

The analysis for the other three BMD endpoints yielded mean percent changes from baseline in femoral trochanter that were generally larger than those seen for L₁ to L₄ and changes in femoral neck and total body that were generally smaller than those seen for L₁ to L₄. Significant differences between groups indicated that each of the conjugated estrogens tablets treatments was more effective than placebo for all three of these additional BMD endpoints. With regard to femoral neck and total body, the active treatment groups all showed mean percent increases in BMD, while placebo treatment was accompanied by mean percent decreases. For femoral trochanter, each of the conjugated estrogens tablets dose groups showed a mean percent increase that was significantly greater than the small increase seen in the placebo group. The percent changes from baseline to final evaluation are shown in Table 4.

Table 4: Percent Change in Bone Mineral Density: Comparison Between Active and Placebo Groups in the Intent-to-Treat Population, LDCF

Region Evaluated Treatment Group ^a	No. of Subjects	Baseline (g/cm ³) Mean ± SD	Change from Baseline (%) Adjusted Mean ± SE	p-Value vs. Placebo
L ₁ to L ₄ BMD				
0.625	83	1.17 ± 0.15	2.46 ± 0.37	<0.001
0.45	91	1.13 ± 0.15	2.26 ± 0.35	<0.001
0.3	87	1.14 ± 0.15	1.13 ± 0.36	<0.001
Placebo	85	1.14 ± 0.14	-2.45 ± 0.36	
Total Body BMD				
0.625	84	1.15 ± 0.08	0.68 ± 0.17	<0.001
0.45	91	1.14 ± 0.08	0.74 ± 0.16	<0.001
0.3	87	1.14 ± 0.07	0.40 ± 0.17	<0.001
Placebo	85	1.13 ± 0.08	-1.50 ± 0.17	
Femoral Neck BMD				
0.625	84	0.91 ± 0.14	1.82 ± 0.45	<0.001
0.45	91	0.89 ± 0.13	1.84 ± 0.44	<0.001
0.3	87	0.86 ± 0.11	0.62 ± 0.45	<0.001
Placebo	85	0.88 ± 0.14	-1.72 ± 0.45	
Femoral Trochanter BMD				
0.625	84	0.78 ± 0.13	3.82 ± 0.58	<0.001
0.45	91	0.76 ± 0.12	3.16 ± 0.56	0.003
0.3	87	0.75 ± 0.10	3.05 ± 0.57	0.005
Placebo	85	0.75 ± 0.12	-0.81 ± 0.58	

^a Identified by dosage (mg) of conjugated estrogens tablets or placebo.

Figure 1 shows the cumulative percentage of subjects with changes from baseline equal to or greater than the value shown on the x-axis.

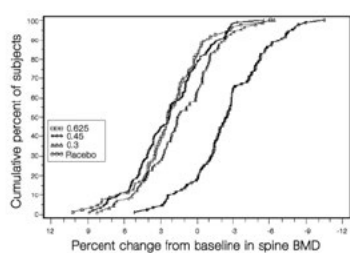


Figure 1. Cumulative Percent of Subjects With Changes From Baseline in Spine BMD of Given Magnitude or Greater in Conjugated Estrogens Tablets Groups and Placebo

The mean percent changes from baseline in L₁ to L₄ BMD for women who completed the bone density study are shown with standard error bars by treatment group in Figure 2. Significant differences between each of the conjugated estrogens tablets dose groups and placebo were found at cycles 6, 13, 19, and 26.

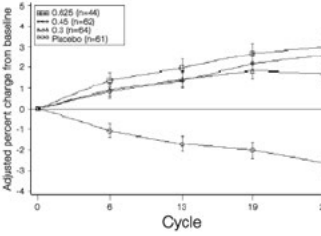


Figure 2. Adjusted Mean (SE) Percent Change From Baseline at Each Cycle in Spine BMD: Subjects Completing in Conjugated Estrogens Tablets Groups and Placebo

The bone turnover markers, serum osteocalcin and urinary N-telopeptide, significantly decreased ($p < 0.001$) in all active treatment groups at cycles 6, 13, 19, and 26 compared with the placebo group. Larger mean decreases from baseline were seen with the active groups than with the placebo group. Significant differences from placebo were seen less frequently in urine calcium.

