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| Study No.: 104886 (FluAS25-003) |
| Title: An open, randomized phase I/II study to demonstrate the non inferiority in terms of cellular mediated immune response of GlaxoSmithKline Biologicals influenza candidate vaccines containing various adjuvants administered in elderly population (aged 65 years and older) as compared to <i>Fluarix</i> TM (known as α -Rix TM in Belgium) administered in adults (18-40 years). <i>Fluarix</i> TM (α -Rix TM): GlaxoSmithKline Biologicals' licensed influenza vaccine. |
| Rationale: The aim of this study was to demonstrate the non inferiority of the cell-mediated immune (CMI) response in elderly population immunized with adjuvanted influenza candidate vaccines as compared to the cell-mediated immune response in young adults receiving the licensed influenza vaccine. For immunogenicity and safety evaluations, 1 group of adults aged 18 to 40 years and 1 group of elderly aged 65 years and older received a dose of a licensed flu vaccine and formed respectively a control and a reference group in this trial. |
| Phase: I/II |
| Study Period: 10 October 2005 to 22 May 2006 |
| Study Design: Single centre, open, partially randomized* controlled study with 6 groups. *Subjects aged 18-40 years were not randomized; subjects (aged 65 years and older) were randomized (3:3:3:3:2) into 5 groups. |
| Centres: 1 study centre in Belgium |
| Indication: Immunisation against influenza disease in subjects aged 18 to 40 years and elderly aged 65 years and older. |
| Treatment: The study groups were as follows: <ul style="list-style-type: none"> • Group 1: subjects (aged 18-40 years) received 1 dose of the licensed influenza vaccine • Group 2: subjects (aged \geq 65 years) received 1 dose of the licensed influenza vaccine • Group 3: subjects (aged \geq 65 years) received 1 dose of the adjuvanted influenza vaccine FluAS25 • Group 4: subjects (aged \geq 65 years) received 1 dose of the adjuvanted influenza vaccine FluAS50 • Group 5: subjects (aged \geq 65 years) received 1 dose of the adjuvanted influenza vaccine FluAS01B • Group 6: subjects (aged \geq 65 years) received 1 dose of the adjuvanted influenza vaccine FluAS01E Vaccines were administered intramuscularly in the deltoid region of the non dominant arm. |
| Objectives: To demonstrate the non inferiority 21 days post-vaccination of the influenza adjuvanted vaccines (FluAS25, FluAS50, FluAS01B and FluAS01E) administered to elderly subjects (aged 65 years and older) as compared to the licensed influenza vaccine administered to adults (aged 18-40 years) in terms of frequency of influenza-specific CD4 T-cells producing at least 2 different cytokines (CD40L, IL-2, TNF- α or IFN- γ). |
| Primary Outcome/Efficacy Variable: At Day 21: CMI response in all subjects in terms of frequency of influenza-specific CD4 T-lymphocyte per 10 ⁶ in tests producing at least 2 different cytokines (IL-2, IFN- γ , TNF- α and CD40L). |
| Secondary Outcome/Efficacy Variable(s): <i>Immunogenicity</i> <i>Observed variables:</i> At Days 0, 21, 90 and 180: serum haemagglutination-inhibition (HI) antibody titres, tested separately against each of the three influenza virus strains represented in the vaccine (anti-H1N1, anti-H3N2 & anti-B-antibodies). <i>Derived variables (with 95% confidence intervals):</i> <ul style="list-style-type: none"> - Geometric mean titres (GMTs) of serum HI antibodies pre- and post-vaccination at Days 0, 21, 90 and 180 - Seroconversion rates* at Day 21, 90 and 180 - Seroconversion factors** at Day 21, 90 and 180 - Seroprotection rates*** at Days 0 and 21, 90 and 180 * Seroconversion rates (SCR) defined as the proportion of subjects with either a pre-vaccination HI titre $<$ 1:10 and a post-vaccination titre \geq 1:40, or a pre-vaccination titre \geq 1:10 and a minimum 4-fold increase at post-vaccination titre. ** Seroconversion factors (SCF) defined as the fold increase in serum HI GMTs on post-vaccination compared to pre-vaccination time point. *** Seroprotection rates (SPR) defined as the proportion of subjects with a serum HI titre \geq 1:40. |

Safety

- Percentage, intensity and relationship to vaccination of solicited local and general signs and symptoms during a 7-day follow-up period (i.e. day of vaccination and 6 subsequent days) after vaccination.
- Percentage, intensity and relationship to vaccination of unsolicited local and general signs and symptoms during a 21-day follow-up period (i.e. day of vaccination and 20 subsequent days) after vaccination.
- Occurrence of serious adverse events (SAEs) during the entire study.

Statistical Methods:

The analyses were performed on the Total Vaccinated cohort, the According-To-Protocol (ATP) cohort for immunogenicity and the ATP cohort for persistence.

- The Total Vaccinated cohort included all subjects who received the vaccine dose.
- The ATP cohort for immunogenicity included all evaluable subjects (i.e., those meeting all eligibility criteria, complying with the procedures defined in the protocol, with no elimination criteria during the study) for whom data concerning immunogenicity measures were available. This included subjects for whom assay results were available for antibodies against at least 1 study vaccine antigen component after vaccination.
- The ATP cohort for persistence included all subjects from the ATP cohort for immunogenicity who had not received any medication or vaccine forbidden by the protocol during the study period and who had available assay results for at least 1 tested antigen at the Day 90 or Day 180 time points.

Analysis of immunogenicity:

The analysis of immunogenicity was performed on the ATP cohort for immunogenicity for results at pre-vaccination and at Day 21 and on the ATP cohort for persistence for results at Days 90 and 180.

The non-inferiority was shown for each influenza adjuvanted candidate vaccine group if the Upper Limit (UL) of the two-sided 98.75% confidence interval (CI) on Geometric Mean ratio (between Group 1 and the 4 influenza adjuvanted candidate vaccine groups, i.e., Groups 3 - 6) of influenza-specific CD4 T-cells producing at least 2 cytokines on Day 21 was below 2.0.

The frequency of influenza-specific CD4 T-cells, after in vitro restimulation with pooled vaccine antigens were tabulated with the geometric mean (GM) and the standard deviation at Days 0 and 21.

Geometric mean titres (GMTs), seropositivity rates and seroprotection rates for HI antibodies were summarized at all time points with 95% confidence interval (CI). Seroconversion rates and seroconversion factor were summarized for HI antibodies at Days 21, 90 and 180 with 95%CI.

Analysis of safety:

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

For each solicited local and general symptom, the percentage of subjects with the symptom reported during the 7-day (Days 0-6) follow-up period was summarized after vaccine dose. The same calculations were performed for symptoms of any intensity, those with Grade 3 intensity and for solicited general symptoms assessed by the investigator as related to vaccination.

The percentage of subjects reporting unsolicited adverse events (AEs) within 21 days (Days 0-20) following vaccination was tabulated according to the Medical Dictionary for Regulatory Activities (MedDRA) Preferred Terms. The same tabulation was performed for Grade 3 unsolicited AEs and for unsolicited AEs that were assessed by the investigators to be related to vaccination.

SAEs were tabulated according to the MedDRA Preferred Terms for each group during the entire study period.

Study Population: Male or female subjects between 18 and 40 years or aged 65 years or older at the time of the vaccination, free of obvious health problems as established by medical history and clinical examination before entering into the study. Written informed consent was obtained from the subject prior to study entry.

| Number of subjects | Group 1 | Group 2 | Group 3 | Group 4 | Group 5 | Group 6 |
|--|----------------|----------------|----------------|----------------|----------------|----------------|
| Planned, N | 75 | 50 | 75 | 75 | 75 | 75 |
| Randomised, N (Total Vaccinated cohort) | 75 | 50 | 75 | 75 | 75 | 75 |
| Completed, n (%) | 75 (100) | 50 (100) | 75 (100) | 75 (100) | 75 (100) | 73 (97.3) |
| Total Number Subjects Withdrawn, n (%) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 2 (2.7) |
| Withdrawn due to Adverse Events, n (%) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 2 (2.7) |
| Withdrawn due to Lack of Efficacy, n (%) | Not applicable |
| Withdrawn for other reasons, n (%) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| Demographics | Group 1 | Group 2 | Group 3 | Group 4 | Group 5 | Group 6 |
| N (Total Vaccinated Cohort) | 75 | 50 | 75 | 75 | 75 | 75 |
| Females:Males | 46:29 | 19:31 | 29:46 | 34:41 | 36:39 | 29:46 |

