 VE (%) = Vaccine effectiveness (1 minus Relative Risk)  
 N = total number of subjects  
 T (year) = sum of follow-up period expressed in years taking into account a defined per-subject end of follow-up  
 n = number of subjects reporting a AOM episode with level 1 of diagnosis certainty and with antimicrobial prescription after the administration of first vaccine dose  
 n+ = number of clusters with at least one event AOM episode with level 1 of diagnosis certainty and with antimicrobial prescription after the administration of first vaccine dose  
 n/T (%) = percentage of subjects reporting a AOM episode with level 1 of diagnosis certainty and with antimicrobial prescription after the administration of first vaccine dose expressed in 1000-child year  
 95% CI = 95% confidence interval, LL = lower limit, UL = upper limit  
 Note: a classical log linear Poisson regression model with strata was used to compute the VE and its 95% CI

**Secondary Outcome Variable(s):** Number (%) of subjects reporting solicited local symptoms during the 4-day (Days 0-3) post-primary vaccination following each dose and across doses – Subjects in the 3+1 Schedule enrolled aged 6 weeks to 6 months (Total Vaccinated cohort for analysis of safety and carriage)

		10Pn3+1 Group					Ctrl3+1 Group				
					95 % CI					95 % CI	
Symptom	Intensity	N	n	%	LL	UL	N	n	%	LL	UL
<b>Dose 1</b>											
Pain	Any	1846	807	43.7	41.4	46.0	1066	146	13.7	11.7	15.9
	Grade 3	1846	60	3.3	2.5	4.2	1066	2	0.2	0.0	0.7
Redness	Any	1846	936	50.7	48.4	53.0	1066	270	25.3	22.7	28.1
	>30 mm	1846	56	3.0	2.3	3.9	1066	3	0.3	0.1	0.8
Swelling	Any	1846	636	34.5	32.3	36.7	1066	88	8.3	6.7	10.1
	>30 mm	1846	89	4.8	3.9	5.9	1066	4	0.4	0.1	1.0
<b>Dose 2</b>											
Pain	Any	1827	662	36.2	34.0	38.5	1056	114	10.8	9.0	12.8
	Grade 3	1827	23	1.3	0.8	1.9	1056	2	0.2	0.0	0.7
Redness	Any	1827	996	54.5	52.2	56.8	1056	254	24.1	21.5	26.7
	>30 mm	1827	48	2.6	1.9	3.5	1056	3	0.3	0.1	0.8
Swelling	Any	1827	686	37.5	35.3	39.8	1056	114	10.8	9.0	12.8
	>30 mm	1827	67	3.7	2.9	4.6	1056	4	0.4	0.1	1.0
<b>Dose 3</b>											
Pain	Any	1808	538	29.8	27.7	31.9	1052	102	9.7	8.0	11.6
	Grade 3	1808	12	0.7	0.3	1.2	1052	2	0.2	0.0	0.7
Redness	Any	1808	963	53.3	50.9	55.6	1052	300	28.5	25.8	31.4
	>30 mm	1808	52	2.9	2.2	3.8	1052	0	0.0	0.0	0.4
Swelling	Any	1808	676	37.4	35.2	39.7	1052	144	13.7	11.7	15.9
	>30 mm	1808	62	3.4	2.6	4.4	1052	1	0.1	0.0	0.5
<b>Across Doses</b>											
Pain	Any	1846	1163	63.0	60.8	65.2	1067	253	23.7	21.2	26.4
	Grade 3	1846	82	4.4	3.5	5.5	1067	5	0.5	0.2	1.1
Redness	Any	1846	1414	76.6	74.6	78.5	1067	479	44.9	41.9	47.9
	>30 mm	1846	135	7.3	6.2	8.6	1067	6	0.6	0.2	1.2
Swelling	Any	1846	1098	59.5	57.2	61.7	1067	259	24.3	21.7	27.0
	>30 mm	1846	175	9.5	8.2	10.9	1067	9	0.8	0.4	1.6

10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine  
 Ctrl3+1 Group= Infants enrolled 6 weeks -6 months of age: infants primed with 3 doses and boosted with HBV vaccine  
 N= number of subjects with at least one documented dose  
 n/%= number/percentage of subjects reporting the symptom at least once  
 Any = occurrence of any solicited local symptom regardless of intensity grade  
 Grade 3 Pain = cried when limb was moved/spontaneously painful.  
 95%CI = Exact 95% confidence interval; LL = lower limit, UL = upper limit

**Secondary Outcome Variable(s):** Number (%) of subjects reporting solicited local symptoms during the 4-day (Days 0-3) post-primary vaccination following each dose and across doses – Subjects in the 2+1 Schedule enrolled aged 6 weeks to 6 months groups (Total Vaccinated cohort for analysis of safety and carriage)

		10Pn2+1 Group					Ctrl2+1 Group				
					95 % CI					95 % CI	
Symptom	Intensity	N	n	%	LL	UL	N	n	%	LL	UL
<b>Dose 1</b>											
Pain	Any	1302	611	46.9	44.2	49.7	852	106	12.4	10.3	14.8
	Grade 3	1302	43	3.3	2.4	4.4	852	3	0.4	0.1	1.0
Redness	Any	1302	675	51.8	49.1	54.6	852	214	25.1	22.2	28.2
	>30 mm	1302	48	3.7	2.7	4.9	852	0	0.0	0.0	0.4
Swelling	Any	1302	471	36.2	33.6	38.9	852	64	7.5	5.8	9.5
	>30 mm	1302	69	5.3	4.1	6.7	852	1	0.1	0.0	0.7
<b>Dose 2</b>											
Pain	Any	1287	509	39.5	36.9	42.3	847	94	11.1	9.1	13.4
	Grade 3	1287	28	2.2	1.5	3.1	847	1	0.1	0.0	0.7
Redness	Any	1287	690	53.6	50.8	56.4	847	203	24.0	21.1	27.0
	>30 mm	1287	63	4.9	3.8	6.2	847	0	0.0	0.0	0.4
Swelling	Any	1287	536	41.6	38.9	44.4	847	79	9.3	7.5	11.5
	>30 mm	1287	91	7.1	5.7	8.6	847	1	0.1	0.0	0.7
<b>Across Doses</b>											
Pain	Any	1303	790	60.6	57.9	63.3	852	159	18.7	16.1	21.4
	Grade 3	1303	63	4.8	3.7	6.1	852	4	0.5	0.1	1.2
Redness	Any	1303	923	70.8	68.3	73.3	852	303	35.6	32.3	38.9
	>30 mm	1303	100	7.7	6.3	9.3	852	0	0.0	0.0	0.4
Swelling	Any	1303	707	54.3	51.5	57.0	852	127	14.9	12.6	17.5
	>30 mm	1303	140	10.7	9.1	12.6	852	2	0.2	0.0	0.8

10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine

Ctrl 2+1 Group= Infants enrolled 6 weeks -6 months of age: infants primed with 2 doses and boosted with HBV vaccine

N= number of subjects with at least one documented dose

n/%= number/percentage of subjects reporting the symptom at least once

Any = occurrence of any solicited local symptom regardless of intensity grade

Grade 3 Pain = cried when limb was moved/spontaneously painful.

95% CI= Exact 95% confidence interval; LL = lower limit, UL = upper limit

**Secondary Outcome Variable(s):** Number (%) of subjects reporting solicited local symptoms reported during the 4-day (Days 0-3) post-primary vaccination following each dose and across doses – Subjects enrolled aged 7 to 11 months (Total Vaccinated cohort for analysis of safety and carriage)

		10PnGroup					Ctrl Group				
					95 % CI					95 % CI	
Symptom	Intensity	N	n	%	LL	UL	N	n	%	LL	UL
<b>Dose 1</b>											
Pain	Any	237	120	50.6	44.1	57.2	202	33	16.3	11.5	22.2
	Grade 3	237	6	2.5	0.9	5.4	202	0	0.0	0.0	1.8
Redness	Any	237	137	57.8	51.2	64.2	202	48	23.8	18.1	30.2
	>30 mm	237	17	7.2	4.2	11.2	202	0	0.0	0.0	1.8
Swelling	Any	237	107	45.1	38.7	51.7	202	19	9.4	5.8	14.3
	>30 mm	237	20	8.4	5.2	12.7	202	0	0.0	0.0	1.8
<b>Dose 2</b>											
Pain	Any	229	108	47.2	40.6	53.8	199	38	19.1	13.9	25.3
	Grade 3	229	11	4.8	2.4	8.4	199	0	0.0	0.0	1.8
Redness	Any	229	124	54.1	47.5	60.7	199	57	28.6	22.5	35.5
	>30 mm	229	21	9.2	5.8	13.7	199	0	0.0	0.0	1.8
Swelling	Any	229	98	42.8	36.3	49.5	199	18	9.0	5.4	13.9
	>30 mm	229	19	8.3	5.1	12.7	199	0	0.0	0.0	1.8
<b>Across Doses</b>											
Pain	Any	237	148	62.4	55.9	68.6	202	58	28.7	22.6	35.5

