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Study No.: 113574 (FLU D-PAN H1N1-021)
Title: Safety and immunogenicity study of GSK Biologicals' influenza vaccine GSK2340272A in adults aged 18 to 60 years. GSK2340272A (Flu 1): GlaxoSmithKline (GSK) Biologicals' Pandemic influenza vaccine comprising A/California/7/2009 (H1N1)v-like strain.
Rationale: The aim of the study was to assess the immunogenicity and safety of Flu 1 vaccine compared to GSK Biologicals' Pandemic influenza vaccine GSK2340269A. GSK2340269A (Flu 2): Alternative formulation of GSK Biologicals' Pandemic influenza vaccine comprising A/California/7/2009 (H1N1)v-like strain. Note: This summary presents results up to Day 35 on preliminary data and will be updated when additional data become available. As results are based on preliminary data, the numbers may change when the final data become available.
Phase: II
Study Period: 11 August 2009 to 22 October 2009 (data lock point Day 35)
Study Design: Randomized (1:1), observer-blind study with 2 parallel groups.
Centers: 3 centers in Germany.
Indication: Immunization against A/California/7/2009 (H1N1)v-like influenza in male and female subjects aged 18 to 60 years.
Treatment: Study groups were as follows: <ul style="list-style-type: none"> Flu 1 Group: subjects received two doses of Flu 1 vaccine (one at Day 0 and one at Day 21). Flu 2 Group: subjects received two doses of Flu 2 vaccine (one at Day 0 and one at Day 21). Vaccines were administered intramuscularly in the deltoid region of the non-dominant arm at Day 0 and of the dominant arm at Day 21.
Objectives: To evaluate the humoral response of two doses of Flu 1 vaccine in terms of hemagglutination inhibition (HI) against the vaccine-homologous virus at 14 days after the second dose in adults 18 to 60 years of age.
Primary Outcome/Efficacy Variable: <i>Humoral immune response in terms of HI antibodies:</i> In subjects vaccinated with the Flu 1 vaccine, 14 days after the second dose (Day 35): <ul style="list-style-type: none"> Geometric mean titers (GMTs) with 95% confidence intervals (CI). Seroconversion rates (SCR, defined as the percentage of vaccinees with either a pre-vaccination titer < 1:10 and a post-vaccination titer ≥ 1:40 or a pre-vaccination titer ≥ 1:10 and at least 4-fold increase in post-vaccination titer) with 95% CI. Seroprotection rates (SPR, defined as the percentage of vaccinees with a serum HI titer ≥ 1:40, that is usually accepted as indicating protection) with 95% CI. Geometric mean fold rise (GMFR, also called seroconversion factor [SCF]) defined as the fold increase in serum HI GMTs post-vaccination compared to pre-vaccination) with 95% CI.
Secondary Outcome/Efficacy Variable(s): <i>Humoral immune response in terms of HI antibodies:</i> In subjects of both groups, at Days 0, 21, 35 (for subjects vaccinated with Flu 2 vaccine), 182* and 364*: <ul style="list-style-type: none"> GMTs with 95% CI. SCR with 95% CI. SPR with 95% CI. SCF with 95% CI. Safety: <ul style="list-style-type: none"> Occurrence, duration and intensity of each solicited local symptom within 7 days (Day 0 – Day 6) after each vaccination. Occurrence, duration, intensity and relation to vaccination of each solicited general symptom within 7 days (Day 0 – Day 6) after each vaccination. Occurrence, intensity and relationship to vaccination of unsolicited adverse events (AEs) within 21 days after the first vaccination and 63 days after the second vaccination (Day 0 – Day 20 and Day 21 – Day 83), according to the Medical Dictionary for Regulatory Activities (MedDRA) classification.*

- Occurrence and relationship to vaccination of AEs of specific interest (AESIs) and serious adverse events (SAEs) during the entire study period (up to Day 364).*

*At the time of writing this summary, data were available up to Day 35 only. This summary will be updated when additional results become available.

Statistical Methods:

Analyses were performed on the Total Vaccinated cohort and the According-To-Protocol (ATP) cohort for immunogenicity.

