

OSPHERA- ospemifene tablet, film coated

Duchesnay USA, Inc.

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

OSPHERA[®] (ospemifene) tablets, for oral use
Initial U.S. Approval: 2013

WARNING: ENDOMETRIAL CANCER and CARDIOVASCULAR DISORDERS

See full prescribing information for complete boxed warning.

OSPHERA is an estrogen agonist/antagonist with tissue selective effects. In the endometrium, OSPHERA has estrogen agonistic effects. There is an increased risk of endometrial cancer in a woman with a uterus who uses unopposed estrogens. Perform adequate diagnostic measures, including directed and 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)*].

Estrogen-alone therapy has an increased risk of stroke and deep vein thrombosis (DVT). OSPHERA 60 mg had cerebral thromboembolic and hemorrhagic stroke incidence rates of 1.13 and 3.39 per thousand women years, respectively vs. 3.15 and 0 per thousand women years, respectively with placebo. For deep vein thrombosis, the incidence rate for OSPHERA 60 mg is 2.26 per thousand women years (2 reported cases) vs. 3.15 per thousand women years (1 reported case) with placebo [see *Warnings and Precautions (5.1)*].

RECENT MAJOR CHANGES

Warnings and Precautions, Malignant Neoplasms (5.2) 02/2025

INDICATIONS AND USAGE

OSPHERA is an estrogen agonist/antagonist indicated for:

- The treatment of moderate to severe dyspareunia, a symptom of vulvar and vaginal atrophy, due to menopause. (1.1)
- The treatment of moderate to severe vaginal dryness, a symptom of vulvar and vaginal atrophy, due to menopause. (1.2)

DOSAGE AND ADMINISTRATION

- One tablet taken orally once daily with food. (2.1, 2.2)

DOSAGE FORMS AND STRENGTHS

Tablet: 60 mg (3)

CONTRAINDICATIONS

- Undiagnosed abnormal genital bleeding (4)
- Estrogen-dependent neoplasia (4, 5.2)
- Active DVT, pulmonary embolism (PE), or a history of these conditions (4, 5.1)
- Active arterial thromboembolic disease (for example, stroke and myocardial infarction [MI]), or a history of these conditions (4, 5.1)
- Hypersensitivity (for example, angioedema, urticaria, rash, pruritus) to OSPHERA or any ingredients (4)
- Known or suspected pregnancy (4, 8.1)

WARNINGS AND PRECAUTIONS

- Venous Thromboembolism: Risk of DVT and PE (5.1)
- Known, suspected, or history of breast cancer (5.2)
- Severe Hepatic Impairment (5.3, 8.7, 12.3)

ADVERSE REACTIONS

The most common adverse reactions (≥1 percent) with OSPHERA are: hot flush, vaginal discharge,

muscle spasms, headache, hyperhidrosis, vaginal hemorrhage, night sweats. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Duchesnay Inc. at 1-855-OSPHENA (1-855-677-4362) or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

-----**DRUG INTERACTIONS**-----

- Do not use estrogens or estrogen agonist/antagonist concomitantly with OSPHENA. (7.1, 12.3)
- Do not use fluconazole concomitantly with OSPHENA. Fluconazole increases serum concentrations of OSPHENA. (7.2, 12.3)
- Do not use rifampin concomitantly with OSPHENA. Rifampin decreases serum concentration of OSPHENA. (7.2, 12.3)

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

Revised: 2/2025

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- 1.2 The Treatment of Moderate to Severe Vaginal Dryness, a Symptom of Vulvar and Vaginal Atrophy, due to Menopause.

2 DOSAGE AND ADMINISTRATION

- 2.1 Treatment of Moderate to Severe Dyspareunia, a Symptom of Vulvar and Vaginal Atrophy, Due to Menopause
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WARNING: ENDOMETRIAL CANCER and CARDIOVASCULAR DISORDERS

Endometrial Cancer

OSPHENA is an estrogen agonist/antagonist with tissue selective effects. In the endometrium, OSPHENA has estrogen agonistic effects. There is an increased risk of endometrial cancer in a woman with a uterus who uses unopposed estrogens. Perform adequate diagnostic measures, including directed and 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

In the clinical trials for OSPHENA (duration of treatment up to 15 months), the incidence rates of thromboembolic and hemorrhagic stroke were 1.13 and 3.39 per thousand women years, respectively in the OSPHENA 60 mg treatment group and 3.15 and 0 with placebo [see *Warnings and Precautions (5.1)*]. The incidence of DVT was 2.26 per thousand women years (2 reported cases) in the OSPHENA 60 mg treatment group and 3.15 per thousand women years (1 reported case) with placebo [see *Warnings and Precautions (5.1)*]. OSPHENA should be prescribed for the shortest duration consistent with treatment goals and risks for the individual woman.

Increased risks of stroke and deep vein thrombosis (DVT) are reported 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 as part of the Women's Health Initiative (WHI) [see *Warnings and Precautions (5.1)*].

1 INDICATIONS AND USAGE

OSPHENA is indicated for:

1.1 The Treatment of Moderate to Severe Dyspareunia, a Symptom of Vulvar and Vaginal Atrophy, due to Menopause.

1.2 The Treatment of Moderate to Severe Vaginal Dryness, a Symptom of Vulvar and Vaginal Atrophy, due to Menopause.

2 DOSAGE AND ADMINISTRATION

OSPHENA is an estrogen agonist/antagonist which has agonistic effects on the endometrium [see *Warnings and Precautions (5.2)*].

Use OSPHENA 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 Dyspareunia, a Symptom of Vulvar and Vaginal Atrophy, Due to Menopause

One 60 mg tablet taken orally with food once daily.

2.2 Treatment of Moderate to Severe Vaginal Dryness, a Symptom of Vulvar and Vaginal Atrophy, Due to Menopause

One 60 mg tablet taken orally with food once daily.

3 DOSAGE FORMS AND STRENGTHS

OSPHENA tablets are white to off-white, oval, biconvex, film coated tablets containing 60 mg of ospemifene and engraved with "60" on one side.

4 CONTRAINDICATIONS

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

- Undiagnosed abnormal genital bleeding.
- Estrogen-dependent neoplasia.
- Active DVT, PE, or a history of these conditions.
- Active arterial thromboembolic disease (for example, stroke and MI), or a history of these conditions.
- Hypersensitivity (for example, angioedema, urticaria, rash, pruritus) to OSPHENA or any ingredients.
- OSPHENA is contraindicated in women who are or may become pregnant. OSPHENA may cause fetal harm when administered to a pregnant woman. Ospemifene was embryo-fetal lethal with labor difficulties and increased pup deaths in rats at doses below clinical exposures, and embryo-fetal lethal in rabbits at 10 times the clinical exposure based on mg/m². If this drug is used during pregnancy, or if a woman becomes pregnant while taking this drug, she should be apprised of the potential hazard to a fetus.

