CASES IN MENOPAUSE

Brought to vou by the menopause experts



Anne A. Moore, DNP, APN



JoAnn V. Pinkerton, MD

IN THIS ARTICLE

CE/BZA's safety profile page 53

Traditional estrogen-progestin vs CE/BZA therapy

page 53

Conjugated estrogen plus bazedoxifene—a new approach to estrogen therapy

Sor which of my patients is this treatment appropriate?

Anne A. Moore, DNP, APN

Dr. Moore is Women's Health Clinical Trainer, Tennessee Department of Health, Nashville, Tennessee. She serves on the OBG MANAGEMENT Board of Editors.

n this special installment of Cases in Menopause, I interview series contributor and menopause expert JoAnn V. Pinkerton, MD. We discuss a fairly new therapy: the combination conjugated estrogen and bazedoxifene (CE/BZA; Duavee) for the treatment of moderate to severe hot flashes due to menopause and the prevention of menopausal osteoporosis.

Much of my practice has focused on the treatment of menopausal women, but which of my patients can benefit from this particular combination of CE 0.45 mg plus BZA 20 mg? I asked Dr. Pinkerton this question, and more.

Which patients can benefit most?

DR. PINKERTON CE/BZA was tested in healthy postmenopausal women with a uterus at risk for bone loss who were reporting 50 or more moderate to severe hot flashes per week. The combination of CE and BZA is a good choice for women who have bothersome menopausal symptoms: hot flashes, night sweats, and sleep disruption or symptomatic vulvovaginal atrophy (VVA)-although it's not approved for VVA.

Dr. Pinkerton is Professor, Department of Obstetrics and Gynecology, and Director, Division of Midlife Women's Health, at the University of Virginia in Charlottesville. She is a NAMS past president and certified menopause practitioner and serves on the OBG MANAGEMENT Board of Editors.

Efficacy and safety data show that compared with placebo:

- CE/BZA decreases the frequency and severity of hot flashes at 12 weeks, and those decreases are maintained at 12 months.1,2
- Women taking CE/BZA have greater improvements in sleep, with both decreased sleep disturbance and time to fall asleep.3
- · CE/BZA maintained or prevented lumbar spine and hip bone loss in postmenopausal women at risk for osteoporosis. 1,4,5 Although fracture data were not captured and the drug was not tested in osteoporotic women, study results showed bone loss prevention at 12 months, which was sustained at 24 months. The improvement in bone mineral density from baseline was about 1% to 1.5%. This was compared with a bone loss of 1.8% in women taking placebo (P<.01).

In clinical studies, women taking CE/BZA versus placebo also have reported a lower incidence of painful intercourse,6 and some improvement in health-related quality of life and treatment satisfaction.7,8

In short, CE/BZA is a good option for symptomatic menopausal women with a uterus who have bothersome hot flashes, night sweats, and sleep disruptions and want to prevent bone loss.

What about adverse effects?

DR. PINKERTON In general, CE/BZA has a favorable safety and tolerability profile, with an overall incidence of adverse events similar to placebo. The rates of cardiovascular and cerebrovascular events, cancers (breast, endometrial, and ovarian), and mortality are comparable to placebo in 2-year trials. These data are limited; studies have been conducted in healthy postmenopausal women. Future studies need to define the full risk profile, particularly among overweight or obese women and different ethnic groups and for longer-term use.

Is there a role among women with breast cancer?

DR. PINKERTON CE/BZA has not been tested in women at risk for or with prior breast cancer. In preclinical trials of up to 2 years, involving healthy postmenopausal women, the rates for breast cancer with CE/BZA were similar to placebo. There are no long-term data, however, and there are no data in women at risk for breast cancer. I recommend that women who have or are at high risk for breast cancer consider nonhormonal treatment options.⁹⁻¹¹

Has there been an associated increase in breast density with CE/BZA?

DR. PINKERTON No. Data from two randomized clinical trials showed that the breast density changes with 12-month CE/BZA treatment was similar to placebo—which is markedly different from comparisons of placebo and combination estrogen-progestin therapy (EPT), where EPT increased breast density. If indeed this lack of an association translates into fewer breast cancers, it would be wonderful, but we do not have long-term data. We can tell our patients that using CE/BZA has not been shown to increase the risk of breast cancer, at least up to 2 years.