- The Total Vaccinated cohort included all vaccinated subjects.
- 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) who received two doses of vaccine and for whom assay results were available for antibodies against H1N1 antigen for blood sample taken 14 days after the second vaccine dose.

The analyses were performed on preliminary data.

Analysis of immunogenicity:

The analysis was based on the ATP cohort for immunogenicity. The analysis of immunogenicity was done as a descriptive analysis of the humoral immune response in adults 18 to 60 years of age.

For each treatment group, the following parameters (with 95% confidence intervals) were calculated:

- GMTs of H1N1 antibody titers at Day 0, 21, 35, 182*, and 364*.
- SCRs at Day 21, 35, 182*, and 364*.
- SCFs at Day 21, 35, 182*, and 364*.
- SPRs at Day 0, 21, 35, 182*, and 364*.

Analysis of safety:

The analysis was based on the Total Vaccinated cohort.

The incidence of solicited local and general symptoms occurring during 7 days after each vaccination was tabulated with exact 95% CI for each treatment group. The same calculations were performed for symptoms of any intensity, those with intensity grade of grade 3, as well as for solicited general events with relationship to vaccination. All solicited local AEs were considered to be causally related. Duration of local and general symptoms was also calculated.

The percentage of subjects with at least one report of an unsolicited adverse event classified by MedDRA up to 21 days after first dose and 63 days* after second dose of vaccine was tabulated with exact 95% CI for each treatment group. The same tabulation was performed for grade 3 unsolicited adverse events and for unsolicited adverse events that were assessed by the investigator as possibly related to vaccination.

SAEs and AESIs were collected and summarized through the entire follow-up period*.

*At the time of writing this summary, only data up to Day 35 were available. This summary will be updated when additional results become available.

Study Population: Healthy male or female adults 18 to 60 years of age at the time of first vaccination. Women were to be of non-childbearing potential or if of childbearing potential, had to practice adequate contraception for 30 days prior to vaccination, to have a negative pregnancy test, and to continue such precautions during the entire treatment period and for 2 months after completion of the vaccination series. A written informed consent was obtained from the subjects prior to study entry.

Number of subjects						Flu 1 Group		Flu 2 Group		
Planned, N						64		64		
Randomized, N (Total Vaccinated Cohort)						64		66		
Completed (Day 35), n (%)						62 (96.9)		66 (100)		
Total Number Subjects Withdrawn, n (%)						2 (3.1)		0 (0.0)		
Withdrawn due to Adverse Events, n (%)						0 (0.0)		0 (0.0)		
Withdrawn due to Lack of Efficacy, n (%)						Not applicable		Not applicable		
Withdrawn for other reasons, n (%)						2 (3.1)		0 (0.0)		
Demographics						Flu 1 Group		Flu 2 Group		
N (Total Vaccinated Cohort)						64		66		
Females:Males						27:37		31:35		
Mean Age, years (SD)						39.9 (11.72)		39.3 (13.16)		
White - caucasian / european heritage, n (%)						64 (100)		66 (100)		
Primary Efficacy Results: Seropositivity rates and GMTs for HI antibodies against A/California/7/2009 antibodies, (ATP cohort for immunogenicity)										
						≥1:10			GMT*	
						95% CI		value	95% CI	
Antibody against	Group	Timing	N	n	%	LL	UL	value	LL	UL

