

Conjugated Estrogens Tablets, USP

Physician Labeling

USP 1026 Rx only 16, 05/2025

INDICATIONS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use CONJUGATED ESTROGENS TABLETS safely and effectively. See full prescribing information for CONJUGATED ESTROGENS TABLETS.

CONJUGATED ESTROGENS tablets, for oral use

Initial U.S. Approval: 1942

WARNING: ENDOMETRIAL CANCER, CARDIOVASCULAR DISORDERS, BREAST CANCER and PROBABLE DEMENTIA

See full prescribing information for complete boxed warning.

- There is an increased risk of endometrial cancer in a woman with a uterus who uses unopposed estrogens (5.2).
- Estrogen-alone therapy should not be used for the prevention of cardiovascular disease or dementia (5.1, 5.3).
- Women's Health Initiative (WHI) estrogen-alone study reported increased risks of stroke and deep vein thrombosis (DVT) (5.1, 5.3).
- The WHI Memory Study (WHIMS) estrogen-alone ancillary study of WHI reported an increased risk of probable dementia in postmenopausal women 65 years of age and older (5.3).

- Estrogen Plus Progestin Therapy**
 - Estrogen plus progestin therapy should not be used for the prevention of cardiovascular disease or dementia (5.1, 5.3).
 - The WHI estrogen plus progestin substudy reported increased risks of stroke, DVT, pulmonary embolism (PE), and myocardial infarction (MI) (5.1).
 - The WHI estrogen plus progestin substudy reported increased risks of invasive breast cancer (5.2).
 - The WHIMS estrogen plus progestin ancillary study of WHI reported an increased risk of probable dementia in postmenopausal women 65 years of age and older (5.3).

- INDICATIONS AND USAGE**
 - Conjugated estrogens tablets is a mixture of estrogens indicated for:
 - Treatment of Moderate to Severe Vasomotor Symptoms due to Menopause (1.1).
 - Treatment of Moderate to Severe Vulvar and Vaginal Atrophy due to Menopause (1.2).
 - Treatment of Hypoestrogenism due to Hypogonadism, Castration or Primary Ovarian Failure (1.3).
 - Treatment of Breast Cancer (for Palliation Only) in Appropriately Selected Women and Men with Metastatic Disease (1.4).
 - Treatment of Advanced Androgen-Dependent Carcinoma of the Prostate (for Palliation Only) (1.5).
 - Prevention of Postmenopausal Osteoporosis (1.6).

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1.6 Prevention of Postmenopausal Osteoporosis

Limitations of Use

When prescribing solely for the prevention of postmenopausal osteoporosis, therapy should only be considered for women at significant risk of osteoporosis and non-estrogen medication should be carefully considered.

2. DOSAGE AND ADMINISTRATION

Generally, when estrogen therapy is prescribed for a postmenopausal woman with a uterus, a progestin should be considered to reduce the risk of endometrial cancer (see *Boxed Warning*).

A woman without a uterus does not need progestin. In some cases, however, hysterectomized women with a history of endometriosis may need a progestin (see *Warnings and Precautions* (5.2, 5.3, 5.4)).

Use of estrogen-alone, or in combination with a progestin, should be with the lowest effective dose and for the shortest duration consistent with treatment goals and risks for the individual woman. Postmenopausal women should be re-evaluated periodically as clinically appropriate to determine if treatment is still necessary.

Conjugated estrogens tablets may be taken without regard to meals.

2.1 Treatment of Moderate to Severe Vasomotor Symptoms due to Menopause

Patients should be treated with the lowest effective dose. Generally, women should be started at 0.3 mg conjugated estrogens tablets daily. Subsequent dosage adjustment may be made based upon the individual patient response. This dose should be periodically reassessed by the healthcare provider.

Conjugated estrogens tablets therapy may be given continuously, with no interruption in therapy, or in cyclical regimens (regimens such as 25 days on drug followed by 5 days off drug), as is medically appropriate on an individual basis.

2.2 Treatment of Moderate to Severe Symptoms of Vulvar and Vaginal Atrophy due to Menopause

Patients should be treated with the lowest effective dose. Generally, women should be started at 0.3 mg conjugated estrogens tablets daily. Subsequent dosage adjustment may be made based upon the individual patient response. This dose should be periodically reassessed by the healthcare provider.

