Primary Care Groups Offer ACO Principles

BY ALICIA AULT

he four biggest primary care physician organizations issued a joint document last month that contained what they believe are important principles to guide the development of accountable care organizations.

The 21 principles were developed and issued by the American Academy of Family Physicians, American Academy of

Pediatrics, the American College of Physicians, and the American Osteopathic Association. According to the groups, the principles were submitted to the Centers for Medicare and Medicaid Services for consideration as guiding principles for ACO demonstration pro-

The organizations also are hoping to see the guidelines adopted more widely. "The AAP urges adoption of these principles by governments, payers, providers and all others who are involved in the health, well-being and success of America's children and their families," Dr. O. Marion Burton, president of the AAP, said in a statement.

ACOs are being considered as the underpinning of health reform, changing how health care is delivered and financed. The Affordable Care Act calls for Medicare beneficiaries to be assigned to

ACOs, which has spurred some debate.

The CMS is charged with developing regulations on how ACOs will be structured and how Medicare and Medicaid will pay providers that participate. The agency, along with the Federal Trade Commission and the Office of Inspector General of the Department of Health and Human Services, held a public meeting on ACOs on Oct. 5 to gather input.

And in mid-November, the CMS issued a request for information on ACOs. All comments were due by Dec. 3. The agency is expected to issue regulations later, perhaps by early 2011.

The agency has been looking at a risksharing payment methodology that would reward providers for improved quality and lower costs.

The Joint Principles for Accountable Care Organizations issued by the primary care groups outlines a number of principles that should guide that payment system. Incentives should "adequately reflect the relative contributions of participating physicians," and practices that participate in ACOs and achieve recognition as medical homes "should receive additional financial incentives," according to the Joint Principles.

The Medicare Payment Advisory Commission has backed the ACO concept and the notion of shared savings as a means for eliminating inefficiencies.

In comments submitted to the CMS on Nov. 22, MedPAC Chairman Glenn Hackbarth wrote, "If structured carefully, a shared savings program for ACOs could present an opportunity to correct some of the undesirable incentives inherent in fee-for-service payment and reward providers who are doing their part to control costs and improve quality.

Shared savings also could "help beneficiaries receive more coordinated care and become more engaged with their care management, particularly if beneficiaries are informed when they are assigned to ACOs," Mr. Hackbarth wrote.

Dr. Roland Goertz, president of the AAFP, agreed that ACOs will be crucial to shifting the delivery and payment system.

"If implemented correctly, ACOs may help improve quality and efficiency of care and reduce costs while strengthening the patient-physician relationship in the context of a patient-centered medical home," he said.

The American Medical Association (AMA) also has established guiding principles for ACOs. Members approved the 13 principles at its interim House of Delegates meeting in November.

The AMA is concerned that existing antitrust and fraud rules can make it difficult for physicians to participate in ACOs. The organization called for increased flexibility in those laws, and for the FTC to provide explicit exceptions to antitrust laws for ACO participants.

ACO savings should be retained for patient care services and distributed to ACO participants, and the organizations should also be allowed to use a variety of payment models, according to the AMA principles.

Brief Summary: Consult package insert for complete Prescribing Information.

orolia (denosumable)

CONTRAINDICATIONS: Hypocalcemia. Pre-existing hypocalcemia must corrected prior to initiating therapy with Prolia (see Warnings and Precautio.

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, thyprid 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 adequate 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. WARNINGS AND PRECAUTIONS: Hypocalcemia and Mineral Metabolism

Serious Infections. In a clinical trial of over 7800 women with postmenopausal osteoprosis, serious infections leading to hospitalization were reported more frequently in the Prolia group than in the placebo group /see Adverse Reactions/. 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,

Dermatologic Adverse Reactions. In a large clinical trial of over 7800 Dermatologic Adverse Reactions. In a large clinical trial of over 70% 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 (see Adverse Reactions). Consider discontinuing Prolia if severe symptoms develop.

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Suppression of Bone Turnover. In clinical trials in women with postmenopausals.

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Serious Infections.