What makes CE/BZA different from traditional EPT?

DR. PINKERTON There are two exciting differences:

1. The incidences of breast pain and tenderness were found to be similar to placebo, and were significantly less than those with the comparator EPT (conjugated estrogens 0.45 mg plus medroxyprogesterone acetate [CE/MPA] 1.5 mg).^{9,10,12}

2. Bleeding and spotting rates were significantly less than those found with CE/MPA. 13

In addition, high rates of amenorrhea have been found—comparable to placebo.¹³

CE/BZA is similar to traditional EPT in several ways. For instance, compared with placebo, at 2 years, CE/BZA was not found to increase the incidence of endometrial hyperplasia, endometrial thickness (increase from baseline was <1 mm and comparable to placebo), or endometrial cancers. Lastly, similar to EPT, there is probably a twofold risk of venous thromboembolism (VTE) with BZA 20 mg alone. Importantly, there has been no additive effect on VTE risk when combining CE with BZA; however, we will need longer studies, in older women, to fully evaluate this risk.

Overall, in symptomatic postmeno-pausal women with a uterus, randomized controlled data show the same improvement with CE/BZA as that seen with traditional oral EPTs, with improvements in hot flashes; night sweats, with fewer sleep disruptions; and prevention of bone loss. In addition, the changes in cholesterol (an increase in triglyceride levels) and effect on the vagina are the same. Yet, CE/BZA appears to have a neutral effect on the breast and protects against endometrial hyperplasia and endometrial cancer without causing bleeding.^{9,10} CE/BZA's VTE and stroke risks are expected to be similar to traditional oral EPT.

Therefore, the major benefit of CE/BZA for women who have a uterus is the lack of significant breast tenderness, lack of changes in breast density, and lack of vaginal bleeding that is often seen with traditional EPT.¹²

Then, is progestogen the harmful agent in traditional HT options?

DR. PINKERTON There is evidence that estrogen plus progestogen therapy has more risk for breast cancer than estrogen alone. But in women who have a uterus, you need to protect against uterine cancer so, up until now, the only option was to add progestogen. Some studies suggest the risk of breast cancer may differ depending on the type of progestogen. So it's a laudable goal to try to protect the endometrium without using a progestogen.



Unlike estrogenprogestin therapy, CE/BZA does not cause breast tenderness or breast density changes or vaginal bleeding in women with a uterus

CONTINUED ON PAGE 54

CONTINUED FROM PAGE 53

Given its safety profile, do you see CE/BZA being indicated for women without a uterus?

DR. PINKERTON CE/BZA has been tested only in women with a uterus; there is no indication for using it in hysterectomized women. In the future, unless trial data show a benefit to hysterectomized women—by a reduction in breast cancer compared with estrogen alone—there would be no reason to add BZA to the CE for these women. You would just use CE or another type of estrogen alone.

Do you anticipate BZA being used alone?

DR. PINKERTON For treating osteoporosis in postmenopausal women at increased fracture risk, BZA alone has greater benefits than risks. It is approved in other countries to prevent or treat osteoporosis. In 2008, Wyeth received an approval letter from the US Food and Drug Administration for BZA alone but, for whatever reason, the drug was not brought to market. BZA reduces the number of new lumbar spine fractures by 4% (vs 2% for placebo), with efficacy better in those with a higher risk of fractures. Like raloxifene, it has not been shown effective at reducing nonvertebral fractures, although it maintains spinal bone density. 16

BZA available as monotherapy could tempt clinicians to pair it with other estrogens. We must recognize that the combination of the specific estrogen and BZA dose and type need to be balanced to provide endometrial hyperplasia protection. It would not be safe or effective to take BZA as a selective estrogen-receptor modulator and pair it with any other untested systemic estrogen. I do not anticipate, in this country, that BZA will become available as monotherapy.

New options are welcome

DR. MOORE Novel strategies for clinicians to optimally treat menopausal symptoms are always welcome. I look forward to more data from the SMART trials on CE/BZA and to

moving forward as we gain experience with using this new treatment option. •

Disclosures

Dr. Moore reports no financial relationships relevant to this article. Dr. Pinkerton reports that her institution receives consulting fees from DepoMed, Noven, NovoNordisk, Pfizer, and Shionogi; current grant or research support from Therapeutics MD, prior support from DepoMed, Bionova, and Endoceutics, and, several years ago, support from Pfizer; and travel funds from DepoMed, Noven, NovoNordisk, Pfizer, Therapeutics MD, and Shionogi.