| | | | | | | | |
|--|----------------|----------------|----------------|------------------------------------|------------------|----------------|---------------|
| Mean Age, years (SD) | 25.9 (5.47) | 69.3 (3.31) | 69.2 (2.98) | 69.1 (3.51) | 69.5 (3.30) | 69.5 (4.06) | |
| White/Caucasian, n (%) | 72 (96.0) | 50 (100) | 75 (100) | 75 (100) | 75 (100) | 75 (100) | |
| Primary Efficacy Results: Geometric Mean ratio of influenza-specific CD4 T-cells producing at least 2 cytokines after in vitro restimulation with pooled vaccine antigens, on Day 21 (ATP cohort for immunogenicity) | | | | | | | |
| Group 1 | | Group 3 | | GM ratio (Group 1/ Group 3) | | | |
| N | GM | N | GM | Value | 98.75% CI | | |
| | | | | | LL | UL* | |
| 74 | 2974.7 | 70 | 3298.7 | 0.90 | 0.70 | 1.16* | |
| Group 1 | | Group 4 | | GM ratio (Group 1/ Group 4) | | | |
| N | GM | N | GM | Value | 98.75% CI | | |
| | | | | | LL | UL* | |
| 74 | 2935.4 | 72 | 2784.3 | 1.05 | 0.71 | 1.56* | |
| Group 1 | | Group 5 | | GM ratio (Group 1/ Group 5) | | | |
| N | GM | N | GM | Value | 98.75% CI | | |
| | | | | | LL | UL* | |
| 74 | 2844.8 | 71 | 2725.6 | 1.04 | 0.79 | 1.38* | |
| Group 1 | | Group 6 | | GM ratio (Group 1/ Group 6) | | | |
| N | GM | N | GM | Value | 98.75% CI | | |
| | | | | | LL | UL* | |
| 74 | 2879.6 | 74 | 2697.0 | 1.07 | 0.79 | 1.44* | |
| N: number of subjects with both pre- and post-vaccination results available GM ratio: geometric mean ratio adjusted for baseline (pre-vaccination frequency) 98.75% CI: 98.75% confidence interval; LL: Lower limit; UL: Upper limit * Criterion for non-inferiority: UL of the 2-sided 98.75% CI on GM ratio of influenza-specific T-cells (between Group 1 and the 4 influenza adjuvanted candidate vaccine groups) < 2.0 | | | | | | | |
| Primary Efficacy Results: Frequency of influenza-specific CD4 T-cells after in vitro restimulation with pooled vaccine antigens at pre-vaccination and at Day 21 (ATP cohort for immunogenicity) | | | | | | | |
| Test Description | Group | Timing | N | N miss | GM | SD | Median |
| All Doubles | Group 1 | Pre | 74 | 1 | 1739.53 | 1190.57 | 1737.00 |
| | | PI(D21)* | 75 | 0 | 3229.25 | 1643.20 | 3538.00 |
| | Group 2 | Pre | 48 | 1 | 981.57 | 777.57 | 1153.00 |
| | | PI(D21)* | 49 | 0 | 1646.05 | 1557.22 | 1637.00 |
| | Group 3 | Pre | 72 | 2 | 1022.92 | 771.24 | 1131.00 |
| | | PI(D21)* | 70 | 4 | 3056.06 | 2059.35 | 3123.00 |
| | Group 4 | Pre | 73 | 2 | 1045.53 | 773.66 | 1066.00 |
| | | PI(D21)* | 73 | 2 | 2589.31 | 2110.15 | 3002.00 |
| | Group 5 | Pre | 72 | 3 | 963.82 | 832.87 | 993.00 |
| | | PI(D21)* | 74 | 1 | 2454.93 | 1758.20 | 2442.00 |
| | Group 6 | Pre | 75 | 0 | 992.26 | 846.24 | 1031.00 |
| | | PI(D21)* | 74 | 1 | 2428.78 | 2693.71 | 2489.00 |
| CD40L | Group 1 | Pre | 74 | 1 | 1708.23 | 1161.98 | 1716.00 |
| | | PI(D21) | 75 | 0 | 3184.90 | 1626.38 | 3498.00 |
| | Group 2 | Pre | 48 | 1 | 960.31 | 775.97 | 1155.00 |
| | | PI(D21) | 49 | 0 | 1598.34 | 1557.36 | 1524.00 |
| | Group 3 | Pre | 72 | 2 | 1009.36 | 757.59 | 1095.50 |
| | | PI(D21) | 70 | 4 | 3000.48 | 1993.91 | 3104.00 |
| | Group 4 | Pre | 73 | 2 | 1031.69 | 756.84 | 1060.00 |
| | | PI(D21) | 73 | 2 | 2524.08 | 1955.70 | 3002.00 |
| | Group 5 | Pre | 72 | 3 | 961.47 | 818.34 | 987.00 |
| | | PI(D21) | 74 | 1 | 2393.11 | 1703.55 | 2444.00 |
| | Group 6 | Pre | 75 | 0 | 974.67 | 846.51 | 1021.00 |
| | | PI(D21) | 74 | 1 | 2344.99 | 2644.06 | 2458.50 |

| | | | | | | | |
|---------------|---------|---------|----|---|---------|---------|---------|
| IFN- γ | Group 1 | Pre | 74 | 1 | 1229.24 | 1009.93 | 1236.50 |
| | | PI(D21) | 75 | 0 | 2231.99 | 1330.79 | 2564.00 |
| | Group 2 | Pre | 48 | 1 | 536.29 | 569.54 | 694.50 |
| | | PI(D21) | 49 | 0 | 993.03 | 1060.45 | 1144.00 |
| | Group 3 | Pre | 72 | 2 | 636.60 | 589.17 | 720.00 |
| | | PI(D21) | 70 | 4 | 1933.34 | 1654.67 | 1874.50 |
| | Group 4 | Pre | 73 | 2 | 634.60 | 576.45 | 634.00 |
| | | PI(D21) | 73 | 2 | 1793.56 | 1518.55 | 2015.00 |
| | Group 5 | Pre | 72 | 3 | 635.47 | 621.59 | 648.00 |
| | | PI(D21) | 74 | 1 | 1593.68 | 1170.41 | 1476.00 |
| | Group 6 | Pre | 75 | 0 | 578.83 | 609.11 | 607.00 |
| | | PI(D21) | 74 | 1 | 1568.42 | 1938.37 | 1611.00 |
| IL2 | Group 1 | Pre | 74 | 1 | 1515.11 | 1042.11 | 1538.50 |
| | | PI(D21) | 75 | 0 | 2795.81 | 1453.94 | 3084.00 |
| | Group 2 | Pre | 48 | 1 | 846.26 | 729.25 | 986.50 |
| | | PI(D21) | 49 | 0 | 1392.14 | 1413.99 | 1513.00 |
| | Group 3 | Pre | 72 | 2 | 921.13 | 709.03 | 1002.50 |
| | | PI(D21) | 70 | 4 | 2568.08 | 1758.56 | 2641.00 |
| | Group 4 | Pre | 73 | 2 | 940.01 | 704.54 | 1005.00 |
| | | PI(D21) | 73 | 2 | 2162.63 | 1787.14 | 2633.00 |
| | Group 5 | Pre | 72 | 3 | 866.08 | 786.16 | 856.50 |
| | | PI(D21) | 74 | 1 | 2063.58 | 1529.84 | 2061.50 |
| | Group 6 | Pre | 75 | 0 | 849.35 | 792.65 | 951.00 |
| | | PI(D21) | 74 | 1 | 1953.09 | 2385.11 | 2101.50 |
| TFN- α | Group 1 | Pre | 74 | 1 | 1139.68 | 1041.68 | 1101.50 |
| | | PI(D21) | 75 | 0 | 1704.02 | 1145.81 | 1829.00 |
| | Group 2 | Pre | 48 | 1 | 579.15 | 517.68 | 682.50 |
| | | PI(D21) | 49 | 0 | 915.70 | 924.44 | 937.00 |
| | Group 3 | Pre | 72 | 2 | 658.71 | 546.96 | 690.00 |
| | | PI(D21) | 70 | 4 | 1674.13 | 1502.22 | 1642.50 |
| | Group 4 | Pre | 73 | 2 | 651.02 | 556.42 | 675.00 |
| | | PI(D21) | 73 | 2 | 1377.22 | 1348.73 | 1722.00 |
| | Group 5 | Pre | 72 | 3 | 525.19 | 699.16 | 577.00 |
| | | PI(D21) | 74 | 1 | 1317.03 | 1142.85 | 1254.00 |
| | Group 6 | Pre | 75 | 0 | 605.88 | 612.85 | 612.00 |
| | | PI(D21) | 74 | 1 | 1314.91 | 1642.87 | 1275.00 |

N: number of subjects with available results

N miss: number of subjects with missing results

GM: Geometric Mean

SD: Standard Deviation

All doubles: T-cells producing at least 2 cytokines;

CD40L: T-cells producing at least CD40L and another cytokine (IL-2, IFN- γ and TNF- α)

IFN- γ : T-cells producing at least IFN- γ and another cytokine (IL-2, CD40L and TNF- α)

IL-2: T-cells producing at least IL-2 and another cytokine (TNF- α , CD40L and IFN- γ)

TNF- α : T-cells producing at least TNF- α and another cytokine (IL-2, CD40L and IFN- γ)

Pre: pre-vaccination

PI(D21): post-vaccination blood sample at Day 21

* Primary outcome variable

Secondary Outcome Variable(s):

