INDICATIONS AND USAGE

WARNING: ENDOMETRIAL CANCER, CARDIOVASCULAR DISORDERS, PROBABLE DEMENTIA, and BREAST CANCER, See full prescribing information for complete boxed warning.

1 INDICATIONS AND USAGE

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

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

1.4 Prevention of Postmenopausal Osteoporosis

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- Estrogens increase the risk of gallbladder disease
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FULL PRESCRIBING INFORMATION

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

Estrogen-Alone Therapy

Endometrial Cancer

There is an increased risk of endometrial cancer in a woman with a uterus who uses unopposed estrogens. Adding a progestogen to estrogen therapy has been shown to reduce the risk of endometrial hyperplasia, which may be a precursor to endometrial cancer. Perform adequate diagnostic measures, including directed or random endometrial sampling when indicated to rule out malignancy in postmenopausal women with undiagnosed, persistent or recurring abnormal genital bleeding [see Warnings and Precautions (5.2)].

Cardiovascular Disorders and Probable Dementia

The Women’s Health Initiative (WHI) estrogen-alone substudy reported increased risks of stroke and deep vein thrombosis (DVT) in postmenopausal women (50 to 79 years of age) during 7.1 years of treatment with daily oral conjugated estrogens (CE) [0.625 mg]-alone, relative to placebo [see Warnings and Precautions (5.1), and Clinical Studies (14.3)].

The WHI Memory Study (WHIMS) estrogen-alone ancillary study of the WHI reported an increased risk of developing probable dementia in postmenopausal women 65 years of age and older during 5.2 years of treatment with daily CE (0.625 mg)-alone, relative to placebo. It is unknown whether this finding applies to younger postmenopausal women [see Warnings and Precautions (5.3), Use in Specific Populations (8.5), and Clinical Studies (14.4)].

Do not use estrogen-alone therapy for the prevention of cardiovascular disease or dementia [see Warnings and Precautions (5.1, 5.3), and Clinical Studies (14.3, 14.4)].

Only daily oral 0.625 mg CE was studied in the estrogen-alone substudy of the WHI. Therefore, the relevance of the WHI findings regarding adverse cardiovascular events and dementia to lower CE doses, other routes of administration, or other estrogen-alone products is not known. Without such data, it is not possible to definitively exclude these risks or determine the extent of these risks for other products. Discuss with your patient the benefits and risks of estrogen-alone therapy, taking into account her individual risk profile.

Prescribe estrogens with or without progestogens at the lowest effective doses and for the shortest duration consistent with treatment goals and risks for the individual woman.
Estrogen Plus Progestin Therapy

Cardiovascular Disorders and Probable Dementia

The WHI estrogen plus progestin substudy reported increased risks of DVT, pulmonary embolism (PE), stroke and myocardial infarction (MI) in postmenopausal women (50 to 79 years of age) during 5.6 years of treatment with daily oral CE (0.625 mg) combined with medroxyprogesterone acetate (MPA) [2.5 mg], relative to placebo [see Warnings and Precautions (5.1), and Clinical Studies (14.3)].

The WHIMS estrogen plus progestin ancillary study of the WHI reported an increased risk of developing probable dementia in postmenopausal women 65 years of age and older during 4 years of treatment with daily CE (0.625 mg) combined with MPA (2.5 mg), relative to placebo. It is unknown whether this finding applies to younger postmenopausal women [see Warnings and Precautions (5.3), Use in Specific Populations (8.5), and Clinical Studies (14.4)].

Do not use estrogen plus progestogen therapy for the prevention of cardiovascular disease or dementia [see Warnings and Precautions (5.1, 5.3), and Clinical Studies (14.3, 14.4)].

Breast Cancer

The WHI estrogen plus progestin substudy also demonstrated an increased risk of invasive breast cancer [see Warnings and Precautions (5.2), and Clinical Studies (14.3)].

Only daily oral 0.625 mg CE and 2.5 mg MPA were studied in the estrogen plus progestin substudy of the WHI. Therefore, the relevance of the WHI findings regarding adverse cardiovascular events, dementia and breast cancer to lower CE plus other MPA doses, other routes of administration, or other estrogen plus progestogen products is not known. Without such data, it is not possible to definitively exclude these risks or determine the extent of these risks for other products. Discuss with your patient the benefits and risks of estrogen plus progestogen therapy, taking into account her individual risk profile.

Prescribe estrogens with or without progestogens at the lowest effective doses and for the shortest duration consistent with treatment goals and risks for the individual woman.

1 INDICATIONS AND USAGE

Climara is indicated for:

1.1 Treatment of Moderate to Severe Vasomotor Symptoms due to Menopause

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

Limitation of Use
When prescribing solely for the treatment of moderate to severe symptoms of vulvar and vaginal atrophy due to menopause, first consider the use of topical vaginal products.

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

1.4 Prevention of Postmenopausal Osteoporosis

Limitation of Use
When prescribing solely for the prevention of postmenopausal osteoporosis, first consider the use of non-estrogen medications. Consider estrogen therapy only for women at significant risk of osteoporosis.

2 DOSAGE AND ADMINISTRATION

Generally, when estrogen is prescribed for a postmenopausal woman with a uterus, consider addition of a progestogen to reduce the risk of endometrial cancer. Generally, a woman without a uterus does not need to use a progestogen in addition
to her estrogen therapy. In some cases, however, hysterectomized women who have a history of endometriosis may need a progestogen [see Warnings and Precautions (5.2, 5.14)].

Use estrogen-alone, or in combination with a progestogen at the lowest effective dose and for the shortest duration consistent with treatment goals and risks for the individual woman. Reevaluate postmenopausal women periodically as clinically appropriate to determine if treatment is still necessary.

2.1 Treatment of Moderate to Severe Vasomotor Symptoms due to Menopause
Start therapy with Climara 0.025 mg per day applied to the skin once weekly. Make dosage adjustments based on the clinical response. Attempt to taper or discontinue Climara at 3 to 6 month intervals.

2.2 Treatment of Moderate to Severe Symptoms of Vulvar and Vaginal Atrophy due to Menopause
Start therapy with Climara 0.025 mg per day applied to the skin once weekly. Make dosage adjustments based on the clinical response. Attempt to taper or discontinue Climara at 3 to 6 month intervals.

2.3 Treatment of Hypoestrogenism due to Hypogonadism, Castration, or Primary Ovarian Failure
Start therapy with Climara 0.025 mg per day applied to the skin once weekly. Make dosage adjustments based on the clinical response.

2.4 Prevention of Postmenopausal Osteoporosis
Start therapy with Climara 0.025 mg per day applied to the skin once weekly.

2.5 Application of the Climara Transdermal System

Site Selection
- Place the adhesive side of Climara on a clean, dry area of the lower abdomen or the upper quadrant of the buttock.
- Do not apply Climara to or near the breasts.
- Rotate the sites of application, with an interval of at least 1-week allowed between applications to the same site.
- Select an area that is not oily, damaged, or irritated. Avoid the waistline, since tight clothing may rub the transdermal system off.
- Avoid application to areas where sitting would dislodge Climara.

