

**FLUZONE TRIVALENT NORTHERN HEMISPHERE- influenza a virus a/victoria/4897/2022 ivr-238 (h1n1) antigen (formaldehyde inactivated), influenza a virus a/croatia/10136/rv/2023 (h3n2) antigen (formaldehyde inactivated), and influenza b virus b/michigan/01/2021 antigen (formaldehyde inactivated) injection, suspension  
Sanofi Pasteur Inc.**

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**HIGHLIGHTS OF PRESCRIBING INFORMATION**

These highlights do not include all the information needed to use Fluzone® safely and effectively. See full prescribing information for Fluzone.

**Fluzone (Influenza Vaccine)  
injectable suspension, for intramuscular use  
2025-2026 Formula  
Initial U.S. Approval: 1980**

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**INDICATIONS AND USAGE**  
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**Fluzone** is a vaccine indicated for active immunization for the prevention of disease caused by influenza A subtype viruses and type B virus contained in the vaccine. (1)

**Fluzone** is approved for use in persons 6 months of age and older. (1)

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**DOSAGE AND ADMINISTRATION**  
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- **For intramuscular use (2)**

Age	Vaccination Status	Dose	Schedule
6 months through 35 months	Not previously vaccinated with influenza vaccine or unknown vaccination history	Two doses, either 0.25 mL or 0.5mL*	Administer at least 4 weeks apart
	Previously vaccinated with influenza vaccine	One or two doses <sup>†</sup> , either 0.25 mL or 0.5 mL*	If two doses, administer at least 4 weeks apart
36 months through 8 years	Not previously vaccinated with influenza vaccine or unknown vaccination history	Two 0.5 mL doses	Administer at least 4 weeks apart
	Previously vaccinated with influenza vaccine	One or two 0.5 mL doses <sup>†</sup>	If two doses, administer at least 4 weeks apart
9 years and older	-	One 0.5 mL dose	-

"-" Indicates information is not applicable

\* The schedule can be completed as two 0.25-mL doses ≥ 4 weeks apart, two 0.5-mL doses ≥ 4 weeks apart, or any combination of 2 doses (either 0.25 mL or 0.5 mL) administered ≥ 4 weeks apart.

† To determine if 1 or 2 doses are required, refer to Advisory Committee on Immunization Practices annual recommendations on prevention and control of influenza with vaccines

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**DOSAGE FORMS AND STRENGTHS**  
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Fluzone is an injectable suspension.

For individuals 6 months through 35 months, a single dose is 0.25 mL or 0.5 mL.

For individuals 36 months and older, a single dose is 0.5 mL. (3)

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**CONTRAINDICATIONS**  
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Do not administer Fluzone to anyone with a history of severe allergic reaction (e.g., anaphylaxis) to any component of the vaccine, including egg protein, or after previous dose of any influenza vaccine. (4, 11)

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**WARNINGS AND PRECAUTIONS**  
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If Guillain-Barré syndrome (GBS) has occurred within 6 weeks of previous influenza vaccination, the decision to give Fluzone should be based on careful consideration of the potential benefits and risks. (5.1)

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**ADVERSE REACTIONS**  
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- In children 6 months through 8 years of age, the most common injection-site adverse reactions were pain or tenderness (>50%) and redness (>25%); the most common solicited systemic adverse

reactions were irritability and drowsiness (>25% of children 6 months through 35 months) and myalgia (>20% of children 3 years through 8 years). (6.1)

- In adults 18 through 64 years of age, the most common injection-site adverse reaction was pain (>50%); the most common solicited systemic adverse reactions were headache and myalgia (>30%). (6.1)
- In adults ≥65 years of age, the most common injection-site adverse reaction was pain (>20%); the most common solicited systemic adverse reactions were headache, myalgia, and malaise (>10%). (6.1)

**To report SUSPECTED ADVERSE REACTIONS, contact Sanofi Pasteur Inc. at 1-800-822-2463 (1-800-VACCINE) or VAERS at 1-800-822-7967 or [www.vaers.hhs.gov](http://www.vaers.hhs.gov).**

----- **USE IN SPECIFIC POPULATIONS** -----

- Antibody responses to Fluzone are lower in persons ≥65 years of age than in younger adults. (8.5)

**See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.**

**Revised: 7/2025**

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## FULL PRESCRIBING INFORMATION

### 1 INDICATIONS AND USAGE

Fluzone<sup>®</sup> is a vaccine indicated for active immunization for the prevention of disease caused by influenza A subtype viruses and type B virus contained in the vaccine.

Fluzone is approved for use in persons 6 months of age and older.

### 2 DOSAGE AND ADMINISTRATION

#### For intramuscular use

#### 2.1 Dose and Schedule

The dose and schedule for Fluzone are presented in Table 1.

**Table 1: Dose and Schedule for Fluzone**

Age	Vaccination Status	Dose	Schedule
6 months through 35 months	Not previously vaccinated with influenza vaccine or unknown vaccination history	Two doses, either 0.25 mL or 0.5 mL*	Administer at least 4 weeks apart
	Previously vaccinated with influenza vaccine	One or two doses <sup>†</sup> , either 0.25 mL or 0.5 mL*	If two doses, administer at least 4 weeks apart
	Not previously vaccinated with influenza vaccine or unknown	Two 0.5 mL doses	Administer at least 4 weeks apart

36 months through 8 years	UNKNOWN vaccination history		apart
	Previously vaccinated with influenza vaccine	One or two 0.5 mL doses <sup>†</sup>	If two doses, administer at least 4 weeks apart
9 years and older	-	One 0.5 mL dose	-

"-" Indicates information is not applicable

\* The schedule can be completed as two 0.25-mL doses  $\geq$  4 weeks apart, two 0.5-mL doses  $\geq$  4 weeks apart, or any combination of 2 doses (either 0.25 mL or 0.5 mL) administered  $\geq$  4 weeks apart

† To determine if 1 or 2 doses are required, refer to Advisory Committee on Immunization Practices annual recommendations on prevention and control of influenza with vaccines

## 2.2 Administration

Fluzone is clear and slightly opalescent in color. Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. If either of these conditions exist, the vaccine should not be administered.

Before administering a dose of vaccine, shake the prefilled syringe or multi-dose vial. A maximum of ten doses can be withdrawn from the multi-dose vial.

Administer each dose intramuscularly.

## 3 DOSAGE FORMS AND STRENGTHS

Fluzone is an injectable suspension.

For individuals 6 months through 35 months, a single dose is 0.25 mL or 0.5 mL.

For individuals 36 months and older, a single dose is 0.5 mL.

## 4 CONTRAINDICATIONS

Do not administer Fluzone to anyone with a history of severe allergic reaction (e.g., anaphylaxis) to any component of the vaccine [see Description (11)], including egg protein, or to a previous dose of any influenza vaccine.

## 5 WARNINGS AND PRECAUTIONS

### 5.1 Guillain-Barré Syndrome

If Guillain-Barré syndrome (GBS) has occurred within 6 weeks following previous influenza vaccination, the decision to give Fluzone should be based on careful consideration of the potential benefits and risks.

The 1976 swine influenza vaccine was associated with an elevated risk of GBS. Evidence

for a causal relation of GBS with other influenza vaccines is inconclusive; if an excess risk exists, it is probably slightly more than 1 additional case per 1 million persons vaccinated. (1)

## **5.2 Preventing and Managing Allergic Reactions**

Appropriate medical treatment must be immediately available to manage potential anaphylactic reactions following administration of Fluzone.

## **5.3 Altered Immunocompetence**

If Fluzone is administered to immunocompromised persons, including those receiving immunosuppressive therapy, the expected immune response may not be obtained.

## **5.4 Limitations of Vaccine Effectiveness**

Vaccination with Fluzone may not protect all recipients.

## **5.5 Syncope**

Syncope (fainting) has been reported following vaccination with Fluzone. Procedures should be in place to avoid injury from fainting.

# **6 ADVERSE REACTIONS**

In children 6 months through 8 years of age, the most common injection-site adverse reactions were pain or tenderness (>50%) and redness (>25%); the most common solicited systemic adverse reactions were irritability and drowsiness (>25% of children 6 months through 35 months) and myalgia (>20% of children 3 years through 8 years).

In adults 18 through 64 years of age, the most common injection-site adverse reaction was pain (>50%); the most common solicited systemic adverse reactions were headache and myalgia (>30%).

In adults  $\geq 65$  years of age, the most common injection-site adverse reaction was pain (>20%); the most common solicited systemic adverse reactions were headache, myalgia, and malaise (>10%).

## **6.1 Clinical Trials Experience**

Because clinical trials are conducted under widely varying conditions, adverse event rates observed in the clinical trial(s) of a vaccine cannot be directly compared to rates in the clinical trial(s) of another vaccine and may not reflect the rates observed in practice.

### **Children 6 Months through 8 Years of Age**

Study 1 (NCT00391391) was a multi-center study conducted in the US. In this study, children 6 months through 35 months of age received two 0.25 mL doses of Fluzone, and children 3 years through 8 years of age received two 0.5 mL doses of Fluzone, irrespective of previous influenza vaccination history. The two doses (2006–2007 formulation) were administered 26 to 30 days apart. The safety analysis set included 97 children 6 months through 35 months of age and 163 children 3 years through 8 years of age. Table 2 and Table 3 summarize solicited injection site adverse reactions and systemic adverse reactions reported within 7 days post-vaccination via diary cards.