Conjugated estrogens tablets therapy may be given continuously, with no interruption in therapy, or in cyclical regimens (regimens such as 25 days on drug followed by 5 days off drug), as is medically appropriate on an individual basis.

2.3 Treatment of Hypoestrogenism due to Hypogonadism, Castration, or Primary Ovarian Failure

Female hypogonadism tablets should be initiated and maintained with the lowest effective dose to achieve clinical goals. Female hypogonadism: 0.3 mg or 0.625 mg daily, administered cyclically (e.g., three weeks on and one week off).

Female castration or primary ovarian failure: 1.25 mg daily, cyclically adjusted. upward or downward, according to severity of symptoms and response of the patient. For maintenance, adjust dosage to lowest level that will provide effective control.

2.4 Treatment of Breast Cancer (for Palliation Only) in Appropriately Selected Women and Men with Metastatic Disease

Suggested dosage is 10 mg three times daily, for a period of at least three months.

2.5 Treatment of Advanced Androgen-Dependent Carcinoma of the Prostate (for Palliation Only)

The effectiveness of therapy can be judged by phosphatase determinations as well as by symptomatic improvement of the patient.

2.6 Prevention of Postmenopausal Osteoporosis

Conjugated estrogens tablets therapy may be given continuously, with no interruption in therapy, or in cyclical regimens (regimens such as 25 days on drug followed by 5 days off drug), as is medically appropriate on an individual basis.

Patients should be treated with the lowest effective dose. Generally, women should be started at 0.3 mg conjugated estrogens tablets daily. Subsequent dosage adjustment may be made based upon the individual clinical and bone mineral density responses. This dose should be periodically reassessed by the healthcare provider.

3. DOSAGE FORMS AND STRENGTHS

Conjugated estrogens tablets, USP

Tablet Strength Tablet Shape/Color Conjugated estrogens tablets, USP

0.3 mg oval bicolor/white *C1† on one side and "NL" on the other side

1.25 mg oval bicolor/white *C1† on one side and "NL" on the other side

4. CONTRAINDICATIONS

Conjugated estrogens tablets therapy is contraindicated in individuals with any of the following conditions:

- Undiagnosed abnormal genital bleeding (see *Warnings and Precautions* (5.2)).
- Breast cancer or a history of breast cancer except in appropriately selected patients being treated for metastatic disease (see *Warnings and Precautions* (5.2)).
- Estrogen-dependent neoplasia (see *Warnings and Precautions* (5.2)).
- Active DVT, PE, or a history of these conditions (see *Warnings and Precautions* (5.1)).
- Active arterial thromboembolic disease (for example stroke and MI), or a history of these conditions (see *Warnings and Precautions* (5.1)).

- Known anaphylactic reaction or angioedema with conjugated estrogens tablets (see *Warnings and Precautions* (5.1)).
- Hepatic impairment or disease (see *Warnings and Precautions* (5.1)).
- Protein C, protein S, or antithrombin deficiency, or other known thrombotic disorders (4).

5. WARNINGS AND PRECAUTIONS

5.1 Cardiovascular Disorders

An increased risk of stroke and DVT has been reported with estrogen-alone therapy. An increased risk of PE, DVT, stroke and MI has been reported with estrogen plus progestin therapy. Should any of these events occur or be suspected, estrogen with or without progestin therapy should be discontinued immediately.

Risk factors for arterial vascular disease (for example, hypertension, diabetes mellitus, tobacco use, hypercholesterolemia, and obesity) and/or venous thromboembolism (VTE) (for example, personal or family history of VTE, obesity, and systemic lupus erythematosus) should be managed appropriately.

Stroke

In the WHI estrogen-alone substudy, a statistically significant increased risk of stroke was reported in women 50 to 79 years of age receiving daily CE (0.625 mg)-alone compared to women in the same age group receiving placebo (45 versus 33 per 10,000 women-years). The increase in risk was demonstrated in Year 1 and persisted (see *Clinical Studies* (14.5)). Should a stroke occur or be suspected, estrogen-alone therapy should be discontinued immediately.