Application
- Apply Climara immediately after opening the pouch and removing the protective liner.
- Press Climara firmly in place with the fingers for at least 10 seconds, making sure there is good contact, especially around the edges.
- If the system lifts, apply pressure to maintain adhesion.
- In the event that a system falls off, reapply it to a different location. If the old system cannot be reapplied, apply a new system for the remainder of the 7-day dosing interval.
- Wear only one system at any one time during the 7-day dosing interval.
- Swimming, bathing, or using a sauna while using Climara has not been studied, and these activities may decrease the adhesion of the system and the delivery of estradiol.

2.6 Removal of the Climara Transdermal System
- Remove Climara carefully and slowly to avoid irritation of the skin.
- If any adhesive remains on the skin after removal of Climara, allow the area to dry for 15 minutes and then gently rub the area with an oil-based cream or lotion to remove the adhesive residue.
- Used patches still contain some active hormones. Carefully fold each patch in half so that it sticks to itself before throwing it away.
3 DOSAGE FORMS AND STRENGTHS

• Climara (estradiol transdermal system), 0.025 mg per day—each 6.5 cm² system contains 2 mg of estradiol
• Climara (estradiol transdermal system), 0.0375 mg per day—each 9.375 cm² system contains 2.85 mg of estradiol
• Climara (estradiol transdermal system), 0.05 mg per day—each 12.5 cm² system contains 3.8 mg of estradiol
• Climara (estradiol transdermal system), 0.060 mg per day—each 15 cm² system contains 4.55 mg of estradiol
• Climara (estradiol transdermal system), 0.075 mg per day—each 18.75 cm² system contains 5.7 mg of estradiol
• Climara (estradiol transdermal system), 0.1 mg per day—each 25.0 cm² system contains 7.6 mg of estradiol

4 CONTRAINdications

Climara is contraindicated in women with any of the following conditions:

• Undiagnosed abnormal genital bleeding [see Warnings and Precautions (5.2)]
• Breast cancer or history of breast cancer [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 or MI), or a history of these conditions [see Warnings and Precautions (5.1)]
• Known anaphylactic reaction, or angioedema, or hypersensitivity to Climara
• Hepatic impairment or disease
• Protein C, protein S, or antithrombin deficiency, or other known thrombophilic disorders

5 WARNINGS AND PRECAUTIONS

5.1 Cardiovascular Disorders

Increased risks of stroke and DVT are reported with estrogen-alone therapy. Increased risks of PE, DVT, stroke and MI are reported with estrogen plus progestin therapy. Immediately discontinue estrogen with or without progestogen therapy if any of these occur or are suspected.

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

Stroke

The WHI estrogen-alone substudy reported a statistically significant increased risk of stroke 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 strokes per 10,000 women-years, respectively). The increase in risk was demonstrated in year 1 and persisted [see Clinical Studies (14.3)]. Immediately discontinue estrogen-alone therapy if a stroke occurs or is suspected.

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).¹

The WHI estrogen plus progestin substudy reported a statistically significant increased risk of stroke 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 (33 versus 25 strokes per 10,000 women years, respectively) [see Clinical Studies (14.3)]. The increase in risk was demonstrated after the first year and persisted.¹ Immediately discontinue estrogen plus progestogen therapy if a stroke occurs or is suspected.

Coronary Heart Disease

The WHI estrogen-alone substudy reported no overall effect on coronary heart disease (CHD) events (defined as nonfatal MI, silent MI, or CHD death) in women receiving estrogen-alone compared to placebo² [see Clinical Studies (14.3)].
Subgroup analyses of women 50 to 59 years of age, who were less than 10 years since menopause, suggest a reduction (not statistically significant) of CHD events in those women receiving daily CE (0.625 mg)-alone compared to placebo (8 versus 16 per 10,000 women-years).\(^1\)

The WHI estrogen plus progestin substudy reported an increased risk (not statistically significant) of CHD events 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).\(^1\) 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 (14.3)].

In postmenopausal women with documented heart disease (n = 2,763), average 66.7 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 MPA (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 in postmenopausal women with established CHD. There were more CHD events in the CE plus MPA-treated group than in the placebo group in year 1, but not during the subsequent years. Two thousand three hundred 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 plus MPA group and the placebo group in HERS, HERS II, and overall.

**Venous Thromboembolism**

In the WHI estrogen-alone substudy, the risk of VTE (DVT and PE) was increased for women receiving daily CE (0.625 mg)-alone compared to placebo (30 versus 22 per 10,000 women-years), although only the increased risk of DVT reached statistical significance (23 versus 15 per 10,000 women-years). The increase in VTE risk was demonstrated during the first 2 years\(^3\) [see Clinical Studies (14.3)]. Immediately discontinue estrogen-alone therapy if a VTE occurs or is suspected.

The WHI estrogen plus progestin substudy reported a statistically significant 2-fold greater rate of VTE 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\(^4\) [see Clinical Studies (14.3)]. Immediately discontinue estrogen plus progestogen therapy if a VTE occurs or is suspected.

If feasible, discontinue estrogens 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 risk appears 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 progestogen therapy is important. Perform adequate diagnostic measures, including directed or random endometrial sampling when indicated, to rule out malignancy in postmenopausal women with undiagnosed persistent or recurring abnormal genital bleeding with unknown etiology.

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 progestogen to estrogen therapy in postmenopausal women 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]\(^5\) [see Clinical Studies (14.3)].
After a mean follow-up of 5.6 years, the WHI substudy of daily CE (0.625 mg) plus MPA (2.5 mg) reported an increased risk of invasive breast cancer in women who took daily CE plus MPA compared to placebo.

In this substudy, prior use of estrogen-alone or estrogen plus progestin therapy was reported by 26 percent 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 1.09, and the absolute risk was 40 versus 36 cases per 10,000 women-years for 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 (14.3)].

Consistent with the WHI clinical trial, observational studies have also reported an increased risk of breast cancer with estrogen plus progestin therapy, and a smaller increase in the risk for breast cancer with estrogen-alone therapy, after several years of use. The risk increased with duration of use and appeared to return to baseline over about 5 years after stopping treatment (only the observational studies have substantial data on risk after stopping). Observational studies also suggest that the risk of breast cancer was greater, and became apparent earlier, with estrogen plus progestin therapy as compared to estrogen-alone therapy. These studies have not generally 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 CE plus MPA substudy of WHI reported that estrogen plus progestin increased the risk of ovarian cancer. After an average follow-up of 5.6 years, the relative risk for CE plus MPA versus placebo was 1.58 (95 percent CI, 0.77-3.24), but it was not statistically significant. 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% confidence interval [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] of use before 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 to 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 WHI Memory Study (WHIMS) estrogen-alone ancillary study, 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, 28 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 percent 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 [see Use in Specific Populations (8.5), and Clinical Studies (14.4)].

In the WHIMS estrogen plus progestin ancillary study, 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 2.05 (95 percent CI, 1.21-3.48). 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 (14.4)].
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 percent CI, 1.19—2.60). Since both ancillary studies 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 (14.4)].

**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.

**5.5 Hypercalcemia**

Estrogen administration may lead to severe hypercalcemia in women with breast cancer and bone metastases. Discontinue estrogens, including Climara if hypercalcemia occurs, and take appropriate measures to reduce the serum calcium level.

**5.6 Visual Abnormalities**

Retinal vascular thrombosis has been reported in women receiving estrogens. Discontinue Climara pending examination if there is sudden partial or complete loss of vision, or a sudden onset of proptosis, diplopia, or migraine. Permanently discontinue estrogens, including Climara, if examination reveals papilledema or retinal vascular lesions.