Seropositivity rates and GMTs for HI antibodies at pre-vaccination and at Day 21 (ATP cohort for immunogenicity)

| Antibody | Group | Timing | N | $\geq 1:10$ | | | | GMT | | |
|-----------------|---------|---------|----|-------------|------|--------|------|-------|--------|-------|
| | | | | n | % | 95% CI | | value | 95% CI | |
| | | | | | | LL | UL | | LL | UL |
| A/New Caledonia | Group 1 | Pre | 75 | 42 | 56.0 | 44.1 | 67.5 | 20.7 | 14.3 | 30.2 |
| | | PI(D21) | 75 | 75 | 100 | 95.2 | 100 | 728.4 | 549.2 | 966.0 |
| | Group 2 | Pre | 49 | 38 | 77.6 | 63.4 | 88.2 | 23.5 | 16.2 | 34.1 |

| | | | | | | | | | | | |
|-----------|------------|---------|---------|----|------|------|------|-------|-------|-------|-------|
| | Group 3 | PI(D21) | 49 | 48 | 98.0 | 89.1 | 99.9 | 86.5 | 58.7 | 127.4 | |
| | | Pre | 74 | 53 | 71.6 | 59.9 | 81.5 | 23.9 | 17.6 | 32.5 | |
| | Group 4 | PI(D21) | 74 | 73 | 98.6 | 92.7 | 100 | 151.9 | 115.1 | 200.5 | |
| | | Pre | 75 | 55 | 73.3 | 61.9 | 82.9 | 24.1 | 18.1 | 32.3 | |
| | Group 5 | PI(D21) | 75 | 75 | 100 | 95.2 | 100 | 223.2 | 170.5 | 292.3 | |
| | | Pre | 75 | 62 | 82.7 | 72.2 | 90.4 | 33.9 | 24.5 | 46.9 | |
| | Group 6 | PI(D21) | 75 | 75 | 100 | 95.2 | 100 | 151.4 | 118.4 | 193.6 | |
| | | Pre | 75 | 61 | 81.3 | 70.7 | 89.4 | 33.5 | 24.5 | 45.9 | |
| | A/New York | Group 1 | PI(D21) | 75 | 75 | 100 | 95.2 | 100 | 151.3 | 119.8 | 191.1 |
| | | | Pre | 75 | 50 | 66.7 | 54.8 | 77.1 | 16.5 | 12.8 | 21.4 |
| | | Group 2 | PI(D21) | 49 | 27 | 55.1 | 40.2 | 69.3 | 12.0 | 9.2 | 15.6 |
| | | | Pre | 49 | 46 | 93.9 | 83.1 | 98.7 | 98.9 | 65.1 | 150.3 |
| Group 3 | | PI(D21) | 74 | 72 | 97.3 | 90.6 | 99.7 | 249.7 | 186.2 | 334.8 | |
| | | Pre | 74 | 39 | 52.7 | 40.7 | 64.4 | 13.0 | 10.1 | 16.7 | |
| Group 4 | | PI(D21) | 75 | 73 | 97.3 | 90.7 | 99.7 | 240.3 | 176.0 | 328.0 | |
| | | Pre | 75 | 44 | 58.7 | 46.7 | 69.9 | 16.0 | 12.1 | 21.2 | |
| Group 5 | | PI(D21) | 75 | 75 | 100 | 95.2 | 100 | 202.5 | 157.6 | 260.2 | |
| | | Pre | 75 | 49 | 65.3 | 53.5 | 76.0 | 15.5 | 12.3 | 19.6 | |
| Group 6 | | PI(D21) | 75 | 73 | 97.3 | 90.7 | 99.7 | 249.3 | 181.7 | 342.0 | |
| | | Pre | 75 | 48 | 64.0 | 52.1 | 74.8 | 17.2 | 12.9 | 22.9 | |
| B/Jiangsu | Group 1 | PI(D21) | 75 | 75 | 100 | 95.2 | 100 | 349.5 | 270.7 | 451.2 | |
| | | Pre | 75 | 57 | 76.0 | 64.7 | 85.1 | 25.2 | 18.9 | 33.6 | |
| | Group 2 | PI(D21) | 49 | 49 | 100 | 92.7 | 100 | 134.1 | 100.2 | 179.4 | |
| | | Pre | 49 | 40 | 81.6 | 68.0 | 91.2 | 31.4 | 21.8 | 45.2 | |
| | Group 3 | PI(D21) | 74 | 74 | 100 | 95.1 | 100 | 237.1 | 185.1 | 303.8 | |
| | | Pre | 74 | 58 | 78.4 | 67.3 | 87.1 | 27.7 | 21.1 | 36.5 | |
| | Group 4 | PI(D21) | 75 | 75 | 100 | 95.2 | 100 | 293.1 | 234.1 | 366.8 | |
| | | Pre | 75 | 62 | 82.7 | 72.2 | 90.4 | 38.7 | 27.7 | 54.0 | |
| | Group 5 | PI(D21) | 75 | 75 | 100 | 95.2 | 100 | 205.4 | 171.3 | 246.2 | |
| | | Pre | 75 | 66 | 88.0 | 78.4 | 94.4 | 39.2 | 30.2 | 51.0 | |
| | Group 6 | PI(D21) | 75 | 75 | 100 | 95.2 | 100 | 202.6 | 161.2 | 254.6 | |
| | | Pre | 75 | 63 | 84.0 | 73.7 | 91.4 | 30.0 | 23.2 | 38.8 | |

N: number of subjects with available results
n (%): number (percentage) of subjects with titre within the specified range
95%CI: 95% confidence interval; LL: Lower limit; UL: Upper limit
Pre: pre-vaccination
PI(D21): post-vaccination blood sample at Day 21

Secondary Outcome Variable(s):

Seropositivity rates and GMTs for HI antibodies at Day 90 and at Day 180 (ATP cohort for persistence)

| Antibody | Group | Timing | N | ≥ 1:10 | | | | GMT | | |
|-----------------|---------|----------|----|--------|------|--------|------|-------|--------|-------|
| | | | | n | % | 95% CI | | value | 95% CI | |
| | | | | | | LL | UL | | LL | UL |
| A/New Caledonia | Group 1 | PI(D90) | 75 | 75 | 100 | 95.2 | 100 | 496.4 | 370.1 | 665.7 |
| | | PI(D180) | 74 | 74 | 100 | 95.1 | 100 | 354.7 | 260.3 | 483.5 |
| | Group 2 | PI(D90) | 49 | 48 | 98.0 | 89.1 | 99.9 | 76.7 | 54.1 | 108.8 |
| | | PI(D180) | 49 | 48 | 98.0 | 89.1 | 99.9 | 62.9 | 45.4 | 87.1 |
| | Group 3 | PI(D90) | 74 | 73 | 98.6 | 92.7 | 100 | 94.2 | 74.7 | 118.8 |
| | | PI(D180) | 74 | 73 | 98.6 | 92.7 | 100 | 66.9 | 53.3 | 84.1 |
| | Group 4 | PI(D90) | 74 | 74 | 100 | 95.1 | 100 | 135.3 | 102.4 | 178.7 |
| | | PI(D180) | 74 | 74 | 100 | 95.1 | 100 | 89.1 | 67.2 | 118.2 |
| | Group 5 | PI(D90) | 74 | 74 | 100 | 95.1 | 100 | 97.4 | 78.1 | 121.4 |
| | | PI(D180) | 74 | 74 | 100 | 95.1 | 100 | 70.5 | 56.5 | 87.9 |
| | Group 6 | PI(D90) | 74 | 74 | 100 | 95.1 | 100 | 105.9 | 84.3 | 133.0 |
| | | PI(D180) | 73 | 73 | 100 | 95.1 | 100 | 81.9 | 65.1 | 103.0 |

| | | | | | | | | | | |
|-------------------|----------------|----------|----|----|------|------|------|-------|-------|-------|
| A/New York | Group 1 | PI(D90) | 75 | 74 | 98.7 | 92.8 | 100 | 130.5 | 100.8 | 168.9 |
| | | PI(D180) | 74 | 73 | 98.6 | 92.7 | 100 | 96.5 | 73.5 | 126.6 |
| | Group 2 | PI(D90) | 49 | 46 | 93.9 | 83.1 | 98.7 | 60.7 | 41.4 | 89.1 |
| | | PI(D180) | 49 | 45 | 91.8 | 80.4 | 97.7 | 43.8 | 30.2 | 63.7 |
| | Group 3 | PI(D90) | 74 | 72 | 97.3 | 90.6 | 99.7 | 99.2 | 75.2 | 131.0 |
| | | PI(D180) | 74 | 71 | 95.9 | 88.6 | 99.2 | 66.3 | 50.5 | 87.1 |
| | Group 4 | PI(D90) | 74 | 73 | 98.6 | 92.7 | 100 | 116.4 | 88.6 | 153.0 |
| | | PI(D180) | 74 | 72 | 97.3 | 90.6 | 99.7 | 71.8 | 55.6 | 92.7 |
| | Group 5 | PI(D90) | 74 | 74 | 100 | 95.1 | 100 | 93.3 | 73.2 | 119.0 |
| | | PI(D180) | 74 | 74 | 100 | 95.1 | 100 | 59.5 | 46.8 | 75.6 |
| | Group 6 | PI(D90) | 74 | 71 | 95.9 | 88.6 | 99.2 | 114.8 | 85.1 | 154.8 |
| | | PI(D180) | 73 | 70 | 95.9 | 88.5 | 99.1 | 70.4 | 53.0 | 93.4 |
| B/Jiangsu | Group 1 | PI(D90) | 75 | 75 | 100 | 95.2 | 100 | 208.2 | 161.0 | 269.3 |
| | | PI(D180) | 74 | 74 | 100 | 95.1 | 100 | 140.3 | 109.0 | 180.5 |
| | Group 2 | PI(D90) | 49 | 49 | 100 | 92.7 | 100 | 131.3 | 98.1 | 175.8 |
| | | PI(D180) | 49 | 49 | 100 | 92.7 | 100 | 94.5 | 69.2 | 129.0 |
| | Group 3 | PI(D90) | 74 | 73 | 98.6 | 92.7 | 100 | 145.6 | 110.7 | 191.6 |
| | | PI(D180) | 74 | 72 | 97.3 | 90.6 | 99.7 | 91.6 | 71.4 | 117.6 |
| | Group 4 | PI(D90) | 74 | 74 | 100 | 95.1 | 100 | 213.0 | 173.0 | 262.1 |
| | | PI(D180) | 74 | 74 | 100 | 95.1 | 100 | 128.0 | 102.6 | 159.8 |
| | Group 5 | PI(D90) | 74 | 74 | 100 | 95.1 | 100 | 147.1 | 120.7 | 179.2 |
| | | PI(D180) | 74 | 74 | 100 | 95.1 | 100 | 111.0 | 88.3 | 139.6 |
| | Group 6 | PI(D90) | 74 | 74 | 100 | 95.1 | 100 | 144.2 | 116.6 | 178.4 |
| | | PI(D180) | 73 | 73 | 100 | 95.1 | 100 | 91.4 | 74.3 | 112.3 |

