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PRESCRIBING INFORMATION

3 **Influenza Virus Vaccine**
4 **FLUARIX[®]**
5 **2008-2009 Formula**

6 **DESCRIPTION**

7 FLUARIX[®], Influenza Virus Vaccine for intramuscular use, is a sterile suspension prepared
8 from influenza viruses propagated in embryonated chicken eggs. Each of the influenza viruses is
9 produced and purified separately. After harvesting the virus-containing fluids, each influenza
10 virus is concentrated and purified by zonal centrifugation using a linear sucrose density gradient
11 solution containing detergent to disrupt the viruses. Following dilution, the vaccine is further
12 purified by diafiltration. Each influenza virus solution is inactivated by the consecutive effects of
13 sodium deoxycholate and formaldehyde leading to the production of a “split virus.” Each split
14 inactivated virus is then suspended in sodium phosphate-buffered isotonic sodium chloride
15 solution. The vaccine is formulated from the 3 split inactivated virus solutions.

16 FLUARIX has been standardized according to USPHS requirements for the 2008-2009
17 influenza season and is formulated to contain 45 micrograms (mcg) hemagglutinin (HA) per
18 0.5 mL dose, in the recommended ratio of 15 mcg HA of each of the following 3 strains:
19 A/Brisbane/59/2007 (H1N1)-like virus (A/Brisbane/59/2007 IVR-148), A/Brisbane/10/2007
20 (H3N2)-like virus (A/Uruguay/716/2007 NYMC X-175C) and B/Florida/4/2006-like virus
21 (B/Brisbane/3/2007).

22 FLUARIX is formulated without preservatives. FLUARIX does not contain thimerosal. Each
23 0.5 mL dose also contains octoxynol-10 (TRITON[®] X-100) ≤0.120 mg, α-tocopheryl hydrogen
24 succinate ≤0.1 mg, and polysorbate 80 (Tween 80) ≤0.380 mg. Each dose may also contain
25 residual amounts of hydrocortisone ≤0.0016 mcg, gentamicin sulfate ≤0.15 mcg, ovalbumin
26 ≤1 mcg, formaldehyde ≤50 mcg, and sodium deoxycholate ≤50 mcg from the manufacturing
27 process.

28 FLUARIX is supplied as a 0.5 mL dose in a prefilled syringe. FLUARIX, after shaking well,
29 is colorless to slightly opalescent.

30 **CLINICAL PHARMACOLOGY**

31 Influenza illness and its complications follow infection with influenza viruses. Global
32 surveillance of influenza identifies yearly antigenic variants. For example, since 1977, antigenic
33 variants of influenza A (H1N1 and H3N2) viruses and influenza B viruses have been in global
34 circulation. Specific levels of hemagglutination-inhibition (HI) antibody titer post-vaccination
35 with inactivated influenza virus vaccines have not been correlated with protection from influenza
36 illness but the HI antibody titers have been used as a measure of vaccine activity. In some human
37 challenge studies, HI antibody titers of ≥1:40 have been associated with protection from
38 influenza illness in up to 50% of subjects.^{1,2} Antibody against one influenza virus type or subtype

39 confers little or no protection against another virus. Furthermore, antibody to one antigenic
40 variant of influenza virus might not protect against a new antigenic variant of the same type or
41 subtype. Frequent development of antigenic variants through antigenic drift is the virological
42 basis for seasonal epidemics and the reason for the usual incorporation of one or more new
43 strains in each year's influenza vaccine.³ Therefore, inactivated influenza vaccines are
44 standardized to contain the hemagglutinins of strains (i.e., typically 2 type A and 1 type B),
45 representing the influenza viruses likely to circulate in the United States in the upcoming winter.
46 **Immune Response to FLUARIX:** In a randomized, double-blind, placebo-controlled study
47 conducted in healthy subjects 18 to 64 years of age in the United States (Study
48 FLUARIX-US-001), the immune responses to each of the antigens contained in FLUARIX were
49 evaluated in sera obtained 21 days after administration of FLUARIX (n = 745) and were
50 compared to those following administration of a placebo vaccine (n = 190). For each of the
51 influenza antigens, the percentage of subjects who achieved seroconversion, defined as a 4-fold
52 increase in HI titer over baseline following vaccination, and the percentage of subjects who
53 achieved HI titers of $\geq 1:40$ are shown in Table 1. The lower limit of the 2-sided 95% CI for the
54 percentage of subjects who achieved seroconversion or an HI titer of $\geq 1:40$ exceeded the pre-
55 defined lower limits of 40% and 70%, respectively.