**5.7 Addition of a Progestogen When a Woman Has Not Had a Hysterectomy**

Studies of the addition of a progestogen 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 than 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 progestogens with estrogens compared to estrogen-alone regimens. These include an increased risk of breast cancer.

**5.8 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 estrogens on blood pressure was not seen.

**5.9 Exacerbation of Hypertriglyceridemia**

In women with pre-existing hypertriglyceridemia, estrogen therapy may be associated with elevations of plasma triglycerides leading to pancreatitis. Discontinue Climara if pancreatitis occurs.

**5.10 Hepatic Impairment and/or Past History of Cholestatic Jaundice**

Estrogens may be poorly metabolized in women with hepatic impairment. Exercise caution in any woman with a history of cholestatic jaundice associated with past estrogen use or with pregnancy. In the case of recurrence of cholestatic jaundice, discontinue Climara.

**5.11 Exacerbation of Hypothyroidism**

Estrogen administration leads to increased thyroid-binding globulin (TBG) levels. Women with normal thyroid function can compensate for the increased 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. Monitor thyroid function in these women during treatment with Climara to maintain their free thyroid hormone levels in an acceptable range.

**5.12 Fluid Retention**

Estrogens may cause some degree of fluid retention. Monitor any woman with a condition(s) that might predispose her to fluid retention, such as a cardiac or renal impairment. Discontinue estrogen-alone therapy, including Climara, with evidence of medically concerning fluid retention.

**5.13 Hypocalcemia**

Estrogen-induced hypocalcemia may occur in women with hypoparathyroidism. Consider whether the benefits of estrogen therapy, including Climara, outweigh the risks in such women.
5.14 Exacerbation of Endometriosis
A few cases of malignant transformation of residual endometrial implants have been reported in women treated post-hysterectomy with estrogen-alone therapy. Consider the addition of progestogen therapy for women known to have residual endometriosis post-hysterectomy.

5.15 Hereditary Angioedema
Exogenous estrogens may exacerbate symptoms of angioedema in women with hereditary angioedema. Consider whether the benefits of estrogen therapy, including Climara, outweigh the risks in such women.

5.16 Exacerbation of Other Conditions
Estrogen therapy, including Climara, may cause an exacerbation of asthma, diabetes mellitus, epilepsy, migraine, porphyria, systemic lupus erythematosus, and hepatic hemangiomas. Consider whether the benefits of estrogen therapy outweigh the risks in such women.

5.17 Laboratory Tests
Serum follicle stimulating hormone (FSH) and estradiol levels have not been shown to be useful in the management of postmenopausal women with moderate to severe vasomotor symptoms and moderate to severe symptoms of vulvar and vaginal atrophy.
Laboratory parameters may be useful in guiding Climara dosage for the treatment of hypoestrogenism due to hypogonadism, castration and primary ovarian failure.

5.18 Drug-Laboratory Test Interactions
- Accelerated prothrombin time, partial thromboplastin time, and platelet aggregation time; increased platelet count; increased factors II, VII antigen, VIII antigen, VIII coagulant activity, IX, X, XII, VII-X complex, II-VII-X complex, and beta-thromboglobulin; decreased levels of antifactor Xa and antithrombin III, decreased antithrombin III activity; increased levels of fibrinogen and fibrinogen activity; increased plasminogen antigen and activity.
- Increased TBG levels leading to increased circulating total thyroid hormone, as measured by protein-bound iodine (PBI), T4 levels (by column or by radioimmunoassay) or T3 levels by radioimmunoassay. T3 resin uptake is decreased, reflecting the elevated TBG. Free T4 and free T3 concentrations are unaltered. Women on thyroid replacement therapy may require higher doses of thyroid hormone.
- Other binding proteins may be elevated in serum, for example, corticosteroid binding globulin (CBG), sex hormone-binding globulin (SHBG), leading to increased total circulating corticosteroids and sex steroids, respectively. Free hormone concentrations, such as testosterone and estradiol, may be decreased. Other plasma proteins may be increased (angiotensinogen-renin substrate, alpha-1-antitrypsin, ceruloplasmin).
- Increased plasma high-density lipoprotein (HDL) and HDL2 cholesterol subfraction concentrations, reduced low-density lipoprotein (LDL) cholesterol concentration, and increased triglyceride levels.
- Impaired glucose tolerance.

6 ADVERSE REACTIONS
The following serious adverse reactions are discussed elsewhere in the labeling:
- Cardiovascular Disorders [see Boxed Warning, and Warnings and Precautions (5.1)]
- Malignant Neoplasms [see Boxed Warning, and Warnings and Precautions (5.2)]

6.1 Clinical Trials Experience
Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.
The data described below reflect pooled data from 5 clinical trials of Climara. A total of 614 women were exposed to Climara for 3 months (193 women at 0.025 mg per day, 201 women at 0.05 mg per day, 194 women at 0.1 mg per day) in randomized, double-blind trials of clinical efficacy versus placebo and versus active comparator. All women were postmenopausal, had a serum estradiol level of less than 20 pg/mL, and a minimum of five moderate to severe hot flushes
per week or a minimum of 15 hot flushes per week of any severity at baseline. Included in this table are an additional 25 postmenopausal hysterectomized women exposed to Climara 0.025 mg per day for 6 to 24 months (N=16 at 24 months) in a randomized, double-blind, placebo-controlled study of Climara for the prevention of osteoporosis.

Table 1: Treatment-Emergent Adverse Reactions Reported at a Frequency of ≥5 Percent and More Frequent in Women Receiving Climara

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<tbody>
<tr>
<td></td>
<td>0.025 mg/day&lt;sup&gt;a&lt;/sup&gt; (N=219)</td>
<td>0.05 mg/day&lt;sup&gt;b&lt;/sup&gt; (N=201)</td>
<td>0.1 mg/day&lt;sup&gt;b&lt;/sup&gt; (N=194)</td>
<td>Placebo&lt;sup&gt;c&lt;/sup&gt; (N=72)</td>
</tr>
<tr>
<td>Body as a Whole</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Headache</td>
<td>21%</td>
<td>39%</td>
<td>37%</td>
<td>29%</td>
</tr>
<tr>
<td>Pain</td>
<td>5%</td>
<td>18%</td>
<td>13%</td>
<td>10%</td>
</tr>
<tr>
<td>Back Pain</td>
<td>1%</td>
<td>8%</td>
<td>11%</td>
<td>7%</td>
</tr>
<tr>
<td>Edema</td>
<td>4%</td>
<td>8%</td>
<td>9%</td>
<td>6%</td>
</tr>
<tr>
<td>Flatulence</td>
<td>0.5%</td>
<td>13%</td>
<td>10%</td>
<td>6%</td>
</tr>
<tr>
<td>Digestive System</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abdominal Pain</td>
<td>9%</td>
<td>21%</td>
<td>29%</td>
<td>18%</td>
</tr>
<tr>
<td>Nausea</td>
<td>0%</td>
<td>11%</td>
<td>16%</td>
<td>8%</td>
</tr>
<tr>
<td>Flatulence</td>
<td>1%</td>
<td>3%</td>
<td>7%</td>
<td>1%</td>
</tr>
<tr>
<td>Musculoskeletal System</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arthralgia</td>
<td>7%</td>
<td>9%</td>
<td>11%</td>
<td>4%</td>
</tr>
<tr>
<td>Nervous System</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depression</td>
<td>1%</td>
<td>10%</td>
<td>11%</td>
<td>1%</td>
</tr>
<tr>
<td>Urogenital System</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Breast Pain</td>
<td>12%</td>
<td>18%</td>
<td>41%</td>
<td>11%</td>
</tr>
<tr>
<td>Leukorrhea</td>
<td>5%</td>
<td>8%</td>
<td>29%</td>
<td>4%</td>
</tr>
<tr>
<td>Respiratory System</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>URTI</td>
<td>15%</td>
<td>26%</td>
<td>29%</td>
<td>14%</td>
</tr>
<tr>
<td>Pharyngitis</td>
<td>6%</td>
<td>17%</td>
<td>17%</td>
<td>8%</td>
</tr>
<tr>
<td>Sinusitis</td>
<td>0.5%</td>
<td>3%</td>
<td>7%</td>
<td>3%</td>
</tr>
<tr>
<td>Rhinitis</td>
<td>4%</td>
<td>4%</td>
<td>5%</td>
<td>3%</td>
</tr>
<tr>
<td>Skin and Appendages</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pruritus</td>
<td>19%</td>
<td>12%</td>
<td>12%</td>
<td>15%</td>
</tr>
</tbody>
</table>