Subgroup analyses of women 50 to 59 years of age suggest no increased risk of stroke for those women receiving CE (0.625 mg)-alone versus those receiving placebo (18 versus 21 per 10,000 women-years).

In the WHI estrogen plus progestin substudy, a statistically significant increased risk of stroke was reported in women 50 to 79 years of age receiving daily CE (0.625 mg) plus MPA (2.5 mg) compared to women in the same age group receiving placebo (41 versus 34 per 10,000 women-years). The increase in risk was demonstrated in Year 1 and persisted (see *Clinical Studies* (14.5)). Should a stroke occur or be suspected, estrogen-alone therapy should be discontinued immediately.

Subgroup analyses of women 50 to 59 years of age suggest a statistically non-significant reduction in CHD events (CE (0.625 mg)-alone compared to placebo) in women with less than 10 years since menopause (8 versus 16 per 10,000 women-years).

In the WHI estrogen plus progestin substudy, there was a statistically non-significant increased risk of CHD events reported in women receiving daily CE (0.625 mg) plus MPA (2.5 mg) compared to women receiving placebo (41 versus 34 per 10,000 women-years). An increase in relative risk was demonstrated in Year 1, and a trend toward decreasing relative risk was reported in years 2 through 5 (see *Clinical Studies* (14.5)).

In the WHI estrogen-alone substudy, no overall effect on coronary heart disease (CHD) events (defined as nonfatal MI, silent MI, or CHD death) was reported in women receiving estrogen-alone compared to placebo (see *Clinical Studies* (14.5)).

Subgroup analyses of women 50 to 59 years of age suggest a statistically non-significant reduction in CHD events (CE (0.625 mg)-alone compared to placebo) in women with less than 10 years since menopause (8 versus 16 per 10,000 women-years).

In the WHI estrogen plus progestin substudy, there was a statistically non-significant increased risk of CHD events reported in women receiving daily CE (0.625 mg) plus MPA (2.5 mg) compared to women receiving placebo (41 versus 34 per 10,000 women-years). An increase in relative risk was demonstrated in Year 1, and a trend toward decreasing relative risk was reported in years 2 through 5 (see *Clinical Studies* (14.5)).

In postmenopausal women with documented heart disease (N = 2,763, average 68.7 years of age), in a controlled clinical trial of secondary prevention of cardiovascular disease (Heart and Estrogen/Progestin Replacement Study; HERS), treatment with daily CE (0.625 mg plus 2.5 mg) demonstrated no cardiovascular benefit. During an average follow-up of 4.1 years, treatment with CE plus MPA did not reduce the overall rate of CHD events or the rate of nonfatal CHD. There were no reported deaths from CHD events in the CE plus MPA-treated group that in the placebo group in Year 1, but not during the subsequent years. Two thousand, three hundred and twenty-one (2,321) women from the original HERS trial agreed to participate in an open label extension of HERS. HERS II. Average follow-up in HERS II was an additional 2.7 years, for a total of 6.8 years overall. Rates of CHD events were comparable among women in the CE (0.625 mg plus MPA (2.5 mg) group and the placebo group in HERS. HERS II, and overall.

Venous Thromboembolism (VTE)

In the WHI estrogen-alone substudy, the risk of VTE (DVT and PE), was increased for women receiving daily CE (0.625 mg)-alone following exposure to placebo (30 versus 16 per 10,000 women-years). The increase in VTE risk was demonstrated during the first 2 years (see *Clinical Studies* (14.5)). Should a VTE occur or be suspected, estrogen-alone therapy should be discontinued immediately.

In the WHI estrogen plus progestin substudy, a statistically significant 2-fold greater risk of VTE was reported in women receiving daily CE (0.625 mg) plus MPA (2.5 mg) compared to women receiving placebo (35 versus 17 per 10,000 women-years). Statistically significant increases in risk for both DVT (26 versus 13 per 10,000 women-years) and PE (18 versus 8 per 10,000 women-years) were also demonstrated. The increase in VTE risk was demonstrated during the first year and persisted (see *Clinical Studies* (14.5)). Should a VTE occur or be suspected, estrogen plus progestin therapy should be discontinued immediately.