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- Dermatologic Adverse Reactions [see Warnings and Precautions]
 Osteonecrosis of the Jaw [see Warnings and Precautions]

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Dematologic Reactions. A significantly higher number of patients treated with Prolia developed epidermal and dermal adverse events [such as dermatitis, pain in extremity, musculoskeletal pain, hypercholesterolemia, and cystitis. eczema, and rashes], with these events reported in 8.2% of placebo and 10.8% The most common adverse reactions leading to discontinuation of Prolia of Prolia group [s Colin group [s Colin group [s Colin group [s Colin group group]]]. Most of these events were not specific to the injection are breast cancer, back pain, and constipation. The Prolia Postmarketing Active Safety Surveillance Program is available to collect information from prescribers on specific adverse events. Please see www.proliasafety.com or call 1-800-772-6436 for more information about this program.

Osteonecrosis of the Jaw. ONJ has been reported in the osteoporosis clinical trial program in patients treated with Prolia [see Warnings and Precautions].

NDICATIONS AND USAGE:

Treatment of Postmenopausal Women with Osteoporosis at High Risk for Fracture. Prolia is indicated for the treatment of postmenopausal women with osteoporosis at high risk for fracture, defined as a history of osteoporotic fracture, or multiple risk factors for fracture; or patients who have failed or are intolerant to other available osteoporosis therapy. In postmenopausal women with osteoporosis, Prolia risk factors for fracture; or patients who have failed or are intolerant to other available osteoporosis therapy. In postmenopausal women mytho osteoporosis, Prolia reduces the inclinence of vertebral, nonvertebral, and hip fractures (see Clinical Studies [14.1] in Full Prescribing Information).

DOSAGE AND ADMINISTRATION: Recommended Dosage. Prolia should be administered by a healthcare professional. The recommended dose 2d. Prolia is 60 mg administered as a single subcutaneous injection once every 6 months. Administer Prolia via subcutaneous injection once every 6 months. Administer Prolia via subcutaneous injection once every 6 months. Administer Prolia via subcutaneous injection once every 6 months. Administer Prolia via subcutaneous injection once every 6 months. Administer Prolia via subcutaneous injection once of patients who withdrew from the study due to adverse events was 2.1% every 6 months. Administer Prolia via subcutaneous injection in the upper thigh, or the abdomen. All patients should receive reported in ≥ 2% of postmenopausal women and 2.4% for the placebo and Prolia proups, respectively. Adverse reactions requestly in the Prolia-treated women with osteoporosis and more frequently in the Prolia-treated women than in the placebo-treated women are listed in the table below.

If a dose of Prolia is missed, administer the injection as soon as the patient.

Table 1. Adverse Reactions Occurring in ≥ 2% of Patients with Osteoporosis

and More Frequently than in Placebo-treat	ed Patients	
SYSTEM ORGAN CLASS Preferred Term	Prolia (N = 3886) n (%)	Placebo (N = 3876) n (%)
BLOOD AND LYMPHATIC SYSTEM DISORDERS		
Anemia	129 (3.3)	107 (2.8)
CARDIAC DISORDERS		()
Angina pectoris Atrial fibrillation	101 (2.6) 79 (2.0)	87 (2.2) 77 (2.0)
EAR AND LABYRINTH DISORDERS Vertigo	195 (5.0)	187 (4.8)
GASTROINTESTINAL DISORDERS		
Abdominal pain upper Flatulence	129 (3.3) 84 (2.2)	111 (2.9) 53 (1.4)
Gastroesophageal reflux disease	80 (2.1)	66 (1.7)
GENERAL DISORDERS AND		
ADMINISTRATION SITE CONDITIONS Edema peripheral	189 [4.9]	155 (4.0)
Asthenia	90 (2.3)	73 (1.9)
INFECTIONS AND INFESTATIONS		
Cystitis Upper respiratory tract infection	228 (5.9) 190 (4.9)	225 (5.8) 167 (4.3)
Pneumonia	152 (3.9)	150 [3.9]
Pharyngitis	91 (2.3)	78 (2.0)
Herpes zoster	79 (2.0)	72 (1.9)
METABOLISM AND NUTRITION DISORDERS		
Hypercholesterolemia	280 (7.2)	236 [6.1]
MUSCULOSKELETAL AND		
CONNECTIVE TISSUE DISORDERS Back pain	1347 [34.7]	1340 (34.6)
Pain in extremity	453 [11.7]	430 (11.1)
Musculoskeletal pain	297 (7.6)	291 (7.5)
Bone pain	142 (3.7)	117 (3.0)
Myalgia Spinal osteoarthritis	114 (2.9) 82 (2.1)	94 (2.4) 64 (1.7)
	02 [2.1]	04 (1.7)
NERVOUS SYSTEM DISORDERS Sciatica	178 (4.6)	149 (3.8)
PSYCHIATRIC DISORDERS	126 (3.2)	122 (3.1)
SKIN AND SUBCUTANEOUS	123 (0.2)	122 (0.1)
TISSUE DISORDERS	0/ (0.5)	70 (0.0)
Rash Pruritus	96 (2.5) 87 (2.2)	79 (2.0) 82 (2.1)