GMT = geometric mean antibody titre calculated on all subjects
N = number of subjects with available results
n (%) = number (percentage) of subjects with titre within the specified range
95% CI = 95% confidence interval; LL = Lower Limit, UL = Upper Limit
PI(D90) = Post-vaccination blood sample at Day 90
PI(D180) = Post-vaccination blood sample at Day 180

Secondary Outcome Variable(s):

Seroconversion rates (SCR) for HI antibodies at Day 21 (ATP cohort for immunogenicity)

| Vaccine strain | Group | N | SCR | | | |
|------------------------|----------------|----------|------------|----------|--------------|-----------|
| | | | n | % | 95%CI | |
| | | | | | LL | UL |
| A/New Caledonia | Group 1 | 75 | 58 | 77.3 | 66.2 | 86.2 |
| | Group 2 | 49 | 15 | 30.6 | 18.3 | 45.4 |
| | Group 3 | 74 | 41 | 55.4 | 43.4 | 67.0 |
| | Group 4 | 75 | 56 | 74.7 | 63.3 | 84.0 |
| | Group 5 | 75 | 36 | 48.0 | 36.3 | 59.8 |
| | Group 6 | 75 | 39 | 52.0 | 40.2 | 63.7 |
| A/New York | Group 1 | 75 | 57 | 76.0 | 64.7 | 85.1 |
| | Group 2 | 49 | 34 | 69.4 | 54.6 | 81.7 |
| | Group 3 | 74 | 67 | 90.5 | 81.5 | 96.1 |
| | Group 4 | 75 | 62 | 82.7 | 72.2 | 90.4 |
| | Group 5 | 75 | 64 | 85.3 | 75.3 | 92.4 |
| | Group 6 | 75 | 60 | 80.0 | 69.2 | 88.4 |
| B/Jiangsu | Group 1 | 75 | 61 | 81.3 | 70.7 | 89.4 |
| | Group 2 | 49 | 22 | 44.9 | 30.7 | 59.8 |
| | Group 3 | 74 | 54 | 73.0 | 61.4 | 82.6 |
| | Group 4 | 75 | 50 | 66.7 | 54.8 | 77.1 |
| | Group 5 | 75 | 49 | 65.3 | 53.5 | 76.0 |
| | Group 6 | 75 | 53 | 70.7 | 59.0 | 80.6 |

Seroconversion defined as:

- For initially seronegative subjects, antibody titre \geq 1:40 after vaccination

| <ul style="list-style-type: none"> - For initially seropositive subjects, antibody titre after vaccination ≥ 4 fold the pre-vaccination antibody titre | | | | | | | | |
|---|---|----------|----------|-----|------|--------|------|------|
| N = number of subjects with available results | | | | | | | | |
| n (%)= number (percentage) of subjects who seroconverted | | | | | | | | |
| 95%CI: 95% confidence interval; LL: Lower limit; UL: Upper limit | | | | | | | | |
| Secondary Outcome Variable(s): | | | | | | | | |
| Seroconversion rates (SCR) for HI antibodies at Day 90 and Day 180 (ATP cohort for persistence) | | | | | | | | |
| Vaccine strain | Group | Timing | N | SCR | | | | |
| | | | | n | % | 95% CI | | |
| | | | | | | LL | UL | |
| A/New Caledonia | Group 1 | PI(D90) | 75 | 56 | 74.7 | 63.3 | 84.0 | |
| | | PI(D180) | 74 | 54 | 73.0 | 61.4 | 82.6 | |
| | Group 2 | PI(D90) | 49 | 16 | 32.7 | 19.9 | 47.5 | |
| | | PI(D180) | 49 | 10 | 20.4 | 10.2 | 34.3 | |
| | Group 3 | PI(D90) | 74 | 32 | 43.2 | 31.8 | 55.3 | |
| | | PI(D180) | 74 | 20 | 27.0 | 17.4 | 38.6 | |
| | Group 4 | PI(D90) | 74 | 38 | 51.4 | 39.4 | 63.1 | |
| | | PI(D180) | 74 | 25 | 33.8 | 23.2 | 45.7 | |
| | Group 5 | PI(D90) | 74 | 25 | 33.8 | 23.2 | 45.7 | |
| | | PI(D180) | 74 | 16 | 21.6 | 12.9 | 32.7 | |
| | Group 6 | PI(D90) | 74 | 28 | 37.8 | 26.8 | 49.9 | |
| | | PI(D180) | 73 | 15 | 20.5 | 12.0 | 31.6 | |
| | A/New York | Group 1 | PI(D90) | 75 | 55 | 73.3 | 61.9 | 82.9 |
| | | | PI(D180) | 74 | 48 | 64.9 | 52.9 | 75.6 |
| | | Group 2 | PI(D90) | 49 | 29 | 59.2 | 44.2 | 73.0 |
| | | | PI(D180) | 49 | 17 | 34.7 | 21.7 | 49.6 |
| | | Group 3 | PI(D90) | 74 | 56 | 75.7 | 64.3 | 84.9 |
| | | | PI(D180) | 74 | 40 | 54.1 | 42.1 | 65.7 |
| Group 4 | | PI(D90) | 74 | 55 | 74.3 | 62.8 | 83.8 | |
| | | PI(D180) | 74 | 40 | 54.1 | 42.1 | 65.7 | |
| Group 5 | | PI(D90) | 74 | 47 | 63.5 | 51.5 | 74.4 | |
| | | PI(D180) | 74 | 35 | 47.3 | 35.6 | 59.3 | |
| Group 6 | | PI(D90) | 74 | 48 | 64.9 | 52.9 | 75.6 | |
| | | PI(D180) | 73 | 35 | 47.9 | 36.1 | 60.0 | |
| B/Jiangsu | | Group 1 | PI(D90) | 75 | 53 | 70.7 | 59.0 | 80.6 |
| | | | PI(D180) | 74 | 45 | 60.8 | 48.8 | 72.0 |
| | | Group 2 | PI(D90) | 49 | 16 | 32.7 | 19.9 | 47.5 |
| | | | PI(D180) | 49 | 16 | 32.7 | 19.9 | 47.5 |
| | | Group 3 | PI(D90) | 74 | 38 | 51.4 | 39.4 | 63.1 |
| | | | PI(D180) | 74 | 28 | 37.8 | 26.8 | 49.9 |
| | Group 4 | PI(D90) | 74 | 44 | 59.5 | 47.4 | 70.7 | |
| | | PI(D180) | 74 | 33 | 44.6 | 33.0 | 56.6 | |
| | Group 5 | PI(D90) | 74 | 33 | 44.6 | 33.0 | 56.6 | |
| | | PI(D180) | 74 | 26 | 35.1 | 24.4 | 47.1 | |
| | Group 6 | PI(D90) | 74 | 44 | 59.5 | 47.4 | 70.7 | |
| | | PI(D180) | 73 | 25 | 34.2 | 23.5 | 46.3 | |
| | Seroconversion defined as: | | | | | | | |
| | <ul style="list-style-type: none"> - For initially seronegative subjects, antibody titre $\geq 1:40$ after vaccination - For initially seropositive subjects, antibody titre after vaccination ≥ 4 fold the pre-vaccination antibody titre | | | | | | | |
| | N = number of subjects with available results | | | | | | | |
| | n (%)= number (percentage) of subjects who seroconverted | | | | | | | |
| | 95%CI: 95% confidence interval; LL: Lower limit; UL: Upper limit | | | | | | | |
| | PI(D90) = Post-vaccination blood sample at Day 90 | | | | | | | |
| PI(D180) = Post-vaccination blood sample at Day 180 | | | | | | | | |
| Secondary Outcome Variable(s): | | | | | | | | |
| Seroconversion factor (SCF) for HI antibodies at post-vaccination (Day 21) (ATP cohort for immunogenicity) | | | | | | | | |
| Vaccine strain | Group | N | SCF | | | | | |

| | | | Value | 95%CI | |
|-----------------|---------|----|-------|-------|------|
| | | | | LL | UL |
| A/New Caledonia | Group 1 | 75 | 35.1 | 21.9 | 56.4 |
| | Group 2 | 49 | 3.7 | 2.4 | 5.7 |
| | Group 3 | 74 | 6.4 | 4.5 | 9.0 |
| | Group 4 | 75 | 9.2 | 6.4 | 13.3 |
| | Group 5 | 75 | 4.5 | 3.3 | 6.1 |
| | Group 6 | 75 | 5.0 | 3.6 | 6.9 |
| A/New York | Group 1 | 75 | 9.2 | 7.1 | 11.8 |
| | Group 2 | 49 | 8.2 | 5.7 | 11.8 |
| | Group 3 | 74 | 19.2 | 14.6 | 25.3 |
| | Group 4 | 75 | 15.0 | 11.2 | 20.2 |
| | Group 5 | 75 | 13.1 | 10.0 | 17.1 |
| | Group 6 | 75 | 14.5 | 10.4 | 20.2 |
| B/Jiangsu | Group 1 | 75 | 13.9 | 10.1 | 19.1 |
| | Group 2 | 49 | 4.3 | 3.0 | 6.1 |
| | Group 3 | 74 | 8.5 | 6.5 | 11.2 |
| | Group 4 | 75 | 7.6 | 5.6 | 10.2 |
| | Group 5 | 75 | 5.2 | 4.2 | 6.5 |
| | Group 6 | 75 | 6.7 | 5.1 | 8.9 |

N = number of subjects with available results

SCF= Fold increase in HI GMTs on post-vaccination compared to pre-vaccination time point.