Flu A/California/7/2009	Flu 1	PRE	56	28	50.0	36.3	63.7	10.6	8.2	13.6
		PI(D21)	56	56	100	93.6	100	541.7	415.7	706.0
		PII(D35)*	56	56	100	93.6	100	780.2	650.3	936.0
	Flu 2	PRE	61	30	49.2	36.1	62.3	11.7	8.7	15.8
		PI(D21)	61	61	100	94.1	100	530.5	391.6	718.6
		PII(D35)	61	61	100	94.1	100	533.6	412.2	690.7
<p>GMT = geometric mean antibody titer calculated on all subjects N = number of subjects with available results n (%) = number (percentage) of subjects with titer within the specified range 95% CI = 95% confidence interval; LL = Lower Limit, UL = Upper Limit PRE = Pre-vaccination at Day 0 PI (D21) = Post-vaccination at Day 21 PII (D35) = Post-vaccination at Day 35 * Primary outcome variable</p>										
Primary Efficacy Results: SCR for HI antibody titer, (ATP cohort for immunogenicity)										
						SCR				
						95% CI				
Antibody against	Group	Timing	N	n	%	LL	UL			
Flu A/California/7/2009	Flu 1	PI(D21)	56	55	98.2	90.4	100			
		PII(D35)*	56	56	100	93.6	100			
	Flu 2	PI(D21)	61	58	95.1	86.3	99.0			
		PII(D35)	61	60	98.4	91.2	100			
<p>Seroconversion defined as: For initially seronegative subjects, antibody titer $\geq 1:40$ after vaccination For initially seropositive subjects, antibody titer after vaccination ≥ 4 fold the pre-vaccination antibody titer N = Number of subjects with pre- and post-vaccination results available n (%) = Number (percentage) of seroconverted subjects 95% CI = 95% confidence interval, LL = Lower Limit, UL = Upper Limit PI (D21) = Post-vaccination at Day 21 PII (D35) = Post-vaccination at Day 35 * Primary outcome variable</p>										
Primary Efficacy Results: SPR for HI antibodies against Flu A/California/7/2009 antibodies at each time point, (ATP cohort for immunogenicity)										
						SPR				
						95% CI				
Antibody against	Group	Timing	N	n	%	LL	UL			
Flu A/California/7/2009	Flu 1	PRE	56	7	12.5	5.2	24.1			
		PI(D21)	56	55	98.2	90.4	100			
		PII(D35)*	56	56	100	93.6	100			
	Flu 2	PRE	61	8	13.1	5.8	24.2			
		PI(D21)	61	60	98.4	91.2	100			
		PII(D35)	61	61	100	94.1	100			
<p>N = Number of subjects with available results n (%) = Number (percentage) of seroprotected subjects (HI titer $\geq 1:40$) 95% CI = 95% confidence interval, LL = Lower Limit, UL = Upper Limit PRE = Pre-vaccination at Day 0 PI (D21) = Post-vaccination at Day 21 PII (D35) = Post-vaccination at Day 35 * Primary outcome variable</p>										
Primary Efficacy Results: SCF for HI antibody titer at each post-vaccination time point, (ATP cohort for immunogenicity)										
						SCF				
						95% CI				
Antibody against	Group	Timing	N	Value	LL	UL				
Flu A/California/7/2009 (1/DIL)	Flu 1	PI(D21)	56	51.3	36.2	72.9				
		PII(D35)*	56	73.9	55.1	99.2				