14.4 Effects on Female Hypogonadism

In clinical studies of delayed puberty due to female hypogonadism, breast development was induced by doses as low as 0.15 mg. The dosage may be gradually titrated upward at 6- to 12 month intervals as needed to achieve appropriate bone age advancement and eventual epiphyseal closure. Clinical studies suggest that doses of 0.15 mg, 0.3 mg, and 0.6 mg are associated with mean ratios of bone age advancement to chronological age progression (OAR/CA) of 1, 1.5, and 2.1, respectively. Conjugated estrogens tablets in the dose strength of 0.15 mg is not available commercially. Available data suggest that chronic dosing with 0.625 mg is sufficient to induce artificial cyclic menses with sequential progestin treatment and to maintain bone mineral density after skeletal maturity is achieved.

14.5 Women's Health Initiative Studies

The WHI enrolled approximately 27,000 predominantly healthy postmenopausal women in two substudies to assess the risks and benefits of daily oral CE (0.625 mg-alone or in combination with MPA (2.5 mg) compared to placebo in the prevention of certain chronic diseases. The primary endpoint was the incidence of total MI, silent MI and CHD death, with invasive breast cancer as the primary adverse outcome. A "global index" included the earliest occurrence of CHD, invasive breast cancer, stroke, PE, endometrial cancer (only in the CE plus MPA substudy), colorectal cancer, hip fracture, or death due to other causes. These substudies did not evaluate the effects of CE-alone or CE plus MPA on menopausal symptoms.

WHI Estrogen-Alone Substudy

The WHI estrogen-alone substudy was stopped early because an increased risk of stroke was observed, and it was deemed that no further information would be obtained regarding the risks and benefits of estrogen alone in predetermined primary endpoints.

Results of the estrogen-alone substudy, which included 10,739 women (average 63 years of age, range 50 to 79; 75.3% White, 15.1% Black, 6.1% Hispanic, 3.6% Other) after an average follow-up of 7.1 years, are presented in Table 5.

Table 5: Relative and Absolute Risk Seen in the Estrogen Alone Substudy of WHI^a

Event	Relative Risk CE vs. Placebo (95% nCI) ^b	CE n = 5,310 Absolute Risk per 10,000 Women-Years	Placebo n = 5,429
CHD events ^c	0.95 (0.78–1.16)	54	57
Non-fatal MI ^d	0.91 (0.73–1.14)	40	43
CHD death ^e	1.01 (0.71–1.43)	16	16
All Stroke ^f	1.33 (1.05–1.69)	45	33
Ischemic stroke ^g	1.55 (1.19–2.01)	38	25
Deep vein thrombosis ^h	1.47 (1.06–2.06)	23	15
Pulmonary embolism ⁱ	1.37 (0.90–2.07)	14	10
Invasive breast cancer ^j	0.80 (0.62–1.04)	28	34
Colorectal cancer ^k	1.08 (0.75–1.55)	17	16
Hip fracture ^l	0.65 (0.45–0.94)	12	19
Vertebral fractures ^m	0.64 (0.44–0.93)	11	18
Lower arm/wrist fractures ⁿ	0.58 (0.47–0.72)	35	59
Total fractures ^o	0.71 (0.64–0.80)	144	197
Death due to other causes ^p	1.08 (0.88–1.32)	53	50
Overall mortality ^q	1.04 (0.88–1.22)	79	75
Global Index ^r	1.02 (0.92–1.13)	206	201

^a Adapted from numerous WHI publications. WHI publications can be viewed at www.nhlbi.nih.gov/whi.

^b Nominal confidence intervals unadjusted for multiple looks and multiple comparisons.

^c Results are based on centrally adjudicated data for an average follow-up of 7.1 years.

^d Not included in "global index."