95%CI: 95% confidence interval; LL: Lower limit; UL: Upper limit

Secondary Outcome Variable(s):

Seroconversion factor (SCF) for HI antibody titre at Day 90 and Day 180 (ATP cohort for persistence)

| Vaccine strain | Group | Timing | N | SCF | | |
|-----------------|---------|----------|----|-------|--------|------|
| | | | | Value | 95% CI | |
| | | | | | LL | UL |
| A/New Caledonia | Group 1 | PI(D90) | 75 | 23.9 | 15.6 | 36.8 |
| | | PI(D180) | 74 | 17.1 | 11.2 | 26.0 |
| | Group 2 | PI(D90) | 49 | 3.3 | 2.3 | 4.7 |
| | | PI(D180) | 49 | 2.7 | 1.9 | 3.7 |
| | Group 3 | PI(D90) | 74 | 3.9 | 3.0 | 5.2 |
| | | PI(D180) | 74 | 2.8 | 2.2 | 3.6 |
| | Group 4 | PI(D90) | 74 | 5.7 | 4.0 | 8.1 |
| | | PI(D180) | 74 | 3.7 | 2.6 | 5.4 |
| | Group 5 | PI(D90) | 74 | 2.9 | 2.2 | 3.9 |
| | | PI(D180) | 74 | 2.1 | 1.6 | 2.8 |
| | Group 6 | PI(D90) | 74 | 3.1 | 2.3 | 4.1 |
| | | PI(D180) | 73 | 2.4 | 1.8 | 3.2 |
| A/New York | Group 1 | PI(D90) | 75 | 7.9 | 6.3 | 10.0 |
| | | PI(D180) | 74 | 5.8 | 4.7 | 7.3 |
| | Group 2 | PI(D90) | 49 | 5.1 | 3.7 | 7.0 |
| | | PI(D180) | 49 | 3.7 | 2.7 | 4.9 |
| | Group 3 | PI(D90) | 74 | 7.6 | 6.1 | 9.6 |
| | | PI(D180) | 74 | 5.1 | 4.2 | 6.3 |
| | Group 4 | PI(D90) | 74 | 7.3 | 5.7 | 9.2 |
| | | PI(D180) | 74 | 4.5 | 3.5 | 5.8 |
| | Group 5 | PI(D90) | 74 | 6.2 | 4.8 | 7.9 |
| | | PI(D180) | 74 | 3.9 | 3.1 | 5.0 |
| | Group 6 | PI(D90) | 74 | 6.6 | 5.0 | 8.6 |
| | | PI(D180) | 73 | 4.1 | 3.2 | 5.3 |
| B/Jiangsu | Group 1 | PI(D90) | 75 | 8.3 | 6.2 | 11.0 |
| | | PI(D180) | 74 | 5.4 | 4.3 | 7.0 |
| | Group 2 | PI(D90) | 49 | 4.2 | 3.0 | 5.9 |

| | | | | | | |
|--|----------------|----------|----|-----|-----|-----|
| | | PI(D180) | 49 | 3.0 | 2.2 | 4.1 |
| | Group 3 | PI(D90) | 74 | 5.3 | 4.2 | 6.6 |
| | | PI(D180) | 74 | 3.3 | 2.6 | 4.1 |
| | Group 4 | PI(D90) | 74 | 5.6 | 4.3 | 7.2 |
| | | PI(D180) | 74 | 3.3 | 2.6 | 4.3 |
| | Group 5 | PI(D90) | 74 | 3.7 | 3.0 | 4.6 |
| | | PI(D180) | 74 | 2.8 | 2.2 | 3.6 |
| | Group 6 | PI(D90) | 74 | 4.8 | 3.7 | 6.1 |
| | | PI(D180) | 73 | 3.1 | 2.5 | 3.9 |

N = Number of subjects with pre- and post-vaccination results available
SCF= Fold increase in HI GMTs on post-vaccination compared to pre-vaccination time point.
95% CI = 95% confidence interval, LL = Lower Limit, UL = Upper Limit
PI(D90) = Post-vaccination blood sample at Day 90
PI(D180) = Post-vaccination blood sample at Day 180

Secondary Outcome Variable(s):

Seroprotection rates (SPR) for HI antibodies at pre-vaccination and at Day 21 (ATP cohort for immunogenicity)

| Vaccine strain | Group | Timing | N | SPR | | | |
|-----------------|---------|---------|----|-----|------|--------|-------|
| | | | | n | % | 95% CI | |
| | | | | | | LL | UL |
| A/New Caledonia | Group 1 | Pre | 75 | 27 | 36.0 | 25.23 | 47.91 |
| | | PI(D21) | 75 | 75 | 100 | 95.20 | 100 |
| | Group 2 | Pre | 49 | 18 | 36.7 | 23.42 | 51.71 |
| | | PI(D21) | 49 | 35 | 71.4 | 56.74 | 83.42 |
| | Group 3 | Pre | 74 | 32 | 43.2 | 31.77 | 55.28 |
| | | PI(D21) | 74 | 67 | 90.5 | 81.48 | 96.11 |
| | Group 4 | Pre | 75 | 33 | 44.0 | 32.55 | 55.94 |
| | | PI(D21) | 75 | 74 | 98.7 | 92.79 | 99.97 |
| | Group 5 | Pre | 75 | 41 | 54.7 | 42.75 | 66.21 |
| | | PI(D21) | 75 | 73 | 97.3 | 90.70 | 99.68 |
| | Group 6 | Pre | 75 | 41 | 54.7 | 42.75 | 66.21 |
| | | PI(D21) | 75 | 70 | 93.3 | 85.12 | 97.80 |
| A/New York | Group 1 | Pre | 75 | 24 | 32.0 | 21.69 | 43.78 |
| | | PI(D21) | 75 | 70 | 93.3 | 85.12 | 97.80 |
| | Group 2 | Pre | 49 | 9 | 18.4 | 8.76 | 32.02 |
| | | PI(D21) | 49 | 40 | 81.6 | 67.98 | 91.24 |
| | Group 3 | Pre | 74 | 16 | 21.6 | 12.89 | 32.72 |
| | | PI(D21) | 74 | 70 | 94.6 | 86.73 | 98.51 |
| | Group 4 | Pre | 75 | 24 | 32.0 | 21.69 | 43.78 |
| | | PI(D21) | 75 | 70 | 93.3 | 85.12 | 97.80 |
| | Group 5 | Pre | 75 | 24 | 32.0 | 21.69 | 43.78 |
| | | PI(D21) | 75 | 72 | 96.0 | 88.75 | 99.17 |
| | Group 6 | Pre | 75 | 23 | 30.7 | 20.53 | 42.38 |
| | | PI(D21) | 75 | 70 | 93.3 | 85.12 | 97.80 |
| B/Jiangsu | Group 1 | Pre | 75 | 35 | 46.7 | 35.05 | 58.55 |
| | | PI(D21) | 75 | 75 | 100 | 95.20 | 100 |
| | Group 2 | Pre | 49 | 23 | 46.9 | 32.53 | 61.73 |
| | | PI(D21) | 49 | 46 | 93.9 | 83.13 | 98.72 |
| | Group 3 | Pre | 74 | 37 | 50.0 | 38.14 | 61.86 |
| | | PI(D21) | 74 | 71 | 95.9 | 88.61 | 99.16 |
| | Group 4 | Pre | 75 | 40 | 53.3 | 41.45 | 64.95 |
| | | PI(D21) | 75 | 74 | 98.7 | 92.79 | 99.97 |
| | Group 5 | Pre | 75 | 45 | 60.0 | 48.04 | 71.15 |
| | | PI(D21) | 75 | 75 | 100 | 95.20 | 100 |
| | Group 6 | Pre | 75 | 40 | 53.3 | 41.45 | 64.95 |
| | | PI(D21) | 75 | 73 | 97.3 | 90.70 | 99.68 |

N = number of subjects with available results
n (%) = Number (percentage) of seroprotected subjects (HI titre ≥ 1:40)
95%CI: =95% confidence interval; LL: Lower limit; UL: Upper limit
Pre= pre-vaccination
PI(D21): post-vaccination blood sample at Day 21

