Group Prenatal Care Said to Empower Women

Table 1 cont.

Asthenia
Allergic Reaction
Digestive System

BY SHERRY BOSCHERT

San Francisco Bureau

SAN FRANCISCO — A group prenatal care program designed to empower pregnant women is spreading across the United States, Margaret Hutchison said at a meeting on antepartum and intrapartum management.

More than 60 sites offering prenatal care in 28 states have started Centering-Pregnancy programs—mostly in public clinics, with some in HMOs and military clinics, said Ms. Hutchison, a certified nurse-midwife at San Francisco General Hospital, a teaching hospital of the University of California, which also sponsored the meeting.

Developed by a certified nurse-midwife and pilot-tested in 1993, the Centering-Pregnancy model groups 8-12 women of similar gestational age for 10 facilitated 2hour meetings starting at gestational weeks 12-16.

The groups usually meet monthly for the first 4 months and twice monthly after that. The women do self-care activities, such as measuring weight, taking blood pressure readings, and charting.

'This is an important part. It's not a group to just sit and talk," Ms. Hutchison said. "Empowerment is the key."

Sitting in a circle, the group discusses specific topics related to pregnancy and parenting, guided by "self-assessment sheets," with the emphasis varying among

4.8

6.5 3.7 3.0 2.2

core topics, such as smoking cessation or community building.

Ms. Hutchison said she started a CenteringPregnancy program at San Francisco General Hospital to help the many immigrant Hispanic females seen at her institution who seemed socially isolated. "I wanted them to have someone to call after we've sent them home with a baby," she said.

Ms. Hutchison said she has no financial relationship with the nonprofit group that owns the program trademark, the Centering Pregnancy & Parenting Asso-

During group time, the women take turns having "mat time" with a health provider who conducts pregnancy risk assessments within the group space, sometimes on a floor mat that can be behind a screen if privacy is needed. Staying in the room to conduct assessments is important, she explained. Moving a woman into a separate room interrupts the group process and reasserts the traditional hierarchical relationship between providers and patients.

Because the program, which demands change from health care providers, is so different from traditional care—see box it is not an easy one to implement. Billing has not been an issue, because the program fits into standard reimbursement systems, she said.

The program improved birth weights in a nonrandomized trial of 458 low-income women at two institutions. The women either participated in a CenteringPregnancy group or received traditional care, with the groups matched by age, race, parity, and date of delivery.

Average birth weight in the Centering-Pregnancy group was 3,228 g-significantly higher than the average of $3{,}159\ g$ in the control group. The CenteringPregnancy group showed a nonsignificant trend toward fewer low-birth-weight babies. In that study, 7% of babies born to the CenteringPregnancy group and 10% in the control group had low birth weights, defined as less than 500 g (Obstet. Gynecol. 2003;102[pt. 1]:1051-7).

BONIVA® (ibandronate sodium) TABLETS BRIEF SUMMARY CONSULT PACKAGE INSERT FOR FULL PRESCRIBING INFORMATION

CONTRAINDICATIONS

- Known hypersensitivity to BONIVA or to any of its excipients
 Uncorrected hypocalcemia (see PRECAUTIONS: General)
 Inability to stand or sit upright for at least 60 minutes
 (see DOSAGE AND ADMINISTRATION)

WARNINGS
BONIVA, like other bisphosphonates administered orally may cause upper gastrointestinal disorders such as dysphagia, esophagitis, and esophageal or gastric ulcer (see PRECAUTIONS).

PRECAUTIONS: General

PRECAUTIONS: General

Mineral Metabolism: Hypocalcemia and other disturbances of bone and mineral
metabolism should be effectively treated before starting BONIVA therapy. Adequate
intake of calcium and vitamin D is important in all patients.
Upper Gastriontestinal Effects: Bisphosphonates administered orally have been
associated with dysphagia, esophagitis, and esophageal or gastric ulcers. This
association has been reported for bisphosphonates in postmarketing experience but
has not been found in most preapproval clinical trials, including those conducted
with BONIVIA. Therefore, patients should be advised to pay particular attention to and
be able to comply with the dosing instructions to minimize the risk of these effects
(see DOSAGE AND ADMINISTRATION).

Severe Renal Impairment: BONIVIA is not recommended for use in patients with

be able to comply with the dosing instructions to minimize the risk of these effects (see DOSAGE AND ADMINISTRATION).

Severe Renal Impairment: BONIVA is not recommended for use in patients with severe renal impairment (creatinine dearrance ~30 mL/min).