	Grade 3	237	15	6.3	3.6	10.2	202	0	0.0	0.0	1.8
Redness	Any	237	165	69.6	63.3	75.4	202	77	38.1	31.4	45.2
	>30 mm	237	32	13.5	9.4	18.5	202	0	0.0	0.0	1.8
Swelling	Any	237	138	58.2	51.7	64.6	202	29	14.4	9.8	20.0
	>30 mm	237	34	14.3	10.1	19.5	202	0	0.0	0.0	1.8
<p>10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine  N = number of subjects with at least one documented dose  n/% = number/percentage of subjects reporting the symptom at least once  Any = occurrence of any solicited local symptom regardless of intensity grade  Grade 3 Pain = cried when limb was moved/spontaneously painful.  95%CI = Exact 95% confidence interval; LL = lower limit, UL = upper limit</p>											
<p><b>Secondary Outcome Variable(s):</b> Number (%) of subjects reporting solicited local symptoms reported during the 4-day (Days 0-3) post-vaccination following each dose and across doses – Subjects enrolled aged 12 to 18 months (Total Vaccinated cohort for analysis of safety and carriage)</p>											
		10Pn Group					Ctrl Group				
					95 % CI					95 % CI	
<b>Symptom</b>	<b>Intensity</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>
<b>Dose 1</b>											
Pain	Any	363	220	60.6	55.4	65.7	270	65	24.1	19.1	29.6
	Grade 3	363	19	5.2	3.2	8.1	270	0	0.0	0.0	1.4
Redness	Any	363	203	55.9	50.6	61.1	270	93	34.4	28.8	40.4
	>30 mm	363	39	10.7	7.8	14.4	270	0	0.0	0.0	1.4
Swelling	Any	363	142	39.1	34.1	44.3	270	25	9.3	6.1	13.4
	>30 mm	363	35	9.6	6.8	13.2	270	1	0.4	0.0	2.0
<b>Dose 2</b>											
Pain	Any	345	242	70.1	65.0	74.9	260	78	30.0	24.5	36.0
	Grade 3	345	45	13.0	9.7	17.1	260	0	0.0	0.0	1.4
Redness	Any	345	193	55.9	50.5	61.3	260	85	32.7	27.0	38.8
	>30 mm	345	49	14.2	10.7	18.3	260	1	0.4	0.0	2.1
Swelling	Any	345	148	42.9	37.6	48.3	260	26	10.0	6.6	14.3
	>30 mm	345	34	9.9	6.9	13.5	260	0	0.0	0.0	1.4
<b>Across Doses</b>											
Pain	Any	363	300	82.6	78.3	86.4	270	116	43.0	37.0	49.1
	Grade 3	363	61	16.8	13.1	21.1	270	0	0.0	0.0	1.4
Redness	Any	363	265	73.0	68.1	77.5	270	129	47.8	41.7	53.9
	>30 mm	363	76	20.9	16.9	25.5	270	1	0.4	0.0	2.0
Swelling	Any	363	209	57.6	52.3	62.7	270	42	15.6	11.4	20.4
	>30 mm	363	60	16.5	12.9	20.8	270	1	0.4	0.0	2.0
<p>10Pn Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of 10Pn vaccine  Ctrl Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of HAV vaccine  N = number of subjects with at least one documented dose  n/% = number/percentage of subjects reporting the symptom at least once  Any = occurrence of any solicited local symptom regardless of intensity grade  Grade 3 Pain = cried when limb was moved/spontaneously painful.  95%CI = Exact 95% confidence interval; LL = lower limit, UL = upper limit</p>											
<p><b>Secondary Outcome Variable(s):</b> Number (%) of subjects reporting solicited local symptoms during the 4-day (Days 0-3) post-booster vaccination – Subjects enrolled aged 6 weeks to 6 months and 7 to 11 months (Total Vaccinated cohort for analysis of safety and carriage)</p>											
		<b>Subjects enrolled aged 6 weeks to 6 months</b>									
		10Pn3+1 Group					Ctrl3+1 Group				
					95 % CI					95 % CI	
<b>Symptom</b>	<b>Intensity</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>
Pain	Any	1758	888	50.5	48.1	52.9	1024	250	24.4	21.8	27.2
	Grade 3	1758	66	3.8	2.9	4.8	1024	2	0.2	0.0	0.7
Redness	Any	1758	913	51.9	49.6	54.3	1024	345	33.7	30.8	36.7
	>30 mm	1758	102	5.8	4.8	7.0	1024	13	1.3	0.7	2.2

Swelling	Any	1758	716	40.7	38.4	43.1	1024	229	22.4	19.8	25.0
	>30 mm	1758	102	5.8	4.8	7.0	1024	10	1.0	0.5	1.8
		<b>10Pn2+1 Group</b>					<b>Ctrl2+1 Group</b>				
		<b>95 % CI</b>					<b>95 % CI</b>				
<b>Symptom</b>	<b>Intensity</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>
Pain	Any	1258	710	56.4	53.6	59.2	827	171	20.7	18.0	23.6
	Grade 3	1258	41	3.3	2.3	4.4	827	2	0.2	0.0	0.9
Redness	Any	1258	702	55.8	53.0	58.6	827	238	28.8	25.7	32.0
	>30 mm	1258	103	8.2	6.7	9.8	827	2	0.2	0.0	0.9
Swelling	Any	1258	586	46.6	43.8	49.4	827	118	14.3	12.0	16.8
	>30 mm	1258	111	8.8	7.3	10.5	827	3	0.4	0.1	1.1
		<b>Subjects enrolled aged 7 to 11 months</b>									
		<b>10Pn Group</b>					<b>Ctrl Group</b>				
		<b>95 % CI</b>					<b>95 % CI</b>				
<b>Symptom</b>	<b>Intensity</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>
Pain	Any	216	123	56.9	50.1	63.6	188	40	21.3	15.7	27.8
	Grade 3	216	14	6.5	3.6	10.6	188	2	1.1	0.1	3.8
Redness	Any	216	106	49.1	42.2	55.9	188	54	28.7	22.4	35.8
	>30 mm	216	18	8.3	5.0	12.9	188	0	0.0	0.0	1.9
Swelling	Any	216	85	39.4	32.8	46.2	188	31	16.5	11.5	22.6
	>30 mm	216	14	6.5	3.6	10.6	188	0	0.0	0.0	1.9
Groups for subjects enrolled aged 6 weeks to 6 months											
- 10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine											
- Ctrl3+1 Group= Infants enrolled 6 weeks -6 months of age: infants primed with 3 doses and boosted with HBV vaccine											
- 10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine											
- Ctrl 2+1 Group= Infants enrolled 6 weeks -6 months of age: infants primed with 2 doses and boosted with HBV vaccine											
Groups for subjects enrolled aged 7 to 11 months											
- 10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine											
- Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine											
N = number of subjects with the documented dose											
n/% = number/percentage of subjects reporting the symptom at least once											
Any = occurrence of any solicited local symptom regardless of their intensity grade											
Grade 3 Pain = cried when limb was moved/spontaneously painful.											
95%CI = Exact 95% confidence interval; LL = lower limit, UL = upper limit											
<b>Secondary Outcome Variable(s):</b> Number (%) of subjects reporting solicited general symptoms reported during the 4-day (Days 0-3) post-primary vaccination following each dose and across doses – Subjects in the 3+1 Schedule enrolled aged 6 weeks to 6 months (Total Vaccinated cohort for analysis of safety and carriage)											
		<b>10Pn3+1 Group</b>					<b>Ctrl3+1 Group</b>				
		<b>95 % CI</b>					<b>95 % CI</b>				
<b>Symptom</b>	<b>Intensity/Relationship</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>
<b>Dose 1</b>											
Drowsiness	Any	1846	1070	58.0	55.7	60.2	1066	462	43.3	40.3	46.4
	Grade 3	1846	11	0.6	0.3	1.1	1066	5	0.5	0.2	1.1
	Related	1846	1054	57.1	54.8	59.4	1066	453	42.5	39.5	45.5
Irritability	Any	1846	1325	71.8	69.7	73.8	1066	577	54.1	51.1	57.2
	Grade 3	1846	76	4.1	3.3	5.1	1066	20	1.9	1.1	2.9
	Related	1846	1298	70.3	68.2	72.4	1066	565	53.0	50.0	56.0
Loss of appetite	Any	1846	499	27.0	25.0	29.1	1066	202	18.9	16.6	21.4
	Grade 3	1846	1	0.1	0.0	0.3	1066	2	0.2	0.0	0.7
	Related	1846	480	26.0	24.0	28.1	1066	196	18.4	16.1	20.8
Temperature (Rectally)	≥ 38.0°C	1846	388	21.0	19.2	22.9	1066	82	7.7	6.2	9.5
	> 40.0°C	1846	2	0.1	0.0	0.4	1066	1	0.1	0.0	0.5
	Related	1846	381	20.6	18.8	22.6	1066	78	7.3	5.8	9.0