Secondary Outcome Variable(s):
Seroprotection rates (SPR) for HI antibody titre at Day 90 and Day 180 (ATP cohort for persistence)

| Vaccine strain | Group | Timing | N | SPR | | | | |
|-----------------|------------|----------|----------|-----|------|--------|------|------|
| | | | | n | % | 95% CI | | |
| | | | | | | LL | UL | |
| A/New Caledonia | Group 1 | PI(D90) | 75 | 75 | 100 | 95.2 | 100 | |
| | | PI(D180) | 74 | 72 | 97.3 | 90.6 | 99.7 | |
| | Group 2 | PI(D90) | 49 | 37 | 75.5 | 61.1 | 86.7 | |
| | | PI(D180) | 49 | 34 | 69.4 | 54.6 | 81.7 | |
| | Group 3 | PI(D90) | 74 | 66 | 89.2 | 79.8 | 95.2 | |
| | | PI(D180) | 74 | 58 | 78.4 | 67.3 | 87.1 | |
| | Group 4 | PI(D90) | 74 | 68 | 91.9 | 83.2 | 97.0 | |
| | | PI(D180) | 74 | 62 | 83.8 | 73.4 | 91.3 | |
| | Group 5 | PI(D90) | 74 | 71 | 95.9 | 88.6 | 99.2 | |
| | | PI(D180) | 74 | 60 | 81.1 | 70.3 | 89.3 | |
| | Group 6 | PI(D90) | 74 | 69 | 93.2 | 84.9 | 97.8 | |
| | | PI(D180) | 73 | 62 | 84.9 | 74.6 | 92.2 | |
| | A/New York | Group 1 | PI(D90) | 75 | 68 | 90.7 | 81.7 | 96.2 |
| | | | PI(D180) | 74 | 64 | 86.5 | 76.5 | 93.3 |
| Group 2 | | PI(D90) | 49 | 35 | 71.4 | 56.7 | 83.4 | |
| | | PI(D180) | 49 | 28 | 57.1 | 42.2 | 71.2 | |
| Group 3 | | PI(D90) | 74 | 64 | 86.5 | 76.5 | 93.3 | |
| | | PI(D180) | 74 | 54 | 73.0 | 61.4 | 82.6 | |
| Group 4 | | PI(D90) | 74 | 67 | 90.5 | 81.5 | 96.1 | |
| | | PI(D180) | 74 | 58 | 78.4 | 67.3 | 87.1 | |
| Group 5 | | PI(D90) | 74 | 62 | 83.8 | 73.4 | 91.3 | |
| | | PI(D180) | 74 | 54 | 73.0 | 61.4 | 82.6 | |
| Group 6 | | PI(D90) | 74 | 65 | 87.8 | 78.2 | 94.3 | |
| | | PI(D180) | 73 | 54 | 74.0 | 62.4 | 83.5 | |
| B/Jiangsu | | Group 1 | PI(D90) | 75 | 71 | 94.7 | 86.9 | 98.5 |
| | | | PI(D180) | 74 | 67 | 90.5 | 81.5 | 96.1 |
| | Group 2 | PI(D90) | 49 | 47 | 95.9 | 86.0 | 99.5 | |
| | | PI(D180) | 49 | 41 | 83.7 | 70.3 | 92.7 | |
| | Group 3 | PI(D90) | 74 | 66 | 89.2 | 79.8 | 95.2 | |
| | | PI(D180) | 74 | 63 | 85.1 | 75.0 | 92.3 | |
| | Group 4 | PI(D90) | 74 | 72 | 97.3 | 90.6 | 99.7 | |
| | | PI(D180) | 74 | 70 | 94.6 | 86.7 | 98.5 | |
| | Group 5 | PI(D90) | 74 | 72 | 97.3 | 90.6 | 99.7 | |
| | | PI(D180) | 74 | 69 | 93.2 | 84.9 | 97.8 | |
| | Group 6 | PI(D90) | 74 | 67 | 90.5 | 81.5 | 96.1 | |
| | | PI(D180) | 73 | 63 | 86.3 | 76.2 | 93.2 | |

N = Number of subjects with available results
n (%) = Number (percentage) of seroprotected subjects (HI titre ≥ 1:40)
95% CI = 95% confidence interval, LL = Lower Limit, UL = Upper Limit
PI(D90) = Post-vaccination blood sample at Day 90
PI(D180) = Post-vaccination blood sample at Day 180

Secondary Outcome Variable(s):
Number and percentage of subjects reporting solicited local symptoms during the 7-day (Days 0-6) follow-up period after vaccination (Total Vaccinated cohort)

| Symptom | Intensity | Group 1 | | | Group 2 | | | Group 3 | | |
|---------|-----------|---------|---|---------|---------|---|---------|---------|---|---------|
| | | n | % | 95 % CI | n | % | 95 % CI | n | % | 95 % CI |

| | | LL | | | | UL | | | | LL | | | | UL | | | | | | | | | |
|---|----------------------------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|----|--|--|--|--------|--|--|--|--|--|
| | | N = 75 | | | | | | | | N = 50 | | | | | | | | N = 75 | | | | | |
| Haematoma | Any | 3 | 4.0 | 0.8 | 11.2 | 2 | 4.0 | 0.5 | 13.7 | 4 | 5.3 | 1.5 | 13.1 | | | | | | | | | | |
| | > 50 mm | 0 | 0.0 | 0.0 | 4.8 | 0 | 0.0 | 0.0 | 7.1 | 1 | 1.3 | 0.0 | 7.2 | | | | | | | | | | |
| Pain | Any | 58 | 77.3 | 66.2 | 86.2 | 8 | 16.0 | 7.2 | 29.1 | 53 | 70.7 | 59.0 | 80.6 | | | | | | | | | | |
| | Grade 3 | 0 | 0.0 | 0.0 | 4.8 | 0 | 0.0 | 0.0 | 7.1 | 1 | 1.3 | 0.0 | 7.2 | | | | | | | | | | |
| Redness | Any | 12 | 16.0 | 8.6 | 26.3 | 5 | 10.0 | 3.3 | 21.8 | 11 | 14.7 | 7.6 | 24.7 | | | | | | | | | | |
| | > 50 mm | 0 | 0.0 | 0.0 | 4.8 | 0 | 0.0 | 0.0 | 7.1 | 3 | 4.0 | 0.8 | 11.2 | | | | | | | | | | |
| Swelling | Any | 9 | 12.0 | 5.6 | 21.6 | 1 | 2.0 | 0.1 | 10.6 | 14 | 18.7 | 10.6 | 29.3 | | | | | | | | | | |
| | > 50 mm | 0 | 0.0 | 0.0 | 4.8 | 0 | 0.0 | 0.0 | 7.1 | 5 | 6.7 | 2.2 | 14.9 | | | | | | | | | | |
| | | Group 4 | | | | Group 5 | | | | Group 6 | | | | | | | | | | | | | |
| | | N = 75 | | | | N = 75 | | | | N = 75 | | | | | | | | | | | | | |
| Haematoma | Any | 4 | 5.3 | 1.5 | 13.1 | 6 | 8.0 | 3.0 | 16.6 | 1 | 1.3 | 0.0 | 7.2 | | | | | | | | | | |
| | > 50 mm | 0 | 0.0 | 0.0 | 4.8 | 0 | 0.0 | 0.0 | 4.8 | 0 | 0.0 | 0.0 | 4.8 | | | | | | | | | | |
| Pain | Any | 54 | 72.0 | 60.4 | 81.8 | 51 | 68.0 | 56.2 | 78.3 | 42 | 56.0 | 44.1 | 67.5 | | | | | | | | | | |
| | Grade 3 | 1 | 1.3 | 0.0 | 7.2 | 2 | 2.7 | 0.3 | 9.3 | 0 | 0.0 | 0.0 | 4.8 | | | | | | | | | | |
| Redness | Any | 22 | 29.3 | 19.4 | 41.0 | 17 | 22.7 | 13.8 | 33.8 | 11 | 14.7 | 7.6 | 24.7 | | | | | | | | | | |
| | > 50 mm | 9 | 12.0 | 5.6 | 21.6 | 5 | 6.7 | 2.2 | 14.9 | 4 | 5.3 | 1.5 | 13.1 | | | | | | | | | | |
| Swelling | Any | 15 | 20.0 | 11.6 | 30.8 | 12 | 16.0 | 8.6 | 26.3 | 9 | 12.0 | 5.6 | 21.6 | | | | | | | | | | |
| | > 50 mm | 6 | 8.0 | 3.0 | 16.6 | 4 | 5.3 | 1.5 | 13.1 | 3 | 4.0 | 0.8 | 11.2 | | | | | | | | | | |
| <p>N: number of subjects with the documented dose n (%): number (percentage) of subjects reporting at least once the symptom Any: occurrence of any local symptom regardless of intensity grade Grade 3 pain: pain which prevented normal everyday activity 95% CI: exact 95% confidence interval; LL: lower limit, UL: upper limit</p> | | | | | | | | | | | | | | | | | | | | | | | |
| Secondary Outcome Variable(s): | | | | | | | | | | | | | | | | | | | | | | | |
| Number and percentage of subjects reporting solicited general symptoms during the 7-day (Days 0-6) follow-up period after vaccination (Total Vaccinated cohort) | | | | | | | | | | | | | | | | | | | | | | | |
| Symptom | Intensity/ Relationship | Group 1 | | | | Group 2 | | | | Group 3 | | | | | | | | | | | | | |
| | | n | % | 95 % CI | | n | % | 95 % CI | | n | % | 95 % CI | | | | | | | | | | | |
| | | | | LL | UL | | | LL | UL | | | LL | UL | | | | | | | | | | |
| | | N = 75 | | | | N = 50 | | | | N = 75 | | | | | | | | | | | | | |
| Fatigue | Any | 34 | 45.3 | 33.8 | 57.3 | 7 | 14.0 | 5.8 | 26.7 | 31 | 41.3 | 30.1 | 53.3 | | | | | | | | | | |
| | Grade 3 | 1 | 1.3 | 0.0 | 7.2 | 0 | 0.0 | 0.0 | 7.1 | 2 | 2.7 | 0.3 | 9.3 | | | | | | | | | | |
| | Related | 26 | 34.7 | 24.0 | 46.5 | 7 | 14.0 | 5.8 | 26.7 | 27 | 36.0 | 25.2 | 47.9 | | | | | | | | | | |
| Fever (axillary) | ≥ 37.5°C | 2 | 2.7 | 0.3 | 9.3 | 0 | 0.0 | 0.0 | 7.1 | 4 | 5.3 | 1.5 | 13.1 | | | | | | | | | | |
| | > 39°C | 0 | 0.0 | 0.0 | 4.8 | 0 | 0.0 | 0.0 | 7.1 | 1 | 1.3 | 0.0 | 7.2 | | | | | | | | | | |
| | Related | 2 | 2.7 | 0.3 | 9.3 | 0 | 0.0 | 0.0 | 7.1 | 4 | 5.3 | 1.5 | 13.1 | | | | | | | | | | |
| Headache | Any | 24 | 32.0 | 21.7 | 43.8 | 12 | 24.0 | 13.1 | 38.2 | 28 | 37.3 | 26.4 | 49.3 | | | | | | | | | | |
| | Grade 3 | 0 | 0.0 | 0.0 | 4.8 | 0 | 0.0 | 0.0 | 7.1 | 1 | 1.3 | 0.0 | 7.2 | | | | | | | | | | |
| | Related | 17 | 22.7 | 13.8 | 33.8 | 8 | 16.0 | 7.2 | 29.1 | 26 | 34.7 | 24.0 | 46.5 | | | | | | | | | | |
| Joint pain | Any | 5 | 6.7 | 2.2 | 14.9 | 4 | 8.0 | 2.2 | 19.2 | 19 | 25.3 | 16.0 | 36.7 | | | | | | | | | | |
| | Grade 3 | 0 | 0.0 | 0.0 | 4.8 | 0 | 0.0 | 0.0 | 7.1 | 1 | 1.3 | 0.0 | 7.2 | | | | | | | | | | |
| | Related | 4 | 5.3 | 1.5 | 13.1 | 2 | 4.0 | 0.5 | 13.7 | 17 | 22.7 | 13.8 | 33.8 | | | | | | | | | | |
| Muscle aches | Any | 14 | 18.7 | 10.6 | 29.3 | 3 | 6.0 | 1.3 | 16.5 | 25 | 33.3 | 22.9 | 45.2 | | | | | | | | | | |
| | Grade 3 | 0 | 0.0 | 0.0 | 4.8 | 0 | 0.0 | 0.0 | 7.1 | 1 | 1.3 | 0.0 | 7.2 | | | | | | | | | | |
| | Related | 11 | 14.7 | 7.6 | 24.7 | 2 | 4.0 | 0.5 | 13.7 | 24 | 32.0 | 21.7 | 43.8 | | | | | | | | | | |
| Shivering | Any | 6 | 8.0 | 3.0 | 16.6 | 3 | 6.0 | 1.3 | 16.5 | 18 | 24.0 | 14.9 | 35.3 | | | | | | | | | | |
| | Grade 3 | 0 | 0.0 | 0.0 | 4.8 | 0 | 0.0 | 0.0 | 7.1 | 1 | 1.3 | 0.0 | 7.2 | | | | | | | | | | |
| | Related | 4 | 5.3 | 1.5 | 13.1 | 2 | 4.0 | 0.5 | 13.7 | 18 | 24.0 | 14.9 | 35.3 | | | | | | | | | | |
| | | Group 4 | | | | Group 5 | | | | Group 6 | | | | | | | | | | | | | |
| | | N = 75 | | | | N = 75 | | | | N = 75 | | | | | | | | | | | | | |
| Fatigue | Any | 34 | 45.3 | 33.8 | 57.3 | 31 | 41.3 | 30.1 | 53.3 | 22 | 29.3 | 19.4 | 41.0 | | | | | | | | | | |
| | Grade 3 | 1 | 1.3 | 0.0 | 7.2 | 5 | 6.7 | 2.2 | 14.9 | 1 | 1.3 | 0.0 | 7.2 | | | | | | | | | | |
| | Related | 34 | 45.3 | 33.8 | 57.3 | 31 | 41.3 | 30.1 | 53.3 | 19 | 25.3 | 16.0 | 36.7 | | | | | | | | | | |