	Flu 2	PI(D21)	61	45.3	32.6	63.0					
		PII(D35)	61	45.6	33.3	62.2					
<p>N = Number of subjects with pre- and post-vaccination results available SCF = Seroconversion Factor or geometric mean ratio (mean[log10(POST/PRE)]) 95% CI = 95% confidence interval, LL = Lower Limit, UL = Upper Limit PI (D21) = Post-vaccination at Day 21 PII (D35) = Post-vaccination at Day 35 * Primary outcome variable</p>											
Secondary Outcome variable(s): Incidence of solicited local symptoms reported during the 7-day (Days 0-6) post-vaccination period following each dose and across doses (Total Vaccinated cohort)											
		Flu 1 Group					Flu 2 Group				
				95 % CI						95 % CI	
Symptom	Intensity	N	n	%	LL	UL	N	n	%	LL	UL
Dose 1											
Pain	Any	63	56	88.9	78.4	95.4	66	39	59.1	46.3	71.0
	Grade 3	63	1	1.6	0.0	8.5	66	0	0.0	0.0	5.4
Redness	Any	63	20	31.7	20.6	44.7	66	3	4.5	0.9	12.7
	> 100 mm	63	0	0.0	0.0	5.7	66	0	0.0	0.0	5.4
Swelling	Any	63	20	31.7	20.6	44.7	66	1	1.5	0.0	8.2
	> 100 mm	63	0	0.0	0.0	5.7	66	0	0.0	0.0	5.4
Dose 2											
Pain	Any	62	53	85.5	74.2	93.1	65	33	50.8	38.1	63.4
	Grade 3	62	0	0.0	0.0	5.8	65	1	1.5	0.0	8.3
Redness	Any	62	16	25.8	15.5	38.5	65	2	3.1	0.4	10.7
	> 100 mm	62	0	0.0	0.0	5.8	65	0	0.0	0.0	5.5
Swelling	Any	62	12	19.4	10.4	31.4	65	1	1.5	0.0	8.3
	> 100 mm	62	0	0.0	0.0	5.8	65	0	0.0	0.0	5.5
Across Doses											
Pain	Any	63	57	90.5	80.4	96.4	66	41	62.1	49.3	73.8
	Grade 3	63	1	1.6	0.0	8.5	66	1	1.5	0.0	8.2
Redness	Any	63	24	38.1	26.1	51.2	66	3	4.5	0.9	12.7
	> 100 mm	63	0	0.0	0.0	5.7	66	0	0.0	0.0	5.4
Swelling	Any	63	21	33.3	22.0	46.3	66	2	3.0	0.4	10.5
	> 100 mm	63	0	0.0	0.0	5.7	66	0	0.0	0.0	5.4
<p>N= number of subjects with at least one documented dose n (%)= number (percentage) of subjects reporting at least once the symptom 95%CI= Exact 95% confidence interval; LL = lower limit, UL = upper limit Any= occurrence of any local symptom regardless of intensity grade Grade 3 pain= pain that prevented normal activity</p>											
Secondary Outcome variable(s): Number of days with any local symptom during the solicited post-vaccination period (Total Vaccinated cohort)											
Solicited symptom	Dose	Group		N	Mean	Median					
Pain	Dose 1	Flu 1		56	3.8	3.0					
		Flu 2		39	2.1	2.0					
	Dose 2	Flu 1		53	3.2	3.0					
		Flu 2		33	2.0	2.0					
	Overall/dose	Flu 1		109	3.5	3.0					
		Flu 2		72	2.1	2.0					
Redness	Dose 1	Flu 1		20	2.8	2.0					
		Flu 2		3	3.0	4.0					
	Dose 2	Flu 1		16	2.8	2.0					
		Flu 2		2	1.5	1.5					
	Overall/dose	Flu 1		36	2.8	2.0					
		Flu 2		5	2.4	2.0					
Swelling	Dose 1	Flu 1		20	3.4	3.0					

		Flu 2	1	4.0	4.0
	Dose 2	Flu 1	12	2.8	3.0
		Flu 2	1	1.0	1.0
	Overall/dose	Flu 1	32	3.2	3.0
		Flu 2	2	2.5	2.5

N = number of doses with the symptom

Secondary Outcome variable(s): Incidence of solicited general symptoms reported during the 7-day (Days 0-6) post-vaccination period following each dose and across doses (Total Vaccinated cohort)