<b>Dose 2</b>											
Drowsiness	Any	1828	868	47.5	45.2	49.8	1056	332	31.4	28.6	34.3
	Grade 3	1828	7	0.4	0.2	0.8	1056	1	0.1	0.0	0.5
	Related	1828	855	46.8	44.5	49.1	1056	329	31.2	28.4	34.0
Irritability	Any	1828	1254	68.6	66.4	70.7	1056	532	50.4	47.3	53.4
	Grade 3	1828	73	4.0	3.1	5.0	1056	13	1.2	0.7	2.1
	Related	1828	1236	67.6	65.4	69.8	1056	523	49.5	46.5	52.6
Loss of appetite	Any	1828	434	23.7	21.8	25.8	1056	187	17.7	15.5	20.1
	Grade 3	1828	4	0.2	0.1	0.6	1056	1	0.1	0.0	0.5
	Related	1828	419	22.9	21.0	24.9	1056	181	17.1	14.9	19.6
Temperature (Rectally)	≥ 38.0°C	1828	380	20.8	18.9	22.7	1056	78	7.4	5.9	9.1
	> 40.0°C	1828	2	0.1	0.0	0.4	1056	0	0.0	0.0	0.3
	Related	1828	373	20.4	18.6	22.3	1056	78	7.4	5.9	9.1
<b>Dose 3</b>											
Drowsiness	Any	1808	645	35.7	33.5	37.9	1052	293	27.9	25.2	30.7
	Grade 3	1808	2	0.1	0.0	0.4	1052	2	0.2	0.0	0.7
	Related	1808	638	35.3	33.1	37.5	1052	285	27.1	24.4	29.9
Irritability	Any	1808	1115	61.7	59.4	63.9	1052	496	47.1	44.1	50.2
	Grade 3	1808	41	2.3	1.6	3.1	1052	14	1.3	0.7	2.2
	Related	1808	1100	60.8	58.5	63.1	1052	492	46.8	43.7	49.8
Loss of appetite	Any	1808	349	19.3	17.5	21.2	1052	178	16.9	14.7	19.3
	Grade 3	1808	3	0.2	0.0	0.5	1052	0	0.0	0.0	0.4
	Related	1808	336	18.6	16.8	20.5	1052	172	16.3	14.2	18.7
Temperature (Rectally)	≥ 38.0°C	1808	347	19.2	17.4	21.1	1052	110	10.5	8.7	12.5
	> 40.0°C	1808	1	0.1	0.0	0.3	1052	1	0.1	0.0	0.5
	Related	1808	336	18.6	16.8	20.5	1052	106	10.1	8.3	12.1
<b>Across Doses</b>											
Drowsiness	Any	1846	1395	75.6	73.5	77.5	1067	658	61.7	58.7	64.6
	Grade 3	1846	18	1.0	0.6	1.5	1067	6	0.6	0.2	1.2
	Related	1846	1386	75.1	73.0	77.0	1067	649	60.8	57.8	63.8
Irritability	Any	1846	1697	91.9	90.6	93.1	1067	861	80.7	78.2	83.0
	Grade 3	1846	168	9.1	7.8	10.5	1067	43	4.0	2.9	5.4
	Related	1846	1689	91.5	90.1	92.7	1067	854	80.0	77.5	82.4
Loss of appetite	Any	1846	858	46.5	44.2	48.8	1067	409	38.3	35.4	41.3
	Grade 3	1846	8	0.4	0.2	0.9	1067	3	0.3	0.1	0.8
	Related	1846	839	45.4	43.2	47.8	1067	398	37.3	34.4	40.3
Temperature (Rectally)	≥ 38.0°C	1846	819	44.4	42.1	46.7	1067	240	22.5	20.0	25.1
	> 40.0°C	1846	5	0.3	0.1	0.6	1067	2	0.2	0.0	0.7
	Related	1846	807	43.7	41.4	46.0	1067	232	21.7	19.3	24.3
<p>10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine  Ctrl3+1 Group= Infants enrolled 6 weeks -6 months of age: infants primed with 3 doses and boosted with HBV vaccine  N = number of subjects with at least one documented dose  n/% = number/percentage of subjects reporting the symptom at least once  Any = occurrence of any solicited general symptom regardless of their intensity grade or relationship to vaccination  Related = event assessed by the investigator as causally related to the study vaccination  Grade 3 Drowsiness = drowsiness that prevented normal activity.  Grade 3 Loss of appetite = not eating at all.  Grade 3 Irritability = crying that could not be comforted/ prevented normal activity.  95%CI = Exact 95% confidence interval; LL = lower limit, UL = upper limit</p>											
<b>Secondary Outcome Variable(s):</b> Number (%) of subjects reporting solicited general symptoms during the 4-day (Days 0-3) post-primary vaccination following each dose and across doses – Subjects in the 2+1 Schedule enrolled aged 6 weeks to 6 months (Total Vaccinated cohort for analysis of safety and carriage)											
		10Pn2+1 Group					Ctrl2+1 Group				
					95 % CI					95 % CI	
Symptom	Intensity/Relationship	N	n	%	LL	UL	N	n	%	LL	UL
<b>Dose 1</b>											
Drowsiness	Any	1302	742	57.0	54.2	59.7	852	384	45.1	41.7	48.5

	Grade 3	1302	8	0.6	0.3	1.2	852	1	0.1	0.0	0.7
	Related	1302	738	56.7	53.9	59.4	852	374	43.9	40.5	47.3
Irritability	Any	1302	942	72.4	69.8	74.8	852	468	54.9	51.5	58.3
	Grade 3	1302	56	4.3	3.3	5.5	852	14	1.6	0.9	2.7
	Related	1302	937	72.0	69.4	74.4	852	460	54.0	50.6	57.4
Loss of appetite	Any	1302	335	25.7	23.4	28.2	852	147	17.3	14.8	20.0
	Grade 3	1302	3	0.2	0.0	0.7	852	0	0.0	0.0	0.4
	Related	1302	332	25.5	23.2	28.0	852	140	16.4	14.0	19.1
Temperature (Rectally)	≥ 38.0°C	1302	289	22.2	20.0	24.6	852	78	9.2	7.3	11.3
	> 40.0°C	1302	0	0.0	0.0	0.3	852	0	0.0	0.0	0.4
	Related	1302	284	21.8	19.6	24.2	852	74	8.7	6.9	10.8

**Dose 2**

Drowsiness	Any	1287	572	44.4	41.7	47.2	847	258	30.5	27.4	33.7
	Grade 3	1287	6	0.5	0.2	1.0	847	3	0.4	0.1	1.0
	Related	1287	564	43.8	41.1	46.6	847	247	29.2	26.1	32.4
Irritability	Any	1287	822	63.9	61.2	66.5	847	408	48.2	44.8	51.6
	Grade 3	1287	44	3.4	2.5	4.6	847	14	1.7	0.9	2.8
	Related	1287	816	63.4	60.7	66.0	847	396	46.8	43.4	50.2
Loss of appetite	Any	1287	323	25.1	22.7	27.6	847	149	17.6	15.1	20.3
	Grade 3	1287	2	0.2	0.0	0.6	847	3	0.4	0.1	1.0
	Related	1287	318	24.7	22.4	27.2	847	135	15.9	13.5	18.6
Temperature (Rectally)	≥ 38.0°C	1287	382	29.7	27.2	32.3	847	80	9.4	7.6	11.6
	> 40.0°C	1287	0	0.0	0.0	0.3	847	0	0.0	0.0	0.4
	Related	1287	378	29.4	26.9	31.9	847	71	8.4	6.6	10.5

**Across Doses**

Drowsiness	Any	1303	909	69.8	67.2	72.2	852	472	55.4	52.0	58.8
	Grade 3	1303	13	1.0	0.5	1.7	852	3	0.4	0.1	1.0
	Related	1303	904	69.4	66.8	71.9	852	459	53.9	50.5	57.3
Irritability	Any	1303	1118	85.8	83.8	87.7	852	615	72.2	69.0	75.2
	Grade 3	1303	91	7.0	5.7	8.5	852	27	3.2	2.1	4.6
	Related	1303	1114	85.5	83.5	87.4	852	606	71.1	68.0	74.2
Loss of appetite	Any	1303	521	40.0	37.3	42.7	852	248	29.1	26.1	32.3
	Grade 3	1303	5	0.4	0.1	0.9	852	3	0.4	0.1	1.0
	Related	1303	517	39.7	37.0	42.4	852	233	27.3	24.4	30.5
Temperature (Rectally)	≥ 38.0°C	1303	521	40.0	37.3	42.7	852	140	16.4	14.0	19.1
	> 40.0°C	1303	0	0.0	0.0	0.3	852	0	0.0	0.0	0.4
	Related	1303	515	39.5	36.9	42.2	852	129	15.1	12.8	17.7

10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine

Ctrl 2+1 Group= Infants enrolled 6 weeks -6 months of age: infants primed with 2 doses and boosted with HBV vaccine

N = number of subjects with at least one documented dose

n/% = number/percentage of subjects reporting the symptom at least once

Any = occurrence of any solicited general symptom regardless of their intensity grade or relationship to vaccination

Related = event assessed by the investigator as causally related to the study vaccination

Grade 3 Drowsiness = drowsiness that prevented normal activity.

Grade 3 Loss of appetite = not eating at all.