56 No controlled trials demonstrating a decrease in influenza disease after vaccination with
57 FLUARIX have been performed.

58

59 **Table 1. Rates With HI Titers $\geq 1:40$ and Rates of Seroconversion to Each Antigen**
60 **Following FLUARIX or Placebo (21 Days After Administration of a Dose) in Study**
61 **FLUARIX-US-001 (ATP cohort)**

	FLUARIX* N = 745 % (95% CI)		Placebo N = 190 % (95% CI)	
% With HI Titers $\geq 1:40$	Pre- vaccination	Post- vaccination	Pre- vaccination	Post- vaccination
A/New Caledonia/20/99 (H1N1)	54.8 (51.1-58.4)	96.6 (95.1-97.8)	52.1 (44.8-59.4)	51.1 (43.7-58.4)
A/Wyoming/3/2003 (H3N2)	68.7 (65.3-72)	99.1 (98.1-99.6)	65.3 (58-72)	65.3 (58-72)
B/Jiangsu/10/2003	49.5 (45.9-53.2)	98.8 (97.7-99.4)	48.9 (41.6-56.3)	51.1 (43.7-58.4)
Seroconversion[†]	Post-vaccination		Post-vaccination	
A/New Caledonia/20/99 (H1N1)	59.6 (56-63.1)		0 (0-1.9)	
A/Wyoming/3/2003 (H3N2)	61.9 (58.3-65.4)		1.1 (0.1-3.8)	
B/Jiangsu/10/2003	77.6 (74.4-80.5)		1.1 (0.1-3.8)	

62 HI = hemagglutination-inhibition.

63 ATP cohort for immunogenicity included subjects for whom assay results were available after
64 vaccination for at least one study vaccine antigen.

65 * Results obtained following vaccination with FLUARIX vaccine manufactured for the 2004–
66 2005 season.

67 † Seroconversion = at least a 4-fold rise in serum titers of HI antibodies to $\geq 1:40$.

68
69 **Immune Response in Geriatric Patients:** An open-label, randomized, multicenter study
70 conducted in Europe compared the immunogenicity of FLUARIX with 2 European-licensed
71 influenza vaccines in subjects >60 years of age (mean age 68). Additionally, 2 open-label studies
72 evaluated immune responses to FLUARIX among adults ≥ 18 years of age. Post-hoc analyses
73 combined results from these 3 studies in the subgroup of subjects ≥ 65 years of age (n = 246) who
74 received FLUARIX. In these analyses, the lower limits of the 2-sided 95% confidence intervals
75 of the percentages of subjects achieving an HI titer $\geq 1:40$ were greater than 70% and for subjects
76 achieving seroconversion were greater than 40%, for each antigen.

77 **INDICATIONS AND USAGE**

78 FLUARIX is indicated for active immunization of adults (18 years of age and older) against
79 influenza disease caused by influenza virus types A and B contained in the vaccine.

80 This indication is based on immune response elicited by FLUARIX, and there have been no
81 controlled trials demonstrating a decrease in influenza disease after vaccination with FLUARIX
82 (see CLINICAL PHARMACOLOGY).