5 WARNINGS AND PRECAUTIONS

5.1 Cardiovascular Disorders

Manage appropriately any risk factors for cardiovascular disorders, 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

In the clinical trials for OSPHENA (duration of treatment up to 15 months), the incidence rates of thromboembolic and hemorrhagic stroke were 1.13 and 3.39 per thousand women years, respectively in OSPHENA 60 mg treatment group and 3.15 and 0 per thousand women years in placebo.

Immediately discontinue OSPHENA if a thromboembolic or hemorrhagic stroke occurs

or is suspected.

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 ten thousand women years, respectively). The increase in risk was demonstrated in year 1 and persisted.

Coronary Heart Disease

Two cases of myocardial infarction (MI) occurred in women receiving 60 mg of ospemifene in the OSPHENA clinical trials.

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 placebo.

Venous Thromboembolism

Two cases of DVT occurred in women receiving OSPHENA 60 mg in the OSPHENA clinical trials. Immediately discontinue OSPHENA if a VTE occurs or is suspected.

If feasible, discontinue OSPHENA at least 4 to 6 weeks before surgery of the type associated with an increased risk of thromboembolism, or during periods of prolonged immobilization.

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 ten thousand women years), although only the increased risk of DVT reached statistical significance (23 versus 15 per ten thousand women years). The increase in VTE risk was demonstrated during the first 2 years.

5.2 Malignant Neoplasms

Endometrial Cancer

OSPHENA is an estrogen agonist/antagonist with tissue selective effects. In the endometrium, OSPHENA has agonistic effects. In the OSPHENA clinical trials (60 mg treatment group), no cases of endometrial cancer were seen with exposure up to 52 weeks. There was a single case of simple hyperplasia without atypia. Endometrial thickening equal to 5 mm or greater was seen in the OSPHENA up to 52 weeks treatment groups at a rate of 101.4 per thousand women vs. 20.9 per thousand women for placebo. The incidence of any type of proliferative (weakly plus active plus disordered) endometrium was 26.3 per thousand women in the OSPHENA up to 52 weeks treatment groups vs. 0 per thousand women for placebo. Uterine polyps occurred at an incidence of 19.6 per thousand women in the OSPHENA up to 52 weeks treatment groups vs. 8.3 per thousand women for placebo.

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 the use of estrogens for less than 1 year. The greatest risk appears to be associated with prolonged use, with increased risks of 15- to 24-fold for 5 to 10 years or more. This risk has been shown to persist for at least

8 to 15 years after estrogen therapy is discontinued. Adding a progestin to postmenopausal estrogen therapy has been shown to reduce the risk of endometrial hyperplasia, which may be a precursor to endometrial cancer. There are, however, possible risks that may be associated with the use of progestins with estrogens compared to estrogen-alone regimens. These include an increased risk of breast cancer. The use of progestins with OSPHENA therapy was not evaluated in the clinical trials.

Clinical surveillance of all women using OSPHENA 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.

Breast Cancer

OSPHENA 60 mg has not been adequately studied in women with breast cancer; therefore, it should not be used in women with known or suspected breast cancer or with a history of breast cancer.

The Women's Health Initiative (WHI) substudy of daily conjugated estrogen (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 alone was not associated with an increased risk of invasive breast cancer [relative risk (RR) 0.80] compared to placebo.

After a mean follow-up of 5.6 years, the WHI substudy of daily CE (0.625 mg) plus medroxyprogesterone acetate (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.

Consistent with the Women's Health Initiative (WHI) clinical trials, observational studies have also reported an increased risk of breast cancer for estrogen plus progestin therapy and a smaller, but still increased, risk for estrogen-alone therapy after several years of use. One large meta-analysis of prospective cohort studies reported increased risks that were dependent upon duration of use and could last up to >10 years after discontinuation of estrogen plus progestin therapy and estrogen-alone therapy. Extension of the WHI trials also demonstrated increased breast cancer risk associated with estrogen plus progestin therapy. Observational studies also suggest that the risk of breast cancer was greater, and became apparent earlier, with estrogen plus progestin therapy as compared to the risk with estrogen-alone therapy. However, these studies have not found significant variation in the risk of breast cancer among different

estrogen plus progestin combinations, doses, or routes of administration.

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

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

5.3 Severe Hepatic Impairment

OSPHENA should not be used in women with severe hepatic impairment [see *Use in Specific Populations (8.7)*, and *Clinical Pharmacology (12.3)*].

6 ADVERSE REACTIONS

The following serious adverse reactions are discussed elsewhere in the labeling:

- Cardiovascular Disorders [see *Boxed Warning, Warnings and Precautions (5.1)*]
- Malignant Neoplasms [see *Boxed Warning, 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 safety of OSPHENA has been assessed in ten phase 2/3 trials (N=2209) with doses ranging from 5 to 90 mg per day. The duration of treatment in these studies ranged from 6 weeks to 15 months. The majority of women (N=1683) had treatment exposure up to 12 weeks; 847 had up to 52 weeks (1 year) of exposure.

The incidence rates of thromboembolic and hemorrhagic stroke were 1.13 per thousand women years (1 reported case of thromboembolic stroke) and 3.39 per thousand women years (3 reported cases of hemorrhagic stroke), respectively in OSPHENA 60 mg treatment group and 3.15 (1 case of thromboembolic stroke) and 0 per thousand women years, respectively in placebo. There were 2 reported cases of DVT among the 1459 women in the OSPHENA 60 mg treatment group and 1 case of DVT among the 1136 women in the placebo group.

Table 1 lists adverse reactions occurring more frequently in the OSPHENA 60 mg treatment group than in placebo and at a frequency $\geq 1\%$ in the 12-week, double-blind, placebo-controlled clinical trials. Table 2 lists adverse reactions occurring more frequently in the OSPHENA 60 mg treatment group than in placebo and at a frequency $\geq 1\%$ in all clinical trials up to 52-weeks.