Grade 3 Irritability = crying that could not be comforted/ prevented normal activity

95%CI = Exact 95% confidence interval; LL = lower limit, UL = upper limit

**Secondary Outcome Variable(s):** Number (%) of subjects reporting solicited general symptoms during the 4-day (Days 0-3) post-primary vaccination following each dose and across doses – Subjects enrolled aged 7 to 11 months (Total Vaccinated cohort for analysis of safety and carriage)

		10Pn Group					Ctrl Group				
					95 % CI					95 % CI	
Symptom	Intensity/Relationship	N	n	%	LL	UL	N	n	%	LL	UL
<b>Dose 1</b>											
Drowsiness	Any	237	106	44.7	38.3	51.3	202	62	30.7	24.4	37.6
	Grade 3	237	1	0.4	0.0	2.3	202	0	0.0	0.0	1.8

	Related	237	103	43.5	37.1	50.0	202	57	28.2	22.1	35.0
Irritability	Any	237	157	66.2	59.8	72.2	202	90	44.6	37.6	51.7
	Grade 3	237	3	1.3	0.3	3.7	202	2	1.0	0.1	3.5
	Related	237	157	66.2	59.8	72.2	202	83	41.1	34.2	48.2
Loss of appetite	Any	237	84	35.4	29.4	41.9	202	56	27.7	21.7	34.4
	Grade 3	237	0	0.0	0.0	1.5	202	1	0.5	0.0	2.7
	Related	237	81	34.2	28.2	40.6	202	48	23.8	18.1	30.2
Temperature (Rectally)	≥ 38.0°C	237	38	16.0	11.6	21.3	202	16	7.9	4.6	12.5
	> 40.0°C	237	0	0.0	0.0	1.5	202	0	0.0	0.0	1.8
	Related	237	35	14.8	10.5	19.9	202	13	6.4	3.5	10.8

#### Dose 2

Drowsiness	Any	229	88	38.4	32.1	45.1	198	52	26.3	20.3	33.0
	Grade 3	229	2	0.9	0.1	3.1	198	1	0.5	0.0	2.8
	Related	229	85	37.1	30.8	43.7	198	51	25.8	19.8	32.4
Irritability	Any	229	139	60.7	54.0	67.1	198	94	47.5	40.4	54.7
	Grade 3	229	7	3.1	1.2	6.2	198	1	0.5	0.0	2.8
	Related	229	137	59.8	53.2	66.2	198	93	47.0	39.9	54.2
Loss of appetite	Any	229	69	30.1	24.3	36.5	198	56	28.3	22.1	35.1
	Grade 3	229	2	0.9	0.1	3.1	198	0	0.0	0.0	1.8
	Related	229	64	27.9	22.2	34.2	198	52	26.3	20.3	33.0
Temperature (Rectally)	≥ 38.0°C	229	44	19.2	14.3	24.9	198	20	10.1	6.3	15.2
	> 40.0°C	229	0	0.0	0.0	1.6	198	1	0.5	0.0	2.8
	Related	229	43	18.8	13.9	24.4	198	15	7.6	4.3	12.2

#### Across Doses

Drowsiness	Any	237	135	57.0	50.4	63.4	202	89	44.1	37.1	51.2
	Grade 3	237	3	1.3	0.3	3.7	202	1	0.5	0.0	2.7
	Related	237	133	56.1	49.5	62.5	202	84	41.6	34.7	48.7
Irritability	Any	237	191	80.6	75.0	85.4	202	134	66.3	59.4	72.8
	Grade 3	237	10	4.2	2.0	7.6	202	3	1.5	0.3	4.3
	Related	237	191	80.6	75.0	85.4	202	130	64.4	57.3	71.0
Loss of appetite	Any	237	118	49.8	43.3	56.3	202	86	42.6	35.7	49.7
	Grade 3	237	2	0.8	0.1	3.0	202	1	0.5	0.0	2.7
	Related	237	111	46.8	40.3	53.4	202	80	39.6	32.8	46.7
Temperature (Rectally)	≥ 38.0°C	237	73	30.8	25.0	37.1	202	36	17.8	12.8	23.8
	> 40.0°C	237	0	0.0	0.0	1.5	202	1	0.5	0.0	2.7
	Related	237	70	29.5	23.8	35.8	202	28	13.9	9.4	19.4

10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine

Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine

N = number of subjects with at least one documented dose

n/% = number/percentage of subjects reporting the symptom at least once

Any = occurrence of any solicited general symptom regardless of their intensity grade or relationship to vaccination

Related = event assessed by the investigator as causally related to the study vaccination

Grade 3 Drowsiness = drowsiness that prevented normal activity

Grade 3 Loss of appetite = not eating at all.

Grade 3 Irritability = crying that could not be comforted/ prevented normal activity.

95%CI = Exact 95% confidence interval; LL = lower limit, UL = upper limit

**Secondary Outcome Variable(s):** Number (%) of subjects reporting solicited general symptoms during the 4-day (Days 0-3) post-vaccination following each dose and across doses – Subjects enrolled aged 12 to 18 months (Total Vaccinated cohort for analysis of safety and carriage)

		10Pn Group					Ctrl Group				
					95 % CI					95 % CI	
Symptom	Intensity/Relationship	N	n	%	LL	UL	N	n	%	LL	UL
<b>Dose 1</b>											
Drowsiness	Any	363	155	42.7	37.6	48.0	270	87	32.2	26.7	38.2
	Grade 3	363	1	0.3	0.0	1.5	270	2	0.7	0.1	2.7
	Related	363	152	41.9	36.7	47.1	270	81	30.0	24.6	35.8
Irritability	Any	363	210	57.9	52.6	63.0	270	103	38.1	32.3	44.2

	Grade 3	363	6	1.7	0.6	3.6	270	4	1.5	0.4	3.7
	Related	363	201	55.4	50.1	60.6	270	96	35.6	29.8	41.6
Loss of appetite	Any	363	128	35.3	30.3	40.4	270	82	30.4	24.9	36.2
	Grade 3	363	2	0.6	0.1	2.0	270	4	1.5	0.4	3.7
	Related	363	123	33.9	29.0	39.0	270	73	27.0	21.8	32.8
Temperature (Rectally)	≥ 38.0°C	363	74	20.4	16.4	24.9	270	28	10.4	7.0	14.6
	> 40.0°C	363	2	0.6	0.1	2.0	270	2	0.7	0.1	2.7
	Related	363	69	19.0	15.1	23.4	270	25	9.3	6.1	13.4
<b>Dose 2</b>											
Drowsiness	Any	345	126	36.5	31.4	41.8	260	58	22.3	17.4	27.9
	Grade 3	345	2	0.6	0.1	2.1	260	1	0.4	0.0	2.1
	Related	345	123	35.7	30.6	41.0	260	55	21.2	16.4	26.6
Irritability	Any	345	193	55.9	50.5	61.3	260	72	27.7	22.3	33.6
	Grade 3	345	3	0.9	0.2	2.5	260	0	0.0	0.0	1.4
	Related	345	191	55.4	49.9	60.7	260	71	27.3	22.0	33.2
Loss of appetite	Any	345	109	31.6	26.7	36.8	260	57	21.9	17.0	27.5
	Grade 3	345	2	0.6	0.1	2.1	260	1	0.4	0.0	2.1
	Related	345	105	30.4	25.6	35.6	260	54	20.8	16.0	26.2
Temperature (Rectally)	≥ 38.0°C	345	55	15.9	12.2	20.2	260	11	4.2	2.1	7.4
	> 40.0°C	345	2	0.6	0.1	2.1	260	1	0.4	0.0	2.1
	Related	345	53	15.4	11.7	19.6	260	8	3.1	1.3	6.0
<b>Across Doses</b>											
Drowsiness	Any	363	214	59.0	53.7	64.1	270	118	43.7	37.7	49.8
	Grade 3	363	3	0.8	0.2	2.4	270	3	1.1	0.2	3.2
	Related	363	212	58.4	53.1	63.5	270	111	41.1	35.2	47.2
Irritability	Any	363	282	77.7	73.0	81.9	270	140	51.9	45.7	57.9
	Grade 3	363	9	2.5	1.1	4.7	270	4	1.5	0.4	3.7
	Related	363	280	77.1	72.5	81.4	270	137	50.7	44.6	56.9
Loss of appetite	Any	363	190	52.3	47.1	57.6	270	117	43.3	37.3	49.5
	Grade 3	363	4	1.1	0.3	2.8	270	5	1.9	0.6	4.3
	Related	363	185	51.0	45.7	56.2	270	109	40.4	34.5	46.5
Temperature (Rectally)	≥ 38.0°C	363	110	30.3	25.6	35.3	270	38	14.1	10.2	18.8
	> 40.0°C	363	4	1.1	0.3	2.8	270	3	1.1	0.2	3.2
	Related	363	105	28.9	24.3	33.9	270	32	11.9	8.2	16.3
<p>10Pn Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of 10Pn vaccine  Ctrl Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of HAV vaccine  N = number of subjects with at least one documented dose  n/% = number/percentage of subjects reporting the symptom at least once  Any = occurrence of any solicited general symptom regardless of their intensity grade or relationship to vaccination  Related = event assessed by the investigator as causally related to the study vaccination  Grade 3 Drowsiness = drowsiness that prevented normal activity  Grade 3 Loss of appetite = not eating at all.  Grade 3 Irritability = crying that could not be comforted/ prevented normal activity  95%CI = Exact 95% confidence interval; LL = lower limit, UL = upper limit</p>											
<b>Secondary Outcome Variable(s):</b> Number (%) of subjects reporting solicited general symptoms during the 4-day (Days 0-3) post-booster vaccination – Subjects enrolled aged 6 weeks to 6 months and 7 to 11 months (Total Vaccinated cohort for analysis of safety and carriage)											
		<b>Subjects enrolled aged 6 weeks to 6 months</b>									
		<b>10Pn3+1 Group</b>					<b>Ctrl3+1 Group</b>				
		<b>95 % CI</b>					<b>95 % CI</b>				
<b>Symptom</b>	<b>Intensity/Relationship</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>
Drowsiness	Any	1757	721	41.0	38.7	43.4	1024	307	30.0	27.2	32.9
	Grade 3	1757	8	0.5	0.2	0.9	1024	3	0.3	0.1	0.9
	Related	1757	699	39.8	37.5	42.1	1024	300	29.3	26.5	32.2
Irritability	Any	1757	1124	64.0	61.7	66.2	1024	491	47.9	44.9	51.1
	Grade 3	1757	47	2.7	2.0	3.5	1024	14	1.4	0.7	2.3
	Related	1757	1085	61.8	59.4	64.0	1024	481	47.0	43.9	50.1