| | | | | | | | | | | | | | |
|-------------------------|----------|----|------|------|------|----|------|------|------|----|------|------|------|
| Fever (axillary) | ≥ 37.5°C | 6 | 8.0 | 3.0 | 16.6 | 7 | 9.3 | 3.8 | 18.3 | 4 | 5.3 | 1.5 | 13.1 |
| | > 39°C | 1 | 1.3 | 0.0 | 7.2 | 0 | 0.0 | 0.0 | 4.8 | 0 | 0.0 | 0.0 | 4.8 |
| | Related | 5 | 6.7 | 2.2 | 14.9 | 7 | 9.3 | 3.8 | 18.3 | 4 | 5.3 | 1.5 | 13.1 |
| Headache | Any | 27 | 36.0 | 25.2 | 47.9 | 21 | 28.0 | 18.2 | 39.6 | 14 | 18.7 | 10.6 | 29.3 |
| | Grade 3 | 1 | 1.3 | 0.0 | 7.2 | 1 | 1.3 | 0.0 | 7.2 | 0 | 0.0 | 0.0 | 4.8 |
| | Related | 25 | 33.3 | 22.9 | 45.2 | 20 | 26.7 | 17.1 | 38.1 | 14 | 18.7 | 10.6 | 29.3 |
| Joint pain | Any | 13 | 17.3 | 9.6 | 27.8 | 23 | 30.7 | 20.5 | 42.4 | 17 | 22.7 | 13.8 | 33.8 |
| | Grade 3 | 0 | 0.0 | 0.0 | 4.8 | 1 | 1.3 | 0.0 | 7.2 | 1 | 1.3 | 0.0 | 7.2 |
| | Related | 12 | 16.0 | 8.6 | 26.3 | 20 | 26.7 | 17.1 | 38.1 | 14 | 18.7 | 10.6 | 29.3 |
| Muscle aches | Any | 25 | 33.3 | 22.9 | 45.2 | 26 | 34.7 | 24.0 | 46.5 | 21 | 28.0 | 18.2 | 39.6 |
| | Grade 3 | 1 | 1.3 | 0.0 | 7.2 | 3 | 4.0 | 0.8 | 11.2 | 2 | 2.7 | 0.3 | 9.3 |
| | Related | 25 | 33.3 | 22.9 | 45.2 | 25 | 33.3 | 22.9 | 45.2 | 18 | 24.0 | 14.9 | 35.3 |
| Shivering | Any | 21 | 28.0 | 18.2 | 39.6 | 27 | 36.0 | 25.2 | 47.9 | 13 | 17.3 | 9.6 | 27.8 |
| | Grade 3 | 2 | 2.7 | 0.3 | 9.3 | 3 | 4.0 | 0.8 | 11.2 | 2 | 2.7 | 0.3 | 9.3 |
| | Related | 20 | 26.7 | 17.1 | 38.1 | 27 | 36.0 | 25.2 | 47.9 | 13 | 17.3 | 9.6 | 27.8 |

N: number of subjects with the documented dose

n (%): number (percentage) of subjects reporting at least once the symptom

Any: occurrence of any general symptom regardless of intensity grade and relationship to vaccination

Grade 3: symptoms that prevented normal activity

Related: general symptom assessed by the investigator as causally related to the study vaccination

95% CI: exact 95% confidence interval; LL: lower limit, UL: upper limit

Safety Results: Number (%) of subjects with unsolicited Adverse Events (AEs) within the 21-day post-vaccination period (Total Vaccinated cohort)

| All Adverse Events - On-Therapy (occurring within Days 0-20 following vaccination) | Group 1 N = 75 | Group 2 N = 50 | Group 3 N = 75 | Group 4 N = 75 | Group 5 N = 75 | Group 6 N = 75 |
|---|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Subjects with any AE(s), n (%) | 37 (49.3) | 6 (12.0) | 27 (36.0) | 26 (34.7) | 31 (41.3) | 24 (32.0) |
| Subjects with Grade 3 AEs, n (%) | 1 (1.3) | 0 (0.0) | 4 (5.3) | 6 (8.0) | 4 (5.3) | 3 (4.0) |
| Subjects with related AEs, n (%) | 11 (14.7) | 2 (4.0) | 9 (12.0) | 14 (18.7) | 18 (24.0) | 5 (6.7) |
| Lymphadenitis | - | - | 1 (1.3) | - | - | - |
| Coronary artery disease | - | - | - | - | 1 (1.3) | - |
| Tinnitus | - | - | - | - | 1 (1.3) | - |
| Vertigo | - | - | 1 (1.3) | - | 2 (2.7) | - |
| Conjunctivitis | - | - | - | 1 (1.3) | - | - |
| Abdominal pain upper | 3 (4.0) | - | - | - | - | - |
| Cheilitis | - | - | - | - | 1 (1.3) | - |
| Diarrhoea | - | - | 1 (1.3) | - | - | 4 (5.3) |
| Dyspepsia | - | - | - | 1 (1.3) | - | - |
| Enteritis | - | - | - | - | 1 (1.3) | - |
| Gastrointestinal disorder | - | - | 1 (1.3) | - | - | - |
| Nausea | 2 (2.7) | - | 1 (1.3) | 2 (2.7) | 2 (2.7) | 1 (1.3) |
| Toothache | - | - | 1 (1.3) | - | - | 1 (1.3) |
| Vomiting | - | - | - | - | 1 (1.3) | - |
| Asthenia | 1 (1.3) | - | - | - | - | - |
| Chills | - | - | - | 1 (1.3) | - | - |
| Fatigue | - | - | - | 1 (1.3) | - | - |
| Feeling hot | - | - | - | 1 (1.3) | - | - |
| Influenza like illness | 3 (4.0) | 1 (2.0) | 1 (1.3) | - | 4 (5.3) | 2 (2.7) |
| Injection site discolouration | - | - | 1 (1.3) | - | 1 (1.3) | - |
| Injection site induration | - | - | 1 (1.3) | - | 1 (1.3) | - |
| Injection site irritation | - | - | - | 1 (1.3) | - | - |
| Injection site pruritus | 1 (1.3) | 1 (2.0) | - | - | 1 (1.3) | - |
| Injection site reaction | 2 (2.7) | 1 (2.0) | 1 (1.3) | - | 2 (2.7) | - |
| Injection site warmth | - | - | - | 1 (1.3) | 1 (1.3) | - |
| Malaise | 1 (1.3) | - | - | 2 (2.7) | 1 (1.3) | 1 (1.3) |