		Flu 1 Group					Flu 2 Group				
					95 % CI					95 % CI	
Symptom	Intensity/ Relationship	N	n	%	LL	UL	N	n	%	LL	UL
Dose 1											
Fatigue	Any	63	26	41.3	29.0	54.4	66	18	27.3	17.0	39.6
	Grade 3	63	2	3.2	0.4	11.0	66	1	1.5	0.0	8.2
	Related	63	10	15.9	7.9	27.3	66	7	10.6	4.4	20.6
Headache	Any	63	19	30.2	19.2	43.0	66	10	15.2	7.5	26.1
	Grade 3	63	1	1.6	0.0	8.5	66	1	1.5	0.0	8.2
	Related	63	9	14.3	6.7	25.4	66	5	7.6	2.5	16.8
Joint pain at other location	Any	63	15	23.8	14.0	36.2	66	5	7.6	2.5	16.8
	Grade 3	63	1	1.6	0.0	8.5	66	0	0.0	0.0	5.4
	Related	63	9	14.3	6.7	25.4	66	2	3.0	0.4	10.5
Muscle aches	Any	63	22	34.9	23.3	48.0	66	12	18.2	9.8	29.6
	Grade 3	63	1	1.6	0.0	8.5	66	0	0.0	0.0	5.4
	Related	63	10	15.9	7.9	27.3	66	3	4.5	0.9	12.7
Shivering	Any	63	7	11.1	4.6	21.6	66	7	10.6	4.4	20.6
	Grade 3	63	0	0.0	0.0	5.7	66	0	0.0	0.0	5.4
	Related	63	2	3.2	0.4	11.0	66	3	4.5	0.9	12.7
Sweating	Any	63	9	14.3	6.7	25.4	66	11	16.7	8.6	27.9
	Grade 3	63	0	0.0	0.0	5.7	66	1	1.5	0.0	8.2
	Related	63	4	6.3	1.8	15.5	66	3	4.5	0.9	12.7
Temperature/ (Axillary)	Any	63	1	1.6	0.0	8.5	66	0	0.0	0.0	5.4
	> 40 °C	63	0	0.0	0.0	5.7	66	0	0.0	0.0	5.4
	Related	63	1	1.6	0.0	8.5	66	0	0.0	0.0	5.4
Dose 2											
Fatigue	Any	62	29	46.8	34.0	59.9	65	13	20.0	11.1	31.8
	Grade 3	62	3	4.8	1.0	13.5	65	0	0.0	0.0	5.5
	Related	62	16	25.8	15.5	38.5	65	7	10.8	4.4	20.9
Headache	Any	62	19	30.6	19.6	43.7	65	12	18.5	9.9	30.0
	Grade 3	62	3	4.8	1.0	13.5	65	0	0.0	0.0	5.5
	Related	62	11	17.7	9.2	29.5	65	5	7.7	2.5	17.0
Joint pain at other location	Any	62	23	37.1	25.2	50.3	65	7	10.8	4.4	20.9
	Grade 3	62	2	3.2	0.4	11.2	65	1	1.5	0.0	8.3
	Related	62	15	24.2	14.2	36.7	65	3	4.6	1.0	12.9
Muscle aches	Any	62	30	48.4	35.5	61.4	65	7	10.8	4.4	20.9
	Grade 3	62	2	3.2	0.4	11.2	65	0	0.0	0.0	5.5
	Related	62	17	27.4	16.9	40.2	65	2	3.1	0.4	10.7
Shivering	Any	62	12	19.4	10.4	31.4	65	4	6.2	1.7	15.0
	Grade 3	62	1	1.6	0.0	8.7	65	0	0.0	0.0	5.5
	Related	62	10	16.1	8.0	27.7	65	2	3.1	0.4	10.7
Sweating	Any	62	12	19.4	10.4	31.4	65	7	10.8	4.4	20.9
	Grade 3	62	1	1.6	0.0	8.7	65	0	0.0	0.0	5.5
	Related	62	8	12.9	5.7	23.9	65	1	1.5	0.0	8.3
Temperature/	Any	62	2	3.2	0.4	11.2	65	0	0.0	0.0	5.5