Loss of appetite	Any	1757	549	31.1	29.1	33.5	1024	260	25.4	22.7	28.2
	Grade 3	1757	12	0.7	0.4	1.2	1024	6	0.6	0.2	1.3
	Related	1757	513	29.2	27.1	31.4	1024	253	24.7	22.1	27.5
Temperature (Rectally)	≥ 38.0°C	1757	391	22.3	20.3	24.3	1024	142	13.9	11.8	16.1
	> 40.0°C	1757	3	0.2	0.0	0.5	1024	0	0.0	0.0	0.4
	Related	1757	371	21.1	19.2	23.1	1024	134	13.1	11.1	15.3
		<b>10Pn2+1 Group</b>					<b>Ctrl2+1 Group</b>				
		<b>95 % CI</b>					<b>95 % CI</b>				
<b>Symptom</b>	<b>Intensity/Relationship</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>
Drowsiness	Any	1257	561	44.6	41.9	47.4	827	243	29.4	26.3	32.6
	Grade 3	1257	8	0.6	0.3	1.3	827	4	0.5	0.1	1.2
	Related	1257	548	43.6	40.8	46.4	827	233	28.2	25.1	31.4
Irritability	Any	1257	816	64.9	62.2	67.6	827	410	49.6	46.1	53.0
	Grade 3	1257	33	2.6	1.8	3.7	827	7	0.8	0.3	1.7
	Related	1257	801	63.7	61.0	66.4	827	395	47.8	44.3	51.2
Loss of appetite	Any	1257	411	32.7	30.1	35.4	827	186	22.5	19.7	25.5
	Grade 3	1257	5	0.4	0.1	0.9	827	3	0.4	0.1	1.1
	Related	1257	398	31.7	29.1	34.3	827	173	20.9	18.2	23.9
Temperature (Rectally)	≥38.0°C	1257	333	26.5	24.1	29.0	827	120	14.5	12.2	17.1
	>40.0°C	1257	0	0.0	0.0	0.3	827	1	0.1	0.0	0.7
	Related	1257	319	25.4	23.0	27.9	827	110	13.3	11.1	15.8
		<b>Subjects enrolled aged 7 to 11 months</b>									
		<b>10Pn Group</b>					<b>Ctrl Group</b>				
		<b>95 % CI</b>					<b>95 % CI</b>				
<b>Symptom</b>	<b>Intensity/Relationship</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>	<b>N</b>	<b>n</b>	<b>%</b>	<b>LL</b>	<b>UL</b>
Drowsiness	Any	216	92	42.6	35.9	49.5	188	47	25.0	19.0	31.8
	Grade 3	216	2	0.9	0.1	3.3	188	1	0.5	0.0	2.9
	Related	216	87	40.3	33.7	47.1	188	46	24.5	18.5	31.3
Irritability	Any	216	129	59.7	52.9	66.3	188	84	44.7	37.4	52.1
	Grade 3	216	2	0.9	0.1	3.3	188	1	0.5	0.0	2.9
	Related	216	124	57.4	50.5	64.1	188	80	42.6	35.4	50.0
Loss of appetite	Any	216	64	29.6	23.6	36.2	188	46	24.5	18.5	31.3
	Grade 3	216	2	0.9	0.1	3.3	188	1	0.5	0.0	2.9
	Related	216	60	27.8	21.9	34.3	188	43	22.9	17.1	29.5
Temperature (Rectally)	≥ 38.0°C	216	42	19.4	14.4	25.4	188	11	5.9	3.0	10.2
	> 40.0°C	216	1	0.5	0.0	2.6	188	0	0.0	0.0	1.9
	Related	216	41	19.0	14.0	24.9	188	8	4.3	1.9	8.2
Groups for subjects enrolled aged 6 weeks to 6 months											
- 10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine											
- Ctrl3+1 Group= Infants enrolled 6 weeks -6 months of age: infants primed with 3 doses and boosted with HBV vaccine											
- 10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine											
- Ctrl 2+1 Group= Infants enrolled 6 weeks -6 months of age: infants primed with 2 doses and boosted with HBV vaccine											
Groups for subjects enrolled aged 7 to 11 months											
- 10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine											
- Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine											
N = number of subjects with the documented dose											
n/% = number/percentage of subjects reporting the symptom at least once											
Any = occurrence of any solicited general symptom regardless of their intensity grade or relationship to vaccination											
Related = event assessed by the investigator as causally related to the study vaccination											
Grade 3 Drowsiness = drowsiness that prevented normal activity											
Grade 3 Loss of appetite = not eating at all.											
Grade 3 Irritability = crying that could not be comforted/ prevented normal act.											
95% CI = Exact 95% confidence interval; LL = lower limit, UL = upper limit											

<b>Safety Results:</b> Number (%) of subjects with unsolicited AEs occurring within the 31-day (Days 0-30) after primary vaccination – Subjects enrolled aged 6 weeks to 6 months (Total Vaccinated cohort for analysis of safety and carriage)				
<b>Most frequent adverse events - On-Therapy (occurring within Days 0-30 following vaccination)</b>	<b>10Pn3+1 Group N = 1849</b>	<b>Ctrl3+1 Group N = 1069</b>	<b>10Pn2+1 Group N = 1316</b>	<b>Ctrl2+1 Group N = 859</b>
Subjects with any AE(s), n (%)	1105 (59.8)	554 (51.8)	598 (45.4)	337 (39.2)
Injection site induration	376 (20.3)	47 (4.4)	203 (15.4)	-
Upper respiratory tract infection	172 (9.3)	98 (9.2)	74 (5.6)	29 (3.4)
Rhinitis	121 (6.5)	90 (8.4)	57 (4.3)	49 (5.7)
Diarrhoea	106 (5.7)	65 (6.1)	52 (4.0)	39 (4.5)
Nasopharyngitis	84 (4.5)	48 (4.5)	-	35 (4.1)
Flatulence	-	-	43 (3.3)	-
Cough	-	-	-	21 (2.4)
<p>10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine  Ctrl3+1 Group= Infants enrolled 6 weeks -6 months of age: infants primed with 3 doses and boosted with HBV vaccine  10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  Ctrl 2+1 Group= Infants enrolled 6 weeks -6 months of age: infants primed with 2 doses and boosted with HBV vaccine  Counting rule applied: As there were more than 30 subjects per treatment group and &gt; 3 groups, only the 5 most frequent events in each treatment group are to be listed.  -: Implies that adverse event was not reported in the particular group or that the adverse event was reported in the particular group but did not fall within the pre-defined counting rule of 5 most frequent events for that group.</p>				
<b>Safety Results:</b> Number (%) of subjects with unsolicited AEs occurring within the 31-day (Days 0-30) after primary vaccination – Subjects enrolled aged 7 to 11 months (Total Vaccinated cohort for analysis of safety and carriage)				
<b>Most frequent adverse events - On-Therapy (occurring within Days 0-30 following vaccination)</b>	<b>10Pn Group N = 241</b>	<b>Ctrl Group N = 204</b>		
Subjects with any AE(s), n (%)	157 (65.1)	132 (64.7)		
Upper respiratory tract infection	28 (11.6)	42 (20.6)		
Rhinitis	21 (8.7)	32 (15.7)		
Pyrexia	25 (10.4)	20 (9.8)		
Otitis media*	23 (9.5)	16 (7.8)		
Diarrhoea	17 (7.1)	16 (7.8)		
Teething	10 (4.1)	18 (8.8)		
Injection site induration	27 (11.2)	-		
Nasopharyngitis	15 (6.2)	10 (4.9)		
Gastroenteritis	11 (4.6)	13 (6.4)		
Vomiting	9 (3.7)	7 (3.4)		
Cough	-	9 (4.4)		
Exanthema subitum	9 (3.7)	-		
Injection site haematoma	9 (3.7)	-		
<p>10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine  Counting rule applied: As there were more than 30 subjects per treatment group and ≤ 3 groups, only the 10 most frequent events in each treatment group are to be listed.  -: Implies that adverse event was not reported in the particular group or that the adverse event was reported in the particular group but did not fall within the pre-defined counting rule of 10 most frequent events for that group.  *Note that, to avoid inconsistency in the clinical database, between the AE reporting and the AOM questionnaire, otitis was not requested to be reported as an AE if already reported via the AOM questionnaire.</p>				
<b>Safety Results:</b> Number (%) of subjects with unsolicited AEs occurring within the 31 days (Days 0-30) after vaccination – Subjects enrolled aged 12 to 18 months (Total Vaccinated cohort for analysis of safety and carriage)				
<b>Most frequent adverse events - On-Therapy (occurring within Days 0-30 following vaccination)</b>	<b>10Pn Group N = 368</b>	<b>Ctrl Group N = 271</b>		
Subjects with any AE(s), n (%)	221 (60.1)	174 (64.2)		
Upper respiratory tract infection	36 (9.8)	40 (14.8)		
Rhinitis	29 (7.9)	25 (9.2)		
Diarrhoea	26 (7.1)	25 (9.2)		
Otitis media*	25 (6.8)	22 (8.1)		
Injection site induration	45 (12.2)	-		