6.2 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of Climara. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Genitourinary System
Changes in bleeding pattern, pelvic pain

Breast
Breast cancer, breast pain, breast tenderness

Cardiovascular
Changes in blood pressure, palpitations, hot flashes

Gastrointestinal
Vomiting, abdominal pain, abdominal distension, nausea

---

<sup>a</sup> Adverse reactions occurring at rate of ≥5 percent in Climara trials of clinical efficacy versus placebo and versus active comparator; and trial of Climara versus placebo for the prevention of osteoporosis

<sup>b</sup> Adverse reactions occurring at rate of ≥5 percent in Climara trials of clinical efficacy versus placebo and versus active comparator

<sup>c</sup> Adverse reactions occurring in placebo group in Climara trial of clinical efficacy versus placebo
Skin
Alopecia, hyperhidrosis, night sweats, urticaria, rash

Eyes
Visual disturbances, contact lens intolerance,

Central Nervous System
Depression, migraine, paresthesia, dizziness, anxiety, irritability, mood swings, nervousness, insomnia, headache

Miscellaneous
Fatigue, menopausal symptoms, weight increase, application site reaction, anaphylactic reactions

7 DRUG INTERACTIONS

In vitro and in vivo studies have shown that estrogens are metabolized partially by cytochrome P450 3A4 (CYP3A4). Therefore, inducers or inhibitors of CYP3A4 may affect estrogen drug metabolism. Inducers of CYP3A4 such as St. John’s wort (hypericum perforatum) preparations, phenobarbital, carbamazepine, and rifampin may reduce plasma concentrations of estrogens, possibly resulting in a decrease in therapeutic effects and/or changes in the uterine bleeding profile. Inhibitors of CYP3A4 such as erythromycin, clarithromycin, ketoconazole, itraconazole, ritonavir and grapefruit juice may increase plasma concentrations of estrogens and may result in adverse reactions.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary
Climara is not indicated for use in pregnancy. There are no data with the use of Climara in pregnant women; however, epidemiologic studies and meta-analyses have not found an increased risk of genital or nongenital birth defects (including cardiac anomalies and limb-reduction defects) following exposure to combined hormonal contraceptives (estrogens and progestins) before conception or during early pregnancy.

In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

8.2 Lactation

Risk Summary
Estrogens are present in human milk and can reduce milk production in breast-feeding women. This reduction can occur at any time but is less likely to occur once breast-feeding is well-established. The developmental and health benefits of breastfeeding should be considered along with the mother’s clinical need for Climara and any potential adverse effects on the breastfed child from Climara or from the underlying maternal condition.

8.4 Pediatric Use

In general, Climara is not indicated for use in pediatric patients. Clinical studies have not been conducted in the pediatric population.

If estrogen is administered to patients whose bone growth is not complete, periodic monitoring of bone metabolism and effects on epiphyseal centers is recommended during estrogen administration.

8.5 Geriatric Use

There have not been sufficient numbers of geriatric women involved in clinical studies utilizing Climara to determine whether those over 65 years of age differ from younger subjects in their response to Climara.

The Women’s Health Initiative Studies

In the WHI estrogen-alone substudy (daily CE [0.625 mg]-alone versus placebo), there was a higher relative risk of stroke in women greater than 65 years of age [see Clinical Studies (14.3)].
In the WHI estrogen plus progestin substudy (daily CE [0.625 mg] plus MPA [2.5 mg] versus placebo), there was a higher relative risk of nonfatal stroke and invasive breast cancer in women greater than 65 years of age [see Clinical Studies (14.3)].

The Women’s Health Initiative Memory Study

In the WHIMS ancillary studies of postmenopausal women 65 to 79 years of age, there was an increased risk of developing probable dementia in women receiving estrogen-alone or estrogen plus progestin when compared to placebo [see Warnings and Precautions (5.3), and Clinical Studies (14.4)].

Since both ancillary studies were 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 Clinical Studies (14.4)].

10 OVERDOSAGE

Overdosage of estrogen may cause nausea, vomiting, breast tenderness, abdominal pain, drowsiness and fatigue, and withdrawal bleeding in women. Treatment of overdose consists of discontinuation of Climara therapy with institution of appropriate symptomatic care.

11 DESCRIPTION

Climara (estradiol transdermal system), is designed to release estradiol continuously upon application to intact skin. Six (6.5, 9.375, 12.5, 15, 18.75 and 25 cm\(^2\)) systems are available to provide nominal in vivo delivery of 0.025, 0.0375, 0.05, 0.06, 0.075 or 0.1 mg respectively of estradiol per day. The period of use is 7 days. Each system has a contact surface area of either 6.5, 9.375, 12.5, 15, 18.75 or 25 cm\(^2\), and contains 2, 2.85, 3.8, 4.55, 5.7 or 7.6 mg of estradiol USP respectively. The composition of the systems per unit area is identical.

Estradiol USP is a white, crystalline powder, chemically described as estra-1,3,5(10)-triene-3, 17β-diol. It has an empirical formula of C\(_{18}\)H\(_{24}\)O\(_2\) and molecular weight of 272.38. The structural formula is:

![Structural formula of estradiol USP](image)

The Climara transdermal system comprises three layers. Proceeding from the visible surface toward the surface attached to the skin, these layers are:

1. A translucent polyethylene film.
2. An acrylate adhesive matrix containing estradiol USP.
3. A protective liner of siliconized or fluoropolymer-coated polyester film is attached to the adhesive surface and must be removed before the system can be used.

The active component of the transdermal system is estradiol. The remaining components of the transdermal system (acrylate copolymer adhesive, fatty acid esters, and polyethylene backing) are pharmacologically inactive.
12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Endogenous estrogens are largely responsible for the development and maintenance of the female reproductive system and secondary sexual characteristics. Although circulating estrogens exist in a dynamic equilibrium of metabolic interconversions, estradiol is the principal intracellular human estrogen and is substantially more potent than its metabolites, estrone and estriol at the receptor level.

The primary source of estrogen in normally cycling adult women is the ovarian follicle, which secretes 70 to 500 mcg of estradiol daily, depending on the phase of the menstrual cycle. After menopause, most endogenous estrogen is produced by conversion of androstenedione, which is secreted by the adrenal cortex, to estrone in the peripheral tissues. Thus, estrone and the sulfate conjugated form, estrone sulfate, are the most abundant circulating estrogens in postmenopausal women.