83 The Advisory Committee on Immunization Practices (ACIP) has issued recommendations
84 regarding the use of the inactivated influenza virus vaccine.³

85 Annual vaccination with the current vaccine is necessary because immunity declines during
86 the year after vaccination. Vaccine prepared for a previous influenza season should not be
87 administered to provide protection for the current season.³

88 FLUARIX IS NOT INDICATED FOR USE IN CHILDREN.

89 **Concomitant Administration With Other Vaccines:** There are insufficient data to assess
90 the concurrent administration of FLUARIX with other vaccines.

91 **CONTRAINDICATIONS**

92 FLUARIX should not be administered to anyone with known systemic hypersensitivity
93 reactions to egg proteins (eggs or egg products), to chicken proteins, or to any component of
94 FLUARIX or who has had a life-threatening reaction to previous administration of any influenza
95 vaccine. (See DESCRIPTION and WARNINGS.)

96 **WARNINGS**

97 If Guillain-Barré syndrome has occurred within 6 weeks of receipt of prior influenza vaccine,
98 the decision to give FLUARIX or any influenza vaccine should be based on careful consideration
99 of the potential benefits and possible risks.³

100 As with other intramuscular injections, FLUARIX should not be given to individuals with
101 bleeding disorders such as hemophilia or thrombocytopenia, or to persons on anticoagulant
102 therapy unless the potential benefit clearly outweighs the risk of administration. If the decision is
103 made to administer FLUARIX to such persons, it should be given with caution with steps taken
104 to avoid the risk of hematoma following the injection.

105 Vaccination with FLUARIX may not protect 100% of susceptible individuals.

106 The tip cap and the rubber plunger of the needleless prefilled syringes contain dry natural
107 latex rubber that may cause allergic reactions in latex sensitive individuals.

108 The ACIP has published guidelines for vaccination of persons with recent or acute illness
109 (www.cdc.gov/nip).³

110 **PRECAUTIONS**

111 **General:** Do not administer by intravascular injection.

112 Prior to immunization of FLUARIX, the patient's current health status and medical history
113 should be reviewed. The physician should review the patient's immunization history for possible
114 vaccine sensitivity, previous vaccination-related adverse reactions and occurrence of any adverse
115 event-related symptoms and/or signs, in order to determine the existence of any contraindication
116 to immunization with FLUARIX and to allow an assessment of benefits and risks. Appropriate
117 medical treatment and supervision should be readily available for immediate use in case of a rare
118 anaphylactic reaction following the administration of the vaccine. Epinephrine injection
119 (1:1,000) and other appropriate agents used for the control of immediate allergic reactions must
120 be immediately available.

121 A separate, sterile syringe and needle or a sterile disposable unit should be used for each
122 patient to prevent transmission of other infectious agents from person to person. Needles should
123 be disposed of properly and should not be recapped.

124 Influenza virus is remarkable in that minor antigenic changes occur frequently (antigenic
125 drift), whereas a significant antigenic change leading to a pandemic strain (antigenic shift) is
126 unpredictable. *FLUARIX is not effective against all possible strains of influenza virus. Protection*
127 *is limited to those strains of virus from which the vaccine is prepared and to closely related*
128 *strains.*

129 As with any vaccine, if administered to immunosuppressed persons, including individuals
130 receiving immunosuppressive therapy, the expected immune response may not be obtained.

131 **Information for Vaccine Recipients and Guardians:** Vaccine recipients and guardians
132 should be informed by their healthcare provider of the potential benefits and risks of
133 immunization with FLUARIX. When educating vaccine recipients and guardians regarding
134 potential side effects, clinicians should emphasize that: (1) FLUARIX contains non-infectious
135 killed viruses and cannot cause influenza and (2) coincidental respiratory disease unrelated to
136 influenza vaccine can occur after vaccination.³

137 Vaccine recipients and guardians should be instructed to report any severe or unusual adverse
138 reactions to their healthcare provider.

139 The vaccine recipients or guardian should be given the Vaccine Information Statements,
140 which are required by the National Childhood Vaccine Injury Act of 1986 to be given prior to
141 immunization. These materials are available free of charge at the CDC website
142 (www.cdc.gov/nip).