Pyrexia	14 (3.8)	26 (9.6)		
Cough	14 (3.8)	15 (5.5)		
Nasopharyngitis	18 (4.9)	10 (3.7)		
Gastroenteritis	13 (3.5)	13 (4.8)		
Vomiting	-	12 (4.4)		
Injection site haematoma	-	9 (3.3)		
Injection site haemorrhage	9 (2.4)	-		
Teething	9 (2.4)	-		
<p>10Pn Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of 10Pn vaccine  Ctrl Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of HAV vaccine  Counting rule applied: As there were more than 30 subjects per treatment group and ≤ 3 groups, only the 10 most frequent events in each treatment group are to be listed.  -: Implies that adverse event was not reported in the particular group or that the adverse event was reported in the particular group but did not fall within the pre-defined counting rule of 10 most frequent events for that group.  *Note that, to avoid inconsistency in the clinical database, between the AE reporting and the AOM questionnaire, otitis was not requested to be reported as an AE if already reported via the AOM questionnaire.</p>				
<p><b>Safety Results:</b> Number (%) of subjects with unsolicited AEs occurring within the 31 days (Days 0-30) after booster vaccination – Subjects enrolled aged 6 weeks and 6 months (Total Vaccinated cohort for analysis of safety and carriage)</p>				
<b>Most frequent adverse events - On-Therapy (occurring within Days 0-30 following vaccination)</b>	<b>10Pn3+1 Group N = 1786</b>	<b>Ctrl3+1 Group N = 1043</b>	<b>10Pn2+1 Group N = 1275</b>	<b>Ctrl2+1 Group N = 837</b>
Subjects with any AE(s), n (%)	521 (29.2)	277 (26.6)	363 (28.5)	244 (29.2)
Injection site induration	118 (6.6)	29 (2.8)	81 (6.4)	-
Upper respiratory tract infection	89 (5.0)	47 (4.5)	47 (3.7)	21 (2.5)
Pyrexia	33 (1.8)	29 (2.8)	29 (2.3)	35 (4.2)
Diarrhoea	41 (2.3)	-	30 (2.4)	16 (1.9)
Rhinitis	41 (2.3)	-	-	27 (3.2)
Teething	-	22 (2.1)	29 (2.3)	16 (1.9)
Nasopharyngitis	-	22 (2.1)	-	34 (4.1)
<p>10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine  Ctrl3+1 Group = Infants enrolled 6 weeks -6 months of age: infants primed with 3 doses and boosted with HBV vaccine  10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine  Ctrl 2+1 Group = Infants enrolled 6 weeks -6 months of age: infants primed with 2 doses and boosted with HBV vaccine  N = number of subjects with the documented dose  Counting rule applied: As there were more than 30 subjects per treatment group and &gt; 3 groups, only the 5 most frequent events in each treatment group are to be listed.  -: Implies that adverse event was not reported in the particular group or that the adverse event was reported in the particular group but did not fall within the pre-defined counting rule of 5 most frequent events for that group.</p>				
<p><b>Safety Results:</b> Number (%) of subjects with unsolicited AEs occurring within the 31 days (Days 0-30) after booster vaccination – Subjects enrolled aged 7 to 11 months (Total Vaccinated cohort for analysis of safety and carriage)</p>				
<b>Most frequent adverse events - On-Therapy (occurring within Days 0-30 following vaccination)</b>	<b>10Pn Group N = 226</b>		<b>Ctrl Group N = 197</b>	
Subjects with any AE(s), n (%)	51 (22.6)		48 (24.4)	
Upper respiratory tract infection	13 (5.8)		11 (5.6)	
Diarrhoea	8 (3.5)		3 (1.5)	
Injection site induration	8 (3.5)		3 (1.5)	
Pyrexia	2 (0.9)		7 (3.6)	
Nasopharyngitis	3 (1.3)		3 (1.5)	
Otitis media*	3 (1.3)		3 (1.5)	
Rhinitis	-		6 (3.0)	
Bronchitis	3 (1.3)		2 (1.0)	
Cough	2 (0.9)		2 (1.0)	
Laryngitis	3 (1.3)		-	
Teething	-		3 (1.5)	
Vomiting	3 (1.3)		-	
Exanthema subitum	-		2 (1.0)	
Injection site haematoma	-		2 (1.0)	

10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine

Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine

N = number of subjects with the documented dose

Counting rule applied: As there were more than 30 subjects per treatment group and ≤ 3 groups, only the 10 most frequent events in each treatment group are to be listed.

-: Implies that adverse event was not reported in the particular group or that the adverse event was reported in the particular group but did not fall within the pre-defined counting rule of 10 most frequent events for that group.

\*Note that, to avoid inconsistency in the clinical database, between the AE reporting and the AOM questionnaire, otitis was not requested to be reported as an AE if already reported via the AOM questionnaire.

**Safety Results:** Number (%) of subjects with SAEs reported during the entire study period (Study Months 0-18) for subjects enrolled aged 6 weeks to 6 months (Total Vaccinated cohort for analysis of safety and carriage)

**Serious adverse event, n (%) [n considered by the investigator to be related to study medication]**

All SAEs	10Pn3+1 Group N = 1849	Ctrl3+1 Group N = 1069
Subjects with any SAE(s), n (%) [n assessed by the investigator as related]	163 (8.8) [4]	77 (7.2) [1]
Bronchitis	33 (1.8) [0]	19 (1.8) [0]
Otitis media*	22 (1.2) [0]	9 (0.8) [0]
Bronchiolitis	9 (0.5) [0]	5 (0.5) [0]
Gastroenteritis	15 (0.8) [0]	5 (0.5) [0]
Laryngitis	12 (0.6) [0]	4 (0.4) [0]
Respiratory syncytial virus bronchiolitis	11 (0.6) [0]	4 (0.4) [0]
Pneumonia	10 (0.5) [0]	3 (0.3) [0]
Pyelonephritis	10 (0.5) [0]	2 (0.2) [0]
Febrile convulsion	5 (0.3) [0]	1 (0.1) [0]
Pyrexia	4 (0.2) [1]	4 (0.4) [0]
Upper respiratory tract infection	5 (0.3) [0]	3 (0.3) [0]
Asthma	4 (0.2) [0]	4 (0.4) [0]
Otitis media acute*	5 (0.3) [0]	1 (0.1) [0]
Convulsion	5 (0.3) [2]	2 (0.2) [0]
Viral infection	1 (0.1) [0]	4 (0.4) [0]
Pyelonephritis acute	4 (0.2) [0]	1 (0.1) [0]
Concussion	3 (0.2) [0]	0 (0.0) [0]
Sepsis	2 (0.1) [1]	2 (0.2) [0]
Femur fracture	2 (0.1) [0]	2 (0.2) [0]
Respiratory syncytial virus infection	4 (0.2) [0]	0 (0.0) [0]
Urinary tract infection	2 (0.1) [0]	1 (0.1) [0]
Infection	2 (0.1) [0]	1 (0.1) [0]
Pneumonia respiratory syncytial viral	1 (0.1) [0]	0 (0.0) [0]
Tonsillitis	2 (0.1) [0]	0 (0.0) [0]
Adenovirus infection	2 (0.1) [0]	1 (0.1) [0]
Bacterial infection	0 (0.0) [0]	2 (0.2) [0]
Dyspnoea	0 (0.0) [0]	1 (0.1) [0]
Foreign body	1 (0.1) [0]	0 (0.0) [0]
Pneumococcal sepsis	0 (0.0) [0]	2 (0.2) [0]
Amaurotic familial idiocy	1 (0.1) [0]	0 (0.0) [0]
Anal abscess	1 (0.1) [0]	1 (0.1) [0]
Diarrhoea	1 (0.1) [0]	1 (0.1) [0]
Enteritis	2 (0.1) [0]	0 (0.0) [0]
Enterovirus infection	2 (0.1) [0]	0 (0.0) [0]
H1N1 influenza	2 (0.1) [0]	0 (0.0) [0]
Influenza	1 (0.1) [0]	0 (0.0) [0]
Intussusception	2 (0.1) [0]	0 (0.0) [0]
Milk allergy	1 (0.1) [0]	1 (0.1) [0]
Patent ductus arteriosus	2 (0.1) [0]	0 (0.0) [0]
Respiratory syncytial virus bronchitis	0 (0.0) [0]	2 (0.2) [0]
Thermal burn	0 (0.0) [0]	1 (0.1) [0]