Estrogens act through binding to nuclear receptors in estrogen-responsive tissues. To date, two estrogen receptors have been identified. These vary in proportion from tissue to tissue.

Circulating estrogens modulate the pituitary secretion of the gonadotropins, luteinizing hormone (LH) and FSH, through a negative feedback mechanism. Estrogens act to reduce the elevated levels of these hormones seen in postmenopausal women.

12.2 Pharmacodynamics

Generally, a serum estrogen concentration does not predict an individual woman’s therapeutic response to Climara nor her risk for adverse outcomes. Likewise, exposure comparisons across different estrogen products to infer efficacy or safety for the individual woman may not be valid.

12.3 Pharmacokinetics

Absorption

Transdermal administration of Climara produces mean serum concentrations of estradiol comparable to those produced by premenopausal women in the early follicular phase of the ovulatory cycle. The pharmacokinetics of estradiol following application of the Climara transdermal system were investigated in 197 healthy postmenopausal women in six studies. In five of the studies, the Climara transdermal system was applied to the abdomen, and in a sixth study, application to the buttocks and abdomen were compared.

The Climara transdermal delivery system continuously releases estradiol which is transported across intact skin leading to sustained circulating levels of estradiol during a 7-day treatment period. The systemic availability of estradiol after transdermal administration is about 20 times higher than that after oral administration. This difference is due to the absence of first pass metabolism when estradiol is given by the transdermal route.

In a bioavailability study, the Climara 6.5 cm² was studied with the Climara 12.5 cm² as reference. The mean estradiol levels in serum from the two sizes are shown in Figure 1.
Dose proportionality was demonstrated for the Climara 6.5 cm² transdermal system as compared to the Climara 12.5 cm² transdermal system in a 2-week crossover study with a 1-week washout period between the two-transdermal systems in 24 postmenopausal women.

Dose proportionality was also demonstrated for the Climara transdermal system (12.5 cm² and 25 cm²) in a 1-week study conducted in 54 postmenopausal women. The mean steady state levels ($C_{avg}$) of the estradiol during the application of Climara 25 cm² and 12.5 cm² on the abdomen were about 80 and 40 pg/mL, respectively.

In a 3-week multiple application study in 24 postmenopausal women, the 25 cm² Climara transdermal system produced average peak estradiol concentrations ($C_{max}$) of approximately 100 pg/mL. Trough values at the end of each wear interval ($C_{min}$) were approximately 35 pg/mL. Nearly identical serum curves were seen each week, indicating little or no accumulation of estradiol in the body. Serum estrone peak and trough levels were 60 and 40 pg/mL, respectively.

In a single dose, randomized, crossover study conducted to compare the effect of site of application, 38 postmenopausal women wore a single Climara 25 cm² transdermal system for 1 week on the abdomen and buttocks. The estradiol serum concentration profiles are shown in Figure 2. Values of $C_{max}$ and $C_{avg}$ were, respectively, 25 percent and 17 percent higher with the buttock application than with the abdomen application.
Table 2 provides a summary of estradiol pharmacokinetic parameters determined during evaluation of the Climara transdermal system.

Table 2: Pharmacokinetic Summary (Mean Estradiol Values)

<table>
<thead>
<tr>
<th>Climara Delivery Rate</th>
<th>Surface Area (cm²)</th>
<th>Application Site</th>
<th>No. of Subjects</th>
<th>Dosing</th>
<th>C_max (pg/mL)</th>
<th>C_min (pg/mL)</th>
<th>C_avg (pg/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.025</td>
<td>6.5</td>
<td>Abdomen</td>
<td>24</td>
<td>Single</td>
<td>32</td>
<td>17</td>
<td>22</td>
</tr>
<tr>
<td>0.05</td>
<td>12.5</td>
<td>Abdomen</td>
<td>102</td>
<td>Single</td>
<td>71</td>
<td>29</td>
<td>41</td>
</tr>
<tr>
<td>0.1</td>
<td>25</td>
<td>Abdomen</td>
<td>139</td>
<td>Single</td>
<td>147</td>
<td>60</td>
<td>87</td>
</tr>
<tr>
<td>0.1</td>
<td>25</td>
<td>Buttock</td>
<td>38</td>
<td>Single</td>
<td>174</td>
<td>71</td>
<td>106</td>
</tr>
</tbody>
</table>

The relative standard deviation of each pharmacokinetic parameter after application to the abdomen averaged 50 percent, which is indicative of the considerable intersubject variability associated with transdermal drug delivery. The relative standard deviation of each pharmacokinetic parameter after application to the buttock was lower than that after application to the abdomen (for example, for C_max 39 percent versus 62 percent, and for C_avg 35 percent versus 48 percent).

Distribution
The distribution of exogenous estrogens is similar to that of endogenous estrogens. Estrogens are widely distributed in the body and are generally found in higher concentrations in the sex hormone target organs. Estrogens circulate in the blood largely bound to SHBG and albumin.

Metabolism
Exogenous estrogens are metabolized in the same manner as endogenous estrogens. Circulating estrogens exist in a dynamic equilibrium of metabolic interconversions. These transformations take place mainly in the liver. Estradiol is converted reversibly to estrone, and both can be converted to estriol, which is a major urinary metabolite. Estrogens also undergo enterohepatic recirculation via sulfate and glucuronide conjugation in the liver, biliary secretion of conjugates into the intestine, and hydrolysis in the intestine followed by reabsorption. In postmenopausal women, a significant proportion of the circulating estrogens exist as sulfate conjugates, especially estrone sulfate, which serves as a circulating reservoir for the formation of more active estrogens.

Excretion
Estradiol, estrone, and estriol are excreted in the urine along with glucuronide and sulfate conjugates.
An open-label study of adhesion potentials of placebo transdermal systems that correspond to the 6.5 cm² and 12.5 cm² sizes of Climara was conducted in 112 healthy women of 45 to 75 years of age. Each woman applied both transdermal systems weekly, on the upper outer abdomen, for 3 consecutive weeks. It should be noted that lower abdomen and upper quadrant of the buttock are the approved sites of application for Climara.

The adhesion assessment was done visually on Days 2, 4, 5, 6, 7 of each week of transdermal system wear. A total of 1,654 adhesion observations were conducted for 333 transdermal systems of each size.

Of these observations, approximately 90 percent showed essentially no lift for both the 6.5 cm² and 12.5 cm² transdermal systems. Of the total number of transdermal systems applied, approximately 5 percent showed complete detachment for each size. Adhesion potentials of the 18.75 cm² and 25 cm² sizes of transdermal systems (0.075 mg per day and 0.1 mg per day) have not been studied.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term continuous administration of natural and synthetic estrogens in certain animal species increases the frequency of carcinomas of the breast, uterus, cervix, vagina, testis, and liver.

14 CLINICAL STUDIES

14.1 Effects on Vasomotor Symptoms in Postmenopausal Women

A study of 214 women 25 to 74 years of age met the qualification criteria and were randomly assigned to one of the three treatment groups: 72 to the 0.05 mg estradiol patch, 70 to the 0.1 mg estradiol patch, and 72 to placebo. Potential participants were postmenopausal women in good general health who experienced vasomotor symptoms. Natural menopause patients had not menstruated for at least 12 months and surgical menopause patients had undergone bilateral oophorectomy at least 4 weeks before evaluation for study entry. In order to enter the 11-week treatment phase of the study, potential participants must have experienced a minimum of five moderate to severe hot flushes per week, or a minimum of 15 hot flushes of any severity per week, for 2 consecutive weeks. Women wore the patches in a cyclical fashion (three weeks on and one week off).