Table 1: Adverse Reactions Reported More Commonly in the OSPHENA Treatment Group (60 mg Once Daily) and at Frequency $\geq 1.0\%$ in the 12 Week Double-Blind, Controlled Clinical Trials with OSPHENA vs. Placebo

Ospemifene 60 mg (N=1459)	Placebo (N=1136) %
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	%	%
<i>Vascular Disorders</i>		
Hot flush	6.5	2.6
<i>Reproductive System and Breast Disorders</i>		
Vaginal discharge	3.8	0.4
<i>Musculoskeletal and Connective Tissue Disorders</i>		
Muscle spasms	1.8	0.6
<i>Skin and Subcutaneous Tissue Disorders</i>		
Hyperhidrosis	1.1	0.2

Table 2: Adverse Reactions Reported More Commonly in the OSPHENA Treatment Group (60 mg Once Daily) and at Frequency $\geq 1.0\%$ in All Clinical Trials up to 52 Weeks (Safety Population)

	Ospemifene 60 mg All Trials (N=847) %	Placebo (N=165) %
<i>Nervous System Disorders</i>		
Headaches	2.8	2.4
<i>Vascular Disorders</i>		
Hot flush	12.2	4.2
<i>Musculoskeletal and Connective Tissue Disorders</i>		
Muscle spasms	4.5	2.4
<i>Skin and Subcutaneous Tissue Disorders</i>		
Hyperhidrosis	2.5	1.8
Night sweats	1.2	0.0
<i>Reproductive System and Breast Disorders</i>		
Vaginal discharge	6.0	0.6
Vaginal hemorrhage	1.3	0.0

6.2 Postmarketing Experience

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

Neoplasms Benign, Malignant and Unspecified (incl. cysts and polyps): endometrial hyperplasia, endometrial cancer

Immune System Disorders: allergic conditions including hypersensitivity, angioedema

Nervous System Disorders: headache

Vascular Disorders: deep vein thrombosis, thrombosis, pulmonary embolism

Skin and Subcutaneous Tissue Disorders: rash, rash erythematous, rash generalized, pruritus, urticaria

7 DRUG INTERACTIONS

OSPHENA is primarily metabolized by CYP3A4 and CYP2C9. CYP2C19 and other pathways contribute to the metabolism of ospemifene.

7.1 Estrogens and Estrogen Agonist/Antagonist

Do not use OSPHENA concomitantly with estrogens and estrogen agonists/antagonists. The safety of concomitant use of OSPHENA with estrogens and estrogen agonists/antagonists has not been studied.

7.2 Fluconazole

Do not use OSPHENA concomitantly with fluconazole, a moderate CYP3A / strong CYP2C9 / moderate CYP2C19 inhibitor. Fluconazole increases the systemic exposure of ospemifene by 2.7-fold. Administration of fluconazole with ospemifene may increase the risk of OSPHENA-related adverse reactions [see *Clinical Pharmacology (12.3)*].

7.3 Rifampin

Rifampin, a strong CYP3A4 / moderate CYP2C9 / moderate CYP2C19 inducer, decreases the systemic exposure of ospemifene by 58%. Therefore, co-administration of OSPHENA with drugs such as rifampin which induce CYP3A4, CYP2C9 and/or CYP2C19 activity would be expected to decrease the systemic exposure of ospemifene, which may decrease the clinical effect [see *Clinical Pharmacology (12.3)*].

7.4 Ketoconazole

Ketoconazole, a strong CYP3A4 inhibitor, increases the systemic exposure of ospemifene by 1.4-fold. Administration of ketoconazole chronically with ospemifene may increase the risk of OSPHENA-related adverse reactions [see *Clinical Pharmacology (12.3)*].

7.5 Warfarin

Repeated administration of ospemifene had no effect on the pharmacokinetics of a single 10 mg dose of warfarin. No study was conducted with multiple doses of warfarin. The effect of ospemifene on clotting time such as the International Normalized Ratio (INR) or prothrombin time (PT) was not studied [see *Clinical Pharmacology (12.3)*].

7.6 Highly Protein-Bound Drugs

Ospemifene is more than 99% bound to serum proteins and might affect the protein binding of other drugs. Use of OSPHENA with other drug products that are highly protein-bound may lead to increased exposure of either that drug or ospemifene [see

Clinical Pharmacology (12.3)] .

7.7 Multiple Enzyme Inhibition

Co-administration of OSPHENA with a drug known to inhibit CYP3A4 and CYP2C9 isoenzymes may increase the risk of OSPHENA-related adverse reactions.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Not Recommended During Pregnancy

OSPHENA is contraindicated in women who are or may become pregnant. If this drug is used during pregnancy, or if a woman becomes pregnant while taking this drug, she should be apprised of the potential hazard to a fetus [see *Contraindications (4)*].

Based on animal data, OSPHENA is likely to increase the risk of adverse outcomes during pregnancy and labor. Adverse findings at maternally toxic doses included embryofetal lethality in rats and rabbits, and neonatal mortality and difficult labor in rats. The reproductive effects observed are consistent with and are considered to be related to estrogen receptor activity of OSPHENA.

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.

Data

Animal Data

The effects of ospemifene on embryo-fetal development were studied in rats (0.1, 1, or 4 mg/kg/day) and rabbits (3, 10, or 30 mg/kg/day) when treated from implantation through organogenesis [Gestation Day (GD) 6-16 in the rat and GD6-18 in the rabbit. In rabbits, there was an increase in the incidence of total resorptions at 30 mg/kg/day (10 times the human exposure based on body surface area mg/m²)]. Drug-induced malformations were not observed in either rats or rabbits.

The effects of ospemifene on pre- and postnatal development were studied in pregnant rats (0.01, 0.05, and 0.25 mg/kg/day) treated from implantation (GD6) through lactation (Lactation Day (LD) 21). Pregnant rats given 0.05 or 0.25 mg/kg/day ospemifene (0.8% to 4% the human exposure based on body surface area mg/m²) had a significantly prolonged and difficult gestation, increased post-implantation loss, increased number of dead pups at birth, and an increased incidence of postnatal loss. Ospemifene did not induce adverse effects in the surviving offspring of pregnant rats at drug exposures up to 4% the human exposure.

8.2 Lactation

Risk Summary

It is not known whether OSPHENA is excreted in human breast milk. There are no data on the effects of OSPHENA on the breastfed child or the effects on milk production.

Ospemifene was excreted in rat milk [see Data].

The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for OSPHENA and any potential adverse effects on the breastfed child from OSPHENA or from the underlying maternal condition.

Data

In a nonclinical study, ospemifene was excreted in rat milk and detected at concentrations higher than that in maternal plasma.

8.4 Pediatric Use

OSPHENA is not indicated in pediatric patients. Clinical studies have not been conducted in the pediatric population.

8.5 Geriatric Use

Of the 2209 OSPHENA-treated women enrolled in the ten phase 2/3 trials of OSPHENA, >19 percent were 65 years of age or older. No clinically meaningful differences in safety or effectiveness were observed between these women and younger women less than 65 years of age.

8.6 Renal Impairment

The pharmacokinetics of ospemifene in women with severe renal impairment (CrCL <30 mL/min) was similar to those in women with normal renal function [see *Clinical Pharmacology (12.3)*].

No dose adjustment of OSPHENA is required in women with renal impairment.

8.7 Hepatic Impairment

The pharmacokinetics of ospemifene has not been studied in women with severe hepatic impairment (Child-Pugh Class C); therefore, do not use OSPHENA in women with severe hepatic impairment [see *Warnings and Precautions (5.3)*, and *Clinical Pharmacology (12.3)*].

No clinically important pharmacokinetic differences with OSPHENA were observed between women with mild to moderate hepatic impairment and healthy women [see *Clinical Pharmacology (12.3)*].

