

PRODUCT MONOGRAPH  
INCLUDING PATIENT MEDICATION INFORMATION

<sup>Pr</sup>**ORILISSA**<sup>®</sup>

elagolix (as elagolix sodium)

Tablets, 150 mg and 200 mg, Oral

Gonadotropin releasing hormone (GnRH) receptor antagonist (ATC Code: H01CC03)

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Date of Initial Authorization:  
OCT 04, 2018

Date of Revision:  
AUG 05, 2021 (NOC)

Submission Control Number: 250668

Level III submission: OCT 29, 2021

**RECENT MAJOR LABEL CHANGES**

<b>Section</b>	<b>Date</b>
2 Contraindications	08/2021
7 Warnings and Precautions, Reproductive Health: Female and Male Potential	08/2021

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## PART I: HEALTH PROFESSIONAL INFORMATION

### 1 INDICATIONS

ORILISSA (elagolix) is indicated for the treatment of moderate to severe pain associated with endometriosis.

#### 1.1 Pediatrics

**Pediatrics (< 18 years of age):** Safety and effectiveness of ORILISSA in patients less than 18 years of age has not been established; therefore, Health Canada has not authorized an indication for pediatric use.

#### 1.2 Geriatrics

**Geriatrics (> 65 years of age):** ORILISSA is not indicated in postmenopausal women and has not been studied in women over 65 years of age.

### 2 CONTRAINDICATIONS

ORILISSA is contraindicated in:

- Patients who are hypersensitive to this drug or to any ingredient in the formulation, including any non-medicinal ingredient, or component of the container. Reactions have included anaphylaxis and angioedema (see **8 ADVERSE REACTIONS**). For a complete listing of ingredients, see **6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING**.
- Women who are, suspected to be, or may become pregnant during the course of therapy.
- Women with undiagnosed vaginal bleeding.
- Women with known osteoporosis, due to the risk of further bone loss.
- Women with severe hepatic impairment (Child-Pugh C) (see **4.2 Recommended Dose and Dosage Adjustment**).
- Concomitant use of ORILISSA and strong organic anion transporting polypeptide (OATP)1B1 inhibitors (e.g., cyclosporine and gemfibrozil), due to the risks of increased ORILISSA plasma concentrations.

### 4 DOSAGE AND ADMINISTRATION

#### 4.1 Dosing Considerations

- Women should use effective methods of contraception not containing estrogen while on treatment with ORILISSA.
- Treatment with ORILISSA should be initiated at the time of the menstrual flow to decrease the risk of an undiagnosed pregnancy. Pregnancy should be excluded before starting treatment with ORILISSA.
- Clinical studies with ORILISSA have been limited to a 12-month exposure to the drug and therefore the safety and efficacy of ORILISSA beyond 12 months have not been established. Because of the dose-dependent loss of bone mineral density (BMD) associated with ORILISSA treatment, the use of ORILISSA 200 mg twice daily should be limited to 6 months duration.

## 4.2 Recommended Dose and Dosage Adjustment

ORILISSA is available as either 150 mg tablets (once daily) or 200 mg tablets (twice daily), to be taken orally.

Based on the severity of symptoms and treatment objectives, use the lowest effective dose (see **14 CLINICAL TRIALS**). Administration of ORILISSA results in dose-dependent suppression of luteinizing hormone (LH) and follicle-stimulating hormone (FSH) levels, leading to decreased blood levels of the ovarian sex hormones, estradiol, and progesterone. LH and FSH suppression begins within hours of administration and is readily reversible upon discontinuation of ORILISSA (see **10.1 Mechanism of Action**).

Safety and effectiveness of ORILISSA in patients less than 18 years of age has not been established.

No dose adjustment of ORILISSA is required in women with mild hepatic impairment (Child-Pugh A). ORILISSA 150 mg once daily is the recommended dose in women with moderate hepatic impairment (Child-Pugh B), with treatment duration limited to 6 months; the 200 mg twice daily dose is not recommended. ORILISSA is contraindicated in women with severe hepatic impairment (Child-Pugh C). See **2 CONTRAINDICATIONS** and **10.3 Pharmacokinetics**.