During treatment, all women used diaries to record the number and severity of hot flushes. Women were monitored by clinic visits at the end of weeks 1, 3, 7, and 11 and by telephone at the end of weeks 4, 5, 8, and 9.

Adequate data for the analysis of efficacy was available from 191 subjects. The results are presented as the mean ± SD number of flushes in each of the 3 treatment weeks of each 4-week cycle. In the 0.05 mg estradiol group, the mean weekly hot flush rate across all treatment cycles decreased from 46 ± 6.5 at baseline to 20 ± 3 (-67 percent). The 0.1 mg estradiol group had a decline in the mean weekly hot flush rate from 52 ± 4.4 at baseline to 16 ± 2.4 (-72 percent). In the placebo group, the mean weekly hot flush rate declined from 53 ± 4.5 at baseline to 46 ± 6.5 (-18.1 percent). Compared with placebo, the 0.05 mg and 0.1 mg estradiol groups showed a statistically significantly larger mean decrease in hot flushes across all treatment cycles (P<0.05). When the response to treatment was analyzed for each of the three cycles of therapy, similar statistically significant differences were observed between both estradiol treatment groups and the placebo group during all treatment cycles.

In a double-blind, placebo-controlled, randomized study of 187 women receiving Climara 0.025 mg per day or placebo continuously for up to three 28-day cycles, the Climara 0.025 mg per day dosage was shown to be statistically better than placebo at weeks 4 and 12 for relief of both the frequency and severity of moderate to severe vasomotor symptoms.
Table 3: Mean Change from Baseline in the Number of Moderate to Severe Vasomotor Symptoms Intent to Treat (ITT)

<table>
<thead>
<tr>
<th>Treatment Group</th>
<th>Statistics</th>
<th>Week 4</th>
<th>Week 8</th>
<th>Week 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>E₂ Transdermal System</td>
<td>N</td>
<td>82</td>
<td>84</td>
<td>68</td>
</tr>
<tr>
<td></td>
<td>Mean</td>
<td>-6.45</td>
<td>-7.69</td>
<td>-7.56</td>
</tr>
<tr>
<td></td>
<td>SD</td>
<td>4.65</td>
<td>4.76</td>
<td>4.64</td>
</tr>
<tr>
<td>Placebo</td>
<td>N</td>
<td>83</td>
<td>71</td>
<td>65</td>
</tr>
<tr>
<td></td>
<td>Mean</td>
<td>-5.11</td>
<td>-5.98</td>
<td>-5.98</td>
</tr>
<tr>
<td></td>
<td>SD</td>
<td>7.43</td>
<td>8.63</td>
<td>9.69</td>
</tr>
<tr>
<td></td>
<td>p-value</td>
<td>&lt;0.002</td>
<td>&lt;0.003</td>
<td></td>
</tr>
</tbody>
</table>

A second active-control trial of 193 randomized women was supportive of the placebo-controlled trial.

14.2 Effects on Bone Mineral Density in Postmenopausal Women

A two-year clinical trial enrolled a total of 175 healthy, hysterectomized, postmenopausal, non-osteoporotic (that is, lumbar spine bone mineral density >0.9 gm/cm²) women at 10 study centers in the United States. A total of 129 participating women were allocated to receive active treatment with 4 different doses of estradiol patches (6.5, 12.5, 15, 25 cm²) and 46 participating women were allocated to receive placebo patches. Seventy-seven percent of the randomized women (100 on active drug and 34 on placebo) contributed data to the analysis of percent change of anterior-posterior (A-P) spine BMD, the primary efficacy variable (see Figure 3). A statistically significant overall treatment effect at each timepoint was noted, implying bone preservation for all active treatment groups at all timepoints, as opposed to bone loss for placebo at all timepoints.

Figure 3: Mean Percent Change from Baseline in Lumbar Spine (A-P View) Bone Mineral Density By Treatment and Time Last Observation Carried Forward

Percent change in BMD of the total hip (see Figure 4) was also statistically significantly different from placebo for all active treatment groups. This figure is based on 74 percent of the randomized women (95 on active drug and 34 on placebo).
14.3 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, 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 risk 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 percent White, 15.1 percent Black, 6.1 percent Hispanic, 3.6 percent Other) after an average follow-up of 7.1 years, are presented in Table 4.

Table 4. Relative and Absolute Risk Seen in the Estrogen-Alone Substudy of WHI

<table>
<thead>
<tr>
<th>Event</th>
<th>Relative Risk CE vs. Placebo (95% nCI)</th>
<th>CE n = 5,310</th>
<th>Placebo n = 5,429</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHD events</td>
<td>0.95 (0.78-1.16)</td>
<td>54</td>
<td>57</td>
</tr>
<tr>
<td>Non-fatal MI</td>
<td>0.91 (0.73-1.14)</td>
<td>40</td>
<td>43</td>
</tr>
<tr>
<td>CHD death</td>
<td>1.01 (0.71-1.43)</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>All strokes</td>
<td>1.33 (1.05-1.68)</td>
<td>45</td>
<td>33</td>
</tr>
<tr>
<td>Ischemic stroke</td>
<td>1.55 (1.19-2.01)</td>
<td>38</td>
<td>25</td>
</tr>
<tr>
<td>Deep vein thrombosis</td>
<td>1.47 (1.06-2.06)</td>
<td>23</td>
<td>15</td>
</tr>
<tr>
<td>Pulmonary embolism</td>
<td>1.37 (0.9-2.07)</td>
<td>14</td>
<td>10</td>
</tr>
<tr>
<td>Invasive breast cancer</td>
<td>0.80 (0.62-1.04)</td>
<td>28</td>
<td>34</td>
</tr>
<tr>
<td>Colorectal cancer</td>
<td>1.08 (0.75-1.55)</td>
<td>17</td>
<td>16</td>
</tr>
<tr>
<td>Hip fracture</td>
<td>0.65 (0.45-0.94)</td>
<td>12</td>
<td>19</td>
</tr>
<tr>
<td>Vertebral fractures</td>
<td>0.64 (0.44-0.93)</td>
<td>11</td>
<td>18</td>
</tr>
<tr>
<td>Lower arm/wrist fractures</td>
<td>0.58 (0.47-0.72)</td>
<td>35</td>
<td>59</td>
</tr>
<tr>
<td>Total fractures</td>
<td>0.71 (0.64-0.80)</td>
<td>144</td>
<td>197</td>
</tr>
</tbody>
</table>

**Note:** nCI = confidence interval.
Death due to causes\textsuperscript{e,f} & 1.08 (0.88-1.32) & 53 & 50 \\
Overall mortality\textsuperscript{c,d} & 1.04 (0.88-1.22) & 79 & 75 \\
Global Index\textsuperscript{g} & 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 or 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, endometrial cancer, 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 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.\textsuperscript{9} 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 4.  

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 the distribution of stroke subtype and severity, including fatal strokes, in women receiving estrogen-alone compared to placebo. Estrogen-alone increased the risk of ischemic stroke, and this excess risk was present in all subgroups of women examined.\textsuperscript{10} See Table 4.  