Tibia fracture	1 (0.1) [0]	0 (0.0) [0]
Type 1 diabetes mellitus	1 (0.1) [0]	0 (0.0) [0]
Urticaria	0 (0.0) [0]	1 (0.1) [0]
Ventricular septal defect	1 (0.1) [0]	0 (0.0) [0]
Abscess neck	1 (0.1) [0]	0 (0.0) [0]
Aplasia pure red cell	1 (0.1) [0]	0 (0.0) [0]
Bacterial sepsis	1 (0.1) [0]	0 (0.0) [0]
Cardiac murmur	1 (0.1) [0]	0 (0.0) [0]
Combined immunodeficiency	1 (0.1) [0]	0 (0.0) [0]
Contusion	0 (0.0) [0]	1 (0.1) [0]
Craniosynostosis	1 (0.1) [0]	0 (0.0) [0]
Croup infectious	1 (0.1) [0]	0 (0.0) [0]
Cyanosis	1 (0.1) [0]	0 (0.0) [0]
Ear infection	1 (0.1) [0]	0 (0.0) [0]
Electric shock	1 (0.1) [0]	0 (0.0) [0]
Epilepsy	0 (0.0) [0]	1 (0.1) [0]
Erythema	1 (0.1) [0]	0 (0.0) [0]
Gastroenteritis adenovirus	0 (0.0) [0]	1 (0.1) [0]
Gastroenteritis rotavirus	1 (0.1) [0]	0 (0.0) [0]
Gastroesophageal reflux disease	1 (0.1) [0]	0 (0.0) [0]
Groin abscess	0 (0.0) [0]	1 (0.1) [0]
Herpes zoster	0 (0.0) [0]	1 (0.1) [0]
Hyperreflexia	1 (0.1) [0]	0 (0.0) [0]
Inguinal hernia	0 (0.0) [0]	1 (0.1) [0]
Inguinal hernia strangulated	1 (0.1) [0]	0 (0.0) [0]
Joint dislocation	0 (0.0) [0]	1 (0.1) [0]
Juvenile arthritis	1 (0.1) [0]	0 (0.0) [0]
Laryngitis viral	0 (0.0) [0]	1 (0.1) [0]
Laryngomalacia	1 (0.1) [0]	0 (0.0) [0]
Loss of consciousness	0 (0.0) [0]	1 (0.1) [0]
Lymph gland infection	1 (0.1) [0]	0 (0.0) [0]
Meningococcal sepsis	1 (0.1) [0]	0 (0.0) [0]
Neck pain	1 (0.1) [0]	0 (0.0) [0]
Nervous system disorder	1 (0.1) [0]	0 (0.0) [0]
Petit mal epilepsy	0 (0.0) [0]	1 (0.1) [1]
Pharyngitis	1 (0.1) [0]	0 (0.0) [0]
Pneumococcal bacteraemia	0 (0.0) [0]	1 (0.1) [0]
Pneumococcal infection	0 (0.0) [0]	1 (0.1) [0]
Pneumonia bacterial	0 (0.0) [0]	1 (0.1) [0]
Poisoning	1 (0.1) [0]	0 (0.0) [0]
Pyloric stenosis	1 (0.1) [0]	0 (0.0) [0]
Respiratory tract infection viral	1 (0.1) [0]	0 (0.0) [0]
Staphylococcal sepsis	1 (0.1) [0]	0 (0.0) [0]
Streptococcal infection	0 (0.0) [0]	1 (0.1) [0]
Subcutaneous abscess	1 (0.1) [0]	0 (0.0) [0]
Tracheitis	1 (0.1) [0]	0 (0.0) [0]
Vomiting	1 (0.1) [0]	0 (0.0) [0]
Weight gain poor	0 (0.0) [0]	1 (0.1) [0]
<b>Fatal SAEs</b>	<b>10Pn3+1 Group N = 1849</b>	<b>Ctrl3+1 Group N = 1069</b>
Subjects with fatal SAE(s), n (%) [n assessed by the investigator as related]	0 (0.0) [0]	0 (0.0) [0]
<b>All SAEs</b>	<b>10Pn2+1 Group N = 1316</b>	<b>Ctrl2+1 Group N = 859</b>
Subjects with any SAE(s), n (%) [n assessed by the investigator as related]	96 (7.3) [0]	74 (8.6) [1]

Bronchitis	13 (1.0) [0]	20 (2.3) [0]
Otitis media*	7 (0.5) [0]	13 (1.5) [0]
Bronchiolitis	8 (0.6) [0]	9 (1.0) [0]
Gastroenteritis	7 (0.5) [0]	4 (0.5) [0]
Laryngitis	6 (0.5) [0]	7 (0.8) [0]
Respiratory syncytial virus bronchiolitis	7 (0.5) [0]	4 (0.5) [0]
Pneumonia	5 (0.4) [0]	5 (0.6) [0]
Pyelonephritis	7 (0.5) [0]	2 (0.2) [0]
Febrile convulsion	6 (0.5) [0]	2 (0.2) [0]
Pyrexia	4 (0.3) [0]	2 (0.2) [1]
Upper respiratory tract infection	3 (0.2) [0]	3 (0.3) [0]
Asthma	2 (0.2) [0]	3 (0.3) [0]
Otitis media acute*	2 (0.2) [0]	3 (0.3) [0]
Convulsion	2 (0.2) [0]	1 (0.1) [0]
Viral infection	3 (0.2) [0]	1 (0.1) [0]
Pyelonephritis acute	0 (0.0) [0]	3 (0.3) [0]
Concussion	2 (0.2) [0]	2 (0.2) [0]
Sepsis	1 (0.1) [0]	2 (0.2) [0]
Femur fracture	1 (0.1) [0]	1 (0.1) [0]
Respiratory syncytial virus infection	0 (0.0) [0]	2 (0.2) [0]
Urinary tract infection	2 (0.2) [0]	1 (0.1) [0]
Infection	1 (0.1) [0]	0 (0.0) [0]
Pneumonia respiratory syncytial viral	2 (0.2) [0]	1 (0.1) [0]
Tonsillitis	2 (0.2) [0]	0 (0.0) [0]
Bacterial infection	1 (0.1) [0]	0 (0.0) [0]
Dyspnoea	2 (0.2) [0]	0 (0.0) [0]
Foreign body	2 (0.2) [0]	0 (0.0) [0]
Pneumococcal sepsis	1 (0.1) [0]	0 (0.0) [0]
Amaurotic familial idiocy	0 (0.0) [0]	1 (0.1) [0]
Dehydration	2 (0.2) [0]	0 (0.0) [0]
Influenza	1 (0.1) [0]	0 (0.0) [0]
Streptococcal sepsis	1 (0.1) [0]	1 (0.1) [0]
Thermal burn	0 (0.0) [0]	1 (0.1) [0]
Tibia fracture	0 (0.0) [0]	1 (0.1) [0]
Type 1 diabetes mellitus	0 (0.0) [0]	1 (0.1) [0]
Urticaria	0 (0.0) [0]	1 (0.1) [0]
Varicella	1 (0.1) [0]	1 (0.1) [0]
Ventricular septal defect	1 (0.1) [0]	0 (0.0) [0]
Altered state of consciousness	0 (0.0) [0]	1 (0.1) [0]
Anaphylactic reaction	0 (0.0) [0]	1 (0.1) [0]
Apnoea	0 (0.0) [0]	1 (0.1) [0]
Bacteraemia	0 (0.0) [0]	1 (0.1) [0]
Balance disorder	1 (0.1) [0]	0 (0.0) [0]
Breath holding	0 (0.0) [0]	1 (0.1) [0]
Burns second degree	1 (0.1) [0]	0 (0.0) [0]
Cerebral infarction	1 (0.1) [0]	0 (0.0) [0]
Chemical poisoning	1 (0.1) [0]	0 (0.0) [0]
Coarctation of the aorta	1 (0.1) [0]	0 (0.0) [0]
Cognitive disorder	0 (0.0) [0]	1 (0.1) [0]
Crying	1 (0.1) [0]	0 (0.0) [0]
Cystitis	1 (0.1) [0]	0 (0.0) [0]
Developmental delay	0 (0.0) [0]	1 (0.1) [0]
Dysarthria	0 (0.0) [0]	1 (0.1) [0]
Eczema infected	1 (0.1) [0]	0 (0.0) [0]
Eczema nummular	0 (0.0) [0]	1 (0.1) [0]
Exanthema subitum	1 (0.1) [0]	0 (0.0) [0]

Gastroenteritis norovirus	1 (0.1) [0]	0 (0.0) [0]
Haemangioma	0 (0.0) [0]	1 (0.1) [0]
Hand-foot-and-mouth disease	1 (0.1) [0]	0 (0.0) [0]
Hypertension	1 (0.1) [0]	0 (0.0) [0]
Hypoglycaemia	1 (0.1) [0]	0 (0.0) [0]
Impetigo	0 (0.0) [0]	1 (0.1) [0]
Krabbe's disease	0 (0.0) [0]	1 (0.1) [0]
Lobar pneumonia	1 (0.1) [0]	0 (0.0) [0]
Lymphadenitis	0 (0.0) [0]	1 (0.1) [0]
Mastoiditis	1 (0.1) [0]	0 (0.0) [0]
Melaena	0 (0.0) [0]	1 (0.1) [0]
Mitochondrial encephalomyopathy	0 (0.0) [0]	1 (0.1) [0]
Osteomyelitis	1 (0.1) [0]	0 (0.0) [0]
Parainfluenzae virus infection	1 (0.1) [0]	0 (0.0) [0]
Pericardial effusion	1 (0.1) [0]	0 (0.0) [0]
Respiratory tract infection	1 (0.1) [0]	0 (0.0) [0]
Septic arthritis streptococcal	0 (0.0) [0]	1 (0.1) [0]
Skull fracture	0 (0.0) [0]	1 (0.1) [0]
Sudden death	1 (0.1) [0]	0 (0.0) [0]
<b>Fatal SAEs</b>	<b>10Pn2+1 Group N = 1316</b>	<b>Ctrl2+1 Group N = 859</b>
Subjects with fatal SAE(s), n (%) [n assessed by the investigator as related]	1 (0.1) [0]	0 (0.0) [0]
Sudden death	1 (0.1) [0]	0 (0.0) [0]
10Pn3+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 3 doses and boosted with 10Pn vaccine Ctrl3+1 Group= Infants enrolled 6 weeks -6 months of age: infants primed with 3 doses and boosted with HBV vaccine 10Pn2+1 Group = Infants enrolled 6 weeks-6 months of age: infants primed with 2 doses and boosted with 10Pn vaccine Ctrl 2+1 Group= Infants enrolled 6 weeks -6 months of age: infants primed with 2 doses and boosted with HBV vaccine *Note that, to avoid inconsistency in the clinical database, between the AE reporting and the AOM questionnaire, otitis was not requested to be reported as an AE if already reported via the AOM questionnaire.		
<b>Safety Results:</b> Number (%) of subjects with SAEs reported during the entire study period (Study Months 0-16) for subjects enrolled aged 7 to 11 months (Total Vaccinated cohort for analysis of safety and carriage)		
<b>Serious adverse event, n (%) [n considered by the investigator to be related to study medication]</b>		
<b>All SAEs</b>	<b>10Pn Group N = 241</b>	<b>Ctrl Group N = 204</b>
Subjects with any SAE(s), n (%) [n assessed by the investigator as related]	24 (10.0) [0]	18 (8.8) [0]
Bronchitis	9 (3.7) [0]	5 (2.5) [0]
Asthma	4 (1.7) [0]	1 (0.5) [0]
Gastroenteritis	3 (1.2) [0]	1 (0.5) [0]
Bronchiolitis	1 (0.4) [0]	2 (1.0) [0]
Convulsion	1 (0.4) [0]	1 (0.5) [0]
Otitis media acute*	2 (0.8) [0]	0 (0.0) [0]
Pneumonia	1 (0.4) [0]	1 (0.5) [0]
Pyelonephritis acute	0 (0.0) [0]	2 (1.0) [0]
Thermal burn	1 (0.4) [0]	1 (0.5) [0]
Bacterial infection	1 (0.4) [0]	0 (0.0) [0]
Bacterial sepsis	0 (0.0) [0]	1 (0.5) [0]
Concussion	1 (0.4) [0]	0 (0.0) [0]
Cough	0 (0.0) [0]	1 (0.5) [0]
Diarrhoea	1 (0.4) [0]	0 (0.0) [0]
Diarrhoea infectious	1 (0.4) [0]	0 (0.0) [0]
Epilepsy	1 (0.4) [0]	0 (0.0) [0]
Escherichia sepsis	0 (0.0) [0]	1 (0.5) [0]
Exanthema subitum	1 (0.4) [0]	0 (0.0) [0]
Febrile convulsion	0 (0.0) [0]	1 (0.5) [0]