**Table 2: Frequency of Solicited Injection Site and Systemic Adverse Reactions Within 7 Days After Vaccination with Fluzone, Children 6 Through 35 Months of Age (Study 1\*)**

	Dose 1 (N <sup>†</sup> =90-92) Percentage			Dose 2 (N <sup>†</sup> =86-87) Percentage		
	Any	Moderate <sup>‡</sup>	Severe <sup>§</sup>	Any	Moderate <sup>‡</sup>	Severe <sup>§</sup>
<b>Injection-Site Tenderness</b>	47.3	8.8	0.0	56.3	3.4	1.1
<b>Injection-Site Erythema</b>	29.3	0.0	0.0	32.2	1.1	0.0
<b>Injection-Site Swelling</b>	16.7	0.0	0.0	14.9	0.0	0.0
<b>Injection-Site Induration</b>	14.4	0.0	0.0	16.1	0.0	0.0
<b>Injection-Site Ecchymosis</b>	14.4	1.1	0.0	14.9	2.3	0.0
<b>Fever<sup>¶</sup> (≥100.4°F)</b>	11.0	4.4	0.0	10.3	3.4	1.1
<b>Vomiting</b>	6.6	1.1	0.0	8.1	5.8	0.0
<b>Crying Abnormal</b>	31.9	11.0	0.0	18.6	7.0	2.3
<b>Drowsiness</b>	26.4	1.1	0.0	26.7	4.7	0.0
<b>Appetite Lost</b>	23.1	8.8	0.0	19.8	5.8	1.2
<b>Irritability</b>	42.9	19.8	1.1	34.9	17.4	4.7

\* (NCT00391391)

† N is the number of vaccinated participants with available data for the adverse reactions listed

‡ Moderate - Injection-site tenderness: cries and protests when injection site is touched; Injection-site erythema, Injection-site swelling, Injection-site induration, and Injection-site ecchymosis: ≥2.5 cm to <5 cm; Fever: >101.3°F to ≤103.1°F; Vomiting: 2 to 5 episodes per 24 hours; Crying abnormal: 1 to 3 hours; Drowsiness: not interested in surroundings or did not wake up for a meal; Appetite lost: missed 1 or 2 feeds completely; Irritability: requiring increased attention

§ Severe - Injection-site tenderness: cries when injected limb is moved or the movement of the injected limb is reduced; Injection-site erythema, Injection-site swelling, Injection-site induration, and Injection-site ecchymosis: ≥5 cm; Fever: >103.1°F; Vomiting: ≥6 episodes per 24 hours or requiring parenteral hydration; Crying abnormal: >3 hours; Drowsiness: sleeping most of the time or difficulty to wake up; Appetite lost: refuses ≥3 feeds or refuses most feeds; Irritability: inconsolable

¶ Fever - The percentage of temperature measurements that were taken by rectal, axillary, or oral routes, or not recorded were 69.2%, 17.6%, 13.2%, and 0.0%, respectively, for Dose 1; and 69.0%, 13.8%, 16.1%, and 1.1%, respectively, for Dose 2

**Table 3: Frequency of Solicited Injection Site and Systemic Adverse Reactions Within 7 Days After Vaccination with Fluzone, Children 3 Through 8 Years of Age (Study 1\*)**

	Dose 1 (N <sup>†</sup> =150-151) Percentage	Dose 2 (N <sup>†</sup> =144-145) Percentage
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	<b>Any</b>	<b>Moderate<sup>‡</sup></b>	<b>Severe<sup>§</sup></b>	<b>Any</b>	<b>Moderate<sup>‡</sup></b>	<b>Severe<sup>§</sup></b>
<b>Injection-Site Pain</b>	59.3	8.0	0.0	62.1	9.7	0.7
<b>Injection-Site Erythema</b>	27.8	3.3	0.7	27.6	2.1	0.7
<b>Injection-Site Swelling</b>	19.9	5.3	0.0	14.5	2.8	0.0
<b>Injection-Site Induration</b>	16.6	2.0	0.0	11.7	1.4	0.0
<b>Injection-Site Ecchymosis</b>	12.6	0.7	0.7	15.2	0.7	0.0
<b>Injection-Site Pruritus</b>	7.3	-	-	13.2	-	-
<b>Fever<sup>¶</sup> (≥99.5°F)</b>	11.9	2.6	2.0	9.7	1.4	1.4
<b>Headache</b>	16.7	2.0	0.7	11.8	1.4	1.4
<b>Malaise</b>	20.0	2.7	1.3	14.6	4.2	0.7
<b>Myalgia</b>	28.0	5.3	0.0	17.4	4.2	0.0

"-" Indicates information was not collected

\* (NCT00391391)

† N is the number of vaccinated participants with available data for the adverse reactions listed

‡ Moderate - Injection-site pain: sufficiently discomforting to interfere with normal behavior or activities; Injection-site erythema, Injection-site swelling, Injection-site induration, and Injection-site ecchymosis: ≥2.5 cm to <5 cm; Fever: >100.4°F to ≤102.2°F; Headache, Malaise, and Myalgia: interferes with daily activities

§ Severe - Injection-site pain: incapacitating, unable to perform usual activities, may have/or required medical care or absenteeism; Injection-site erythema, Injection-site swelling, Injection-site induration, and Injection-site ecchymosis: ≥5 cm; Fever: >102.2°F; Headache, Malaise, and Myalgia: prevents daily activities

¶ Fever - The percentage of temperature measurements that were taken by oral or axillary routes, or not recorded were 93.4%, 6.6%, and 0.0%, respectively, for Dose 1; and 93.1%, 6.2%, and 0.7%, respectively, for Dose 2

During the period from the first vaccination through 6 months following the second vaccination, there were no serious adverse events considered to be caused by vaccination and no deaths reported in this study.

Study 2 (NCT01240746) was a single-blind, randomized, active-controlled multi-center safety and immunogenicity study conducted in the US. In this study, children 6 months through 35 months of age received one or two 0.25 mL doses of either Fluzone Quadrivalent or one of two formulations of a comparator trivalent influenza vaccine (TIV-1 or TIV-2), and children 3 years through 8 years of age received one or two 0.5 mL doses of either Fluzone Quadrivalent, TIV-1, or TIV-2. Each of the trivalent formulations contained an influenza type B virus that corresponded to one of the two type B viruses in Fluzone Quadrivalent (a type B virus of the Victoria lineage or a type B virus of the Yamagata lineage). For participants who received two doses, the doses were administered approximately 4 weeks apart. The safety analysis set included 1841 children 6 months through 35 months of age and 2506 children 3 years through 8 years of age. Among participants 6 months through 8 years of age in the three vaccine groups combined, 49.3% were female (Fluzone Quadrivalent, 49.2%; TIV-1, 49.8%; TIV-

2, 49.4%), 58.4% Caucasian (Fluzone Quadrivalent, 58.4%; TIV-1, 58.9%; TIV-2, 57.8%), 20.2% Black (Fluzone Quadrivalent, 20.5%; TIV-1, 19.9%; TIV-2, 19.1%), 14.1% Hispanic (Fluzone Quadrivalent, 14.3%; TIV-1, 13.2%; TIV-2, 14.7%), and 7.3% were of other racial/ethnic groups (Fluzone Quadrivalent, 6.8%; TIV-1, 8.0%; TIV-2, 8.5%). Table 4 and Table 5 summarize solicited injection-site and systemic adverse reactions reported within 7 days post-vaccination via diary cards. Participants were monitored for unsolicited adverse events for 28 days after each dose and serious adverse events (SAEs) during the 6 months following the last dose.

**Table 4: Percentage of Solicited Injection-site and Systemic Adverse Reactions Within 7 Days After Vaccination in Children 6 Months Through 35 Months of Age (Study 2\* Safety Analysis Set<sup>†</sup>)**

	Fluzone Quadrivalent <sup>‡,§</sup> (N <sup>¶</sup> =1223)			TIV-1 <sup>§,#</sup> (B Victoria) (N <sup>¶</sup> =310)			TIV-2 <sup>§,P</sup> (B Yamagata) (N <sup>¶</sup> =308)		
	Any (%)	Grade 2 <sup>β</sup> (%)	Grade 3 <sup>α</sup> (%)	Any (%)	Grade 2 <sup>β</sup> (%)	Grade 3 <sup>α</sup> (%)	Any (%)	Grade 2 <sup>β</sup> (%)	Grade 3 <sup>α</sup> (%)
<b>Injection-site adverse reactions</b>									
<b>Pain<sup>ε</sup></b>	57.0	10.2	1.0	52.3	11.5	0.8	50.3	5.4	2.7
<b>Tenderness<sup>δ</sup></b>	54.1	11.3	1.9	48.4	8.2	1.9	49.7	10.3	0.0
<b>Erythema</b>	37.3	1.5	0.2	32.9	1.0	0.0	33.3	1.0	0.0
<b>Swelling</b>	21.6	0.8	0.2	19.7	1.0	0.0	17.3	0.0	0.0
<b>Systemic adverse reactions</b>									
<b>Fever (≥100.4°F)<sup>φ</sup></b>	14.3	5.5	2.1	16.0	6.6	1.7	13.0	4.1	2.0
<b>Malaise<sup>ε</sup></b>	38.1	14.5	4.6	35.2	14.8	4.7	32.4	12.8	6.8
<b>Myalgia<sup>ε</sup></b>	26.7	6.6	1.9	26.6	9.4	1.6	25.0	6.8	2.7
<b>Headache<sup>ε</sup></b>	8.9	2.5	0.6	9.4	3.9	0.0	12.2	4.7	0.0
<b>Irritability<sup>δ</sup></b>	54.0	26.4	3.2	52.8	20.1	3.1	53.5	22.9	2.8
<b>Crying abnormal<sup>δ</sup></b>	41.2	12.3	3.3	36.5	8.2	1.9	29.9	10.4	2.1
<b>Drowsiness<sup>δ</sup></b>	37.7	8.4	1.3	32.1	3.8	0.6	31.9	5.6	0.7
<b>Appetite loss<sup>δ</sup></b>	32.3	9.1	1.8	33.3	5.7	1.9	25.0	8.3	0.7
<b>Vomiting<sup>δ</sup></b>	14.8	6.2	1.0	11.3	4.4	0.6	13.9	6.3	0.0