No dose adjustment of OSPHENA is required in women with mild (Child-Pugh Class A) or moderate (Child-Pugh Class B) hepatic impairment.

11 DESCRIPTION

OSPHENA is an estrogen agonist/antagonist. OSPHENA is not a hormone. The chemical structure of ospemifene is shown in Figure 1.

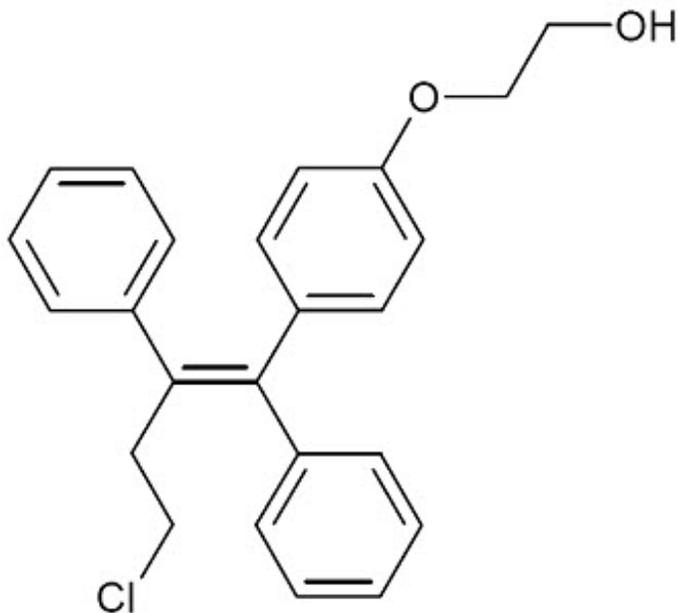


Figure 1: Chemical Structure

The chemical designation is Z-2-[4-(4-chloro-1,2-diphenylbut-1-enyl)phenoxy]ethanol, and has the empirical formula $C_{24}H_{23}ClO_2$, which corresponds to a molecular weight of 378.9. Ospemifene is a white to off-white crystalline powder that is insoluble in water and soluble in ethanol.

Each OSPHENA tablet contains 60 mg of ospemifene. Inactive ingredients include colloidal silicon dioxide, hypromellose, lactose monohydrate, magnesium stearate, mannitol, microcrystalline cellulose, polyethylene glycol, povidone, pregelatinized starch, sodium starch glycolate, titanium dioxide, and triacetin.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

OSPHENA is an estrogen receptor agonist/antagonist with tissue selective effects. Its biological actions are mediated through binding to estrogen receptors. This binding results in activation of estrogenic pathways in some tissues (agonism) and blockade of estrogenic pathways in others (antagonism).

12.2 Pharmacodynamics

Generally, a serum estrogen concentration does not predict an individual woman's therapeutic response to OSPHENA nor her risk for adverse outcomes.

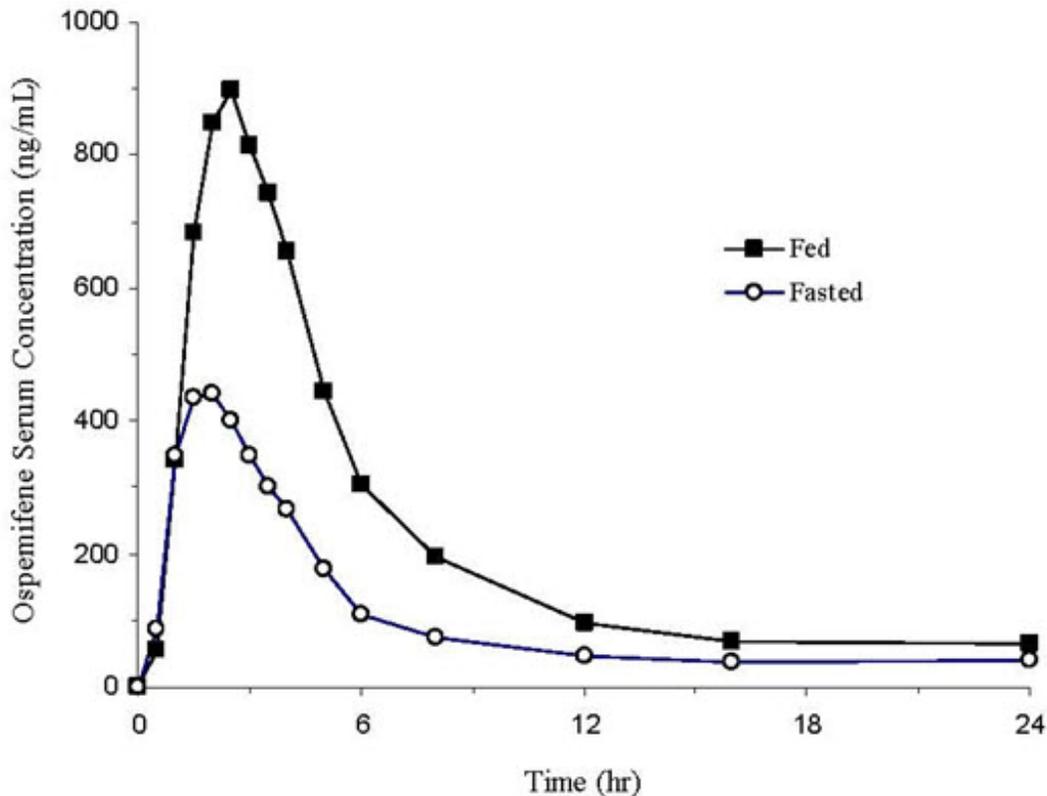
12.3 Pharmacokinetics

Absorption

Following a single oral administration of OSPHENA 60 mg tablet in postmenopausal women under fasted condition, peak median serum concentration was reached at approximately 2 hours (range: 1 to 8 hours) post-dose (see Figure 2). Mean ospemifene C_{max} and AUC_{0-inf} were 533 ng/mL and 4165 ng•hr/mL, respectively. After a single oral administration of OSPHENA 60 mg tablet in postmenopausal women with a high fat/high

calorie (860 kcal) meal, C_{max} was reached at approximately 2.5 hours (range: 1 to 6 hours) post-dose. Mean ospemifene C_{max} and AUC_{0-inf} were 1198 ng/mL and 7521 ng•hr/mL, respectively. The absolute bioavailability of ospemifene was not evaluated. Ospemifene exhibits less than dose-proportional pharmacokinetics from 25 to 200 mg with ospemifene capsule formulation. Accumulation of ospemifene with respect to AUC_{0-inf} was approximately 2 after twelve weeks of daily administration. Steady-state was reached after nine days of ospemifene administration.