Jaw Osteonecrosis: Osteonecrosis, primarily in the jaw, has been reported in patients treated with bisphosphonates. Most cases have been in cancer patients undergoing dental procedures, but some have occurred in patients with postmenopausal osteoporosis or other diagnoses. Known risk factors for osteonecrosis include a diagnosis of cancer, concomitant therapies (eg, chemotherapy, radiotherapy, corticosteroids), and co-morbid disorders (eg, anemia, coagulopathy, infection, pre-existing dental disease). Most reported cases have been in patients treated with bisphosphonates intravenously but some have been in patients treated orally. For patients who develop osteonecrosis of the jaw (DNJ) while on bisphosphonate therapy, dental surgery may exacerbate the condition. For patients requiring dental procedures, there are no data available to suggest whether discontinuation of bisphosphonate treatment reduces the risk of ONJ. Clinical judgment of the treating physician should guide the management plan of each patient based on individual benefitrisk assessment.

judgment of the treating physician should guide the management plan of each patient based on individual benefitrisk assessment.
Musculoskettal Pain: In postmarketing experience, severe and occasionally incapacitating bone, joint, and/ or muscle pain has been reported in patients taking bisphosphonates that are approved for the prevention and treatment of osteoporosis (see ADVERSE REACTIONS). However, such reports have been infrequent. This category of drugs include BONIVA (ibandronate sodium) Tablets.
Most of the patients were postmenopausal women. The time to onset of symptoms varied from one day to several months after starting the drug, Most patients have lead required or symptoms after stopping. A subset had recurrence of symptoms when rechallenged with the same drug or another bisphosphonate. In placebo-controlled studies with BONIVA, the precentages of patients with these symptoms were similar in the BONIVA and placebo groups.

Information for Patients: Patients should be instructed to read the Patient Information Leaflet carefully before taking BONIVA, to re-read it each time the prescription is renewed and to pay particular attention to the dosing instructions in order to maximize absorption and clinical benefit.

-BONIVA should be taken at least 60 minutes before the first food or drink (other than water) of the day and before taking any oral medications containing multivalent cations (including antacids, supplements or vitamins).

-To facilitate delivery to the stomach, and thus reduce the potential for esophageal irritation, BONIVA tablets should be swallowed whole with a full glass of plain water (6 to 8 oz) while the patient is standing or sitting in an upright position. Patients should not lie down for 60 minutes after taking BONIVA. Pleain water is the only drink that should be taken with BONIVA Please not the some mineral waters for the some mineral waters must be sown of 10 minutes after taking BONIVA.

-Plain water is the only drink that should be taken with BONIVA. Please note that some mineral waters may have a higher concentration of calcium and therefore should not be used.

uid not be used.

ients should not chew or suck the tablet because of a potential for haryngeal ulceration.

B ONIVA 150-mg tablet should be taken on the same date each month (ie, the ent's BONIVA day).

patient's BONINA day).

If the once-monthy dose is missed, and the patient's next scheduled BONINA day is more than 7 days away, the patient should be instructed to take one BONINA 150-mg tablet in the morning following the date that it is remembered (see DOSAGE AND ADMINISTRATION). The patient should then return to taking one BONINA 150-mg tablet every month in the morning of their chosen day, according to their original schedule.

The patient must not take two 150-mg tablets within the same week. If the patient's next scheduled BONINA day to take their tablet. The patient must wait until their next scheduled BONINA day to take their tablet. The patient mould then return to taking one BONINA 150-mg tablet every month in the morning of their chosen day, according to their original schedule.

Patients should receive supplemental calcium and vitamin D if dietary intake is inadequate. Intake of supplemental calcium and vitamin D should be delayed for at least 60 minutes following oral administration of BONINA in order to maximize absorption of BONINA in order to maximize absorption of BONINA is left to signs or symptoms signaling a possible esnobaneal

absorption of BUNIVA.

Physicians should be alert to signs or symptoms signaling a possible esophageal reaction during therapy, and patients should be instructed to discontinue BONIVA and seek medical attention if they develop symptoms of esophageal irritation susanew or worsening dysphagia, pain on swallowing, retrosternal pain, or heartburn.

Drug Interactions
Cacicium Supplements/Antacids: Products containing calcium and other multivalent cations (such as aluminum, magnesium, iron) are likely to interfere with absorption of BONNA BONNA should be taken at least 60 minutes before any oral medications containing multivalent cations (including antacids, supplements or vitamins) (see PRECAUTIONS: Information for Patients).

containing multivalent cations (including antacids, supplements or vitamins) (see PRECAUTIONS: Information for Patients).