Suppression of Bone Turnover. In clinical trials in women with postmenopausal osteoporosis, treatment with Prolia resulted in significant suppression of bone remodeling as evidenced by markers of bone turnover and bone histomorphometry (see Clinical Pharmacology/1122) and Clinical Studies [14.1] in hone the Full Prescribing Information). The significance of these findings and the effect of long-term treatment with Prolia are unknown. The long-term consequences of the degree of suppression of bone remodeling observed with Prolia may contribute to adverse outcomes such as osteonecrosis of the jaw, atypical fracture, and delayed fracture healing. Monitor patients for these consequences.

ADVERSE REACTIONS: The following serious adverse reactions are discussed below and also elsewhere in the labeling:

- Serious Infections is each and a suppression of bone provided in the proportion of the provided in the provided in the provided in the provided provided in the p

Clinical Trials Experience. Because clinical studies are conducted under Pancreatitis. Pancreatitis was reported in 4 patients (0.1%) in the placebounded yvarying conditions, adverse reaction rates observed in the clinical and 8 patients (0.2%) in the Prolia groups. Of these reports, one subject in studies of a drug cannot be directly compared to rates in the clinical studies the placebo group and all 8 subjects in the Prolia group has serious events of another drug and may not reflect the rates observed in clinical practice.

Transport of pancreatitis. The time from product administration to event occurrence were received.

Immunogenicity. Denosumab is a human monoclonal antibody. As with all therapeutic proteins, there is potential for immunogenicity. Using an electrochemilluminescent bridging immunoassay, less than 1% [55 out of 8113] of patients treated with Prolia for up to 5 years tested positive for binding antibodies (including pre-existing, transient, and developing antibodies). None of the patients tested positive for neutralizing antibodies, as was assessed using a chemilluminescent cell-based in vitro biological assay. No evidence of altered pharmacokinetic profile, toxicity profile, or clinical response was associated with binding antibody development. The incidence of antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of a positive antibody lincluding neutralizing antibody lest result may be influenced by several factors, including assay methodology, sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, comparison of antibodies to denosumab with the incidence these reasons, comparison of antibodies to denosumab with the incidence of antibodies to other products may be misleading.

DRUG INTERACTIONS: No drug-drug interaction studies have been conducted

USE IN SPECIFIC POPULATIONS:

Pregnancy. Pregnancy Category C. There are no adequate and well-controlled studies of Prolia in pregnant women. In genetically engineered mice in which RANK ligand RANKL] was turned off by gene removal [a "knockout mouse"], absence of RANKL [the target of denosumabl caused fetal lymph node agenesis and led to postnatal impairment of dentition and bone growth. Pregnant RANKL knockout mice also 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 should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. Women who become pregnant during Prolia treatment are encouraged to enroll in Amgens Pregnant during Prolia treatment are encouraged to enroll. In Amgens Pregnant during Prolia treatment are encouraged to enroll. In Amgens Pregnant during roganogenesis at doses up to 13-fold higher than the recommended human dose of 60 mg 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 a period equivalent to the first trimester and fetal lymph nodes were not examined. Monoclonal antibodies are transported across the placenta in a linear fashion as pregnancy progresses, with the largest amount transferred during the third trimester. Potential adverse developmental effects resulting from exposures during the second and third trimesters have not been assessed in animals (see Nonclinical Toxicology [13.2] in Full Prescribing Information).

Nursing Mothers. It is not known whether Prolia is excreted into human Pregnancy. Pregnancy Category C. There are no adequate and well-controlled studies of Prolia in pregnant women. In genetically engineered

Nursing Mothers. It is not known whether Prolia is excreted into human milk. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursing infants from Prolia, a decision should be made whether to discontinue nursing or discontinue the drug, taking into account the importance of the drug to the mother. Maternal exposure to Prolia during pregnancy may impair mammary gland development and lactation based on animal studies in pregnant mice lacking the RANK/RANKL signaling pathway that have shown altered maturation of the maternal mammary gland, leading to impaired lactation postpartum (see Nonclinical Toxicology [13.2] in Full Prescribing Information].

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