#### HIGHLIGHTS OF PRESCRIBING INFORMATION

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

MINIVELLE® (estradiol transdermal system) Initial U.S. Approval: 1975

WARNING: ENDOMETRIAL CANCER, CARDIOVASCULAR DISORDERS, PROBABLE DEMENTIA, and BREST CANCER See full prescribing information for complete boxed warning. Estrogen-Alone Therapy

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

#### **Estrogen Plus Progestin Therapy**

- The WHI estrogen plus progestin substudy reported increased risks of DVT, pulmonary embolism (PE), stroke, 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)
- Do not use estrogen plus progestogen therapy for the prevention of cardiovascular disease or dementia (5.1, 5.3)

RECENT MAJOR CHANGES-

**Boxed Warning** 

10/2021

-INDICATIONS AND USAGE -

MINIVELLE® is an estrogen indicated for:

- Treatment of moderate to severe vasomotor symptoms due to menopause (1.1)
- Prevention of postmenopausal osteoporosis (1.2)

Limitations of Use

When prescribing solely for the treatment of postmenopausal osteoporosis, first consider the use of non-estrogen

medications. Consider estrogen therapy only for women at significant risk of osteoporosis.

#### - DOSAGE AND ADMINISTRATION-

Start therapy with MINIVELLE® 0.0375 mg per day applied to the skin twice weekly for the treatment of moderate to severe vasomotor symptoms due to menopause. Dosage adjustment should be guided by the clinical response (2.1)

Start therapy with MINIVELLE 0.025 mg per day applied to the skin twice weekly for the prevention of postmenopausal osteoporosis. The dose may be adjusted as necessary (2.2)

Place MINIVELLE on a clean, dry area on the lower abdomen (below the umbilicus) or buttocks. Do not apply MINIVELLE to the breasts (2.3)

#### DOSAGE FORMS AND STRENGTHS-

Transdermal system: 0.025 mg/day, 0.0375 mg/day, 0.05 mg/day, 0.075 mg/day, and 0.1 mg/day (3)

#### - CONTRAINDICATIONS -

- Undiagnosed abnormal genital bleeding (4, 5.2)
- Breast cancer or a history of breast cancer (4, 5.2)
- Estrogen-dependent neoplasia (4, 5.2)
- Active DVT, PE, or a history of these conditions (4, 5.1)
- Active arterial thromboembolic disease (for example, stroke or MI), or a history of these conditions (4, 5.1)
- Known anaphylactic reaction, angioedema, or hypersensitivity to MINIVELLE (4)
- Hepatic impairment or disease (4, 5.10)
- Protein C, protein S, or antithrombin deficiency, or other known thrombophilic disorders (4)

#### -WARNINGS AND PRECAUTIONS -

Estrogens increase the risk of gallbladder disease (5.4)

Discontinue estrogen if severe hypercalcemia, loss of vision, severe hypertriglyceridemia or cholestatic jaundice occurs (5.5, 5.6, 5.9, 5.10)

Monitor thyroid function in women on thyroid replacement therapy (5.11, 5.18)

#### - ADVERSE REACTIONS -

The most common adverse reactions (greater than or equal to 5 percent) with MINIVELLE are: headache, breast tenderness, back pain, pain in limb, nasopharyngitis, dyspepsia, nausea, sinusitis, and intermenstrual bleeding. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Noven at 1-800-455-8070 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

#### - DRUG INTERACTIONS-

Inducers and/or inhibitors of CYP3A4 may affect estrogen drug metabolism and decrease or increase the estrogen plasma concentration. (7)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