Timing of 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 to 59 years of age a non-significant trend toward reduced risk for CHD [hazard ratio (HR) 0.63 (95 percent CI, 0.36-1.09)] and overall mortality [HR 0.71 (95 percent 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 reduction per 10,000 women-years were 6 fewer colorectal cancers and 5 fewer hip fractures.  

Results of the CE plus MPA substudy, which included 16,608 women (average 63 years of age, range 50 to 79; 83.9 percent White, 6.5 percent Black, 5.4 percent Hispanic, 3.9 percent Other), are presented in Table 5. These results reflect centrally adjudicated data after an average follow-up of 5.6 years.  

**Table 5: Relative and Absolute Risk Seen in the Estrogen Plus Progestin Substudy of WHI at an Average of 5.6 Years** \textsuperscript{a,b}  

<table>
<thead>
<tr>
<th>Event</th>
<th>Relative Risk CE/MPA vs. placebo (95% nCI)</th>
<th>CE/MPA n = 8,506</th>
<th>Placebo n = 8,102</th>
<th>Absolute Risk per 10,000 Women-years</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHD events</td>
<td>1.23 (0.99-1.53)</td>
<td>41</td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>Non-fatal MI</td>
<td>1.28 (1.00-1.63)</td>
<td>31</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>CHD death</td>
<td>1.10 (0.70-1.75)</td>
<td>8</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>
Timing of initiation of estrogen plus progestin 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 to 59 years of age a nonsignificant trend toward reduced risk for overall mortality [HR 0.69 (95 percent CI, 0.44-1.07)].

### 14.4 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 and older (45 percent were 65 to 69 years of age; 36 percent were 70 to 74 years of age; 19 percent 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 percent 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 the 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 group 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 (8.5)].

The WHIMS estrogen plus progestin ancillary study enrolled 4,532 predominantly healthy postmenopausal women 65 years of age and older (47 percent were 65 to 69 years of age; 35 percent were 70 to 74 years of age; and 18 percent 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 versus placebo was 2.05 (95 percent CI, 1.21-3.48). The absolute risk of probable dementia for CE plus MPA versus placebo was 45 versus 22 cases per 10,000 women-years. Probable dementia as defined in the study included AD, 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 group 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 (8.5)].

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 percent 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 (8.5)].
15 REFERENCES

16 HOW SUPPLIED/STORAGE AND HANDLING
16.1 How Supplied
Climara (estradiol transdermal system), 0.025 mg per day — each 6.5 cm² system contains 2 mg of estradiol USP Individual Carton of 4 systems NDC 50419-454-04
Climara (estradiol transdermal system), 0.0375 mg per day — each 9.375 cm² system contains 2.85 mg of estradiol USP Individual Carton of 4 systems NDC 50419-456-04
Climara (estradiol transdermal system), 0.05 mg per day — each 12.5 cm² system contains 3.8 mg of estradiol USP Individual Carton of 4 systems NDC 50419-451-04
Climara (estradiol transdermal system), 0.06 mg per day — each 15 cm² system contains 4.55 mg of estradiol USP Individual Carton of 4 systems NDC 50419-459-04
Climara (estradiol transdermal system), 0.075 mg per day — each 18.75 cm² system contains 5.7 mg of estradiol USP Individual Carton of 4 systems NDC 50419-453-04
Climara (estradiol transdermal system), 0.1 mg per day — each 25 cm² system contains 7.6 mg of estradiol USP Individual Carton of 4 systems NDC 50419-452-04

16.2 Storage and Handling
Store at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C and 30°C (59°F and 86°F). Do not store above 86°F (30°C).
Do not store unpouched. Apply immediately upon removal from the protective pouch.
Used transdermal systems still contain active hormone. To discard, fold the sticky side of the transdermal system together, place it in a sturdy child-proof container, and place this container in the trash. Used transdermal systems should not be flushed in the toilet.

17 PATIENT COUNSELING INFORMATION
Advise women to read the FDA-approved patient labeling (Patient Information and Instructions for Use)
**Vaginal Bleeding**
Inform postmenopausal women to report any vaginal bleeding to their healthcare provider as soon as possible [see Warning and Precautions (5.2)].

**Possible Serious Adverse Reactions with Estrogen-Alone Therapy**
Inform postmenopausal women of possible serious adverse reactions of estrogen-alone therapy including Cardiovascular Disorders, Malignant Neoplasms, and Probable Dementia [see Warnings and Precautions (5.1, 5.2, 5.3)].

**Possible Common Adverse Reactions with Estrogen-Alone Therapy**
Inform postmenopausal women of possible less serious but common adverse reactions of estrogen-alone therapy such as headache, breast pain and tenderness, nausea and vomiting.
Patient Information

Climara (Klī-mâr-uh)
(estradiol transdermal system)

Read this Patient Information before you start using Climara and each time you get a refill. There may be new information. This information does not take the place of talking to your healthcare provider about your menopausal symptoms or your treatment.

What is the most important information I should know about Climara (an estrogen hormone)?

- 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 Climara. 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.
- Do not use estrogen-alone to prevent heart disease, heart attacks, strokes, or dementia (decline in 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 age 65 years of age and older.
- Do not use estrogens with progestogens to prevent heart disease, heart attacks, strokes or dementia.
- Using estrogens with progestogens may increase your chances of getting heart attacks, strokes, breast cancer, or blood clots.
- Using estrogens with progestogens may increase your chance of getting dementia, based on a study of women age 65 years of age and older.
- Only one estrogen-alone product and dose have been shown to increase your chances of getting strokes, blood clots, and dementia. Only one estrogen with progestogen product and dose have been shown to increase your chances of getting heart attacks, strokes, breast cancer, blood clots, and dementia.

Because other products and doses have not been studied in the same way, it is not known how the use of Climara will affect your chances of these conditions. You and your healthcare provider should talk regularly about whether you still need treatment with Climara.

What is Climara?

Climara is a prescription medicine patch (transdermal system) that contains estradiol (an estrogen hormone).

What is Climara used for?

The Climara 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 estrogen levels begin dropping, some women develop very uncomfortable symptoms, such as feelings of warmth in the face, neck, and chest, or sudden intense feelings of heat and sweating ("hot flashes" or "hot flushes"). In some women, the symptoms are mild, and they will not need to use estrogens. In other women, symptoms can be more severe.

• **Treat moderate to severe menopausal changes in and around the vagina**

You and your healthcare provider should talk regularly about whether you still need treatment with Climara to control these problems. If you use Climara 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.

• **Treat certain conditions in women before menopause if their ovaries do not produce enough estrogens naturally**

• **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 Climara 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.

You and your healthcare provider should talk regularly about whether you still need treatment with Climara.

**Who should not use Climara?**

**Do not start using Climara if you:**

• **have 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.

• **have been diagnosed with a bleeding disorder**

• **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 (womb). If you have or have had cancer, talk with your healthcare provider about whether you should use Climara.

• **had a stroke or heart attack**

• **currently have or have had blood clots**

• **currently have or have had liver problems**

• **are allergic to Climara or any of the ingredients in it.** See the list of ingredients in Climara at the end of this leaflet.

**Before you use Climara, tell your healthcare provider about all of your medical conditions, including 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.