If feasible, estrogen therapy should be discontinued at least 4 to 6 weeks before surgery of the type associated with an increased risk of thromboembolism, or during periods of prolonged immobilization.

5.2 Malignant Neoplasms

Endometrial Cancer

An increased risk of endometrial cancer has been reported with the use of unopposed estrogen therapy in a woman with a uterus. The reported endometrial cancer risk among unopposed estrogen users is about 2 to 12 times greater than in non-users, and appears dependent on duration of treatment and on estrogen dose. Most studies show no significant increased risk associated with use of estrogens for less than 1 year. The greatest risks appear associated with prolonged use, with increased risks of 15- to 24-fold for 5 to 10 years or more, and this risk has been shown to persist for at least 8 to 15 years after estrogen therapy is discontinued.

Clinical surveillance of all women using estrogen-alone or estrogen plus progestin therapy is important.

Adequate diagnostic measures, including directed or random endometrial sampling when indicated, should be undertaken to rule out malignancy in postmenopausal women with undiagnosed persistent or recurring abnormal genital bleeding. There is no evidence that the use of natural estrogens results in a different endometrial risk profile than synthetic estrogens of equivalent estrogen dose. Adding a progestin to postmenopausal estrogen therapy has been shown to reduce the risk of endometrial hyperplasia, which may be a precursor to endometrial cancer.

Breast Cancer

The WHI substudy of daily CE (0.625 mg)-alone provided information about breast cancer in estrogen-alone users. In the WHI estrogen-alone substudy, after an average follow-up of 7.1 years, daily CE (0.625 mg)-alone was not associated with an increased risk of invasive breast cancer [relative risk (RR) 0.80].

After a mean follow-up of 5.6 years, the estrogen plus progestin substudy reported an increased risk of invasive breast cancer in women who took daily CE plus MPA. In this substudy, prior use of estrogen-alone or estrogen plus progestin therapy was reported by 26% of the women. The relative risk of invasive breast cancer was 1.24, and the absolute risk was 41 versus 33 cases per 10,000 women-years, for CE plus MPA compared with placebo.

Among women who reported prior use of hormone therapy, the relative risk of invasive breast cancer was 1.86, and the absolute risk was 46 versus 25 cases per 10,000 women-years for CE plus MPA compared with placebo. Among women who reported no prior use of hormone therapy, the relative risk of invasive breast cancer was 1.03, and the absolute risk was 40 versus 36 cases per 10,000 women-years. In the CE plus MPA compared with placebo, in the same substudy, invasive breast cancers were larger, were more likely to be node positive, and were diagnosed at a more advanced stage in the CE (0.625 mg plus MPA (2.5 mg) group compared with the placebo group. Metastatic disease was rare, with no apparent difference between the two groups. Other prognostic factors, such as histologic subtype, grade and hormone receptor status did not differ between the groups (see *Clinical Studies* (14.5)).

Consistent with the WHI clinical trials, observational studies have also reported an increased risk of breast cancer for estrogen plus progestin therapy, and a smaller increased risk for estrogen-alone therapy, after several years of use. One large meta-analysis of prospective cohort studies reported increased risks that were dependent on duration of use and could last up to >10 years after discontinuation of estrogen plus progestin therapy. Extension of the WHI trials also demonstrated increased breast cancer risk associated with estrogen plus progestin therapy. Observational studies also suggest that the risk of breast cancer was greater with estrogen plus progestin therapy compared to estrogen-alone therapy.

However, these studies have not found significant variation in the risk of breast cancer among different estrogen plus progestin combinations, doses, or routes of administration.

The use of estrogen-alone and estrogen plus progestin has been reported to result in an increase in abnormal mammograms, requiring further evaluation.

All women should receive yearly breast examinations by a healthcare provider and perform monthly breast self-examinations. In addition, mammography examinations should be scheduled based on patient age, risk factors, and prior mammogram results.

Ovarian Cancer

The WHI estrogen plus progestin substudy reported a statistically non-significant increased risk of ovarian cancer. After an average follow-up of 5.6 years, the relative risk for ovarian cancer for CE plus MPA versus placebo was 1.58 (95% confidence interval [CI] 0.77-3.24). The absolute risk for CE plus MPA versus placebo was 4 versus 3 cases per 10,000 women-years.