| | | | | | | |
|-----------------------------------|-----------|---------|---------|---------|---------|---------|
| Oedema peripheral | - | - | 1 (1.3) | - | - | - |
| Pain | - | - | - | 1 (1.3) | - | - |
| Hypersensitivity | - | - | - | 1 (1.3) | - | - |
| Bronchitis | - | 1 (2.0) | - | - | 3 (4.0) | - |
| Campylobacter infection | 1 (1.3) | - | - | - | - | - |
| Cystitis | - | - | - | - | 1 (1.3) | - |
| Gastroenteritis | - | - | 1 (1.3) | - | - | - |
| Herpes simplex | 1 (1.3) | - | 1 (1.3) | 1 (1.3) | - | 1 (1.3) |
| Herpes zoster | - | - | - | 1 (1.3) | - | - |
| Nasopharyngitis | 5 (6.7) | 1 (2.0) | 3 (4.0) | 2 (2.7) | 3 (4.0) | 2 (2.7) |
| Oral candidiasis | - | - | 1 (1.3) | - | - | - |
| Pharyngitis | 1 (1.3) | - | - | 1 (1.3) | - | 1 (1.3) |
| Rhinitis | 2 (2.7) | 2 (4.0) | 2 (2.7) | 1 (1.3) | 1 (1.3) | - |
| Sinusitis | 1 (1.3) | - | 1 (1.3) | - | - | - |
| Upper respiratory tract infection | 1 (1.3) | - | 2 (2.7) | 3 (4.0) | 1 (1.3) | 1 (1.3) |
| Urinary tract infection | - | - | - | 1 (1.3) | - | - |
| Arthropod bite | - | - | 1 (1.3) | - | - | - |
| Fall | - | - | 1 (1.3) | - | - | - |
| Joint injury | - | - | - | - | - | 1 (1.3) |
| Anorexia | - | - | 1 (1.3) | - | - | - |
| Hypercholesterolaemia | - | - | 1 (1.3) | - | - | - |
| Hyperglycaemia | - | - | - | 1 (1.3) | - | - |
| Arthralgia | - | - | 1 (1.3) | - | - | - |
| Back pain | 1 (1.3) | - | - | - | - | 1 (1.3) |
| Chest wall pain | - | - | 1 (1.3) | - | - | - |
| Gouty arthritis | - | - | 1 (1.3) | - | - | - |
| Joint effusion | - | - | - | - | - | 1 (1.3) |
| Muscle spasms | - | - | - | - | 1 (1.3) | - |
| Musculoskeletal stiffness | 2 (2.7) | - | - | 1 (1.3) | 1 (1.3) | - |
| Myalgia | 2 (2.7) | - | 1 (1.3) | - | - | 1 (1.3) |
| Neck pain | - | - | 1 (1.3) | - | - | - |
| Pain in extremity | - | - | 1 (1.3) | 1 (1.3) | 1 (1.3) | 1 (1.3) |
| Pain in jaw | 1 (1.3) | - | - | - | - | - |
| Tendonitis | 2 (2.7) | - | 1 (1.3) | - | - | - |
| Dysaesthesia | - | - | - | 1 (1.3) | - | - |
| Headache | 10 (13.3) | - | 1 (1.3) | - | 1 (1.3) | 3 (4.0) |
| Migraine | - | - | - | - | 1 (1.3) | - |
| Paraesthesia | - | - | - | 2 (2.7) | 1 (1.3) | - |
| Syncope | - | - | - | 1 (1.3) | - | - |
| Insomnia | - | - | 1 (1.3) | - | 2 (2.7) | - |
| Listless | - | - | 1 (1.3) | 1 (1.3) | - | - |
| Renal colic | - | - | - | 1 (1.3) | - | - |
| Dysmenorrhoea | 4 (5.3) | - | - | - | - | - |
| Scrotal ulcer | - | - | - | - | - | 1 (1.3) |
| Cough | 2 (2.7) | - | 1 (1.3) | - | - | 1 (1.3) |
| Dysphonia | - | - | - | 1 (1.3) | - | 1 (1.3) |
| Increased upper airway secretion | - | - | - | - | - | 1 (1.3) |
| Pharyngolaryngeal pain | 3 (4.0) | - | 1 (1.3) | 1 (1.3) | - | 1 (1.3) |
| Pleuritic pain | - | - | - | - | 1 (1.3) | - |
| Cold sweat | - | - | 1 (1.3) | - | - | - |
| Eczema | - | - | 1 (1.3) | - | - | - |
| Hyperhidrosis | - | - | - | - | 2 (2.7) | - |
| Rash | 1 (1.3) | - | - | - | - | - |
| Flushing | - | - | - | 1 (1.3) | 1 (1.3) | - |
| Hypertension | - | - | 2 (2.7) | 1 (1.3) | - | - |

| | | | | | | |
|---|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| -: AE absent | | | | | | |
| Grade 3 =event that prevented normal everyday activity | | | | | | |
| Related = event assessed by the investigator as causally related to the study vaccination | | | | | | |
| Safety Results: Number (%) of subjects with Serious Adverse Events (SAEs) during the entire study period (Total Vaccinated cohort) | | | | | | |
| Serious adverse event, n (%) [n considered by the investigator to be related to study medication] | | | | | | |
| All SAEs | Group 1 N = 75 | Group 2 N = 50 | Group 3 N = 75 | Group 4 N = 75 | Group 5 N = 75 | Group 6 N = 75 |
| Subjects with any SAE(s), n (%) [n assessed by the investigator as related] | 0 (0.0) [0] | 3 (6.0) [0] | 5 (6.7) [0] | 6 (8.0) [0] | 4 (5.3) [0] | 6 (8.0) [0] |
| Colon cancer | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] | 1 (1.3) [0] | 0 (0.0) [0] | 1 (1.3) [0] |
| Coronary artery disease | 0 (0.0) [0] | 1 (2.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] | 1 (1.3) [0] |
| Atrial fibrillation | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] | 1 (1.3) [0] | 0 (0.0) [0] | 0 (0.0) [0] |
| Cholecystitis acute | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 2 (2.7) [0] |
| Inguinal hernia | 0 (0.0) [0] | 1 (2.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] | 0 (0.0) [0] |
| Calculus urinary | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] |
| Cardiac failure | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] | 0 (0.0) [0] | 0 (0.0) [0] |
| Cerebrovascular accident | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] |
| Diabetes mellitus inadequate control | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] | 0 (0.0) [0] |
| Diverticulum | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] |
| Dyspnoea | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] | 0 (0.0) [0] | 0 (0.0) [0] |
| Fibula fracture | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] |
| Head injury | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] |
| Intestinal obstruction | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] |
| Ligament rupture | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] |
| Lumbar radiculopathy | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] | 0 (0.0) [0] | 0 (0.0) [0] |
| Malaise | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] | 0 (0.0) [0] | 0 (0.0) [0] |
| Myocardial infarction | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] |
| Oedema peripheral | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] | 0 (0.0) [0] | 0 (0.0) [0] |
| Osteoarthritis | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] | 0 (0.0) [0] |
| Prostate cancer | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] |
| Syncope | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] | 0 (0.0) [0] | 0 (0.0) [0] |
| Transient ischemic attack | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] | 0 (0.0) [0] | 0 (0.0) [0] |
| Urinary retention | 0 (0.0) [0] | 1 (2.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] |
| Fatal SAEs | Group 1 N = 75 | Group 2 N = 50 | Group 3 N = 75 | Group 4 N = 75 | Group 5 N = 75 | Group 6 N = 75 |
| Subjects with fatal SAE(s), n (%) [n assessed by the investigator as related] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] |
| Myocardial infarction | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 0 (0.0) [0] | 1 (1.3) [0] |

Conclusion: The frequency of influenza-specific T-cells (per 10⁶ T-cells) producing at least 2 cytokines in elderly subjects measured as GM (geometric means) on Day 21 was 3229.25, 1646.05, 3056.06, 2589.31, 2454.93 and 2428.78 in groups 1 to 6, respectively.

Unsolicited AEs were reported by 37 (49.3%), 6 (12.0%), 27 (36.0%), 26 (34.7%), 31 (41.3%) and 24 (32.0%) subjects in groups 1 to 6, respectively. During the course of the study, SAEs were reported in 3 (6.0%) subjects in Group 2, 5 (6.7%) in Group 3, 6 (8.0%) in Group 4, 4 (5.3%) in Group 5 and 6 (8.0%) in Group 6. One fatal SAE occurred in Group 6. The reported SAEs were all assessed by the investigators as not related to the study vaccination.

Date updated: 08-July-2014