No dose adjustment of ORILISSA is required in women with any degree of renal impairment or end-stage renal disease (including women on dialysis). See **10.3 Pharmacokinetics**.

### Dose Modification for Pediatrics (< 18 years of age)

Health Canada has not authorized an indication for pediatric use (see **1.1 Pediatrics**).

### Dose Modifications for Geriatrics (> 65 years of age)

ORILISSA is not indicated in postmenopausal women and has not been studied in women over 65 years of age.

## 4.3 Reconstitution

Not applicable.

## 4.4 Administration

ORILISSA should be taken at approximately the same time each day, with or without food.

## 4.5 Missed Dose

If a woman misses a dose of ORILISSA she should be instructed to take it as soon as she remembers as long as it is on the same day. She should then resume the regular dosing schedule.

- 150 mg once a day: no more than 1 tablet each day should be taken.
- 200 mg twice a day: no more than 2 tablets each day should be taken.

## 5 OVERDOSAGE

In case of overdose, monitor the patient for any signs or symptoms of adverse reactions and initiate appropriate symptomatic treatment immediately.

For management of a suspected drug overdose, contact your regional poison control centre.

## 6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING

Table 1 - Dosage Forms, Strengths, Composition and Packaging

Route of Administration	Dosage Form / Strength/Composition	Non-medicinal Ingredients
oral	150 mg tablet (equivalent to 155.2 mg of elagolix sodium)	carmines high tint, magnesium stearate, mannitol, polyethylene glycol, polyvinyl alcohol, povidone, pregelatinized starch, sodium carbonate monohydrate, talc, and titanium dioxide
	200 mg tablet (equivalent to 207.0 mg of elagolix sodium)	iron oxide red, magnesium stearate, mannitol, polyethylene glycol, polyvinyl alcohol, povidone, pregelatinized starch, sodium carbonate monohydrate, talc, and titanium dioxide

ORILISSA is available as 150 mg and 200 mg film-coated tablets.

ORILISSA 150 mg tablets are light pink, oblong, debossed with EL 150 on one side and available as weekly treatment packs containing 7 tablets for 1 week of treatment. Four weekly treatment packs may be packaged in a carton for a total of 28 tablets.

ORILISSA 200 mg tablets are light orange, oblong, debossed with EL 200 on one side and available as weekly treatment packs containing 14 tablets for 1 week of treatment. Four weekly treatment packs may be packaged in a carton for a total of 56 tablets.

## 7 WARNINGS AND PRECAUTIONS

### General

ORILISSA is not a contraceptive drug. Therefore, women should use an effective method of contraception not containing an estrogen while being treated with ORILISSA. In case of a suspected pregnancy, treatment with ORILISSA should be interrupted until the diagnosis of pregnancy has been excluded (see subsection **Reproductive Health: Female and Male Potential, Reproduction**).

### Endocrine and Metabolism

#### ***Decrease in Bone Mineral Density***

ORILISSA causes a dose-dependent decrease in bone mineral density (BMD). BMD loss is greater with increasing duration of use and may not be completely reversible after stopping treatment. The impact of these BMD decreases on long-term bone health and future fracture risk are unknown. Consider assessment of BMD in patients with a history of a low-trauma fracture or other risk factors for osteoporosis or bone loss, and do not use in women with known osteoporosis. Limit the duration of use to reduce the extent of bone loss. See **8.3 Less Common Clinical Trial Adverse Reactions**.

Clinical trials evaluating the effect of ORILISSA on bone mineral density beyond 12 months are not available. If use of ORILISSA continues for longer than 12 months, it is recommended that BMD be assessed by dual energy X-ray absorptiometry (DXA). Discontinue ORILISSA if BMD Z-score is lower than -2.0. The loss of BMD in premenopausal women should be considered in the benefit/risk assessment for women receiving ORILISSA.