143 **Drug Interactions:** Although it has been reported that influenza vaccination may inhibit the
144 clearance of warfarin, theophylline, and phenytoin, controlled studies have yielded inconsistent
145 results regarding pharmacokinetic interactions between influenza vaccine and these
146 medications.⁴⁻⁹ Nevertheless, clinicians should consider the potential for an interaction when
147 influenza vaccine is administered to persons receiving these drugs.

148 Immunosuppressive therapies, including irradiation, antimetabolites, alkylating agents,
149 cytotoxic drugs, and corticosteroids (used in greater than physiologic doses), may reduce the
150 immune response to vaccines.

151 FLUARIX should not be mixed with any other vaccine in the same syringe or vial.

152 **Carcinogenesis, Mutagenesis, Impairment of Fertility:** FLUARIX has not been
153 evaluated for carcinogenic or mutagenic potential, or for impairment of fertility.

154 **Pregnancy:** Pregnancy Category C. Animal reproduction studies have not been conducted with
155 FLUARIX. It is not known whether FLUARIX can cause fetal harm when administered to a
156 pregnant woman or can affect reproduction capacity. FLUARIX should be given to a pregnant
157 woman only if clearly needed. The ACIP has issued recommendations regarding the use of the
158 influenza virus vaccine in pregnant women.³

159 **Nursing Mothers:** It is not known whether FLUARIX is excreted in human milk. Because
160 many drugs are excreted in human milk, caution should be exercised when FLUARIX is

161 administered to a nursing woman. The ACIP has issued recommendations regarding the use of
162 the influenza virus vaccine in nursing mothers.³

163 **Pediatric Use:** FLUARIX IS NOT INDICATED FOR USE IN CHILDREN.

164 **Geriatric Use:** FLUARIX was administered to 246 subjects ≥65 years of age in 3 European
165 studies (see CLINICAL PHARMACOLOGY). Solicited adverse events were similar in type and
166 frequency to those reported in younger subjects (see ADVERSE REACTIONS).

167 **ADVERSE REACTIONS**

168 FLUARIX has been administered to 1,271 adults in clinical trials. Study FLUARIX-US-001
169 was a randomized, double-blinded, placebo-controlled study that evaluated a total of 952
170 subjects: FLUARIX n = 760, placebo n = 192. The population was 18 to 64 years of age (mean
171 39.1), 54% were female and 80% were Caucasian. Solicited adverse events were collected for
172 4 days (day of vaccination and the next 3 days). Unsolicited events that occurred within 21 days
173 of vaccination (day 0-20) were recorded using diary cards supplemented by spontaneous reports
174 and a medical history as reported by subjects.

175 Most events reported were considered by the subjects as mild and self-limiting. Table 2
176 provides the incidence of solicited adverse events for the FLUARIX and placebo groups from
177 Study FLUARIX-US-001.

178 The adverse event information from clinical trials provides a basis for identifying adverse
179 events that appear to be related to vaccine use and for approximating rates. However, because
180 clinical trials are conducted under widely varying conditions, adverse event rates observed in the
181 clinical trials of a vaccine cannot be directly compared to rates in the clinical trials of another
182 vaccine, and may not reflect the rates observed in practice.

183

184 **Table 2. Percentage of Subjects With Solicited Local or Systemic Adverse Events Within**
 185 **4 Days* of Vaccination From Study FLUARIX-US-001 (Total Vaccinated Cohort)**

Adverse Event	FLUARIX (n = 760) % (95% CI)	Placebo (n = 192) % (95% CI)
Local		
Pain	54.7 (51.1-58.3)	12.0 (7.7-17.4)
Redness	17.5 (14.9-20.4)	10.4 (6.5-15.6)
Swelling	9.3 (7.4-11.6)	5.7 (2.9-10.0)
Systemic		
Muscle aches	23.0 (20.1-26.2)	12.0 (7.7-17.4)
Fatigue	19.7 (17.0-22.7)	17.7 (12.6-23.9)
Headache	19.3 (16.6-22.3)	21.4 (15.8-27.8)
Arthralgia	6.4 (4.8-8.4)	6.3 (3.3-10.7)
Shivering	3.3 (2.1-4.8)	2.6 (0.9-6.0)
Fever ($\geq 100.4^{\circ}\text{F}$)	1.7 (0.9-2.9)	1.6 (0.3-4.5)

186 Total Vaccinated Cohort for safety included all vaccinated subjects for whom safety data were
 187 available.

188 * 4 days included day of vaccination and the subsequent 3 days.