\* NCT01240746

† The safety analysis set includes all persons who received at least one dose of study vaccine

‡ Fluzone Quadrivalent (0.25 mL) containing A/California/07/2009 (H1N1), A/Victoria/210/2009 (H3N2), B/Brisbane/60/2008 (Victoria lineage), and B/Florida/04/2006 (Yamagata lineage)

§ Participants received 1 or 2 doses according to ACIP recommendations

¶ N is the number of participants in the safety analysis set

# 2010-2011 Fluzone TIV (0.25 mL) containing A/California/07/2009 (H1N1),

A/Victoria/210/2009 (H3N2), and B/Brisbane/60/2008 (Victoria lineage), licensed  
 p Investigational TIV (0.25 mL) containing A/California/07/2009 (H1N1),  
 A/Victoria/210/2009 (H3N2), and B/Florida/04/2006 (Yamagata lineage), non-  
 licensed

- β Grade 2 - Injection-site pain: sufficiently discomforting to interfere with normal behavior or activities; Injection-site tenderness: cries and protests when injection-site is touched; Injection-site erythema, Injection-site swelling: ≥2.5 cm to <5 cm; Fever: >101.3°F to ≤103.1°F (6 months through 23 months); ≥101.2°F to ≤102.0°F (24 months through 35 months); Malaise, Myalgia, and Headache: some interference with activity; Irritability: requiring increased attention; Crying abnormal: 1 to 3 hours; Drowsiness: not interested in surroundings or did not wake up for a feed/meal; Appetite loss: missed 1 or 2 feeds/meals completely; Vomiting: 2 to 5 episodes per 24 hours
- à Grade 3 - Injection-site pain: incapacitating, unable to perform usual activities; Injection-site tenderness: cries when injected limb is moved, or the movement of the injected limb is reduced; Injection-site erythema, Injection-site swelling: ≥5 cm; Fever: >103.1°F (6 months through 23 months); ≥102.1°F (24 months through 35 months); Malaise, Myalgia, and Headache: Significant; prevents daily activity; Irritability: inconsolable; Crying abnormal: >3 hours; Drowsiness: sleeping most of the time or difficult to wake up; Appetite loss: refuses ≥3 feeds/meals or refuses most feeds/meals; Vomiting: ≥6 episodes per 24 hours or requiring parenteral hydration
- è Assessed in children 24 months through 35 months of age  
 ø Assessed in children 6 months through 23 months of age  
 ∅ Fever measured by any route

**Table 5: Percentage of Solicited Injection-site and Systemic Adverse Reactions Within 7 Days After Vaccination in Children 3 Years Through 8 Years of Age (Study 2\* Safety Analysis Set†)**

	Fluzone Quadrivalent‡ (N <sup>§</sup> =1669)			TIV-1¶ (B Victoria) (N <sup>§</sup> =424)			TIV-2# (B Yamagata) (N <sup>§</sup> =413)		
	Any (%)	Grade 2 <sup>p</sup> (%)	Grade 3 <sup>β</sup> (%)	Any (%)	Grade 2 <sup>p</sup> (%)	Grade 3 <sup>β</sup> (%)	Any (%)	Grade 2 <sup>p</sup> (%)	Grade 3 <sup>β</sup> (%)
<b>Injection-site adverse reactions</b>									
<b>Pain</b>	66.6	15.8	2.1	64.6	9.5	2.0	63.8	11.6	2.8
<b>Erythema</b>	34.1	2.9	1.8	36.8	3.4	1.2	35.2	2.5	1.8
<b>Swelling</b>	24.8	2.8	1.4	25.4	1.5	1.2	25.9	2.5	1.8
<b>Systemic adverse reactions</b>									
<b>Fever (≥100.4°F)<sup>à</sup></b>	7.0	2.1	2.1	7.1	2.2	1.2	7.6	2.8	0.8
<b>Headache</b>	23.1	6.8	2.2	21.2	5.1	2.7	24.4	7.5	2.0
<b>Malaise</b>	31.9	11.2	5.5	32.8	11.4	5.6	33.4	10.8	5.0
<b>Myalgia</b>	38.6	12.2	3.3	34.1	9.0	2.7	38.4	11.1	2.8

\* NCT01240746

† The safety analysis set includes all persons who received at least one dose of study vaccine

‡ Fluzone Quadrivalent containing A/California/07/2009 (H1N1), A/Victoria/210/2009

(H3N2), B/Brisbane/60/2008 (Victoria lineage), and B/Florida/04/2006 (Yamagata lineage)

§ N is the number of participants in the safety analysis set

¶ 2010-2011 Fluzone TIV containing A/California/07/2009 (H1N1), A/Victoria/210/2009 (H3N2), and B/Brisbane/60/2008 (Victoria lineage), licensed

# Investigational TIV containing A/California/07/2009 (H1N1), A/Victoria/210/2009 (H3N2), and B/Florida/04/2006 (Yamagata lineage), non-licensed

p Grade 2 - Injection-site pain: sufficiently discomforting to interfere with normal behavior or activities; Injection-site erythema, Injection-site swelling:  $\geq 2.5$  cm to  $< 5$  cm; Fever:  $\geq 101.2^\circ\text{F}$  to  $\leq 102.0^\circ\text{F}$ ; Headache, Malaise, and Myalgia: some interference with activity

β Grade 3 - Injection-site pain: incapacitating, unable to perform usual activities; Injection-site erythema, Injection-site swelling:  $\geq 5$  cm; Fever:  $\geq 102.1^\circ\text{F}$ ; Headache, Malaise, and Myalgia: Significant; prevents daily activity

à Fever measured by any route

Among children 6 months through 8 years of age, unsolicited non-serious adverse events were reported in 1360 (47.0%) recipients in the Fluzone Quadrivalent group, 352 (48.0%) recipients in the TIV-1 group, and 346 (48.0%) recipients in the TIV-2 group. The most commonly reported unsolicited non-serious adverse events were cough, vomiting, and pyrexia. During the 28 days following vaccination, a total of 16 (0.6%) recipients in the Fluzone Quadrivalent group, 4 (0.5%) recipients in the TIV-1 group, and 4 (0.6%) recipients in the TIV-2 group, experienced at least one SAE. Throughout the study period, a total of 41 (1.4%) recipients in the Fluzone Quadrivalent group, 7 (1.0%) recipients in the TIV-1 group, and 14 (1.9%) recipients in the TIV-2 group, experienced at least one SAE. Three SAEs were considered to be possibly related to vaccination: croup in a Fluzone Quadrivalent recipient and 2 episodes of febrile seizure, 1 each in a TIV-1 recipient and a TIV-2 recipient.

Study 3 (NCT02915302) was a randomized, observer-blinded, 2-arm, multi-center safety and immunogenicity study conducted in the US. In this study, 1950 children 6 months through 35 months of age were randomly assigned to receive Fluzone Quadrivalent administered in either a volume of 0.25 mL (Group 1) or 0.5 mL (Group 2). For participants recommended to receive two doses of influenza vaccine as per Advisory Committee on Immunization Practices guidance, the same dose was administered 4 weeks after the first. The safety analysis set included 1941 participants who received at least 1 dose of study vaccine. Of these participants, 49.7% were female, 74.3% were Caucasian, 19.2% were Black, 6.5% were of other racial groups, and 22.0% were Hispanic/Latino. Data for Fluzone Quadrivalent are relevant to Fluzone because both vaccines are manufactured using the same process and have overlapping compositions.

Table 6 summarizes solicited injection-site and systemic adverse reactions reported within 7 days post-vaccination via diary cards for the 0.25 mL and 0.5 mL volumes of Fluzone Quadrivalent in children 6 months through 35 months of age.