12 Blockers and Proton Pump Inhibitors (PPS): Of over 3500 patients enrolled in the BONNA osteoporosis: Treatment and Prevention Studies, 15% used anti-peptic agents (primarily H2 blockers and PPIs). Among these patients, the incidence of upper gastrointestinal adverse experiences in the patients treated with BONNA was similar to that in placebo-treated patients. Similarly, of over 1600 patients enrolled in a study comparing once-monthly with daily dosing regimens of blandronate, 14% of patients used anti-peptic agents. Among these patients, the incidence of upper gastrointestinal adverse experiences in the patients treated with BONNA 2.5 mg once daily. Aspirin/Nansteroidal Antinflammatory Drugs (NSAIDs): In the large, placebo-controlled osteoporosis Treatment Study, aspirin and nonsteroidal antinflammatory drugs were taken by 62% of the 2946 patients. Among aspirin or NSAID users, the incidence of upper gastrointestinal adverse events in patients treated with blandronate 2.5 mg daily (28.9%) was similar to that in placebo-treated patients (30.7%). Similarly, in the 1-year monthly comparison study, aspirin and nonsteroidal antilinflammatory drugs were taken by 39% of the 1602 patients. The incidence of upper gastrointestinal adverse events in patients concomitantly taking aspirin or NSAIDs was similar in patients taking ibandronate 2.5 mg daily (27.9%) and 150 mg once monthly (22.0%). However, since aspirin, NSAIDs, and bisphosphonates are all associated with gastrointestinal irritation, caution should be exercised in the concomitant use of aspirin or NSAIDs with BONNA.

Drug/Laboratory Test Interactions: Bisphosphonates are known to interfere with the use of boone-linaging agents. Specific studies with blandronate have not been performed.

cumulative exposures up to 135 and 20 times, respectively, human exposure at time recommended once-monthly oral dose of 150 mg, based on AUC comparison). There were no significant drug-related tumor findings in male or female mice. In a 90-week cardinogenicity study, doses of 5, 20, or 80 mg/kg/day were administered in the drinking water to NMRI mice (cumulative monthly exposures in males and females up to 70 and 115 times, respectively, human exposure at the recommended dose of 150 mg, based on AUC comparison). A dose-related increased incidence of adrenal subcapsular adenoma/carcinoma was observed in female mice, which was statistically significant at 80 mg/kg/day (220 to 400 times human exposure at the recommended daily oral dose of 2.5 mg and 115 times human exposure at the recommended one-monthly oral dose of 150 mg, based on AUC comparison). The relevance of these findings to humans is unknown. Mutagenesis: There was no evidence for a mutagenic or clastogenic potential of ibandronate in the following assays: in vitro bacterial mutagenesis assay in Chinese hamster V79 cells, and chromosomal aberration test in human peripheral lymphocytes, each with and without metabolic activation. Ibandronate was not genotoxic in the in vivo mouse micronucleus tests for chromosomal damage.

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potential risk to the mother and fetus.

Nursing Mothers: In lactating rats treated with intravenous doses of 0.08 mg/kg. blandronate was present in breast milk at concentrations of 8.1 to 0.4 ng/ml. from 2 to 24 hours after dose administration. Concentrations in milk averaged 1.5 times plasma concentrations: It is not known whether BONIVA is excreted in human milk, caution should be exercised when BONIVA is administered to a nursing woman.

Pediatric Use: Safety and effectiveness in pediatric patients have not been established.

cestablished.

Geriatric Use: Of the patients receiving BONIVA 2.5 mg daily in postmenopausal osteoporosis studies, 52% were over 65 years of age, and 10% were over 75 years of age. Of the patients receiving BONIVA 150 mg once monthly in the postmenopausal osteoporosis 1-year study, 52% were over 65 years of age, and 9% were over 75 years of age, and 9% were over 75 years of age, No overall differences in effectiveness or safety were observed between these patients and younger patients but greater sensitivity in some older individuals cannot be ruled out.

ADVERSE REACTIONS

Daily Dosing: Daily treatment with oral BONIVA was studied in over 3900 patients in postmenopausal osteoporosis trials of up to 3 years duration. The overall adverse event profile of BONIVA 2.5 mg once daily in these studies was similar to that of placebo.

event primier or Bohnwa 2.5 mg office daily in these studies was similar to that of placebo.

Treatment and Prevention of Postmenopausal Osteoporosis: Most adverse events were mild or moderate and did not lead to discontinuation. The incidence of serious adverse events was 20% in the placebo group and 23% in the BONIVA 2.5 mg daily group. The percentage of patients who withdrew from treatment due to adverse events was approximately 17% in both the BONIVA 2.5 mg daily group and the placebo group. Overall, and according to body system, there was no difference between BONIVA and placebo, with adverse events of the digestive system being the most common reason for withdrawal.

Table 1 lists adverse events from the Treatment and Prevention Studies reported in x2% of patients and in more patients treated daily with BONIVA than patients treated with placebo. Adverse events are shown without attribution of causality.