189
 190 Solicited and unsolicited adverse events following administration of FLUARIX were
 191 collected in 3 additional studies. One randomized study enrolled adults >60 years of age. Two
 192 studies enrolled adults ≥ 18 years of age. From these 3 studies, a post-hoc analysis of solicited
 193 adverse events observed in the subsets of subjects ≥ 65 years of age (n = 245), pain was observed
 194 in 12.2%, redness in 15.9%, swelling in 16.7%, muscle aches in 10.2%, fatigue in 12.2%,
 195 headache in 14.3%, arthralgias in 11.0%, shivering in 6.9%, and fever in 0.4% of subjects.

196 Unsolicited adverse events from Study FLUARIX-US-001 that occurred in $\geq 1\%$ of recipients
 197 of FLUARIX and at a rate greater than placebo included upper respiratory tract infection (3.9%
 198 vs. 2.6%), nasopharyngitis (2.5% vs. 1.6%), nasal congestion (2.2% vs. 2.1%), diarrhea (1.6%
 199 vs. 0%), influenza-like illness (1.6% vs. 0.5%), vomiting (1.4% vs. 0%), and dysmenorrhea
 200 (1.3% vs. 1.0%). One death due to atherosclerotic cardiovascular disease occurred 17 days after
 201 administration of FLUARIX.

202 **Incidence of Adverse Events of 1% to 10% in Non-US Clinical Trials With**
 203 **FLUARIX:** The following additional adverse events have been observed in non-US clinical trials
 204 with FLUARIX.

205 *General Disorders and Administrative Site Conditions:* Malaise.

206 *Local Reactions at Injection Site:* Ecchymosis, induration.

207 *Skin and Subcutaneous Tissue Disorders:* Sweating.

208 Two deaths were reported in non-US trials with FLUARIX: One death due to acute
209 pancreatitis occurred 10 months after administration of FLUARIX and one death due to
210 abdominal neoplasm occurred 9 months after administration of FLUARIX.

211 As with any vaccine, there is the possibility that broad use of FLUARIX could reveal adverse
212 events not observed in clinical trials.

213 **Postmarketing Reports:** Worldwide voluntary reports of adverse events received for
214 FLUARIX since market introduction of this vaccine are listed below. This list includes serious
215 events or events which have causal connection to components of this or other vaccines or drugs.
216 Because these events are reported voluntarily from a population of uncertain size, it is not always
217 possible to reliably estimate their frequency or establish a causal relationship to vaccine
218 exposure.

219 *Blood and Lymphatic System Disorders:* Autoimmune hemolytic anemia, lymphadenopathy,
220 thrombocytopenia.

221 *Cardiac Disorders:* Tachycardia.

222 *Ear and Labyrinth Disorders:* Vertigo.

223 *Eye Disorders:* Conjunctivitis, eye irritation, eye pain, eye redness, eye swelling, eyelid
224 swelling.

225 *Gastrointestinal Disorders:* Abdominal pain or discomfort, nausea, swelling of the mouth,
226 throat, and/or tongue.

227 *General Disorders and Administrative Site Conditions:* Asthenia, chest pain, chills, feeling
228 hot, injection site mass, injection site reaction, injection site warmth, pain.

229 *Immune System Disorders:* Anaphylactic reaction including shock, anaphylactoid reaction,
230 hypersensitivity, serum sickness.

231 *Infections and Infestations:* Injection site abscess, injection site cellulitis, pharyngitis, rhinitis,
232 tonsillitis.