**Table 6: Percentage of Solicited Injection Site and Systemic Adverse Reactions Within 7 Days After Vaccination in Children 6 Months Through 35 Month of Age (Study 3\* Safety Analysis Set<sup>†</sup>)**

	Fluzone Quadrivalent 0.25 mL <sup>‡</sup> (N <sup>§</sup> =949)		Fluzone Quadrivalent 0.5 mL <sup>‡</sup> (N <sup>§</sup> =992)	
	Any	Grade 3 <sup>¶</sup>	Any	Grade 3 <sup>¶</sup>

	(%)	(%)	(%)	(%)
<b>Injection-site adverse reactions</b>				
<b>Tenderness</b>	47.3	1.7	50.4	1.2
<b>Redness</b>	23.1	0.0	24.3	0.2
<b>Swelling</b>	12.9	0.1	14.7	0.0
<b>Systemic adverse reactions</b>				
<b>Irritability</b>	47.4	3.6	48.6	4.0
<b>Abnormal Crying</b>	33.3	3.1	34.1	2.6
<b>Drowsiness</b>	31.9	2.1	31.3	1.6
<b>Loss of Appetite</b>	27.3	1.4	28.3	2.2
<b>Fever (≥100.4°F) #</b>	11.3	0.6	12.2	1.2
<b>Vomiting</b>	10.0	0.4	10.2	0.5

\* NCT02915302

† The safety analysis set includes all persons who received at least one dose of study vaccine

‡ Participants received 1 or 2 doses according to ACIP recommendations

§ N is the number of participants in the safety analysis set

¶ Grade 3 - Injection-site tenderness: Cries when injected limb is moved, or the movement of the injected limb is reduced; Injection-site redness, Injection-site swelling: ≥ 50 mm; Irritability: inconsolable; Abnormal Crying: > 3 hours; Drowsiness: sleeping most of the time or difficult to wake up; Loss of Appetite: refuses ≥ 3 feeds/meals or refuses most feeds/meals; Fever: >103.1°F; Vomiting: ≥ 6 episodes per 24 hours or requiring parenteral hydration

# Fever measured by any route

The difference in fever rate (Group 2 minus Group 1) was 0.84% (95% CI: -2.13%; 3.80%), meeting the prespecified non-inferiority criterion (upper limit of the 2-sided 95% CI of the difference in fever rates < 5%). Participants were monitored for unsolicited adverse events and SAEs during the 28 days following vaccination. Unsolicited non-serious adverse events were reported in 417 (44%) participants in Group 1 and 394 (40%) participants in Group 2. The most commonly reported unsolicited non-serious adverse events in both groups were cough and rhinorrhea. Ten SAEs were reported during the 28-day follow-up period: 5 (0.5%) in Group 1 and 5 (0.5%) in Group 2.

## Adults

Study 4 (NCT00772109) was a multi-center trial conducted in the US. In this study adults 18 through 64 years of age received Fluzone (2008–2009 formulation). The safety analysis set included 1421 Fluzone recipients. Table 7 summarizes solicited injection-site reactions and systemic adverse reactions reported within 7 days post-vaccination via diary cards.

**Table 7: Frequency of Solicited Injection Site and Systemic Adverse Reactions Within 7 Days After Vaccination with Fluzone, Adults 18 Through 64 Years of Age (Study 4\*)**

	(N <sup>†</sup> =1392-1394) Percentage

	<b>Any</b>	<b>Grade 2<sup>‡</sup></b>	<b>Grade 3<sup>§</sup></b>
<b>Injection-Site Erythema</b>	13.2	2.1	0.9
<b>Injection-Site Induration</b>	10.0	2.3	0.5
<b>Injection-Site Swelling</b>	8.4	2.1	0.9
<b>Injection-Site Pain</b>	53.7	5.8	0.8
<b>Injection-Site Pruritus</b>	9.3	0.4	0.0
<b>Injection-Site Ecchymosis</b>	6.2	1.1	0.4
<b>Headache</b>	30.3	6.5	1.6
<b>Myalgia</b>	30.8	5.5	1.4
<b>Malaise</b>	22.2	5.5	1.8
<b>Shivering</b>	6.2	1.1	0.6
<b>Fever<sup>¶</sup> (≥99.5°F)</b>	2.6	0.4	0.2

\* NCT00772109

† N is the number of vaccinated participants with available data for the adverse reactions listed

‡ Grade 2 - Injection-site erythema, Injection-site induration, Injection-site swelling, and Injection-site ecchymosis: ≥2.5 cm to <5 cm; Injection-site pain and Injection-site pruritus: sufficiently discomforting to interfere with normal behavior or activities; Fever: >100.4°F to ≤102.2°F; Headache, Myalgia, Malaise, and Shivering: interferes with daily activities

§ Grade 3 - Injection-site erythema, Injection-site induration, Injection-site swelling, and Injection-site ecchymosis: ≥5 cm; Injection-site pain: incapacitating, unable to perform usual activities; Injection-site pruritus: incapacitating, unable to perform usual activities, may have/or required medical care or absenteeism; Fever: >102.2°F; Headache, Myalgia, Malaise, and Shivering: prevents daily activities

¶ Fever - The percentage of temperature measurements that were taken by oral or axillary routes, or not recorded were 99.6%, 0.0%, and 0.4%, respectively

Within 28 days and 6 months post-vaccination, a serious adverse event was reported by 5 (0.4%) and 20 (1.4%) Fluzone recipients, respectively. No serious adverse event was considered to be caused by vaccination. No deaths were reported during the 6 months post-vaccination.

In Study 5 (NCT00391053) adults 65 years of age and older received Fluzone (2006–2007 formulation). The study was a multi-center, double-blind trial conducted in the US. The safety analysis set included 1260 Fluzone recipients.

Table 8 summarizes solicited injection-site reactions and systemic adverse reactions reported within 7 days post-vaccination via diary cards. Onset was usually within the first 3 days after vaccination and a majority of the adverse reactions resolved within 3 days.

**Table 8: Frequency of Solicited Injection Site and Systemic Adverse Reactions Within 7 Days After Vaccination with Fluzone, Adults 65 Years of Age and Older (Study 5\*)**

	<b>N<sup>†</sup>=1258-1260 Percentage</b>		
	<b>Any</b>	<b>Moderate<sup>‡</sup></b>	<b>Severe<sup>§</sup></b>
<b>Injection-Site Pain</b>	24.3	1.7	0.2
<b>Injection-Site Erythema</b>	10.8	0.8	0.6

<b>Injection-Site Swelling</b>	5.8	1.3	0.6
<b>Myalgia</b>	18.3	3.2	0.2
<b>Malaise</b>	14.0	3.7	0.6
<b>Headache</b>	14.4	2.5	0.3
<b>Fever<sup>¶</sup> (≥99.5°F)</b>	2.3	0.2	0.1

\* NCT00391053

† N is the number of vaccinated participants with available data for the adverse reactions listed

‡ Moderate - Injection-site pain: sufficiently discomforting to interfere with normal behavior or activities; Injection-site erythema and Injection-site swelling: ≥2.5 cm to <5 cm; Fever: >100.4°F to ≤102.2°F; Myalgia, Malaise, and Headache: interferes with daily activities

§ Severe - Injection-site pain: incapacitating, unable to perform usual activities; Injection-site erythema and Injection-site swelling: ≥5 cm; Fever: >102.2°F; Myalgia, Malaise, and Headache: prevents daily activities

¶ Fever - The percentage of temperature measurements that were taken by oral route or not recorded were 98.6% and 1.4%, respectively

Within 6 months post-vaccination, 93 (7.4%) Fluzone recipients experienced a serious adverse event (N=1260). No deaths were reported within 28 days post-vaccination. A total of 7 deaths were reported during the period Day 29–180 post-vaccination: 7 (0.6%) among Fluzone recipients (N=1260). The majority of these participants had a medical history of cardiac, hepatic, neoplastic, renal, and/or respiratory diseases. No deaths were considered to be caused by vaccination.

## 6.2 Postmarketing Experience

The following adverse events have been spontaneously reported during the post-approval use of Fluzone or Fluzone Quadrivalent. Because these events are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to vaccine exposure. Adverse events were included based on one or more of the following factors: severity, frequency of reporting, or strength of evidence for a causal relationship to Fluzone or Fluzone Quadrivalent.

- *Blood and Lymphatic System Disorders*: Thrombocytopenia, lymphadenopathy
- *Immune System Disorders*: Anaphylaxis, other allergic/hypersensitivity reactions (including urticaria, angioedema)
- *Eye Disorders*: Ocular hyperemia
- *Nervous System Disorders*: Guillain-Barré syndrome (GBS), convulsions, febrile convulsions, myelitis (including encephalomyelitis and transverse myelitis), facial palsy (Bell's palsy), optic neuritis/neuropathy, brachial neuritis, syncope (shortly after vaccination), dizziness, paresthesia
- *Vascular Disorders*: Vasculitis, vasodilatation/flushing
- *Respiratory, Thoracic and Mediastinal Disorders*: Dyspnea, oropharyngeal pain, rhinorrhea, cough, wheezing, throat tightness
- *Skin and Subcutaneous Tissue Disorders*: Stevens-Johnson syndrome
- *General Disorders and Administration Site Conditions*: Pruritus, asthenia/fatigue, pain in extremities, chest pain
- *Gastrointestinal Disorders*: Vomiting

## **8 USE IN SPECIFIC POPULATIONS**

### **8.1 Pregnancy**

#### Risk Summary

All pregnancies have a risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

Available data with Fluzone use in pregnant women are insufficient to inform vaccine-associated risk of adverse developmental outcomes.

There were no developmental studies of Fluzone performed in animals. The developmental effects of Fluzone Quadrivalent are relevant to Fluzone because both vaccines are manufactured using the same process and have overlapping compositions. A developmental toxicity study was performed in female rabbits administered Fluzone Quadrivalent prior to mating and during gestation. The dose was 0.5 mL on each of five occasions (a single human dose is 0.5 mL). This study revealed no adverse effects to the fetus or pre-weaning development and no evidence of impaired female fertility due to Fluzone Quadrivalent (see Data).

#### Data

*Animal Data:* A developmental toxicity study was performed in female rabbits administered Fluzone Quadrivalent by intramuscular injection on 24 and 10 days before insemination, and on Days 6, 12, and 27 of gestation. The dose was 0.5 mL on each occasion (a single human dose is 0.5 mL). This study revealed no vaccine related fetal malformations and no adverse effects on pre-weaning development or female fertility.