A meta-analysis of 17 prospective and 35 retrospective epidemiology studies found that women who used hormonal therapy for menopausal symptoms had an increased risk for ovarian cancer. The primary analysis, using case-control comparisons, included 12,110 cancer cases from the 17 prospective studies. The relative risks associated with current use of hormonal therapy was 1.41 (95% CI 1.32 to 1.50); there was no difference in the risk estimates by duration of the exposure (less than 5 years (median of 3 years) vs. greater than 5 years (median of 10 years) after the cancer diagnosis). The relative risk associated with combined current and recent use (discontinued use within 5 years before cancer diagnosis) was 1.37 (95% CI 1.27-1.48), and the elevated risk was significant for both estrogen-alone and estrogen plus progestin products. The exact duration of hormone therapy use associated with an increased risk of ovarian cancer, however, is unknown.

5.3 Probable Dementia

In the WHIMS estrogen-alone ancillary study of WHI, a population of 2,947 hysterectomized women 65 to 79 years of age was randomized to daily CE (0.625 mg)-alone or placebo.

After an average follow-up of 5.2 years, 26 women in the estrogen-alone group and 19 women in the placebo group were diagnosed with probable dementia. The relative risk of probable dementia for CE-alone versus placebo was 1.49 (95% CI 0.83-2.68). The absolute risk of probable dementia for CE-alone versus placebo was 37 versus 25 cases per 10,000 women-years (see *Use in Specific Populations* (8.5), and *Clinical Studies* (14.6)).

In the WHIMS estrogen plus progestin ancillary study of WHI, a population of 4,532 postmenopausal women 65 to 79 years of age was randomized to daily CE (0.625 mg) plus MPA (2.5 mg) or placebo. After an average follow-up of 4 years, 40 women in the CE plus MPA group and 21 women in the placebo group were diagnosed with probable dementia. The relative risk of probable dementia for CE plus MPA versus placebo was 1.05 (95% CI 0.21-4.48). The absolute risk of probable dementia for CE plus MPA versus placebo was 45 versus 22 cases per 10,000 women-years (see *Use in Specific Populations* (8.5), and *Clinical Studies* (14.6)).

When data from the two populations in the WHIMS estrogen-alone and estrogen plus progestin ancillary studies 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). Since both substudies were conducted in women 65 to 79 years of age, it is unknown whether these findings apply to younger postmenopausal women (see *Use in Specific Populations* (8.5), and *Clinical Studies* (14.6)).

5.4 Gallbladder Disease

A 2- to 4-fold increase in the risk of gallbladder disease requiring surgery in postmenopausal women receiving estrogens has been reported in the WHIMS study.

Discontinue estrogen if severe hypercholesterolemia, loss of vision, or a sudden onset of proptosis, diplopia, or migraine. If examination reveals papilledema or retinal vascular lesions, estrogens should be permanently discontinued.

5.5 Hypercalcemia

Estrogen administration may lead to severe hypercalcemia in patients with breast cancer and bone metastases. If hypercalcemia occurs, use of the drug should be stopped and appropriate measures taken to reduce the serum calcium level.

5.6 Visual Abnormalities

Retinal vascular thrombosis has been reported in patients receiving estrogens. Discontinue medication pending examination if there is sudden partial or complete loss of vision, or a sudden onset of proptosis, diplopia, or migraine. If examination reveals papilledema or retinal vascular lesions, estrogens should be permanently discontinued.

5.7 Anaphylactic Reaction and Angioedema

Cases of anaphylaxis, which developed within minutes to hours after taking conjugated estrogens tablets and require emergency management, have been reported in the postmarketing setting. Skin rashes, pruritis, swollen lips-tongue-face and other respiratory tract (respiratory compromise) or gastrointestinal tract (abdominal pain, vomiting) involvement has been noted. Angioedema involving the tongue, larynx, face, hands, and feet requiring medical intervention has occurred postmarketing in patients taking conjugated estrogens tablets. If angioedema involves the tongue, glottis, or larynx, airway obstruction may occur. Patients who develop an anaphylactic reaction with or without angioedema after treatment with conjugated estrogens tablets should not receive conjugated estrogens tablets again.