233 *Musculoskeletal and Connective Tissue Disorders:* Pain in extremity.

234 *Nervous System Disorders:* Convulsion, dizziness, encephalomyelitis, facial palsy, facial
235 paresis, Guillain-Barré syndrome, hypoesthesia, myelitis, neuritis, neuropathy, paresthesia.

236 *Respiratory, Thoracic and Mediastinal Disorders:* Asthma, bronchospasm, cough, dyspnea,
237 pneumonia, respiratory distress, stridor.

238 *Skin and Subcutaneous Tissue Disorders:* Angioneurotic edema, erythema, erythema
239 multiforme, facial swelling, pruritus, rash, Stevens-Johnson syndrome, urticaria.

240 *Vascular disorders:* Henoch-Schönlein purpura, vasculitis.

241 **Other Adverse Events:** Immediate, presumably allergic, reactions (e.g., hives, angioedema,
242 allergic asthma, and systemic anaphylaxis) rarely occur after influenza vaccination. Two subjects
243 experienced urticaria in clinical trials of FLUARIX. These reactions probably result from
244 hypersensitivity to certain vaccine components, such as residual egg protein. Although
245 FLUARIX contains only a limited quantity of egg protein, this protein can induce immediate
246 hypersensitivity reactions among persons who have severe egg allergy (see
247 CONTRAINDICATIONS).³

248 The 1976 swine influenza vaccine was associated with an increased frequency of Guillain-
249 Barré syndrome (GBS).^{3,10} Evidence for a causal relation of GBS with subsequent vaccines
250 prepared from other influenza viruses is unclear.³ If influenza vaccine does pose a risk, it is
251 probably slightly more than 1 additional case/1 million persons vaccinated.³

252 Neurological disorders temporally associated with influenza vaccination such as
253 encephalopathy, optic neuritis/neuropathy, partial facial paralysis, and brachial plexus
254 neuropathy have been reported.^{11,12}

255 Microscopic polyangiitis (vasculitis) has been reported temporally associated with influenza
256 vaccination.¹³

257 **Reporting of Adverse Events:** The US Department of Health and Human Services has
258 established a Vaccine Adverse Event Reporting System (VAERS) to accept all reports of
259 suspected adverse events after the administration of any vaccine, including but not limited to the
260 reporting of events required by the National Childhood Vaccine Injury Act of 1986.¹⁴ The
261 VAERS toll-free number is 1-800-822-7967. Reporting forms may also be obtained at the
262 VAERS website at www.vaers.hhs.gov.

263 **DOSAGE AND ADMINISTRATION**

264 Parenteral drug products should be inspected visually for particulate matter and/or
265 discoloration prior to administration whenever solution and container permit. If either of these
266 conditions exist, the vaccine should not be administered.

267 **The prefilled syringe should be shaken well before administration.**

268 **Do NOT inject intravenously.**

269 The dose of FLUARIX is a single 0.5 mL injection in adults. Injections of FLUARIX should
270 be administered intramuscularly, preferably in the region of the deltoid muscle. The vaccine
271 should not be injected in the gluteal area or areas where there may be a major nerve trunk. A
272 needle length of ≥ 1 inch is preferred because needles < 1 inch might be of insufficient length to
273 penetrate muscle tissue in certain adults. Before injection, the skin over the site to be injected
274 should be cleansed with a suitable germicide. After insertion of the needle, aspirate to ensure that
275 the needle has not entered a blood vessel.

276 **STORAGE**

277 Store FLUARIX refrigerated between 2° and 8°C (36° and 46°F). Do not freeze. Discard if the
278 vaccine has been frozen. Store in the original package to protect from light.

279 **HOW SUPPLIED**

280 FLUARIX is supplied as a colorless to slightly opalescent suspension in prefilled syringes
281 containing a 0.5-mL single dose.

282 Single-Dose Prefilled Disposable TIP-LOK[®] Syringes (packaged without needles)
283 NDC 58160-876-46 (package of 5)

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313



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