#### Clinical Considerations

##### *Disease-associated Maternal and/or Embryo/Fetal Risk*

Pregnant women are at increased risk of complications associated with influenza infection compared to non-pregnant women. Pregnant women who contract influenza may be at increased risk for adverse pregnancy outcomes, including preterm labor and delivery.

### **8.2 Lactation**

It is not known if Fluzone is excreted in human milk. Data are not available to assess the effects of Fluzone on the breastfed infant or on milk production/excretion.

The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for Fluzone and any potential adverse effects on the breastfed child from Fluzone or from the underlying maternal condition. For preventive vaccines, the underlying maternal condition is susceptibility to the disease prevented by the vaccine.

### **8.4 Pediatric Use**

Safety and effectiveness of Fluzone in children below the age of 6 months have not been established. Safety and effectiveness of Fluzone in children 9 through 17 years of age is based on safety and effectiveness in children 6 months through 8 years of age and

adults 18 years of age and older.

## 8.5 Geriatric Use

Safety and immunogenicity of Fluzone were evaluated in adults 65 years of age and older. [See *Adverse Reactions (6.1)* and *Clinical Studies (14.3)*] Antibody responses to Fluzone are lower in persons  $\geq 65$  years of age than in younger adults. [See *Clinical Studies (14.5, 14.6)*]

## 11 DESCRIPTION

Fluzone (Influenza Vaccine) for intramuscular use is an inactivated influenza vaccine, prepared from influenza viruses propagated in embryonated chicken eggs. The virus-containing allantoic fluid is harvested and inactivated with formaldehyde. Influenza virus is concentrated and purified in a linear sucrose density gradient solution using a continuous flow centrifuge. The virus is then chemically disrupted using a non-ionic surfactant, octylphenol ethoxylate (Triton<sup>®</sup> X-100), producing a "split virus". The split virus containing hemagglutinin (HA) antigen is further purified and then suspended in sodium phosphate-buffered isotonic sodium chloride solution. The purified split virus from the three strains included in the vaccine are produced separately and then combined to make the trivalent formulation.

Fluzone is an injectable suspension and is clear and slightly opalescent in color.

Antibiotics are not used in the manufacture of Fluzone.

No presentation of Fluzone is made with natural rubber latex.

Fluzone is standardized according to United States Public Health Service requirements and is formulated to contain HA of each of the following three influenza strains recommended for the 2025-2026 influenza season: A/Victoria/4897/2022 IVR-238 (H1N1), A/Croatia/10136RV/2023 X-425A (H3N2), and B/Michigan/01/2021 (a B/Austria/1359417/2021-like virus, B Victoria lineage). The amounts of HA and other ingredients per dose of vaccine are listed in Table 9. The 0.5 mL single-dose, pre-filled syringe presentation is manufactured and formulated without thimerosal or any other preservative. The 5 mL multi-dose vial presentation contains thimerosal, a mercury derivative, added as a preservative. Each 0.5 mL dose from the multi-dose vial contains 25 mcg mercury. Each 0.25 mL dose from the multi-dose vial contains 12.5 mcg mercury.

**Table 9: Fluzone Ingredients**

Ingredient	Quantity (per dose)	
	Fluzone 0.25 mL Dose	Fluzone 0.5 mL Dose
<b>Active Substance: Split influenza virus, inactivated strains*:</b>	22.5 mcg HA total	45 mcg HA total
A (H1N1)	7.5 mcg HA	15 mcg HA
A (H3N2)	7.5 mcg HA	15 mcg HA

B	7.5 mcg HA	15 mcg HA
<b>Other:</b>		
Sodium phosphate-buffered isotonic sodium chloride solution	QS <sup>†</sup> to appropriate volume	QS <sup>†</sup> to appropriate volume
Formaldehyde	≤50 mcg	≤100 mcg
Octylphenol ethoxylate	≤125 mcg	≤250 mcg
<b>Preservative</b>		
Single-dose presentations	-	-
Multi-dose presentation (thimerosal)	12.5 mcg mercury	25 mcg mercury

"-" Indicates information is not applicable

\* per United States Public Health Service (USPHS) requirement

† Quantity Sufficient

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Specific levels of hemagglutination inhibition (HI) antibody titer post-vaccination with inactivated influenza virus vaccines have not been correlated with protection from influenza virus infection. In some human studies, antibody titers  $\geq 1:40$  have been associated with protection from influenza illness in up to 50% of participants. (2) (3)

Antibodies against one influenza virus type or subtype confer limited or no protection against another. Furthermore, antibodies to one antigenic variant of influenza virus might not protect against a new antigenic variant of the same type or subtype. Frequent development of antigenic variants through antigenic drift is the virologic basis for seasonal epidemics and the reason for the usual change of one or more new strains in each year's influenza vaccine.

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Fluzone has not been evaluated for carcinogenic or mutagenic potential or for impairment of fertility in males.

## 14 CLINICAL STUDIES

### 14.1 Efficacy of Fluzone in Children 6 through 24 Months of Age

Study 6 (NCT not available) was a randomized, double-blind, placebo-controlled study conducted at a single US center during the 1999–2000 (Year 1) and 2000–2001 (Year 2) influenza seasons. The intent-to-treat analysis set included a total of 786 children 6 through 24 months of age. Participants received two 0.25ml doses of either Fluzone (N = 525) or a placebo (N = 261) 4 weeks apart. Among all randomized participants in both years, the mean age was 13.8 months; 52.5% were male, 50.8% were Caucasian, 42.0% were Black, and 7.2% were of other racial groups. Cases of influenza were identified

through active and passive surveillance for influenza-like illness or acute otitis media and confirmed by culture. Influenza-like illness was defined as fever with signs or symptoms of an upper respiratory infection. Vaccine efficacy against all influenza viral types and subtypes was a secondary endpoint and is presented in Table 10.

**Table 10: Estimated Efficacy of Fluzone Against Culture-Confirmed Influenza in Children Aged 6 through 24 Months during the 1999-2000 and 2000-2001 Influenza Seasons - Intent-to-Treat Analysis Set\* (Study 6)**

Year	Fluzone <sup>†</sup>				Placebo <sup>‡</sup>				Fluzone vs. Placebo	
	n <sup>§</sup>	N <sup>¶</sup>	Rate (n/N) #	(95% CI)	n <sup>§</sup>	N <sup>¶</sup>	Rate (n/N) #	(95% CI)	Relative Risk (95% CI)	Percent Relative Reduction <sup>Ⓟ</sup> (95% CI)
Year 1 <sup>β</sup> (1999-2000)	15	273	5.5	(3.1; 8.9)	22	138	15.9	(10.3; 23.1)	0.34 (0.18; 0.64)	66 (36; 82)
Year 2 <sup>à</sup> (2000-2001)	9	252	3.6	(1.6; 6.7)	4	123	3.3	(0.9; 8.1)	1.10 (0.34; 3.50)	-10 (-250; 66)

\* The intent-to-treat analysis set includes all enrolled participants who were randomly assigned to receive Fluzone or placebo and vaccinated

† Fluzone: 1999-2000 formulation containing A/Beijing/262/95 (H1N1), A/Sydney/15/97 (H3N2), and B/Yamanashi/166/98 (Yamagata lineage) and 2000-2001 formulation containing A/New Caledonia/20/99 (H1N1), A/Panama/2007/99 (H3N2), and B/Yamanashi/166/98 (Yamagata lineage)

‡ Placebo: 0.4% NaCl

§ n is the number of participants with culture-confirmed influenza for the given year of study as listed in the first column

¶ N is the number of participants randomly assigned to receive Fluzone or placebo for the given year of study as listed in the column headers (intent-to-treat analysis set)

# Rate (%) = (n/N) \* 100

Ⓟ Relative reduction in vaccine efficacy was defined as (1-relative risk) × 100

β Includes all culture confirmed influenza cases throughout the study duration for Year 1 (12 months of follow-up)

à Includes all culture-confirmed influenza cases throughout the study duration for Year 2 (6 months of follow-up)

## 14.2 Efficacy of Fluzone in Adults

Study 7 (NCT00538512) was a randomized, double-blind, placebo-controlled study conducted in a single US center during the 2007-2008 influenza season. Participants received one dose of either Fluzone vaccine (N = 813), an active comparator (N = 814), or placebo (N = 325). The intent-to-treat analysis set included 1138 healthy adults who received Fluzone or placebo. Participants were 18 through 49 years of age (mean age was 23.3 years); 63.3% were female, 83.1% were Caucasian, and 16.9% were of other racial/ethnic groups. Cases of influenza were identified through active and passive surveillance and confirmed by cell culture and/or real-time polymerase chain reaction (PCR). Influenza-like illness was defined as an illness with at least 1 respiratory symptom (cough or nasal congestion) and at least 1 constitutional symptom (fever or feverishness, chills, or body aches). Vaccine efficacy of Fluzone against all influenza viral

types and subtypes is presented in Table 11.