Figure 2: Mean Serum Concentration Profile of Ospemifene Following a Single Oral Administration of OSPHENA 60 mg Tablet in Postmenopausal Women Under Fed (N=28) and Fasted (N=91) Conditions



Food Effect

In general, food increased the bioavailability of ospemifene by approximately 2-3 fold. In a cross-study comparison, single dose OSPHENA 60 mg tablet administered with a high fat/high calorie meal (860 kcal) in postmenopausal women increased C_{max} and AUC_{0-inf} by 2.3- and 1.7-fold, respectively, compared to fasted condition. Elimination half-life and time to maximum concentration (T_{max}) were unchanged in the presence of food. In two food effect studies in healthy males using different ospemifene tablet formulations, C_{max} and AUC_{0-inf} increased by 2.3- and 1.8-fold, respectively, with a low fat/low calorie meal (300 kcal) and increased by 3.6- and 2.7-fold, respectively, with a high fat/high calorie meal (860 kcal), compared to fasted condition. OSPHENA should be taken with food [see Dosage and Administration (2.1)].

Distribution

OSPHENA is highly (>99 percent) bound to serum proteins. The apparent volume of

distribution is 448 L.

Metabolism

In vitro experiments with human liver microsomes indicated that ospemifene primarily undergoes metabolism via CYP3A4, CYP2C9, and CYP2C19. The major metabolite was 4-hydroxyospemifene. The apparent total body clearance is 9.16 L/hr using a population approach.

Excretion

The apparent terminal half-life of ospemifene in postmenopausal women is approximately 26 hours. Following an oral administration of ospemifene, approximately 75% and 7% of the dose were excreted in feces and urine, respectively. Less than 0.2% of the ospemifene dose was excreted unchanged in urine.

Use in Specific Populations

Pediatric

The pharmacokinetics of ospemifene in pediatric patients has not been evaluated [see *Use in Specific Populations (8.4)*].

Geriatric

No differences in ospemifene pharmacokinetics were detected with regard to age (range 40 to 80 years) [see *Use in Specific Populations (8.5)*].

Race

Race did not have a clinically relevant effect on ospemifene pharmacokinetics.

Renal Impairment

In women with severe renal impairment (CrCL <30 mL/min), the C_{max} and AUC_{0-inf} for ospemifene following a single 60 mg dose administered with a high fat/high calorie meal were lower by 21% and higher by 20%, respectively [see *Use in Specific Populations (8.6)*].

Hepatic Impairment

In women with mild hepatic impairment (Child-Pugh Class A), the C_{max} and AUC_{0-inf} for ospemifene following a single 60 mg dose administered with a high fat/high calorie meal were lower by 21% and 9.1%, respectively, compared to women with normal hepatic function. In women with moderate hepatic impairment (Child-Pugh Class B), the C_{max} and AUC_{0-inf} for ospemifene following a single 60 mg dose administered with a high fat/high calorie meal were higher by 1% and 29%, respectively, compared to women with normal hepatic function. The effect of severe hepatic impairment on the pharmacokinetics of ospemifene has not been evaluated [see *Warnings and Precautions (5.3)*, and *Use in Specific Populations (8.7)*].

Drug Interactions

Ospemifene is metabolized primarily by CYP3A4 and CYP2C9. CYP2C19 and other pathways contribute to the metabolism of ospemifene. In order of decreasing potency, ospemifene was suggested to be a weak inhibitor for CYP2B6, CYP2C9, CYP2C19, CYP2C8, CYP2D6, and CYP3A4 in *in vitro* studies. Ospemifene is not a significant P-glycoprotein substrate *in vitro*; no *in vivo* transporter study was conducted.

Effect of Co-Administered Drugs on the Pharmacokinetics of Ospemifene

Fluconazole (CYP3A4/CYP2C9/CYP2C19 Inhibitor)

Fluconazole (a moderate CYP3A / strong CYP2C9 / moderate CYP2C19 inhibitor) 400 mg was given on Day 1 followed by 200 mg on Days 2 to 5 under fasted condition. On Day 5 approximately one hour after fluconazole administration, ospemifene 60 mg was administered after breakfast (two slices of bread with ham, cheese, a few slices of cucumber and/or tomatoes, and juice). Fluconazole 200 mg was taken for three additional days under fasted condition. Multiple doses of fluconazole in fourteen postmenopausal women increased the C_{max} and AUC_{0-inf} of ospemifene by 1.7- and 2.7-fold, respectively [see *Drug Interactions (7.2)*].

Rifampin (CYP3A4/CYP2C9/CYP2C19 Inducer)

Rifampin 600 mg was given once daily for 5 consecutive days (given at least one hour before or two hours after a meal) in the late afternoon. On Day 6 after an overnight fast, ospemifene 60 mg was administered in the morning after under fed condition (two slices of bread with ham, cheese, a few slices of cucumber and/or tomatoes, and juice). Multiple doses of rifampin 600 mg in twelve postmenopausal women reduced C_{max} and AUC_{0-inf} of ospemifene by 51% and 58%, respectively. Rifampin and other inducers of CYP3A4 are expected to decrease the systemic exposure of ospemifene [see *Drug Interactions (7.3)*].

Ketoconazole (CYP3A4 Inhibitor)

Ketoconazole 400 mg was given once daily for 4 consecutive days after breakfast. On Day 5 after an overnight fast, ketoconazole 400 mg and ospemifene 60 mg were co-administered under fed condition (two slices of bread with ham, cheese, a few slices of cucumber and/or tomatoes, and juice). Ketoconazole administration once daily continued for an additional 3 days (Days 6 to 8). Co-administration of a single 60 mg dose of ospemifene and multiple doses of ketoconazole in twelve postmenopausal women increased C_{max} and AUC_{0-inf} by 1.5- and 1.4-fold, respectively [see *Drug Interactions (7.4)*].

Omeprazole (CYP2C19 Inhibitor)

Omeprazole (a moderate CYP2C19 inhibitor) 40 mg was given for 5 days. On Day 5, approximately one hour after omeprazole administration, ospemifene 60 mg was administered after breakfast (two slices of bread with ham, cheese, a few slices of cucumber and/or tomatoes, and juice). Multiple doses of omeprazole in fourteen postmenopausal women increased C_{max} and AUC_{0-inf} by 1.20- and 1.17-fold, respectively.

Effect of Ospemifene on the Pharmacokinetics of the Co-Administered Drug

Warfarin

Ospemifene 60 mg was given after a light breakfast (two slices of bread with ham and cheese, and juice) once daily for 12 days in sixteen postmenopausal women who were determined to be rapid metabolizers of CYP2C9 (CYP2C9*1/*1 or CYP2C9*1/*2). On Day 8, a single dose of warfarin 10 mg and vitamin K 10 mg was administered one hour after a light breakfast. The geometric mean ratio (90% CI) for S-warfarin with and without ospemifene for C_{max} and AUC_{0-inf} was 0.97 (0.92-1.02) and 0.96 (0.91-1.02), respectively. Multiple doses of ospemifene did not significantly affect the

pharmacokinetics of a single dose of warfarin. No study was conducted with multiple doses of warfarin.