(Axillary)	> 40 °C	62	0	0.0	0.0	5.8	65	0	0.0	0.0	5.5
	Related	62	1	1.6	0.0	8.7	65	0	0.0	0.0	5.5
Across Doses											
Fatigue	Any	63	35	55.6	42.5	68.1	66	23	34.8	23.5	47.6
	Grade 3	63	5	7.9	2.6	17.6	66	1	1.5	0.0	8.2
	Related	63	20	31.7	20.6	44.7	66	11	16.7	8.6	27.9
Headache	Any	63	30	47.6	34.9	60.6	66	18	27.3	17.0	39.6
	Grade 3	63	4	6.3	1.8	15.5	66	1	1.5	0.0	8.2
	Related	63	17	27.0	16.6	39.7	66	8	12.1	5.4	22.5
Joint pain at other location	Any	63	27	42.9	30.5	56.0	66	10	15.2	7.5	26.1
	Grade 3	63	2	3.2	0.4	11.0	66	1	1.5	0.0	8.2
	Related	63	18	28.6	17.9	41.3	66	5	7.6	2.5	16.8
Muscle aches	Any	63	35	55.6	42.5	68.1	66	14	21.2	12.1	33.0
	Grade 3	63	2	3.2	0.4	11.0	66	0	0.0	0.0	5.4
	Related	63	18	28.6	17.9	41.3	66	5	7.6	2.5	16.8
Shivering	Any	63	16	25.4	15.3	37.9	66	10	15.2	7.5	26.1
	Grade 3	63	1	1.6	0.0	8.5	66	0	0.0	0.0	5.4
	Related	63	10	15.9	7.9	27.3	66	4	6.1	1.7	14.8
Sweating	Any	63	17	27.0	16.6	39.7	66	14	21.2	12.1	33.0
	Grade 3	63	1	1.6	0.0	8.5	66	1	1.5	0.0	8.2
	Related	63	11	17.5	9.1	29.1	66	4	6.1	1.7	14.8
Temperature/ (Axillary)	Any	63	3	4.8	1.0	13.3	66	0	0.0	0.0	5.4
	> 40 °C	63	0	0.0	0.0	5.7	66	0	0.0	0.0	5.4
	Related	63	2	3.2	0.4	11.0	66	0	0.0	0.0	5.4

N= number of subjects with at least one documented dose

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

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

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

Grade 3 = event that prevented normal everyday activities

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

Secondary Outcome variable(s): Number of days with any general symptoms during the solicited post-vaccination period (Total Vaccinated cohort)

Solicited symptom	Dose	Group	N	Mean	Median
Fatigue	Dose 1	Flu 1	26	1.8	1.0
		Flu 2	18	1.9	2.0
	Dose 2	Flu 1	29	2.1	2.0
		Flu 2	13	2.2	2.0
	Overall/dose	Flu 1	55	1.9	1.0
		Flu 2	31	2.0	2.0
Headache	Dose 1	Flu 1	19	2.1	2.0
		Flu 2	10	1.7	1.5
	Dose 2	Flu 1	19	2.1	2.0
		Flu 2	12	2.6	2.0
	Overall/dose	Flu 1	38	2.1	2.0
		Flu 2	22	2.2	2.0
Joint pain at other location	Dose 1	Flu 1	15	2.3	2.0
		Flu 2	5	3.0	2.0
	Dose 2	Flu 1	23	2.6	2.0
		Flu 2	7	2.4	2.0
	Overall/dose	Flu 1	38	2.5	2.0
		Flu 2	12	2.7	2.0
Muscle aches	Dose 1	Flu 1	22	2.4	2.0
		Flu 2	12	1.9	1.5
	Dose 2	Flu 1	30	2.6	2.0

		Flu 2	7	2.1	3.0
	Overall/dose	Flu 1	52	2.5	2.0
		Flu 2	19	2.0	2.0
Sweating	Dose 1	Flu 1	9	1.8	1.0
		Flu 2	11	1.8	2.0
	Dose 2	Flu 1	12	1.5	1.0
		Flu 2	7	1.7	2.0
	Overall/dose	Flu 1	21	1.6	1.0
		Flu 2	18	1.8	2.0
Shivering	Dose 1	Flu 1	7	1.1	1.0
		Flu 2	7	1.3	1.0
	Dose 2	Flu 1	12	1.3	1.0
		Flu 2	4	1.8	2.0
	Overall/dose	Flu 1	19	1.3	1.0
		Flu 2	11	1.5	1.0

N = number of doses with the symptom

Secondary Outcome variable(s): Number (%) of subjects with adverse events of specific interest (Total Vaccinated cohort)