5.8 Addition of a Progestin When a Woman Has Not Had a Hysterectomy

Studies of the addition of a progestin for 10 or more days of a cycle of estrogen administration or daily with estrogen in a continuous regimen, have reported a lowered incidence of endometrial hyperplasia that would be induced by estrogen treatment alone. Endometrial hyperplasia may be a precursor to endometrial cancer.

There are, however, possible risks that may be associated with the use of progestins with estrogens compared to estrogen-alone regimens. These include an increased risk of breast cancer.

5.9 Elevated Blood Pressure

In a small number of case reports, substantial increases in blood pressure have been attributed to idiosyncratic reactions to estrogens. In a large, randomized, placebo-controlled clinical trial, a generalized effect of estrogen therapy on blood pressure was not seen.

5.10 Exacerbation of Hypertigrlyceridemia

In women with pre-existing hypertigrlyceridemia, estrogen therapy may be associated with elevations of plasma triglycerides leading to pancreatitis. Consider discontinuation of treatment if pancreatitis occurs.

5.11 Hepatic Impairment and/or Past History of Cholelithiasis, Jaundice

Estrogens may be poorly metabolized in patients with impaired liver function. For women with a history of cholelithiasis associated with past estrogen use or with pregnancy, caution should be exercised, and in the case of recurrence, medication should be discontinued.

5.12 Exacerbation of Hypothyroidism

Estrogen administration leads to increased thyroid-binding globulin (TBG) levels. Women with normal thyroid function can compensate for the increase in TBG by making more thyroid hormone, thus maintaining free T₄ and T₃ serum concentrations in the normal range. Women dependent on thyroid hormone replacement therapy who are also receiving estrogens may require increased doses of their thyroid replacement therapy. These women should have their thyroid function monitored in order to maintain their free thyroid hormone levels in an acceptable range.

5.13 Fluid Retention

Estrogens may cause some degree of fluid retention. Women with conditions that might be influenced by this factor, such as cardiac or renal dysfunction, warrant careful observation when estrogens are prescribed.

5.14 Hypocalcemia

Estrogen therapy should be used with caution in all patients with hypoparathyroidism as estrogen-induced hypocalcemia may occur.

5.15 Hereditary Angioedema

Dxogenous estrogens may exacerbate symptoms of angioedema in women with

L₁. 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, L₁

Region Evaluated Treatment Group*	No. of Subjects	Baseline (mg) 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
0.625	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
0.625	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
0.625	91	0.89 ± 0.13	1.84 ± 0.44	<0.001
0.3	87	0.86 ± 0.11	0.82 ± 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
0.625	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	

* 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.

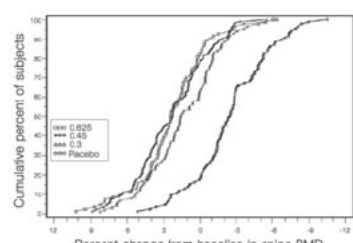


Figure 1. Cumulative Percent of Subjects With Changes From Baseline in Spine BMD of Given Magnitude or Greater in Conjugated Estrogens Tablets and Placebo Groups

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 dosage groups and placebo were found at cycles 6, 13, 19, and 26.

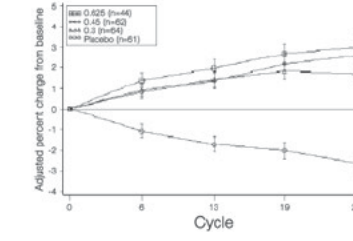


Figure 2. Adjusted Mean (SE) Percent Change From Baseline at Each Cycle in Spine BMD: Subjects Completing in Conjugated Estrogens Tablets Groups and Placebo

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 between groups 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 dose 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 (SD/SDA) of 1.1, 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 CHD (defined as nonfatal 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, 3.9% Other) are presented in Table 5.