**Table 11: Estimated Efficacy of Fluzone Vaccine Against Influenza in Adults Aged 18 through 49 Years during the 2007-2008 Influenza Season - Intent-to-Treat Analysis Set\* (Study 7†)**

Laboratory-Confirmed Symptomatic Influenza	Fluzone‡ (N=813) §			Placebo¶ (N=325) §			Fluzone vs. Placebo	
	n#	Rate (%) <sup>Ⓟ</sup>	(95% CI)	n#	Rate (%) <sup>Ⓟ</sup>	(95% CI)	Relative Risk (95% CI)	Percent Relative Reduction <sup>Ⓡ</sup> (95% CI)
<b>Positive culture</b>	21	2.6	(1.6; 3.9)	31	9.5	(6.6; 13.3)	0.27 (0.16; 0.46)	73 (54; 84)
<b>Positive PCR</b>	28	3.4	(2.3; 4.9)	35	10.8	(7.6; 14.7)	0.32 (0.20; 0.52)	68 (48; 80)
<b>Positive culture, positive PCR, or both</b>	28	3.4	(2.3; 4.9)	35	10.8	(7.6; 14.7)	0.32 (0.20; 0.52)	68 (48; 80)

\* The intent-to-treat analysis set includes all enrolled participants who were randomly assigned to receive Fluzone or placebo and vaccinated

† NCT00538512

‡ Fluzone: 2007-2008 formulation containing A/Solomon Islands/3/2006 (H1N1), A/Wisconsin/67/2005 (H3N2), and B/Malaysia/2506/2004 (Victoria lineage)

§ N is the number of participants randomly assigned to receive Fluzone or placebo

¶ Placebo: 0.9% NaCl

# n is the number of participants satisfying the criteria listed in the first column

Ⓟ Rate (%) = (n/N) \* 100

Ⓡ Relative reduction in vaccine efficacy was defined as (1 - relative risk) × 100

### 14.3 Immunogenicity of Fluzone in Children 6 Months through 8 Years of Age

In Study 1, a multi-center study conducted in the US, 68 children 6 months through 35 months of age given two 0.25 mL doses of Fluzone and 120 children 3 years through 8 years of age given two 0.5 mL doses of Fluzone were included in the per-protocol analysis set. The two doses (2006-2007 formulation) were administered 26 to 30 days apart. Females accounted for 42.6% of the participants in the 6 months through 35 months age group and 53.3% of the participants in the 3 years through 8 years age group. Most participants in the 6 months through 35 months and 3 years through 8 years age groups, respectively, were Caucasian (70.6% and 79.2%), followed by Hispanic (19.1% and 13.3%), and Black (7.4% and 4.2%).

The percentage of participants who received influenza vaccination during the previous influenza season was 54.4% for the 6 months through 35 months age group and 27.5% for the 3 years through 8 years age group. Table 12 shows seroconversion rates and the percentage of participants with an HI titer ≥1:40 pre-vaccination and one month following the second dose of Fluzone.

**Table 12: Percentage (%) with Pre and Post-Vaccination HI Titers  $\geq 1:40$  and Seroconversion Following the Second Vaccine Injection with Fluzone\* in Children 6 Months Through 35 Months and 3 Years Through 8 Years of Age (Study 1†)**

Antigen	Age Group	Pre-Vaccination Titer $\geq 1:40$ % (95% CI)	Post-Vaccination‡ Titer $\geq 1:40$ % (95% CI)	Seroconversion§ % (95% CI)
		N=68 (6 to 35 months); N=120 (3 through 8 years)		
<b>A (H1N1)</b>	6 through 35 months	11.8 (5.2; 21.9)	92.6 (83.7; 97.6)	88.2 (78.1; 94.8)
	3 through 8 years	40.0 (31.2; 49.3)	99.2 (95.4; 100.0)	78.3 (69.9; 85.3)
<b>A (H3N2)</b>	6 through 35 months	29.4 (19.0; 41.7)	100.0 (94.7; 100.0)	91.2 (81.8; 96.7)
	3 through 8 years	80.0 (71.7; 86.7)	100.0 (97.0; 100.0)	61.7 (52.4; 70.4)
<b>B</b>	6 through 35 months	1.5 (0.0; 7.9)	20.6 (11.7; 32.1)	20.6 (11.7; 32.1)
	3 through 8 years	3.3 (0.9; 8.3)	58.3 (49.0; 67.3)	53.3 (44.0; 62.5)

\* Children received two doses of Fluzone administered 26 to 30 days apart, irrespective of previous influenza vaccination history

† NCT00391391

‡ Post-vaccination HI titers drawn at 28 days post-dose

§ Seroconversion: Paired samples with pre-vaccination HI titer  $< 1:10$  and post-vaccination (28 days post-dose 2) titer  $\geq 1:40$  or a minimum 4-fold increase for participants with pre-vaccination titer  $\geq 1:10$

#### **14.4 Immunogenicity of a 0.5 mL Dose of Fluzone Quadrivalent in Children 6 Months through 35 Months of Age**

In Study 3 (NCT02915302) [see *Adverse Reactions (6.1)*], 1027 children, 6 months through 35 months of age, were included in the per-protocol immunogenicity analysis. The distribution of demographic characteristics was similar to that of the safety analysis set [see *Adverse Reactions (6.1)*].

In this study, children 6 months through 35 months of age received one or two doses of either 0.25 mL or 0.5 mL of Fluzone Quadrivalent. Non-inferiority of the 0.5 mL dose(s) relative to the 0.25 mL dose(s) of Fluzone Quadrivalent was demonstrated for all four strains based on pre-specified criteria (lower limit of the 2-sided 95% CI of the ratio of GMTs between groups  $> 0.667$ ; lower limit of the 2-sided 95% CI of the difference in seroconversion rates  $> -10\%$ ). GMT ratios (GMT<sub>0.5-mL dose</sub> divided by GMT<sub>0.25-mL dose</sub>) for the A/H1N1, A/H3N2, B Victoria lineage, and B Yamagata lineage strains were 1.42 (95% CI: 1.16; 1.74), 1.48 (95% CI: 1.21; 1.82), 1.33 (95% CI: 1.09; 1.62), and 1.41 (95% CI: 1.17; 1.70), respectively. Seroconversion rate (SCR) differences (SCR<sub>0.5-mL dose</sub> minus SCR<sub>0.25-mL dose</sub>) for the A/H1N1, A/H3N2, B Victoria lineage, and B Yamagata lineage strains were 4.6% (95% CI: -0.4%; 9.6%), 5.1% (95% CI: 0.4%; 9.8%),

1.3% (95% CI: -2.9%; 5.6%), and 2.6% (95% CI: -1.4%; 6.5%). Data for Fluzone Quadrivalent are relevant to Fluzone because both vaccines are manufactured using the same process and have overlapping compositions.

#### 14.5 Immunogenicity of Fluzone in Adults

Adults 18 through 64 years of age received Fluzone (2008–2009 formulation) in Study 4, a multi-center trial conducted in the US. For immunogenicity analyses, there were 1287 participants who received Fluzone in the per-protocol analysis set. There were fewer males (35.8%) than females. The mean age was 42.6 years (ranged from 18.2 through 65.0 years). Most participants were Caucasian (80.0%), followed by Hispanic (11.0%), and Black (6.3%). Table 13 shows seroconversion rates at 28 days following vaccination and the percentage of participants with an HI titer  $\geq 1:40$  prior to vaccination and 28 days following vaccination.

**Table 13: Percentage (%) with Pre and Post-Vaccination HI Titers  $\geq 1:40$  and Seroconversion in Adult Fluzone Recipients 18 Through 64 Years of Age (Study 4\*)**

<b>Antigen</b>	<b>Pre-Vaccination Titer <math>\geq 1:40</math> % (95% CI) N<sup>§</sup>=1285-1286</b>	<b>Post-Vaccination<sup>†</sup> Titer <math>\geq 1:40</math> % (95% CI) N<sup>§</sup>=1283-1285</b>	<b>Seroconversion<sup>‡</sup> % (95% CI) N<sup>§</sup>=1283-1285</b>
<b>A (H1N1)</b>	39.1 (36.4; 41.8)	91.7 (90.0; 93.1)	60.5 (57.7; 63.2)
<b>A (H3N2)</b>	33.6 (31.0; 36.2)	91.4 (89.8; 92.9)	74.8 (72.3; 77.1)
<b>B</b>	41.2 (38.5; 44.0)	89.3 (87.4; 90.9)	54.2 (51.4; 56.9)

\* NCT00772109

† Post-vaccination HI titers drawn at 28 days post-dose

‡ Seroconversion: Paired samples with pre-vaccination HI titer  $< 1:10$  and post-vaccination (28 days post-dose) titer  $\geq 1:40$  or a minimum 4-fold increase for participants with pre-vaccination titer  $\geq 1:10$

§ N is the number of vaccinated participants with available data for the immunologic endpoint listed

#### 14.6 Immunogenicity of Fluzone in Geriatric Adults

Adults 65 years of age and older received Fluzone (2006–2007 formulation) in Study 5, a multi-center trial conducted in the US. For immunogenicity analyses, there were 1275 participants who received Fluzone in the immunogenicity analysis set. Females accounted for 54.7% of participants. The mean age was 72.9 years (ranged from 65 through 94 years of age); 36% of participants were 75 years of age or older. Most participants were Caucasian (92.9%), followed by Hispanic (3.7%), and Black (2.7%). Table 14 shows seroconversion rates at 28 days following vaccination and the percentage of participants with an HI titer  $\geq 1:40$  prior to vaccination and 28 days following vaccination.