Gastroenteritis adenovirus	1 (0.4) [0]	0 (0.0) [0]
Gastroenteritis rotavirus	1 (0.4) [0]	0 (0.0) [0]
Laryngitis	1 (0.4) [0]	0 (0.0) [0]
Otitis media*	1 (0.4) [0]	0 (0.0) [0]
Otitis media fungal*	0 (0.0) [0]	1 (0.5) [0]
Pharyngitis	1 (0.4) [0]	0 (0.0) [0]
Pneumonia viral	1 (0.4) [0]	0 (0.0) [0]
Pyelonephritis	0 (0.0) [0]	1 (0.5) [0]
Respiratory syncytial virus bronchiolitis	1 (0.4) [0]	0 (0.0) [0]
Respiratory syncytial virus bronchitis	0 (0.0) [0]	1 (0.5) [0]
Respiratory tract infection	1 (0.4) [0]	0 (0.0) [0]
Roseola	0 (0.0) [0]	1 (0.5) [0]
Rotavirus infection	1 (0.4) [0]	0 (0.0) [0]
Tonsillitis	1 (0.4) [0]	0 (0.0) [0]
Urinary tract infection	0 (0.0) [0]	1 (0.5) [0]
<b>Fatal SAEs</b>	<b>10Pn Group N = 241</b>	<b>Ctrl Group N = 204</b>
Subjects with fatal SAE(s), n (%) [n assessed by the investigator as related]	0 (0.0) [0]	0 (0.0) [0]
10Pn Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with 10Pn vaccine Ctrl Group = Catch-up infants 7-11 months of age: infants primed with 2 doses and boosted with HBV vaccine *Note that, to avoid inconsistency in the clinical database, between the AE reporting and the AOM questionnaire, otitis was not requested to be reported as an AE if already reported via the AOM questionnaire.		
<b>Safety Results:</b> Number (%) of subjects with SAEs reported during the entire study period (Study Months 0-9) for subjects enrolled aged 12 to 18 months (Total Vaccinated cohort for analysis of safety and carriage)		
<b>Serious adverse event, n (%) [n considered by the investigator to be related to study medication]</b>		
<b>All SAEs</b>	<b>10Pn Group N = 368</b>	<b>Ctrl Group N = 271</b>
Subjects with any SAE(s), n (%) [n assessed by the investigator as related]	23 (6.3) [0]	14 (5.2) [0]
Bronchitis	5 (1.4) [0]	2 (0.7) [0]
Asthma	4 (1.1) [0]	2 (0.7) [0]
Febrile convulsion	2 (0.5) [0]	1 (0.4) [0]
Gastroenteritis	2 (0.5) [0]	1 (0.4) [0]
Otitis media*	1 (0.3) [0]	2 (0.7) [0]
Pneumonia	2 (0.5) [0]	1 (0.4) [0]
Pyelonephritis	2 (0.5) [0]	1 (0.4) [0]
Gastroenteritis rotavirus	1 (0.3) [0]	1 (0.4) [0]
Gastroenteritis viral	2 (0.5) [0]	0 (0.0) [0]
Laryngitis	2 (0.5) [0]	0 (0.0) [0]
Accidental drug intake by child	1 (0.3) [0]	0 (0.0) [0]
Accidental poisoning	1 (0.3) [0]	0 (0.0) [0]
Cellulitis	0 (0.0) [0]	1 (0.4) [0]
Cellulitis orbital	1 (0.3) [0]	0 (0.0) [0]
Confusional state	0 (0.0) [0]	1 (0.4) [0]
Femur fracture	1 (0.3) [0]	0 (0.0) [0]
Pneumococcal sepsis	0 (0.0) [0]	1 (0.4) [0]
Respiratory syncytial virus bronchiolitis	1 (0.3) [0]	0 (0.0) [0]
Type 1 diabetes mellitus	0 (0.0) [0]	1 (0.4) [0]
Upper respiratory tract infection	1 (0.3) [0]	0 (0.0) [0]
Urinary tract infection	1 (0.3) [0]	0 (0.0) [0]
Urticaria	0 (0.0) [0]	1 (0.4) [0]
Viral upper respiratory tract infection	0 (0.0) [0]	1 (0.4) [0]
<b>Fatal SAEs</b>	<b>10Pn Group N = 368</b>	<b>Ctrl Group N = 271</b>
Subjects with fatal SAE(s), n (%) [n assessed by the	0 (0.0) [0]	0 (0.0) [0]

investigator as related]		
10Pn Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of 10Pn vaccine Ctrl Group = Catch-up toddlers 12-18 months of age: toddlers vaccinated with 2 doses of HAV vaccine *Note that, to avoid inconsistency in the clinical database, between the AE reporting and the AOM questionnaire, otitis was not requested to be reported as an AE if already reported via the AOM questionnaire.		

**Conclusion:**

For conclusion on primary and secondary results on vaccine effectiveness in the prevention of Invasive Disease, please refer to the 111442 CTRS.

Among subjects in the Infant cohort enrolled between 6 weeks and 6 months of age, during the 31-day follow-up period post primary vaccination, at least one unsolicited AE was reported for 1105 (59.8%), 554 (51.8%), 598 (45.4%) and 337 (39.2%) subjects assigned to the 10Pn3+1, Ctrl3+1, 10Pn2+1 and Ctrl2+1 groups, respectively.

Among subjects in the Catch-up cohort enrolled between 7 and 11 months of age, during that same period, at least one unsolicited AE was reported for 157 (65.1%) and 132 (64.7%) subjects in the Catch-up 7-11M-10Pn and Catch-up 7-11M-Ctrl groups, respectively.

Among subjects in the Catch-up cohort enrolled between 12 and 18 months of age, during that same period, at least one unsolicited AE was reported for 221 (60.1%) and 174 (64.2%) subjects in the Catch-up 12-18M-10Pn and Catch-up 12-18M-Ctrl groups, respectively.

Among subjects in the Infant cohort enrolled between 6 weeks and 6 months of age, during the 31-day follow-up period post booster vaccination, at least one unsolicited AE was reported for 521 (29.2%), 277 (26.6%), 363 (28.5%) and 244 (29.2%) subjects in the 10Pn3+1, Ctrl3+1, 10Pn2+1 and Ctrl2+1 groups, respectively. Among subjects in the Catch-up cohort enrolled between 7 and 11 months of age, during that same period, at least one unsolicited AE was reported for 51 (22.6%) and 48 (24.4%) subjects in the Catch-up 7-11M-10Pn and Catch-up 7-11M-Ctrl schedules, respectively.

Among subjects in the Infant cohort enrolled between 6 weeks and 6 months of age, from study start to study end (Month 18), SAEs were reported for 163 (8.8%), 77 (7.2%), 96 (7.3%) and 74 (8.6%) subjects in the 10Pn3+1, Ctrl3+1, 10Pn2+1 and Ctrl2+1 groups, respectively. 6 of these SAEs, of which none were fatal, were assessed by the investigators to be causally related to vaccination (4 in the 10Pn3+1 Group, 1 in the Ctrl3+1Group and 1 in the Ctrl2+1 Group). One fatal SAE (sudden death) was reported for the 10Pn2+1 Group. This SAE was assessed by the investigators as not causally related to vaccination.

Among subjects in the Catch-up cohort enrolled between 7-11 months of age, from study start to study end (Month 16), SAEs were reported for reported for 24 (10.0%) and 18 (8.8%) subjects in the Catch-up 7-11M-10Pn and Catch-up 7-11M-Ctrl groups, respectively, with none assessed causality to the vaccination. No fatal SAEs were reported for subjects in this age group.

Among subjects in the Catch-up cohort enrolled between 12 and 18 months of age, from study start to study end (Month 9), SAEs were reported for reported for 23 (6.3%) and 14 (5.2%) subjects in the in the Catch-up 12-18M-10Pn and Catch-up 12-18M-Ctrl groups, respectively, out of which none were assessed by the investigators to be causally related to vaccination. No fatal SAEs were reported for subjects in this age group.

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