Omeprazole

Ospemifene 60 mg was administered once daily for 7 days after a light meal in the late afternoon in fourteen postmenopausal women. On Day 8 after an overnight fast, a single 20 mg dose of omeprazole was administered in the morning of at least 10 hrs; ospemifene was not given on Day 8. The geometric mean ratio for the metabolic index (omeprazole/5-hydroxyomeprazole) at the concentration at the 3 hr time point and for AUC_{0-8hr} was 0.97 with and without ospemifene. It is unclear if ospemifene will affect the pharmacokinetics of drugs metabolized by CYP2C19 due to the significant time gap between ospemifene and omeprazole administration.

Bupropion

Ospemifene 60 mg was administered once daily for seven consecutive days after the evening meal in sixteen postmenopausal women (not homozygous for CYP2B6*6). On Day 8 after an overnight fast, a single 150 mg dose of sustained release bupropion was administered in morning under fasted condition. The geometric mean ratio (90% CI) for bupropion with and without ospemifene for C_{max} and AUC_{0-inf} was 0.82 (0.75-0.91) and 0.81 (0.77-0.86), respectively. The geometric mean ratio (90% CI) for hydroxybupropion, an active metabolite formed via CYP2B6, with and without ospemifene for C_{max} and AUC_{0-inf} was 1.16 (1.09-1.24) and 0.98 (0.92-1.04), respectively.

Midazolam

Ospemifene 60 mg was administered once daily for 14 days in fifteen postmenopausal women. On Day 14, a single 5 mg dose of midazolam (a CYP3A4 substrate) was administered. All doses of midazolam and ospemifene were administered in morning in the fed state (i.e., after a standard breakfast and at the same time every day). The geometric mean ratio (90% CI) for midazolam with and without ospemifene for C_{max} and AUC_{0-inf} was 1.05 (0.95-1.16) and 0.87 (0.82-0.92), respectively.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

In a 2-year carcinogenicity study in female mice, ospemifene was orally administered at 100, 400, or 1500 mg/kg/day. No evaluation for carcinogenicity was conducted in male mice. There was significant increase in adrenal subcapsular cell adenomas at 4 and 5 times the human exposure based on AUC, and adrenal cortical tumors at 5 times the human exposure. In the ovary, an increase in sex cord/stromal tumors, tubulostromal tumors, granulosa cell tumors, and luteomas was also seen. These findings occurred at doses 2 to 5 times the human exposure based on AUC and are probably related to estrogenic/antiestrogenic effect of ospemifene in mice.

In a 2-year carcinogenicity study in rats, ospemifene was orally administered at 10, 50, or 300 mg/kg/day. A significant increase in thymomas was recorded for males and thymomas for females at all ospemifene dose levels, or 0.3 to 1.2 times the human

exposure based on AUC. In the liver, an increase in hepatocellular tumors was recorded for females at all ospemifene dose levels.

Mutagenesis

Ospemifene was not genotoxic *in vitro* in the Ames test in strains of *Salmonella typhimurium* at the thymidine kinase (tk) locus of mouse lymphoma L5178Y cells in the absence and in the presence of a metabolic activator system. In *in vivo* testing, ospemifene was not genotoxic in a standard mouse bone marrow micronucleus test or in a determination of DNA adducts in the liver of rats.

Impairment of Fertility

The effect of ospemifene on fertility was not directly evaluated. In female rats and monkeys, decreases in ovarian and uterine weights, decreased corpora lutea number, increased ovarian cysts, uterine atrophy, and disrupted cycles were observed when given repeated daily oral doses. In male rats, atrophy of the prostate and seminal vesicles was noted. The effects on reproductive organs observed in animals are consistent with the estrogen receptor activity of ospemifene and potential for impairment of fertility.

14 CLINICAL STUDIES

The effectiveness and safety of OSPHENA on moderate to severe symptoms of vulvar and vaginal atrophy in postmenopausal women were examined in four placebo-controlled clinical trials (three 12-week efficacy trials and one 52-week long-term safety trial). In the four placebo-controlled trials, a total of 1100 women received placebo and 1416 women received 60 mg OSPHENA.

Trial 1 was a 12-week, randomized, double-blind, placebo-controlled, parallel-group trial that enrolled 826 generally healthy postmenopausal women between 41 to 81 years of age (mean 59 years of age) who at baseline had ≤ 5 percent superficial cells on a vaginal smear, a vaginal pH > 5.0 , and who identified at least one moderate to severe vaginal symptom that was considered the most bothersome to her (vaginal dryness, pain during intercourse [dyspareunia], or vaginal irritation/itching). Treatment groups included 30 mg ospemifene (n=282), 60 mg ospemifene (n=276), and placebo (n=268). All women were assessed for improvement in the mean change from baseline to Week 12 for the co-primary efficacy variables of: most bothersome symptom (MBS) of vulvar and vaginal atrophy (defined as the individual moderate to severe symptom that was identified by the woman as most bothersome at baseline), percentage of vaginal superficial and vaginal parabasal cells on a vaginal smear, and vaginal pH. Following completion of 12-weeks, women with an intact uterus were allowed to enroll in a 40-week double-blind extension study, and women without an intact uterus were allowed to enroll in a 52-week open-label extension study.

Trial 2 was a 12-week, randomized, double-blind, placebo-controlled, parallel-group trial that enrolled 919 generally healthy postmenopausal women between 41 to 79 years of age (mean 59 years of age) who at baseline had ≤ 5 percent superficial cells on a vaginal smear, a vaginal pH > 5.0 , and who identified either moderate to severe vaginal dryness (dryness cohort) or moderate to severe dyspareunia (dyspareunia cohort) as most bothersome to her at baseline. Treatment groups included 60 mg ospemifene (n=463) and placebo (n=456). Primary endpoints and study conduct were similar to those in Trial

1.

Trial 3 was a 12-week, randomized, double-blind, placebo-controlled, parallel-group trial that enrolled 631 generally healthy postmenopausal women between 40 and 80 years of age (mean 60 years of age) who at baseline had ≤ 5 percent superficial cells on a vaginal smear, a vaginal pH > 5.0 , and had moderate to severe vaginal dryness as the self-reported most bothersome symptom of VVA. Treatment groups included 60 mg ospemifene (n=316) and placebo (n=315). Primary endpoints and study conduct were similar to those in Trials 1 and 2. In Trial 3, 52 healthy postmenopausal women in the 60 mg ospemifene treatment group and 53 in placebo received treatment for up to 52-weeks.

Trial 4 was a 52-week, randomized, double-blind, placebo-controlled, long-term safety trial that enrolled 426 generally healthy postmenopausal women between 49 to 79 years of age (mean 62 years of age) with an intact uterus. Treatment groups included 60 mg ospemifene (n=363) and placebo (n=63).