^e Results are based on an average follow-up of 6.8 years.

^f All deaths, except from breast or colorectal cancer, definite/probable CHD, PE or cerebrovascular disease.

^g A subset of the events was combined in a "global index" defined as the earliest occurrence of CHD events, invasive breast cancer, stroke, pulmonary embolism, colorectal cancer, hip fracture, or death due to other causes.

For those outcomes included in the WHI "global index" that reached statistical significance, the absolute excess risk per 10,000 women-years in the group treated with CE-alone was 12 more strokes while the absolute risk reduction per 10,000 women-years was 7 fewer hip fractures.^l The absolute excess risk of events included in the "global index" was a non-significant 5 events per 10,000 women-years. There was no difference between the groups in terms of all-cause mortality.

No overall difference for primary CHD events (nonfatal MI, silent MI and CHD death) and invasive breast cancer incidence in women receiving CE-alone compared with placebo was reported in final centrally adjudicated results from the estrogen-alone substudy, after an average follow-up of 7.1 years. See Table 5. Centrally adjudicated results for stroke events from the estrogen-alone substudy, after an average follow-up of 7.1 years, reported no significant difference in distribution of stroke subtype or severity, including fatal strokes, in women receiving CE-alone compared to placebo. Estrogen-alone increased the risk for ischemic stroke, and this excess risk was present in all subgroups of women examined.^g

Timing of the initiation of estrogen-alone therapy relative to the start of menopause may affect the overall risk benefit profile. The WHI estrogen-alone substudy stratified by age showed in women 50–59 years of age, a non-significant trend toward reduced risk for CHD (pazrat ratio [RR] 0.63 [95% CI 0.36–1.09]) and overall mortality (RR 0.71 [95% CI 0.46–1.11]).

WHI Estrogen Plus Progestin Substudy

The WHI estrogen plus progestin substudy was stopped early. According to the predefined stopping rule, after an average follow-up of 5.6 years of treatment, the increased risk of invasive breast cancer and cardiovascular events exceeded the specified benefits included in the "global index." The absolute excess risk of events included in the "global index" was 19 per 10,000 women-years.

For those outcomes included in the WHI "global index" that reached statistical significance after 5.6 years of follow-up, the absolute excess risks per 10,000 women-years in the group treated with CE plus MPA were 7 more CHD events, 8 more strokes, 10 more PEs, and 8 more invasive breast cancers, while the absolute risk reductions per 10,000 women-years were 6 fewer colorectal cancers and 5 fewer hip fractures.

Results of the estrogen plus progestin substudy, which included 16,608 women (average 63 years of age, range 50 to 79; 83.9% White, 6.8% Black, 5.4% Hispanic, 3.9% Other) are presented in Table 6. These results reflect centrally adjudicated data after an average follow-up of 5.6 years.

Table 6: Relative and Absolute Risk Seen in the Estrogen Plus Progestin Substudy of WHI at an Average of 5.6 Years^{a,b}

Event	Relative Risk CE/MPA vs. Placebo (95% nCI) ^c	CE/MPA n = 8,506 Absolute Risk per 10,000 Women-Years	Placebo n = 8,102
CHD events	1.23 (1.09–1.39)	41	34
Non-fatal MI ^d	1.28 (1.09–1.63)	21	26
CHD death	1.10 (0.70–1.75)	8	8
All Strokes	1.31 (1.03–1.68)	33	25
Ischemic stroke	1.44 (1.09–1.90)	26	18
Deep vein thrombosis ^e	1.95 (1.43–2.67)	25	13
Pulmonary embolism	2.13 (1.45–3.11)	18	8
Invasive breast cancer ^f	1.24 (1.01–1.54)	41	33
Colorectal cancer ^g	0.61 (0.42–0.87)	10	16
Endometrial cancer ^h	0.81 (0.48–1.36)	6	7
Cervical cancer ⁱ	1.44 (0.47–4.42)	2	1
Hip fracture	0.67 (0.47–0.96)	11	16
Vertebral fractures ^j	0.65 (0.46–0.92)	11	17
Lower arm/wrist fractures ^k	0.71 (0.59–0.85)	44	62
Total fractures ^l	0.76 (0.68–0.83)	152	199
Overall Mortality ^m	1.00 (0.83–1.19)	52	52
Global Index ⁿ	1.13 (1.02–1.25)	184	165

^a Adapted from numerous WHI publications. WHI publications can be viewed at www.nhlbi.nih.gov/whi.