References

- Lobo RA, Pinkerton JV, Gass ML, et al. Evaluation of bazedoxifene/conjugated estrogens for the treatment of menopausal symptoms and effects on metabolic bone parameters and overall safety profile. Fertil Steril. 2009;92(3):1025-1038.
- Pinkerton JV, Utian WH, Constantine GD, Olivier S, Pickar JH. Relief of vasomotor symptoms with the tissue-selective estrogen complex containing bazedoxifene/conjugated estrogens. Menopause. 2009;16:(6)1116–1124.
- Pinkerton JV, Pan K, Abraham L, et al. Sleep parameters and health-related quality of life with bazedoxifene/ conjugated estrogens. Menopause. 2014;21(3):252-259.
- Lindsay R, Gallagher JC, Kagan R, Pickar JH, Constantine G. Efficacy of tissue-selective estrogen complex (TSEC) of bazedoxifene/conjugated estrogens (BZA/CE) for osteoporosis prevention in at-risk postmenopausal women. Fertil Steril. 2009;92(3):1045–1052.
- Pinkerton JV, Harvey JA, Lindsay R, et al; SMART-5 Investigators. Effects of bazedoxifene/conjugated estrogens on the endometrium and bone. J Clin Endocrinol Metab. 2014;99(2):E189–E198.
- Kagan R, Williams RS, Pan K, Mirkin S, Pickar JH. A randomized, placebo- and active-controlled trial of bazedoxifene/conjugated estrogens (BZA/CE) for treatment of moderate to severe vulvar/vaginal atrophy in postmenopausal women. Menopause. 2010;17(2):281–289.
- Utian W, Yu H, Bobula J, Mirkin S, Olivier S, Pickar JH. Bazedoxifene/conjugated estrogens and quality of life in postmenopausal women. Maturitas. 2009;63:(4)329–335.
- Abraham L, Pinkerton JV, Messig M, Ryan KA, Komm BS, Mirkin S. Menopause-specific quality of life across varying menopausal populations with conjugated estrogens/ bazedoxifene. Maturitas. 2014;78(3):212–218.
- Harvey JA, Pinkerton JV, Baracat EC, Shi H, Chines AA, Mirkin S. Breast density changes in a randomized controlled trial evaluating bazedoxifene/conjugated estrogens. Menopause. 2013;20:(2)138–145.
- Pinkerton JV, Harvey JA, Pan K, et al. Breast effects of bazedoxifene-conjugated estrogens. Obstet Gynecol. 2013;121(5):959-968.
- Kaunitz AM. When should a menopausal woman discontinue hormone therapy? OBG Manag. 2014;26(2):59–65.
- Pinkerton JV, Pickar JH, Racketa J, Mirkin S. Bazedoxifene/ conjugated estrogens for menopausal symptom treatment and osteoporosis prevention. Climacteric. 2012;15:(5)411–418.
- Archer DF, Lewis V, Carr BR, Olivier S, Pickar JH. Bazedoxifene/conjugated estrogens (BZA/CE): incidence of uterine bleeding in postmenopausal women. Fertil Steril. 2009;92:1039–1044.
- Pickar JH, Yeh I-T, Bachmann G, Speroff L. Endometrial effects of a tissue selective estrogen complex (TSEC) containing bazedoxifene/conjugated estrogens as a menopausal therapy. Fertil Steril. 2009; 92(3):1018–1024.
- Mirkin S, Komm BS. Tissue-selective estrogen complexes for postmenopausal women. Maturitas. 2013;76(3):213–220.
- 16. Ellis AG, Reginster JY, Luo X, et al. Bazedoxifene versus oral bisphosphonates for the prevention of nonvertebral fractures in postmenopausal women with osteoporosis at higher risk of fracture. Value Health. 2014;17(4):424–432.



For women without a uterus, bazedoxifene has no role in the prevention of menopausal symptoms



Listen to the full audio discussion between Dr. Moore and Dr. Pinkerton, at obgmanagement.com