Revised: 10/2021



#### FULL PRESCRIBING INFORMATION: CONTENTS\*

# WARNING: ENDOMETRIAL CANCER, CARDIOVASCULAR DISORDERS, PROBABLE DEMENTIA, AND BREAST CANCER

- 1 INDICATIONS AND USAGE
  - 1.1 Treatment of Moderate to Severe Vasomotor Symptoms Due to Menopause
  - 1.2 Prevention of Postmenopausal Osteoporosis
- 2 DOSAGE AND ADMINISTRATION
  - 2.1 Treatment of Moderate to Severe Vasomotor Symptoms due to Menopause
  - 2.2 Prevention of Postmenopausal Osteoporosis due to Menopause
  - 2.3 Application Instructions
- B DOSAGE FORMS AND STRENGTHS
- 4 CONTRAINDICATIONS
- 5 WARNINGS AND PRECAUTIONS
  - 5.1 Cardiovascular Disorder
  - 5.2 Malignant Neoplasms
  - 5.3 Probable Dementia
  - 5.4 Gallbladder Disease
  - 5.5 Hypercalcemia
  - 5.6 Visual Abnormalities
  - 5.7 Addition of a Progestogen When a Woman Has Not Had a Hysterectomy
  - 5.8 Elevated Blood Pressure
  - 5.9 Exacerbation of Hypertriglyceridemia
  - 5.10 Hepatic Impairment and/or Past History of Cholestatic Jaundice
  - 5.11 Exacerbation of Hypothyroidism
  - 5.12 Fluid Retention
  - 5.13 Hypocalcemia
  - 5.14 Exacerbation of Endometriosis
  - 5.15 Severe Anaphylactic/Anaphylactoid Reactions and Hereditary Angioedema
  - 5.16 Exacerbation of Other Conditions

- 5.17 Laboratory Tests
- 5.18 Drug-Laboratory Test Interactions
- ADVERSE REACTIONS
  - 6.1 Clinical Trials Experience
  - 6.2 Postmarketing Experience
- 7 DRUG INTERACTIONS
- 8 USE IN SPECIFIC POPULATIONS
  - 8.1 Pregnancy
  - 8.2 Lactation
  - 8.4 Pediatric Use
  - 8.5 Geriatric Use
- 10 OVERDOSAGE
- 11 DESCRIPTION
- 12 CLINICAL PHARMACOLOGY
  - 12.1 Mechanism of Action
  - 12.2 Pharmacodynamics
  - 12.3 Pharmacokinetics
- 13 NONCLINICAL TOXICOLOGY
  - 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
- 14 CLINICAL STUDIES
  - 14.1 Effects on Vasomotor Symptoms in Postmenopausal Women
  - 14.2 Effects on Bone Mineral Density in Postmenopausal Women
  - 14.3 Women's Health Initiative Studies
  - 14.4 Women's Health Initiative Memory Study
- 15 REFERENCES
- 16 HOW SUPPLIED/STORAGE AND HANDLING
  - 16.1 How Supplied
  - 16.2 Storage and Handling
- 17 PATIENT COUNSELING INFORMATION

\*Sections or subsections omitted from the full prescribing information are not listed.



## 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 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 route 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

#### MINIVELLE is indicated for:

#### 1.1 Treatment of Moderate to Severe Vasomotor Symptoms Due to Menopause

#### 1.2 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 MINIVELLE 0.0375 mg per day applied to the skin twice weekly. Make dosage adjustments based on clinical response. Attempt to taper or discontinue MINIVELLE at 3 to 6 month intervals.

#### 2.2 Prevention of Postmenopausal Osteoporosis due to Menopause

#### 2.3 Application Instructions

Place the adhesive side of MINIVELLE on a clean, dry area on the lower abdomen (below the umbilicus) or buttocks. Do not apply MINIVELLE to the breasts.

Replace MINIVELLE twice weekly (every 3-4 days).

Rotate the sites of application, with an interval of at least 1 week allowed between applications to a particular site.

Select an area for application that is not oily, damaged, or irritated. Avoid the waistline, since tight clothing may rub the system off. Apply the system immediately after opening the pouch and removing the protective liner. Press the system firmly in place with the palm of the hand for about 10 seconds, making sure there is good contact with the skin, especially around the edges. In the event that a system falls off, reapply the same system or apply a new system to another location. In either case, continue the original treatment schedule. If a woman has forgotten to apply MINIVELLE, have her apply a new system as soon as possible. Apply the new system on the original treatment schedule. The interruption of treatment in women taking MINIVELLE might increase the likelihood of breakthrough bleeding, spotting and recurrence of symptoms.

#### 3 DOSAGE FORMS AND STRENGTHS

Transdermal system: 0.025 mg/day, 0.0375 mg/day, 0.05 mg/day, 0.075 mg/day, and 0.1 mg/day.

#### **4 CONTRAINDICATIONS**

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

- Undiagnosed abnormal genital bleeding [see Warnings and Precautions (5.2)].
- Breast cancer or a 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, angioedema, or hypersensitivity to MINIVELLE
- Hepatic impairment or disease
- Protein C, protein S, or antithrombin deficiency, or other known thrombophilic disorders



# DOCKET

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