Table 5: Relative and Absolute Risk Seen in the Estrogen-Alone Substudy of WHI*

Event	Relative Risk CE vs. Placebo (95% CI)†	CE n = 5,310 Absolute Risk per 10,000 Women-Years	Placebo n = 5,429 Absolute Risk per 10,000 Women-Years
CHD events‡	0.95 (0.78–1.16)	54	57
Non-fatal MI§	0.91 (0.73–1.14)	40	43
CHD death¶	1.07 (0.71–1.63)	16	16
All Stroke	1.33 (1.05–1.69)	45	33
Ischemic stroke**	1.55 (1.19–2.01)	38	25
Deep vein thrombosis††	1.47 (1.05–2.06)	23	15
Pulmonary embolism‡‡	1.37 (0.90–2.07)	14	10
Invasive breast cancer§§	0.80 (0.62–1.04)	28	34
Colorectal cancer¶¶	1.08 (0.75–1.55)	17	16
Hip fracture	0.65 (0.45–0.94)	12	19
Vertebral fractures†††	0.64 (0.44–0.93)	11	18
Lower arm/wrist fractures‡‡‡	0.58 (0.47–0.72)	35	59
Total fractures‡‡‡‡	0.71 (0.64–0.80)	144	197
Death due to other causes‡‡‡‡‡	1.08 (0.88–1.32)	53	50
Overall mortality‡‡‡‡‡‡	1.04 (0.88–1.22)	79	75
Global Index‡‡‡‡‡‡‡	1.02 (0.92–1.13)	206	201

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

† Nominal confidence intervals unadjusted for multiple looks and multiple comparisons.

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

§ Not included in "global index."

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

|| 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 these 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 alone was 12 more strokes while the absolute risk reduction per 10,000 women-years was 7 fewer hip fractures. 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.

‡‡‡ 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] 0.67 [95% CI 0.36–1.09]) and overall mortality [RR] 0.71 [95% CI 0.46–1.17].

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 these 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**

Event	Relative Risk CE/MPA vs. Placebo (95% CI)†	CE/MPA n = 8,506 Absolute Risk per 10,000 Women-Years	Placebo n = 8,102 Absolute Risk per 10,000 Women-Years
CHD events‡	1.23 (0.99–1.53)	41	34
Non-fatal MI§	1.28 (1.00–1.63)	31	25
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††	1.95 (1.43–2.67)	26	13
Pulmonary embolism‡‡	2.13 (1.45–3.11)	18	8
Invasive breast cancer§§	1.24 (1.01–1.54)	41	33
Colorectal cancer¶¶	0.61 (0.42–0.87)	10	16
Endometrial cancer‡‡‡	0.81 (0.48–1.36)	6	7
Cervical cancer‡‡‡‡	1.44 (0.47–4.42)	2	1
Hip fracture	0.67 (0.47–0.96)	11	16
Vertebral fractures†††	0.65 (0.46–0.92)	11	17
Lower arm/wrist fractures‡‡‡‡	0.71 (0.59–0.85)	44	62
Total fractures‡‡‡‡‡	0.76 (0.68–0.83)	152	199
Overall Mortality‡‡‡‡‡‡	1.00 (0.83–1.19)	52	52
Global Index‡‡‡‡‡‡‡	1.13 (1.02–1.25)	184	165

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

† Results are based on centrally adjudicated data.

‡ Nominal confidence intervals unadjusted for multiple looks and multiple comparisons.

§ Not included in "global index."

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

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

** 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 0.83–2.65). 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 (VaD), and mixed types (having features of both AD and VaD). 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, VaD and mixed types (having features of both AD and VaD). 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).)

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- Hendrix SL, et al. Effects of Conjugated Equine Estrogen on Stroke in the Women's Health Initiative. *Circulation*. 2006;113:2425–2434.

16. HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

Conjugated estrogens tablets, USP

- Each white oval biconvex coated tablet contains 0.9 mg, in bottles of 100 (NDC 507 42-390-01) and 1,000 (NDC 507 42-390-10).
- Each yellow oval biconvex coated tablet contains 1.25 mg, in bottles of 100 (NDC 507 42-391-01) and 1,000 (NDC 507 42-391-10).

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-closed 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.

Iss: 05/2025

Rev B

Manufactured for:

Ingenus Pharmaceuticals, LLC

Orlando, FL 32811-7193

Product of China

ingenus

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