**Table 14: Percentage (%) with Pre and Post-Vaccination HI Titers  $\geq 1:40$  and Seroconversion in Adult Fluzone Recipients 65 Years of Age and Older (Study 5\*)**

<b>Antigen</b>	<b>Pre-Vaccination HI</b>	<b>Post-Vaccination<sup>†</sup></b>	<b>Seroconversion<sup>‡</sup></b>
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<b>Antigen</b>	<b>Titer ≥1:40 % (95% CI) N<sup>§</sup>=1267-1268</b>	<b>Titer ≥1:40 % (95% CI) N<sup>§</sup>=1252</b>	<b>SEROCONVERSION* % (95% CI) N<sup>§</sup>=1248-1249</b>
<b>A (H1N1)</b>	45.9 (43.2; 48.7)	76.8 (74.3; 79.1)	23.1 (20.8; 25.6)
<b>A (H3N2)</b>	68.6 (66.0; 71.2)	96.5 (95.3; 97.4)	50.7 (47.9; 53.5)
<b>B</b>	27.3 (24.9; 29.9)	67.6 (64.9; 70.2)	29.9 (27.4; 32.6)

\* NCT00391053

† Post-vaccination HI titers drawn at 28 days post-dose

‡ Seroconversion: Paired samples with pre-vaccination HI titer <1:10 and post-vaccination (28 days post-dose) titer ≥1:40 or a minimum 4-fold increase for participants with pre-vaccination titer ≥1:10

§ N is the number of vaccinated participants with available data for the immunologic endpoint listed

## 15 REFERENCES

- 1 Lasky T, Terracciano GJ, Magder L, et al. The Guillain-Barré syndrome and the 1992-1993 and 1993-1994 influenza vaccines. *N Engl J Med* 1998;339:1797-802.
- 2 Hannoun C, Megas F, Piercy J. Immunogenicity and protective efficacy of influenza vaccination. *Virus Res* 2004;103:133-138.
- 3 Hobson D, Curry RL, Beare AS, Ward-Gardner A. The role of serum haemagglutination-inhibiting antibody in protection against challenge infection with influenza A2 and B viruses. *J Hyg Camb* 1972;70:767-777.

## 16 HOW SUPPLIED/STORAGE AND HANDLING

### 16.1 How Supplied

Multi-dose vial, 5 mL (NDC 49281-643-78) (not made with natural rubber latex). Supplied as package of one (NDC 49281-643-15). A maximum of ten doses can be withdrawn from the multi-dose vial.

Single-dose, prefilled syringe (clear plunger rod), without needle, 0.5 mL (NDC 49281-425-88) (not made with natural rubber latex). Supplied as package of 10 (NDC 49281-425-50).

### 16.2 Storage and Handling

Store all Fluzone presentations refrigerated at 2° to 8°C (35° to 46°F). DO NOT FREEZE. Discard if vaccine has been frozen.

Between uses, return the multi-dose vial to the recommended storage conditions at 2° to 8°C (35° to 46°F).

Do not use after the expiration date shown on the label.

## 17 PATIENT COUNSELING INFORMATION

See FDA-approved patient labeling (Patient Information).

- Inform the patient or guardian that Fluzone contains killed viruses and cannot cause influenza.

- Fluzone stimulates the immune system to produce antibodies that help protect against influenza, but does not prevent other respiratory infections.
- Annual influenza vaccination is recommended.
- Instruct vaccine recipients and guardians to report adverse reactions to their healthcare provider and/or to the Vaccine Adverse Event Reporting System (VAERS) at 1-800-822-7967.
- Vaccine Information Statements must be provided to vaccine recipients or their guardians, as required by the National Childhood Vaccine Injury Act of 1986 prior to immunization. These materials are available free of charge at the Centers for Disease Control and Prevention (CDC) website ([www.cdc.gov/vaccines](http://www.cdc.gov/vaccines)).

Fluzone is a registered trademark of Sanofi Pasteur Inc.

Manufactured by:

**Sanofi Pasteur Inc.**

Swiftwater PA 18370 USA

This product's labeling may have been updated. For the most recent prescribing information, please visit <https://dailymed.nlm.nih.gov/dailymed/>.

## **Patient Information Sheet**

**Fluzone®**

**Influenza Vaccine**

Please read this information sheet before getting Fluzone vaccine. This summary is not intended to take the place of talking with your healthcare provider. If you have questions or would like more information, please talk with your healthcare provider.

### **What is Fluzone vaccine?**

Fluzone is a vaccine that helps protect against influenza illness (flu).

Fluzone vaccine is for people who are 6 months of age and older.

Vaccination with Fluzone vaccine may not protect all people who receive the vaccine.

### **Who should not get Fluzone vaccine?**

You should not get Fluzone vaccine if you:

- ever had a severe allergic reaction to eggs or egg products.
- ever had a severe allergic reaction after getting any influenza vaccine.
- are younger than 6 months of age.

Tell your healthcare provider if you or your child have or have had:

- Guillain-Barré syndrome (severe muscle weakness) after getting an influenza vaccine.
- problems with your immune system as the immune response may be diminished.

### **How is the Fluzone vaccine given?**

Fluzone vaccine is given as an injection into the muscle.

### **What are the possible side effects of Fluzone vaccine?**

The most common side effects of Fluzone vaccine are:

- pain, redness, swelling, bruising and hardness where you got the injection
- muscle aches
- tiredness
- headache
- fever

These are not all of the possible side effects of Fluzone vaccine. Ask your healthcare provider about other side effects.

Call your healthcare provider for advice about any side effects that concern you. You may report side effects to the Vaccine Adverse Event Reporting System (VAERS) at 1-800-822-7967 or <http://vaers.hhs.gov>.

### **What are the ingredients in Fluzone vaccine?**

Fluzone vaccine contains 3 killed influenza virus strains.

Other ingredients include formaldehyde and octylphenol ethoxylate. The preservative thimerosal is only in the multi-dose vial of Fluzone vaccine.

Manufactured by:  
Sanofi Pasteur Inc.  
Swiftwater, PA 18370 USA

### **PRINCIPAL DISPLAY PANEL - 5 mL Multi-Dose Vial**

NDC 49281-643-78

Influenza Vaccine

Fluzone®

2025-2026 Formula

Contains Preservative. DO NOT FREEZE. Store at 2° to 8°C (35° to 46°F).

SHAKE WELL. Contents: One 5 mL multi-dose vial

0.25 mL or 0.5 mL dose for 6 - 35 months.

0.5 mL dose for 3 years of age and older.

For Intramuscular Use. See package insert for details.

US Govt License #1725  
Mfg by: Sanofi Pasteur Inc.

934295

Lot XXXXXXXX  
EXP XXXX/XX



NDC 49281-643-78  
**Influenza Vaccine**  
**Fluzone®**

5 mL Multi-Dose Vial



*Rx only*

2025-2026 Formula

Contains Preservative. **DO NOT FREEZE.** Store at 2° to 8°C (35° to 46°F).

**SHAKE WELL.** Contents: One 5 mL multi-dose vial.

**0.25 mL** or **0.5 mL** dose for 6 – 35 months.

**0.5 mL** dose for 3 years of age and older.

For Intramuscular Use. See package insert for details.

US Govt License #1725 Mfg by: **Sanofi Pasteur Inc.**

934295

Lot xxxxxxxx  
EXP xxxxx/xx

## PRINCIPAL DISPLAY PANEL - 5 mL Vial Package

NDC 49281-643-15

2025-2026  
Formula

Influenza Vaccine  
Fluzone®

Rx only

For 6 months of age and older.

For Intramuscular Use.

5 mL multi-dose vial.

0.25 mL or 0.5 mL dose for 6 - 35 months.

0.5 mL dose for 3 years of age and older.

sanofi

NDC 49281-643-15 2025-2026 Formula

### Influenza Vaccine



*Rx only*

**For 6 months of age and older.**

For Intramuscular Use.

**5 mL** multi-dose vial.

**0.25 mL** or **0.5 mL** dose for 6 – 35 months.

**0.5 mL** dose for 3 years of age and older.



Contents: One 5 mL multi-dose vial.  
**0.25 mL** or **0.5 mL** dose for 6 – 35 months.  
**0.5 mL** dose for 3 years of age and older.  
See package insert for details. Prepared from influenza viruses propagated in embryonated chicken eggs and inactivated with formaldehyde. Each dose contains the preservative thimerosal [(mercury derivative); (25 mcg mercury/0.5 mL dose; 12.5 mcg mercury/0.25 mL dose)]. Not made with natural rubber latex.



934296

**DO NOT FREEZE.** Store at 2° to 8°C (35° to 46°F). **SHAKE WELL.**

This vaccine has been standardized according to USPHS requirements for the 2025-2026 influenza season and is formulated to contain hemagglutinin (HA) representative of the following prototype strains: A/Victoria/4897/2022 IVR-238 (H1N1), A/Croatia/10136RV/2023 X-425A (H3N2), and B/Michigan/01/2021 (a B/Austria/1359417/2021-like virus, B Victoria lineage).



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US Govt Lic #1725  
Manufactured by:  
**Sanofi Pasteur Inc.,**  
Swiftwater, PA 18370 USA

271

GTIN: 00349281643156



XXXXXXXXXXXX

S/N

XX/XXXX

EXP

XXXXXX

Lot

NDC 49281-643-15

2025-2026  
Formula

### Influenza Vaccine



*Rx only*

**For 6 months of age and older.**

For Intramuscular Use.

**5 mL** multi-dose vial.

**0.25 mL** or **0.5 mL** dose for 6 – 35 months.

**0.5 mL** dose for 3 years of age and older.



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## PRINCIPAL DISPLAY PANEL - 0.5 mL Syringe Label

NDC 49281-125-88

Influenza Vaccine

Fluzone®

Rx only

2025-2026 Formula

No Preservative

For IM Use

0.5 mL Single-Dose

Mfd by: Sanofi Pasteur Inc.



