ACOG: Use HPV Vaccines for Girls 11-12 Years

BY MARY ELLEN SCHNEIDER

FROM OBSTETRICS & GYNECOLOGY

he American College of Obstetricians and Gynecologists has endorsed federal recommendations to routinely vaccinate girls 11-12 years old against the human papillomavirus using either the quadrivalent or bivalent vaccines.

Echoing the advice of the Centers for

Brief Summary: Consult package insert for complete Prescribing Information.

WARNINGS AND PRECAUTIONS: Hypocalcemia and Mineral Metabolism. Hypocalcemia may be exacerbated by the use of Prolia. Pre-existing hypocalcemia must be corrected prior to initiating therapy with Prolia, in patients predisposed to hypocalcemia and disturbances of mineral metabolism (e.g., history of hypoparathyroidism, thyroid surgery, parathyroid surgery, malabsorption syndromes, excision of small intestine, severe renal impairment [creatinine clearance < 30 mL/min] or receiving dialysis], clinical monitoring of calcium and mineral levels [phosphorus and magnesium] is highly recommended. Hypocalcemia following Prolia administration is a significant risk in patients with severe renal impairment (creatinine clearance < 30 mL/min] or receiving dialysis. Instruct all patients with severe renal impairment, including those receiving dialysis, about the symptoms of hypocalcemia and the importance of maintaining calcium levels with adquate calcium and vitamin D supplementation. Adequately supplement all patients with calcium and vitamin D (see Dosage and Administration, Contraindications, Adverse Reactions, and Patient Counseling Information [17.1] in Full Prescribing Information].

CARDIAC DISORDERS

ma peripheral

EAR AND LABYRINTH DISORDERS

GASTROINTESTINAL DISORDERS Abdominal pain upper Flatulence Gastroesophageal reflux disease

GENERAL DISORDERS AND ADMINISTRATION SITE CONDITIONS

INFECTIONS AND INFESTATIONS

Jpper respiratory tract infection

MUSCULOSKELETAL AND CONNECTIVE TISSUE DISORDERS

Back pain Pain in extremity Musculoskeletal pain

Bone pain Myalgia Spinal osteoarthritis

opportunistic infections.

Serious Infections. In a clinical trial of over 7800 women with postmenopa Seriaus Infections. In a clinical trial of over 7800 women with postmenopausal osteoporosis, serious infections leading to hospitalization were reported more frequently in the Prolia group than in the placebo group *Isee Adverse Reactionsj.* Serious skin infections, as well as infections of the abdomen, urinary tract, and ear, were more frequent in patients treated with Prolia. Endocarditis was also reported more frequently in Prolia-treated subjects. The incidence of opportunistic infections was balanced between placebo and Prolia groups, and the overall incidence of infections was similar between the treatment groups. Advise patients to seek prompt medical attention if they develop signs or symptoms of severe infection, including cellulitis. Patients on concomitant immunosuppressant agents or with impaired immune systems may be at increased risk for serious infections. Consider the benefit-risk profile in such patients before treating with Prolia. In patients who develop serious infections while on Prolia, prescribers should assess the need for continued Prolia therapy. METABOLISM AND NUTRITION DISORDERS Hypercholesterolemia with Prolia. In patients who develop serious infections while or prescribers should assess the need for continued Prolia therapy.

Myalgia Dermatologic Adverse Reactions. In a large clinical trial of over 7800 women with postmenopausal osteoporosis, epidermal and dermal adverse events such as dermatitis, eczema, and rashes occurred at a significantly higher rate in the Prolia group compared to the placebo group. Most of these events were not specific to the injection site *Isee Adverse Reactions*. Consider discontinuing Prolia if severe symptoms develop. Myalgia Myalgia Myalgia Nervous system DISORDERS Spinal osteoarthritis Nervous system DISORDERS PSYCHIATRIC DISORDERS Insomnia