Effects on Dyspareunia in Postmenopausal Women

In Trials 1 and 2, the modified intent-to-treat population of women treated with ospemifene when compared to placebo demonstrated a statistically significant improvement (least square mean change from baseline to Week 12) in the moderate to severe most bothersome symptom of dyspareunia (Trial 1, $p=0.0012$ and Trial 2, $p<0.0001$). See Table 3. A statistically significant increase in the proportion of superficial cells and a corresponding statistically significant decrease in the proportion of parabasal cells on a vaginal smear were also demonstrated ($p<0.0001$ for both trials). The mean reduction in vaginal pH between baseline and Week 12 was also statistically significant ($p<0.0001$ for both trials).

Table 3: Week 12 Effects on Dyspareunia (the Woman's Self-Identified Most Bothersome Moderate to Severe Symptom of Vulvar and Vaginal Atrophy at Baseline). Mean Change in Severity at Week 12 with Last Observation Carried Forward (LOCF), Modified Intent-to-Treat Population *

Trial 1 Results		
Most Bothersome Moderate to Severe Symptom at Baseline	OSPHENA (ospemifene) 60 mg (N=110)	Placebo (N=113)
Dyspareunia		
Baseline Mean (SD)	2.7 (0.44)	2.7 (0.45)
LS Mean Change from Baseline (SE)	-1.4 (0.11)	-0.9 (0.11)
p-value vs. placebo †	0.0012	---
Trial 2 Results		
Most Bothersome Moderate to Severe Symptom at Baseline	OSPHENA (ospemifene) 60 mg (N=301)	Placebo (N=297)
Dyspareunia		

Baseline Mean (SD)	2.7 (0.47)	2.7 (0.47)
LS Mean Change from Baseline (SE)	-1.5 (0.06)	-1.2 (0.07)
† p-value vs. placebo	<0.0001	---

Definitions: ITT = intent-to-treat; LOCF = last observation carried forward; SD = standard deviation; SE = standard error; LS = least square

* The modified intent-to-treat population (mITT) included only women in the ITT population who at baseline met the inclusion criteria of ≤ 5 percent superficial cells on a vaginal smear, a vaginal pH > 5.0 , and who identified moderate or severe dyspareunia as the most bothersome vaginal symptom.

† P-values for dyspareunia were computed using Cochran-Mantel-Haenszel method controlling for study center and uterus status (presence or absence; only in Trial 1).

Effects on Vaginal Dryness in Postmenopausal Women

All three trials evaluated the most bothersome symptom of vaginal dryness. Trial 2 did not demonstrate a statistically significant improvement in the moderate to severe most bothersome symptom of vaginal dryness. In Trials 1 and 3, the modified intent-to-treat population of women treated with ospemifene when compared to placebo demonstrated a statistically significant improvement in the moderate to severe most bothersome symptom of vaginal dryness (Trial 1, $p=0.0136$ and Trial 3, $p<0.0001$). See Table 4. A statistically significant increase in the proportion of superficial cells and a corresponding statistically significant decrease in the proportion of parabasal cells on a vaginal smear were also demonstrated ($p<0.0001$ for both trials). The mean reduction in vaginal pH between baseline and Week 12 was also statistically significant ($p<0.0001$ for both trials).

Table 4: Week 12 Effects on Vaginal Dryness (the Woman's Self-Identified Most Bothersome Moderate to Severe Symptom of Vulvar and Vaginal Atrophy at Baseline). Change in Severity at Week 12, Modified Intent-to-Treat Population *

Trial 1 Results		
Most Bothersome Moderate to Severe Symptom at Baseline	OSPHENA (ospemifene) 60 mg (N=113)	Placebo (N=104)
Vaginal Dryness		
Baseline Mean (SD)	2.5 (0.50)	2.4 (0.49)
LS Mean Change from Baseline (SE)	-1.3 (0.09)	-0.9 (0.10)
† p-value vs. placebo	0.0136	---
Trial 3 Results		
Most Bothersome Moderate to Severe	OSPHENA (ospemifene) 60 mg	Placebo (N=262)

Symptom at Baseline	(N=269)	(N=205)
Vaginal Dryness		
Baseline Mean (SD)	2.6 (0.50)	2.6 (0.50)
Change from Baseline (SD)	-1.3 (1.00)	-0.9 (0.95)
p-value vs. placebo†	< 0.0001	---

Definitions: ITT = intent-to-treat; LOCF = last observation carried forward; GEE = generalized estimated equations; SD = standard deviation; SE = standard error; LS = least square

* The modified intent-to-treat population (mITT) included only women in the ITT population who at baseline met the inclusion criteria of ≤ 5 percent superficial cells on a vaginal smear, a vaginal pH > 5.0 , and who identified moderate or severe vaginal dryness as the most bothersome vaginal symptom.

† P-value for vaginal dryness in Trial 1 was computed using Cochran-Mantel-Haenszel method controlling for study center and uterus status (presence or absence), and using LOCF. P-value for vaginal dryness in Trial 3 was computed using a GEE model with terms for treatment group, time, treatment-by-time and study center as fixed effects and baseline value as covariate.

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

OSPHENA tablets are white to off-white, oval, biconvex, film coated tablets containing 60 mg of ospemifene and engraved with "60" on one side. They are available as follows:

NDC 55494-580-90 Bottle of 90 tablets

NDC 55494-580-30 Bottle of 30 tablets

16.2 Storage and Handling

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

17 PATIENT COUNSELING INFORMATION

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

Hypersensitivity Reactions

Inform postmenopausal women who have had hypersensitivity reactions to OSPHENA, such as angioedema, urticaria, rash, and pruritus, that they should not use OSPHENA [see *Contraindications (4)*].

Vaginal Bleeding

Inform postmenopausal women to report unusual vaginal bleeding to their healthcare providers as soon as possible [see *Warnings and Precautions (5.2)*].

Hot Flashes or Flushes

OSPHENA may initiate or increase the occurrence of hot flashes in some women [see *Adverse Reactions (6.1)*].

U.S. Patent Nos. 6,245,819 – 9,566,252 – 8,236,861 – 8,470,890 – 8,772,353 – 9,241,915 – 9,855,224 – 8,642,079

PATIENT INFORMATION
OSPHENA[®] (os fee' nah)
(ospemifene)
tablets, for oral use

Read this Patient Information before you start taking OSPHENA 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 medical condition or your treatment.

What is the most important information I should know about OSPHENA?

- OSPHENA is a medicine that works like estrogen in the lining of the uterus (womb) but can work differently in other parts of the body.
- **OSPHENA may increase your chance of getting cancer of the lining of the uterus (womb).** Vaginal bleeding after menopause may be a warning sign of cancer of the lining of the uterus (womb). Your healthcare provider should check any unusual vaginal bleeding to find out the cause. Tell your healthcare provider right away if you have any unusual vaginal bleeding while you are taking OSPHENA.
- **OSPHENA may increase your chance of getting strokes and blood clots.**

What is OSPHENA?