## PRINCIPAL DISPLAY PANEL - 0.5 mL Syringe Package

NDC 49281-425-50

2025-2026

Formula

Influenza Vaccine

Fluzone®

Rx only

For Intramuscular Use

For 6 months of age and older  
10 single-dose prefilled syringes 0.5 mL each  
sanofi

NDC 49281-425-50

2025-2026 Formula

# Influenza Vaccine



For Intramuscular Use

**For 6 months of age and older**

**10** single-dose prefilled syringes **0.5 mL** each

*Rx only*

**DO NOT FREEZE.** Store at 2° to 8°C (35° to 46°F).  
**SHAKE WELL.**

FOR INTRAMUSCULAR USE.

See full prescribing information for additional details.

Prepared from influenza viruses propagated in embryonated chicken eggs and inactivated with formaldehyde. A nonionic surfactant (Triton® X-100\*) is added during manufacture.

This vaccine has been standardized according to USPHS requirements for the 2025-2026 influenza season and is formulated to contain 45 micrograms (mcg) hemagglutinin (HA) per 0.5 mL dose, in the recommended ratio of 15 mcg HA each, representative of the following prototype strains: A/Victoria/4897/2022 IVR-238 (H1N1), A/Croatia/10136RV/2023 X-425A (H3N2), and B/Michigan/01/2021 (a B/Austria/1359417/2021-like virus, B Victoria lineage).

Contains no preservative.

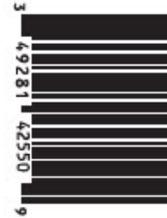
Not made with natural rubber latex.

\*Triton® X-100 – Registered trademark of Union Carbide, Co., USA.

US Govt License #1725  
Manufactured by:  
**Sanofi Pasteur Inc.**  
Swiftwater, PA 18370 USA



934286



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GTIN: 0034928142550

N/S

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EXP

XXXX/XX

Lot

XXXXXXXXXX



NDC 49281-425-50

2025-2026  
Formula

# Influenza Vaccine



*Rx only*

For Intramuscular Use

**For 6 months of age and older**

**10** single-dose prefilled syringes **0.5 mL** each



**sanofi**

# FLUZONE TRIVALENT NORTHERN HEMISPHERE

influenza a virus a/victoria/4897/2022 ivr-238 (h1n1) antigen (formaldehyde inactivated), influenza a virus a/croatia/10136/rv/2023 (h3n2) antigen (formaldehyde inactivated), and influenza b virus b/michigan/01/2021 antigen (formaldehyde inactivated) injection, suspension

## Product Information

Product Type	VACCINE	Item Code (Source)	NDC:49281-643
Route of Administration	INTRAMUSCULAR		

## Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>INFLUENZA A VIRUS A/VICTORIA/4897/2022 IVR-238 (H1N1) ANTIGEN (FORMALDEHYDE INACTIVATED)</b> (UNII: AU5C98U4BB) (INFLUENZA A VIRUS A/VICTORIA/4897/2022 IVR-238 (H1N1) HEMAGGLUTININ ANTIGEN (FORMALDEHYDE INACTIVATED) - UNII:C46XJT9FQ9)	INFLUENZA A VIRUS A/VICTORIA/4897/2022 IVR-238 (H1N1) HEMAGGLUTININ ANTIGEN (FORMALDEHYDE INACTIVATED)	15 ug in 0.5 mL
<b>INFLUENZA A VIRUS A/CROATIA/10136RV/2023 X-425A (H3N2) ANTIGEN (FORMALDEHYDE INACTIVATED)</b> (UNII: HQW9FZS4YK) (INFLUENZA A VIRUS A/CROATIA/10136RV/2023 X-425A (H3N2) HEMAGGLUTININ ANTIGEN (FORMALDEHYDE INACTIVATED) - UNII:SD82XNG5M6)	INFLUENZA A VIRUS A/CROATIA/10136RV/2023 X-425A (H3N2) HEMAGGLUTININ ANTIGEN (FORMALDEHYDE INACTIVATED)	15 ug in 0.5 mL
<b>INFLUENZA B VIRUS B/MICHIGAN/01/2021 ANTIGEN (FORMALDEHYDE INACTIVATED)</b> (UNII: FF9YP4D23C) (INFLUENZA B VIRUS B/MICHIGAN/01/2021 HEMAGGLUTININ ANTIGEN (FORMALDEHYDE INACTIVATED) - UNII:CQV855H5FG)	INFLUENZA B VIRUS B/MICHIGAN/01/2021 HEMAGGLUTININ ANTIGEN (FORMALDEHYDE INACTIVATED)	15 ug in 0.5 mL

## Inactive Ingredients

Ingredient Name	Strength
<b>OCTOXYNOL-9</b> (UNII: 7JPC6Y25QS)	
<b>SODIUM PHOSPHATE, DIBASIC, ANHYDROUS</b> (UNII: 22ADO53M6F)	
<b>SODIUM PHOSPHATE, MONOBASIC, ANHYDROUS</b> (UNII: KH7I04HPUU)	
<b>WATER</b> (UNII: 059QF0KO0R)	
<b>FORMALDEHYDE</b> (UNII: 1HG84L3525)	
<b>THIMEROSAL</b> (UNII: 2225PI3MOV)	

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:49281-643-15	1 in 1 PACKAGE		
1	NDC:49281-643-78	5 mL in 1 VIAL, MULTI-DOSE; Type 3: Prefilled Biologic Delivery Device/System (syringe, patch, etc.)		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
BLA	BLA103914	07/01/2025	06/30/2026

# FLUZONE TRIVALENT NORTHERN HEMISPHERE

influenza a virus a/victoria/4897/2022 ivr-238 (h1n1) antigen (formaldehyde inactivated), influenza a virus a/croatia/10136/rv/2023 (h3n2) antigen (formaldehyde inactivated), and influenza b virus b/michigan/01/2021 antigen (formaldehyde inactivated) injection, suspension

## Product Information

<b>Product Type</b>	VACCINE	<b>Item Code (Source)</b>	NDC:49281-425
<b>Route of Administration</b>	INTRAMUSCULAR		

## Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>INFLUENZA A VIRUS A/VICTORIA/4897/2022 IVR-238 (H1N1) ANTIGEN (FORMALDEHYDE INACTIVATED)</b> (UNII: AU5C98U4BB) (INFLUENZA A VIRUS A/VICTORIA/4897/2022 IVR-238 (H1N1) HEMAGGLUTININ ANTIGEN (FORMALDEHYDE INACTIVATED) - UNII:C46XJT9FQ9)	INFLUENZA A VIRUS A/VICTORIA/4897/2022 IVR-238 (H1N1) HEMAGGLUTININ ANTIGEN (FORMALDEHYDE INACTIVATED)	15 ug in 0.5 mL
<b>INFLUENZA A VIRUS A/CROATIA/10136RV/2023 X-425A (H3N2) ANTIGEN (FORMALDEHYDE INACTIVATED)</b> (UNII: HQW9FZS4YK) (INFLUENZA A VIRUS A/CROATIA/10136RV/2023 X-425A (H3N2) HEMAGGLUTININ ANTIGEN (FORMALDEHYDE INACTIVATED) - UNII:SD82XNG5M6)	INFLUENZA A VIRUS A/CROATIA/10136RV/2023 X-425A (H3N2) HEMAGGLUTININ ANTIGEN (FORMALDEHYDE INACTIVATED)	15 ug in 0.5 mL
<b>INFLUENZA B VIRUS B/MICHIGAN/01/2021 ANTIGEN (FORMALDEHYDE INACTIVATED)</b> (UNII: FF9YP4D23C) (INFLUENZA B VIRUS B/MICHIGAN/01/2021 HEMAGGLUTININ ANTIGEN (FORMALDEHYDE INACTIVATED) - UNII:CQV855H5FG)	INFLUENZA B VIRUS B/MICHIGAN/01/2021 HEMAGGLUTININ ANTIGEN (FORMALDEHYDE INACTIVATED)	15 ug in 0.5 mL

## Inactive Ingredients

Ingredient Name	Strength
<b>OCTOXYNOL-9</b> (UNII: 7JPC6Y25QS)	
<b>SODIUM PHOSPHATE, DIBASIC, ANHYDROUS</b> (UNII: 22ADO53M6F)	
<b>SODIUM PHOSPHATE, MONOBASIC, ANHYDROUS</b> (UNII: KH7I04HPUU)	
<b>WATER</b> (UNII: 059QF0KO0R)	
<b>FORMALDEHYDE</b> (UNII: 1HG84L3525)	

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:49281-425-50	10 in 1 PACKAGE		
1	NDC:49281-425-88	0.5 mL in 1 SYRINGE, GLASS; Type 3: Prefilled Biologic Delivery Device/System (syringe, patch, etc.)		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
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BLA	BLA103914	07/01/2024	
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**Labeler** - Sanofi Pasteur Inc. (086723285)

**Registrant** - Sanofi Pasteur Inc. (086723285)

**Establishment**

Name	Address	ID/FEI	Business Operations
Sanofi Pasteur Inc.		086723285	MANUFACTURE(49281-425, 49281-643) , PACK(49281-425, 49281-643) , LABEL(49281-425, 49281-643)

Revised: 7/2025

Sanofi Pasteur Inc.