Table 1: Adverse Events Occurring at a Frequency ×2% and in More Patients Treated with BONIVA than in Patients Treated with Placebo Daily in the Osteoporosis Treatment and Prevention Studies

%	% BONIVA 2.3 IIIg
(n=1134)	(n=1140)
	13.5
6.4	7.8
3.4	4.3
	(n=1134) 12.2 6.4

Urogenital System Urinary Tract Infection	4.2	5.5
Once-Monthly Dosing: In a 1-ye	ear, double-blind, i	multicenter study comparing
BONIVA 2.5 mg once daily and E	SUNIVA 150 mg or	nce monthly in women with
postmenopausal osteoporosis, the over dosing regimens were similar. The ir		
the BONIVA 2.5 mg daily group a		
group. The percentage of patients	who withdrow fro	m treatment due to adverce
events was approximately 8.9% in	the RONIVA 2.5 mg	daily aroun and 7.8% in the
BONIVA 150 mg once-monthly gro	un Tahla 2 liete th	a advarca avente renorted in
×2% of patients without attribution		c daverse events reported in
Table 2: Adverse Events with an		act 2% in Patiente Treated
with BONIVA 150 mg Once Monthly or 2.5 mg Daily		
Body System/Adverse Event	BONIVA	BONIVA
	2.5 mg daily	150 mg monthly
	%	%
	(n=395)	(n=396)
Vascular Disorders		
Hypertension	7.3	6.3
Gastrointestinal Disorders		
Dyspepsia	7.1	5.6
Nausea	4.8	5.1
Diarrhea	4.1	5.1
Constipation	2.5	4.0
Abdominal Pain ^a	5.3	7.8
Musculoskeletal and Connective		
Arthralgia	3.5	5.6
Back Pain	4.3	4.5
Pain in Extremity	1.3	4.0
Localized Osteoarthritis	1.3	3.0
Myalgia	0.8 2.0	2.0
Muscle Cramp	2.0	1.8
Infections and Infestations		
Influenza	3.8	4.0
Nasopharyngitis	4.3	3.5
Bronchitis	3.5	2.5
Urinary Tract Infection	1.8	2.3
Upper Respiratory Tract Infection	2.0	2.0
Nervous System Disorders	4.1	2.2

5.8 2.6 2.5 1.9

Dizziness 1.0
General Disorders and Administration Site Cond Influenza-like Illness^b 0.8
Skin and Subcutaneous Tissue Disorders
Rash[†] 1.3

2.3

2.0

erythematous, dermatitis, dermatitis allergic, dermatitis medicamentosa, erythema and exanthem Patients with a previous history of gastrointestinal disease, including patients with peptic ulcer without recent bleeding or hospitalization and patients with dyspepsia or reflux controlled by medication, were included in the once-monthly treatment study. For these patients, there was no difference in upper gastrointestinal adverse events with the 150 mg once-monthly regimen compared to the 2.5 mg once-daily regimen.

Ocular Adverse Events: Reports in the medical literature indicate that bisphosphonates may be associated with ocular inflammation such as uverits and scientis. In some cases, these events did not resolve until the bisphosphonate was discontinued. There were no reports of ocular inflammation in studies with BONIVA 2.5 mg daily, Two patients who received BONIVA once monthly experienced ocular inflammation, one was a case of uveritis and the other scientis.

Laboratory Test Findings: In the 3-year treatment study with BONIVA 2.5 mg daily, there were no clinically significant changes from baseline values or shifts in any laboratory variable for each of the treatment groups. As expected with bisphosphonate treatment, a decrease in total alkaline phosphatase levels was seen in the active treatment groups compared to placebo. There was no difference compared with placebo for laboratory ahornmalities indicative of hepatic or renal dysfunction, hypocalcemia, or hypophosphatemia. Similarly, no changes were noted for the 150 mg once-monthly administration in the 1-year study.

OVERDOSAGE: No specific information is available on the treatment of overdosage

Were routed for the 20 mg order-informly administration in the 1-year study.

**OVERDOSAGE: No specific information is available on the treatment of overdosage with BONIVA. However, based on knowledge of this class of compounds, ord overdosage may result in hypocalcemia, hypophosphatemia, and upper gastrointestinal adverse events, such as upset stomach, dyspepsia, esophagitis, gastritis, or ulcer. Milk or antacids should be given to bind BONIVA. Due to the risk of esophageal irritation, vomiting should not be induced, and the patient should remain fully upright. Dialysis would not be beneficial.

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A Comparison of **Two Care Models**

Traditional care

- ▶ Physical assessment is primary.
- ► Education is mostly one-on-one.
- ► Communication is didactic.
- ▶ Process of care is disempowering.
- ► Psychosocial support is incidental.

CenteringPregnancy care

- ▶ Physical assessment is just one aspect of care.
- ► Education is group-based and interactive.
- ► Communication is interactive and facilitated.
- ▶ Process of care is empowering.
- ► Psychosocial support and community-building are primary.

Source: Ms. Hutchison