- **have any other medical conditions that may become worse while you are using Climara**
  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, angioedema (swelling of face and tongue), or problems with your heart, liver, thyroid, kidneys, or have high calcium levels in your blood.

- **are going to have surgery or will be on bed rest.**
  Your healthcare provider will let you know if you need to stop using Climara.

- **are pregnant or think you may be pregnant.**
  Climara is not for pregnant women.

- **are breastfeeding**
  The hormone in Climara can pass into your breast milk.

**Tell your healthcare provider about all the medicines you take,** including prescription and over-the-counter medicines, vitamins, and herbal supplements. Some medicines may affect how Climara works. Climara may also affect how your other medicines work. Keep a list of your medicines and show it to your healthcare provider and pharmacist when you get new medicine.

**How should I use Climara?**

**For detailed instructions, see the step-by-step instructions for using Climara at the end of this Patient Information.**

- Use Climara exactly as your healthcare provider tells you to use it.
- Climara is for skin use only.
- Change your Climara patch 1 time each week or every 7 days.
- Apply your Climara patch to a clean, dry area on your lower abdomen or buttocks. This area must be clean, dry, and free of powder, oil or lotion for your patch to stick to your skin.
- Apply your Climara patch to a different area of your abdomen or your buttocks each time. Do not use the same application site 2 times in the same week.
- Do not apply Climara to your breasts.
- If you forget to apply a new Climara patch, apply a new patch as soon as possible.
- You and your healthcare provider should talk regularly (every 3 to 6 months) about the dose you are using and whether you still need treatment with Climara.

**How to Change Climara**

- When changing Climara, peel off the used patch slowly from the skin.
- After removal of Climara if any adhesive residue remains on your skin, allow the area to dry for 15 minutes. Then, gently rub the area with an oil-based cream or lotion to remove the adhesive from your skin.
- Apply the new patch to a different area of your abdomen or buttocks. This area must be clean, dry, and free of powder, oil or lotion. Do not use the same site again for at least 1 week after removal of an old patch.

**What are the possible side effects of Climara?**
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 (triglyceride) 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")
- worsening of swelling of face and tongue (angioedema) in women with a history of angioedema

Call your healthcare provider right away if you get any of the following warning signs or any other unusual symptoms that concern you:

- new breast lumps
- unusual vaginal bleeding
- changes in vision or speech
- sudden new severe headaches
- severe pains in your chest or legs with or without shortness of breath, weakness and fatigue

Common side effects of Climara include:

- headache
- breast tenderness or pain
- irregular vaginal bleeding or spotting
- stomach or abdominal cramps, bloating
- nausea and vomiting
- hair loss
- fluid retention
- vaginal yeast infection
- redness and/or irritation at the patch placement site

These are not all the possible side effects of Climara. For more information, ask your healthcare provider or pharmacist. Tell your healthcare provider if you have any side effects that bother you or do not go away.

You may report side effects to FDA at 1-800-FDA-1088. You may report side effects to Bayer Healthcare Pharmaceuticals at 1-888-842-2937.

What can I do to lower my chances of a serious side effect with Climara?

- Talk with your healthcare provider regularly about whether you should continue using Climara.
- If you have a uterus, talk with your healthcare provider about whether the addition of a progestogen is right for you. In general, the addition of a progestogen is generally recommended for a woman with a uterus to reduce the chance of getting cancer of the uterus (womb).
• See your healthcare provider right away if you get vaginal bleeding while using Climara.
• Have a pelvic exam, breast exam and mammogram (breast X-ray) every year unless your healthcare provider tells you something else. If members of your family have had breast cancer or if you have ever had breast lumps or an abnormal mammogram, you may need to have breast exams more often.
• If you have high blood pressure, high cholesterol (fat in the blood), diabetes, are overweight, or if you use tobacco, you may have higher chances for getting heart disease. Ask your healthcare provider for ways to lower your chances of getting heart disease.

How should I store and throw away used Climara?
• Store Climara at room temperature 68°F to 77°F (20°C to 25°C).
• Do not store Climara patches outside of their pouches. Apply immediately upon removal from the protective pouch.
• Used patches still contain estrogen. To throw away the patch, fold the sticky side of the patch together, place it in a sturdy child-proof container, and place this container in the trash. Used patches should not be flushed in the toilet.

Keep Climara and all medicines out of the reach of children.

General information about the safe and effective use of Climara.
Medicines are sometimes prescribed for purposes other than those listed in Patient Information leaflets. Do not use Climara for conditions for which it was not prescribed. Do not give Climara to other people, even if they have the same symptoms you have. It may harm them.
You can ask your healthcare provider or pharmacist for information about Climara that is written for health professionals. For more information, go to www.climara.com or call Bayer HealthCare Pharmaceuticals Inc at 1-888-842-2937.

What are the ingredients in Climara?
Active ingredient: estradiol
Inactive ingredient: acrylate copolymer adhesive, fatty acid esters, and polyethylene backing.
INSTRUCTIONS FOR USE

Climara (Klī-mār-uh)
(estradiol transdermal system)

Read this Patient Information before you start using Climara and each time you get a refill. There may be new information. This information does not take the place of talking to your healthcare provider about your menopausal symptoms or your treatment.

You will need the following supplies: See Figure A

Step 1: Pick the days you will change your Climara.
You will need to change your patch 1 time each week or every 7 days.

Step 2. Remove the Climara patch from the pouch.
• Remove patch from its protective pouch by tearing at the notch (do not use scissors). See Figure B
• Do not remove your patch from the protective pouch until you are ready to apply it.

Step 3. Remove the adhesive liner. See Figure C
• You will see that Climara is an oval shaped clear patch that is attached to a thick, hard-plastic adhesive liner and covered by a clear, plastic film. See Figure C
• To apply your patch you must first remove the protective, clear plastic film that is attached to the clear thicker plastic backing. See Figure D
There is a silver foil-sticker attached to the inside of the pouch. Do not remove the silver foil sticker from the pouch. See Figure E.

Step 4. Placing the patch on your skin.
- Apply the sticky side of the patch to 1 of the areas of skin shown below. See Figure F and Figure G.
- Do not touch the sticky side of the patch with your fingers.

Note:
- Avoid the waistline, since clothing and belts may cause the patch to be rubbed off.
- Do not apply Climara to your breasts.
- Only apply Climara to skin that is clean, dry, and free of any powder, oil, or lotion.
- Do not apply the patch to injured, burned, or irritated skin, or areas with skin conditions (such as birth marks, tattoos, or that is very hairy).

Step 5. Press the patch firmly onto your skin.
- Press the patch firmly in place with your fingers for at least 10 seconds.
- Rub the edges of the patch to make sure that it will stick to your skin. (See Figure H)
Note:

- Contact with water while you are swimming, using a sauna, bathing, or showering may cause the patch to fall off.
- If your patch falls off reapply it. If you cannot reapply the patch, apply a new patch to another area (See Figures F and G), and continue to follow your original application schedule.
- If you stop using your Climara patch or forget to apply a new patch as scheduled, you may have spotting, or bleeding, and your symptoms may come back.

Step 6: Throwing away your used patch.

- When it is time to change your patch, remove the old patch before you apply a new patch.
- To throw away the patch, fold the sticky side of the patch together, place it in a sturdy child-proof container, and place this container in the trash. Do not flush used patches in the toilet.

This Patient Information and Instructions for Use have been approved by the U.S Food and Drug Administration.

Revised: 9/2021

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Manufactured for:
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