- OSPHENA is a prescription medicine that contains ospemifene.
- **OSPHENA is used after menopause for women with or without a uterus to treat:**
 - Moderate to severe pain during sexual intercourse due to changes in and around your vagina.
 - Moderate to severe vaginal dryness due to changes in and around your vagina.

Who should not take OSPHENA?

Do not start taking OSPHENA if you:

- **have unusual vaginal bleeding.** Vaginal bleeding after menopause may be a warning sign of cancer of the lining of the uterus (womb). Your healthcare provider should check any unusual vaginal bleeding to find out the cause.
- **currently have or have had certain cancers.** If you have or have had cancer, talk with your healthcare provider about whether you should take OSPHENA.
- **currently have or have had blood clots.**
- **had a stroke or heart attack.**
- **are allergic to ospemifene or any of the ingredients in OSPHENA.** Allergic reaction to OSPHENA can include swelling of the face or tongue (angioedema), hives (urticaria), rash, and itching (pruritus). See the end of this Patient Information leaflet for a complete list of ingredients in OSPHENA.
- **are pregnant or plan to become pregnant.** OSPHENA is not for pregnant women.

What should I tell my healthcare provider before taking OSPHENA?

Before you take OSPHENA, tell your healthcare provider about all of your medical conditions, including if you:

- have any unusual vaginal bleeding.
- have or have had certain cancers. See "**Who should not take OSPHENA?**"
- have liver problems. You should not use OSPHENA if you have certain liver problems.
- are going to have surgery or will be on bed rest. Your healthcare provider will let you know if you need to stop taking OSPHENA.
- are breastfeeding or plan to breastfeed. It is not known if OSPHENA can pass into your breast milk.

Tell your healthcare provider about all medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Some medicines may affect how OSPHENA works. OSPHENA may also affect how other medicines work.

Know the medicines you take. Keep a list of your medicines and show it to your healthcare provider and pharmacist each time you get a new medicine.

How should I take OSPHENA?

- Take OSPHENA exactly how your healthcare provider tells you to take it.
- Take 1 OSPHENA tablet by mouth each day with food.
- You and your healthcare provider should talk regularly about the dose of OSPHENA you are taking and whether or not you still need treatment with OSPHENA.

What are the possible side effects of OSPHENA?

OSPHENA may cause serious side effects, including:

- See "**What is the most important information I should know about OSPHENA?**"

Serious, but less common side effects include:

- stroke
- blood clots
- cancer of the lining of the uterus (womb)

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

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

Less serious, but common side effects include:

- hot flashes (also known as hot flashes)
- vaginal discharge
- muscle spasms
- headache
- excessive sweating (hyperhidrosis)
- heavy vaginal bleeding (vaginal hemorrhage)
- night sweats

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

Call your doctor for medical advice about side effects. You may report side effects to

FDA at 1-800-FDA-1088.

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

- Talk with your healthcare provider regularly about whether you should continue taking OSPHENA.
- See your healthcare provider right away if you get vaginal bleeding while taking OSPHENA.
- 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 (breast X-ray), you may need to have breast exams more often.
- If you have high blood pressure, high cholesterol, diabetes, are overweight, or use tobacco, you may have a higher chance of getting heart disease. Ask your healthcare provider for ways to lower your chances of getting heart disease.
- Tell your healthcare provider if you are going to have surgery or will be on bed rest.

How should I store OSPHENA?

- Store OSPHENA at room temperature between 68°F to 77°F (20°C to 25°C).

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

General information about the safe and effective use of OSPHENA.

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not take OSPHENA for a condition for which it was not prescribed. Do not give OSPHENA to other people, even if they have the same symptoms you have. It may harm them.

This Patient Information leaflet summarizes the most important information about OSPHENA. If you would like more information, talk with your healthcare provider or pharmacist. You can ask your healthcare provider or pharmacist for information about OSPHENA that is written for health professionals.

What are the ingredients in OSPHENA?

Active Ingredient : ospemifene.

Inactive Ingredients: colloidal silicon dioxide, hypromellose, lactose monohydrate, magnesium stearate, mannitol, microcrystalline cellulose, polyethylene glycol, povidone, pregelatinized starch, sodium starch glycolate, titanium dioxide, and triacetin.

Distributed by: Duchesnay USA, Inc.

Princeton, NJ 08540

Made in UK

For more information, go to www.osphena.com or call Duchesnay Inc. at 1-855-OSPHENA (1-855-677-4362).

This Patient Information has been approved by the U.S.
Food and Drug Administration

Revised: 02/2025

PRINCIPAL DISPLAY PANEL - 60 mg Tablet Bottle Label

NDC 55494-580-90

90 Tablets

Osphena[®]
(ospemifene) tablets
60 mg

For oral use only

DUCHESNAY

Rx only

Each tablet contains 60 mg ospemifene. NDC 55494-580-90 90 Tablets

USUAL ADULT DOSAGE: See package insert for full prescribing information.
Store at 20°C to 25°C (68°F to 77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature].
Keep out of reach of children.

Osphe^{na}
(ospemifene) tablets
60 mg

Distributed by:
Duchesnay USA, Inc.
Princeton, NJ 08540
Tel.: 1-855-OSPHE^{na} (1-855-677-4362)
E-mail: medicalinfo@duchesnayusa.com
Made in UK

For oral use only

70014975 ME-285
Rx only OSP-BL-08 Rev: 04/2023



OSPHE^{na}

ospemifene tablet, film coated

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:55494-580
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
OSPEMIFENE (UNII: B0P231ILBK) (OSPEMIFENE - UNII:B0P231ILBK)	OSPEMIFENE	60 mg

Inactive Ingredients

Ingredient Name	Strength
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
MANNITOL (UNII: 3OWL53L36A)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3WJQ0SDW1A)	
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
TRIACETIN (UNII: XHX3C3X673)	
STARCH, CORN (UNII: O8232NY3SJ)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	

Product Characteristics

Color	white (white to off-white)	Score	no score
Shape	OVAL (oval biconvex)	Size	12mm
Flavor		Imprint Code	60
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:55494-580-90	90 in 1 BOTTLE; Type 0: Not a Combination Product	04/01/2023	
2	NDC:55494-580-30	30 in 1 BOTTLE; Type 0: Not a Combination Product	08/01/2023	
3	NDC:55494-580-18	1 in 1 PACKAGE	04/01/2023	
3		15 in 1 BLISTER PACK; Type 0: Not a Combination Product		
4	NDC:55494-580-55	1 in 1 PACKAGE	04/01/2023	
4		5 in 1 BLISTER PACK; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA203505	04/01/2023	

Labeler - Duchesnay USA, Inc. (032392244)

Revised: 2/2025

Duchesnay USA, Inc.