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considered based on individual benefit-risk assessment.
 Suppression of Boe Turnover. In clinical trials in women with postmenopausa asteoporosis, treatment with Prolia resulted in significant suppression of bone turnover and bing as evidenced by markers of bone turnover and bing as evidenced by markers of bone turnover and bing as evidenced by markers of the significant suppression of bone turnover and bing as evidenced by markers of the significant suppression of bone turnover and bing and the effect on the significant suppression of bone turnover and bing and the effect on the significant suppression of bone turnover and bing and the effect on the significant suppression of bone turnover and bing and the effect on the significant suppression of bone turnover and bing and the effect on the significant suppression of bone termodeling observed with Prolia are unknown. The long-term treatment groups. However, the incidence of infections was 3.3% in the placebo group and 4.0% in the significant suppression of bone tremodeling observer on the pace on sequences.
 ADVERSE REACTIONS: The following serious adverse reactions and Precautions]
 Hypocalcemia (see Warnings and Precautions]
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 Serious Infections (see Warnings and Precautions]
 Dermatolougi Adverse Parenting for derational sections with severe real maximement or the pharmacokinetics of Prolia.
 Hypocalcemia (see Warnings and Precautions]
 Dermatolougi Adverse Parenting See Warnings and Precautions]
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discussed below and also elsewhere in the labeling: • Hypocalcemia [see Warnings and Precautions] • Serious Infections [see Warnings and Precautions] • Dermatologic Adverse Reactions [see Warnings and Precautions]

Definition of the additional program is available to collect information from prescribers on specific adverse events. Please see www.proglasalete.
 Other additional program.
 The most common adverse reactions reported with Prola are back pain, nextremity, musculoskeletal pain, hypercholesterolemia, and cystitis.
 The most common adverse reactions leading to discontinuation of Prola are back pain, and cashing the most common adverse reactions. A significantly higher number of patients treated with Prola developed epidermal and dermal adverse events (such as dermattis, nevers, and rashes), with these events reported in 8.2% of placebo and 10.8% of prola developed agroup [p < 0.0001]. Nost of these events were not specific to the injection or call 1-800-772-6436 for more information about this program.

Disease Control and Prevention's Advisory Committee on Immunization Practices, ACOG officials said the vaccine can be given to girls as young as 9 years old and that catch-up vaccination should be offered through age 26 years (Obstet. Gynecol. 2010;116:800-3).

Although ob.gyns. are unlikely to care for girls in the initial vaccination group, ACOG said that ob.gyns. should offer the vaccine to girls in the catch-up group and

101 (2.6) 79 (2.0)

195 (5.0)

129 (3.3) 84 (2.2) 80 (2.1)

189 (4.9) 90 (2.3)

228 (5.9) 190 (4.9) 152 (3.9) 91 (2.3) 79 (2.0)

280 (7.2)

1347 (34.7) 453 (11.7) 297 (7.6) 142 (3.7)

178 (4.6)

routinely document human papillomavirus (HPV) vaccine status in the patient's record.

Two HPV vaccines are currently licensed by the Food and Drug Administration for sale in the United States. Merck's Gardasil, which is offered as a three-dose course, is a quadrivalent vaccine that provides protection against cervical cancer, cervical dysplasias, vulvar and vaginal dysplasias, and genital

Clinical Trials Experience. Because clinical studies are conducted under videy varying conditions, adverse reaction rates observed in the clinical studies of a drug cannot be directly compared to rates in the clinical studies of a drug and may not reflect the rates observed in clinical practice. The time from product administration to event occurrence was variable.

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87 [2.2] 77 [2.0] USE IN SPECIFIC POPULATIONS:

87 [2.2]
USE IN SPECIFIC POPULATIONS:
Pregnancy. Pregnancy Category C. There are no adequate and well-187 (4.8)
controlled studies of Prolia in pregnant women. In genetically engineered mice in which RANK ligand IRANKL) was turned off by gene removal 111 (2.9)
(a) "knockout mouse"), absence of RANKL (the target of denosumabl 33 (1.4)
caused fetal lymph node agenesis and led to postnatal impairment of dentition and bone growth. Pregnant RANKL knockout mice also 66 (1.7)
showed altered maturation of the maternal mammary gland, leading to impaired lactation postpartum (see Use in Nursing Mothers). Prolia is approved only for use in postmenopausal women. Prolia treatment are encouraged to enroll. In Amgen's Pregnancy Surveillance Program.
225 [5.8) Patients or their physicians should become pregnant during Prolia treatment are encouraged to enroll. In Amgen's Pregnancy Surveillance Program.
225 [5.8) Patients or their physicians should call -800-77.4AGEN (1-800-772-6430)
157 (4.3) to enroll. In an embryofetal developmental study, cynomolgus monkeys 158 (2.9) doses up to 13-fold higher than the recommended human dose of 60 mg 72 (1.9)
administered once every 6 months based on body weight [mg/kg]. No evidence of maternal toxicity or fetal harm was observed. However, this study only assessed fetal toxicity during apriod equivalent to the first study only assessed the lation and fetal harm was observed. However, the study only assessed the lation in linear fashion as pregnancy progresses, with the largest amount transferred during the third trimester. Potential adverse developmental effects resulting from exposures during progresses, with the largest amount transferred during the third trimester. Potential adverse developmental effects resculting from exposures during progresses, with the largest amount transferred during the third trimester. Potential adverse developmental effects resculting from exposures during progre

291 (7.5) [See Non-Limital Non-Codey (15.2) in Nutrine Sections (intermediation).
 117 (3.0) Nursing Mothers. It is not known whether Prolia is excreted into human 94 (2.4) milk. Because many drugs are excreted in human milk and because of 64 (17.7) the potential for serious adverse reactions in nursing infants from Prolia, a decision should be made whether to discontinue nursing or discontinue 49 (3.8) the drug, taking into account the importance of the drug to the mother. Maternal exposure to Prolia during pregnancy may impair mammary gland 122 (3.1) the RANK/RANKL signaling pathway that have shown altered maturation of the maternal mammary gland, leading to impaired lactation postpartum 79 (2.0)

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warts associated with HPV genotypes 6, 11, 16, and 18.

Last year, the FDA approved the bivalent HPV vaccine Cervarix. This new vaccine, marketed by GlaxoSmithKline, is also offered as a three-dose course and is thought to provide protection similar to that of Gardasil for infections caused by the HPV genotypes 16 and 18. About 70% of all cervical cancer cases are associated with HPV genotypes 16 and 18, and about 90% of genital warts are associated with the HPV genotypes 6 and 11, according to the CDC.

In the policy statement issued by ACOG's Committee on Adolescent Health Care, the organization urged girls to get vaccinated before they are sexually active.

"The ideal time for girls to receive the HPV vaccination is before they become sexually active and become exposed to HPV," Dr. Diane F. Merritt, chair of the

ACOG does not recommend that girls and women be tested for HPV before they are vaccinated. Serologic assays to test for HPV DNA are unreliable and aren't currently commercially available.

committee, said in a statement.

"For those already sexually active, we also recommend the HPV vaccination for adolescents and young women up to age 26," she said.

Dr. Merritt said physicians should counsel patients that the HPV vaccine may be less effective if they have already been exposed to the virus.

ACOG does not recommend that girls and women be tested for HPV before they are vaccinated. Serologic assays to test for HPV DNA are unreliable and aren't currently commercially available, according to the organization.

"More importantly, it's unlikely that someone would have been exposed to all of the HPV strains that the vaccines protect against, so testing is somewhat pointless," according to the obstetrician gynecologist.

But women should have routine cervical cytology screening, according to ACOG. The organization said cervical cancer screening is needed in all women aged 21 years and older, even if they received the HPV vaccine before becoming sexually active.

HPV vaccination is not recommended during pregnancy, but physicians do not need to routinely perform pregnancy testing before giving the vaccine, according to ACOG. Instead, ACOG officials advised physicians to remind their patients to use contraception while they are receiving the vaccine series.

If a woman becomes pregnant while receiving the vaccine, the series should be delayed until the end of the pregnancy. The vaccine is safe for breastfeeding women, ACOG said, because the virus it contains is inactive.