^b Results are based on centrally adjudicated data.

^c Nominal confidence intervals unadjusted for multiple looks and multiple comparisons.

^d Not included in "global index."

^e Includes metastatic and non-metastatic breast cancer, with the exception of *in situ* cancer.

^f All deaths, except from breast or colorectal cancer, definite/probable CHD, PE or cerebrovascular disease.

^g A subset of the events was combined in a "global index" defined as the earliest occurrence of CHD events, invasive breast cancer, stroke, pulmonary embolism, colorectal cancer, hip fracture, or death due to other causes.

Timing of the initiation of estrogen therapy relative to the start of menopause may affect the overall risk benefit profile. The WHI estrogen plus progestin substudy stratified by age showed in women 50–59 years of age, a non-significant trend toward reduced risk for overall mortality (RR 0.69 [95% CI 0.44–1.07]).

14.6 Women's Health Initiative Memory Study

The WHIMS estrogen-alone ancillary study of WHI enrolled 2,947 predominantly healthy hysterectomized postmenopausal women 65 to 79 years of age (45% were 65 to 69 years of age, 36% were 70 to 74 years of age, 19% were 75 years of age and older) to evaluate the effects of daily CE (0.625 mg)-alone on the incidence of probable dementia (primary outcome) compared to placebo.

After an average follow-up of 5.2 years, the relative risk of probable dementia for CE-alone versus placebo was 1.49 (95% CI 0.83–2.66). The absolute risk of probable dementia for CE-alone versus placebo was 37 versus 25 cases per 10,000 women-years. Probable dementia as defined in this study included Alzheimer's disease (AD), vascular dementia (VD) and mixed types (having features of both AD and VD). The most common classification of probable dementia in the treatment group and the placebo groups was AD. Since the ancillary study was conducted in women 65 to 79 years of age, it is unknown whether these findings apply to younger postmenopausal women. [see Warnings and Precautions (5.3), and Use in Specific Populations (6.5)]

The WHIMS estrogen plus progestin ancillary study enrolled 4,532 predominantly healthy postmenopausal women 65 years of age and older (47% were 65 to 69 years of age, 35% were 70 to 74 years, 18% were 75 years of age and older) to evaluate the effects of daily CE (0.625 mg) plus MPA (2.5 mg) on the incidence of probable dementia (primary outcome) compared to placebo.

After an average follow-up of 4 years, the relative risk of probable dementia for CE plus MPA was 2.05 (95% CI 1.21–3.48). The absolute risk of probable dementia for CE (0.625 mg) plus MPA (2.5 mg) versus placebo was 45 versus 22 per 10,000 women-years. Probable dementia as defined in this study included AD, VD and mixed types (having features of both AD and VD). The most common classification of probable dementia in both the treatment and placebo groups was AD. Since the ancillary study was conducted in women 65 to 79 years of age, it is unknown whether these findings apply to younger postmenopausal women. [see Warnings and Precautions (5.3), and Use in Specific Populations (6.5)]

When data from the two populations were pooled as planned in the WHIMS protocol, the reported overall relative risk for probable dementia was 1.76 (95% CI 1.19–2.60). Differences between groups became apparent in the first year of treatment. It is unknown whether these findings apply to younger postmenopausal women. [see Warnings and Precautions (5.3), and Use in Specific Populations (6.5)]

15. REFERENCES

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16. HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

Conjugated estrogens tablets, USP

- Each green oval biconvex coated tablet contains 0.3 mg, in bottles of 100 (NDC 50742-387-01) and 1,000 (NDC 50742-387-10).
- Each blue oval biconvex coated tablet contains 0.45 mg, in bottles of 100 (NDC 50742-388-01) and 1,000 (NDC 50742-388-10).
- Each peach oval biconvex coated tablet contains 0.625 mg, in bottles of 100 (NDC 50742-389-01) and 1,000 (NDC 50742-389-10).