Most frequent AESIs - On-Therapy (occurring within Day 0-34 following vaccination)	Flu 1 Group N = 64	Flu 2 Group N = 66
Subjects with any AESI(s), n (%)	0 (0.0)	0 (0.0)
Safety results: Number (%) of subjects with unsolicited adverse events (Total Vaccinated cohort)		
Most frequent adverse events - On-Therapy (occurring within Day 0-34 following vaccination)*	Flu 1 Group N = 64	Flu 2 Group N = 66
Subjects with any AE(s), n (%)	15 (23.4)	21 (31.8)
Subjects with grade 3 AE(s), n (%)	0 (0.0)	2 (3.0)
Subjects with related AE(s), n (%)	5 (7.8)	6 (9.1)
Diarrhoea	2 (3.1)	1 (1.5)
Gastritis	1 (1.6)	2 (3.0)
Gastroenteritis	2 (3.1)	1 (1.5)
Oropharyngeal pain	-	3 (4.5)
Rhinitis	1 (1.6)	2 (3.0)
Acute tonsillitis	1 (1.6)	1 (1.5)
Arthralgia	1 (1.6)	1 (1.5)
Dizziness	2 (3.1)	-
Lymphadenopathy	1 (1.6)	1 (1.5)
Nasopharyngitis	1 (1.6)	1 (1.5)
Nausea	1 (1.6)	1 (1.5)
Abdominal pain upper	-	1 (1.5)
Cervicobrachial syndrome	-	1 (1.5)
Cough	1 (1.6)	-
Cystitis	-	1 (1.5)
Dry mouth	1 (1.6)	-
Dysphagia	1 (1.6)	-
Ear pain	-	1 (1.5)
Folliculitis	1 (1.6)	-
Groin abscess	1 (1.6)	-
Haemorrhoids	-	1 (1.5)
Headache	1 (1.6)	-
Hypersensitivity	-	1 (1.5)
Hypoaesthesia	-	1 (1.5)
Influenza like illness	-	1 (1.5)
Injection site haematoma	-	1 (1.5)
Injection site lymphadenopathy	1 (1.6)	-

Intertrigo	1 (1.6)	-
Migraine	-	1 (1.5)
Muscle contractions involuntary	1 (1.6)	-
Neck pain	-	1 (1.5)
Oral herpes	-	1 (1.5)
Ovarian cyst ruptured	-	1 (1.5)
Pruritus	1 (1.6)	-
Restless legs syndrome	1 (1.6)	-
Sinusitis	1 (1.6)	-
Wound	-	1 (1.5)
- : Adverse event absent or not meeting the selected rule(s) Grade 3 event that prevented normal everyday activities Related= event assessed by the investigator as causally related to the study vaccination		
Safety results: Number (%) of subjects with serious adverse events (Total Vaccinated cohort)		
Serious adverse event, n (%) [n considered by the investigator to be related to study medication]		
All SAEs	Flu 1 Group N = 64	Flu 2 Group N = 66
Subjects with any SAE(s), n (%) [n assessed by investigator as related]	0 (0.0) [0]	3 (4.5) [1]
Hypersensitivity	0 (0.0) [0]	1 (1.5) [1]
Ovarian cyst ruptured	0 (0.0) [0]	1 (1.5) [0]
Wound	0 (0.0) [0]	1 (1.5) [0]
Fatal SAEs	Flu 1 Group N = 64	Flu 2 Group N = 66
Subjects with fatal SAE(s), n (%) [n assessed by investigator as related]	0 (0.0) [0]	0 (0.0) [0]

Conclusion: At Day 35, all subjects in Flu 1 Group, presented hemagglutination-inhibition titers that exceeded the regulatory threshold, with a 1:40 seroconversion in 100% of subjects. In the Flu 2 group, 98.4% of the subjects reached the same threshold.

Up to Day 35, 15 (23.4%) subjects in the Flu 1 Group and 21 (31.8%) in the Flu 2 Group reported at least one unsolicited AE. Up to Day 35, 3 SAEs were reported in Flu1 group, one of which was assessed by the investigator as related to study vaccination. No fatal SAE was reported up to Day 35.
Please refer to the publication below.

Publications:

Devaster JM et al. Immunogenicity and Safety of an A/H1N1v AS03A-Adjuvanted Pandemic Influenza Vaccine Candidate: Preliminary Results from a Randomized, Controlled Trial in Adults. Abstract presented at the 3rd Vaccine Congress, Singapore, Singapore, 4-6 October 2009.

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