16.2 Storage and Handling

Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature].

Dispense in a well-secured container as defined in the USP.

17. PATIENT COUNSELING INFORMATION

Advise the patients to read the FDA-approved patient labeling (Patient Information).

17.1 Vaginal Bleeding

Inform postmenopausal women of the importance of reporting vaginal bleeding to their healthcare provider as soon as possible [see Warnings and Precautions (5.2)].

17.2 Possible Serious Adverse Reactions with Estrogens

Inform postmenopausal women of possible serious adverse reactions of estrogen therapy including Cardiovascular Disorders, Malignant Neoplasms, and Probable Dementia [see Warnings and Precautions (5.1, 5.2, 5.3)].

17.3 Possible Less Serious but Common Adverse Reactions with Estrogens

Inform postmenopausal women of possible less serious but common adverse reactions of estrogen therapy such as headache, breast pain and tenderness, nausea and vomiting.

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Rev B

Manufactured for:

Ingenus Pharmaceuticals, LLC

Orlando, FL 32811-7193

Product of China



PATIENT INFORMATION

Conjugated estrogens tablets, USP ("kon'ju gay'ted es'troe jenz")

Read this PATIENT INFORMATION before you start taking conjugated estrogens tablets and read what you get each time you refill your conjugated estrogens tablets prescription. There may be new information. This information does not take the place of talking to your healthcare provider about your medical condition or your treatment.

WHAT IS THE MOST IMPORTANT INFORMATION I SHOULD KNOW ABOUT CONJUGATED ESTROGENS TABLETS (AN ESTROGEN MIXTURE)?

- Using estrogen-alone may increase your chance of getting cancer of the uterus (womb). Report any unusual vaginal bleeding right away while you are using conjugated estrogens tablets. Vaginal bleeding after menopause may be a warning sign of cancer of the uterus (womb). Your healthcare provider should check any unusual vaginal bleeding to find the cause.
- Do not use estrogen-alone to prevent heart disease, heart attacks, or dementia (decline of brain function).
- Using estrogen-alone may increase your chances of getting strokes or blood clots.
- Using estrogen-alone may increase your chance of getting dementia, based on a study of women 65 years of age or older.
- Do not use estrogens with progestins to prevent heart disease, heart attacks, strokes, or dementia.
- Using estrogens with progestins may increase your chances of getting heart attacks, strokes, breast cancer, or blood clots.
- Using estrogens with progestins may increase your chance of getting dementia, based on a study of women 65 years of age or older.
- You and your healthcare provider should talk regularly about whether you still need treatment with conjugated estrogens tablets.

What is conjugated estrogens tablets?

Conjugated estrogens tablets is a medicine that contains a mixture of estrogen hormones.

What is conjugated estrogens tablets used for?

Conjugated estrogens tablets is used after menopause to:

- Reduce moderate to severe hot flashes
- Estrogens are hormones made by a woman's ovaries. The ovaries normally stop making estrogens when a woman is between 45 and 55 years old. This drop in body estrogen levels causes the "change of life" or menopause (the end of monthly menstrual periods). Sometimes, both ovaries are removed during an operation before natural menopause takes place. The sudden drop in estrogen levels causes "surgical menopause."
- When the estrogen levels begin dropping, some women get very uncomfortable symptoms, such as feelings of warmth in the face, neck, and chest, or sudden strong feelings of heat and sweating ("hot flashes"). In some women the symptoms are mild, and they will not need to take estrogens. In other women, symptoms can be more severe.
- Treat menopausal changes in and around the vagina
- You and your healthcare provider should talk regularly about whether you still need treatment with conjugated estrogens tablets to control these problems. If you use conjugated estrogens tablets only to treat your menopausal changes in and around your vagina, talk with your healthcare provider about whether a topical vaginal product would be better for you.
- Help reduce your chances of getting osteoporosis (thin weak bones)
- Osteoporosis from menopause is a thinning of the bones that makes them weaker and easier to break. If you use conjugated estrogens tablets only to prevent osteoporosis due to menopause, talk with your healthcare provider about whether a different treatment or medicine without estrogens might be better for you.
- Weight-bearing exercise, like walking or running, and taking calcium (1500 mg/day of elemental calcium) and vitamin D (400–800 IU/day) supplements may also lower your chances of getting postmenopausal osteoporosis. It is important to talk about exercise and supplements with your healthcare provider before starting them.
- You and your healthcare provider should talk regularly about whether you still need treatment with conjugated estrogens tablets.

Conjugated estrogens tablets is also used to:

- Treat certain conditions in women before menopause if their ovaries do not make enough estrogen naturally.
- Ease symptoms of certain cancers that have spread through the body, in men and women

Who should not take conjugated estrogens tablets?

Do not take conjugated estrogens tablets if you:

- Have unusual vaginal bleeding
- Currently have or have had certain cancers
- Estrogens may increase the chance of getting certain types of cancers, including cancer of the breast or uterus. If you have or have had cancer, talk with your healthcare provider about whether you should use conjugated estrogens tablets.
- Had a stroke or heart attack
- Currently have or have had blood clots
- Currently have or have had liver problems
- Have been diagnosed with a bleeding disorder
- Are allergic to conjugated estrogens tablets or any of its ingredients
- See the end of this leaflet for a list of ingredients in conjugated estrogens tablets.

Tell your healthcare provider

- If you have any unusual vaginal bleeding
- Vaginal bleeding after menopause may be a warning sign of cancer of the uterus (womb). Your healthcare provider should check any unusual vaginal bleeding to find out the cause.
- About all of your medical problems
- Your healthcare provider may need to check you more carefully if you have certain conditions, such as asthma (wheezing), epilepsy (seizures), diabetes, migraine, endometriosis, lupus, problems with your heart, liver, thyroid, kidneys, or have high calcium levels in your blood.
- About all the medicines you take
- This includes prescription and nonprescription medicines, vitamins, and herbal supplements. Some medicines may affect how conjugated estrogens tablets works. Conjugated estrogens tablets may also affect how your other medicines work.
- If you are going to have surgery or will be on bedrest
- You may need to stop taking conjugated estrogens tablets.
- If you are pregnant or think you may be pregnant
- Conjugated estrogens tablets is not for pregnant women.
- If you are breastfeeding
- The hormones in conjugated estrogens tablets can pass into your breast milk.

How should I take conjugated estrogens tablets?

- Take one conjugated estrogens tablet at the same time each day.
- If you miss a dose, take it as soon as possible. If it is almost time for your next dose, skip the missed dose and go back to your normal schedule. Do not take 2 doses at the same time.
- Estrogens should be used at the lowest dose possible for your treatment only as long as needed. You and your healthcare provider should talk regularly (for example, every 3 to 6 months) about the dose you are taking and whether you still need treatment with conjugated estrogens tablets.
- If you see something that resembles a tablet in your stool, talk to your healthcare provider.
- Take conjugated estrogens tablets with or without food.

What are the possible side effects of conjugated estrogens tablets?

Side effects are grouped by how serious they are and how often they happen when you are treated.

Serious, but less common side effects include:

- Heart attack
- Stroke
- Blood clots
- Breast cancer
- Cancer of the lining of the uterus (womb)
- Cancer of the ovary
- Dementia
- High or low blood calcium
- Gallbladder disease
- Visual abnormalities
- High blood pressure
- High levels of fat (triglycerides) in your blood
- Liver problems
- Changes in your thyroid hormone levels
- Fluid retention
- Cancer changes of endometriosis
- Enlargement of benign tumors of the uterus ("fibroids")
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