Consider assessment of BMD sooner than at 12 months in patients who are at greater risk of low BMD. Risk factors include patients taking ORILISSA 200 mg twice daily, prior use of gonadotropin-releasing hormone (GnRH) agonists, metabolic bone disease, chronic alcohol and/or tobacco use, anorexia nervosa, strong family history of osteoporosis, or chronic use of drugs that can reduce bone mass such as anticonvulsants or corticosteroids.

Although there were no studies addressing whether calcium and vitamin D may lessen BMD loss in women using ORILISSA, all patients should have adequate calcium and vitamin D intake.

## **Hepatic/Biliary/Pancreatic**

### ***Hepatic Transaminase Elevations***

In clinical trials, dose-dependent elevations of serum alanine aminotransferase (ALT) at least 3 times the upper limit of the reference range occurred with ORILISSA.

Use the lowest effective dose of ORILISSA and instruct patients to promptly seek medical attention in case of symptoms or signs that may reflect liver injury, such as jaundice. Promptly evaluate patients with elevations in liver tests to determine whether the benefits of continued therapy outweigh the risks (see **8.4 Abnormal Laboratory Findings: Hematologic, Clinical Chemistry and Other Quantitative Data**).

## **Monitoring and Laboratory Tests**

See subsections **Endocrine and Metabolism, Decrease in Bone Mineral Density** and **Hepatic/Biliary/Pancreatic, Hepatic Transaminase Elevations**.

## **Psychiatric**

### ***Suicidal Ideation, Suicidal Behavior, and Exacerbation of Mood Disorders***

Suicidal ideation and behavior, including one completed suicide, occurred in patients treated with ORILISSA in the endometriosis clinical trials. ORILISSA patients had a higher incidence of depression and mood changes compared to placebo, and ORILISSA patients with a history of suicidality or depression had a higher incidence of depression compared to patients without such a history (see **8.3 Less Common Clinical Trial Adverse Drug Reactions**). Promptly evaluate patients with depressive symptoms to determine whether the risks of continued therapy outweigh the benefits.

## **Renal**

No dose adjustment of ORILISSA is required in women with any degree of renal impairment or end-stage renal disease (including women on dialysis) (see **10.3 Pharmacokinetics**).

## **Reproductive Health: Female and Male Potential**

- **Fertility**

There are no data available in humans for effects of elagolix on male or female fertility. In a 3-month healthy female volunteer study, ORILISSA did not affect anti-Mullerian hormone (AMH), a biomarker used to estimate ovarian reserve; the effect of ORILISSA on antral follicle count is unknown.

In a 3-month folliculogenesis study in young women who received multiple doses of elagolix, the median number of days from last dose of elagolix to return of light bleeding (menses) was 16 and 21 days for the 150 mg once daily and 200 mg twice daily groups, respectively.

No effect on fertility was observed in the rat fertility study; however, the results from this study are limited, due to relatively low binding affinity of elagolix to rat GnRH receptors (see **16 NON-CLINICAL TOXICOLOGY**).

- **Menstrual Bleeding Pattern**

Women who take ORILISSA may experience changes in their normal menstrual bleeding pattern, most often a decreased amount of menstrual flow or amenorrhea, which may reduce the ability to recognize the occurrence of pregnancy (see **14.2 Study Results**). Women should be counseled regarding the bleeding pattern changes they may experience.

Upon stopping ORILISSA therapy, the majority of women reported a menstrual period within 1 month.

- **Reproduction**

Exclude pregnancy before initiating treatment with ORILISSA. Perform pregnancy testing if pregnancy is suspected, and discontinue ORILISSA if pregnancy is confirmed (see **2 CONTRAINDICATIONS**). Exposure to ORILISSA during pregnancy may increase the risk of early pregnancy loss. ORILISSA is not a contraceptive and women on ORILISSA may ovulate and may become pregnant (see **10.2 Pharmacodynamics**). Women should use effective methods of contraception.

#### **Effect on ORILISSA**

Based on the mechanism of action of ORILISSA, estrogen containing contraceptives are expected to reduce the efficacy of ORILISSA. Therefore, consideration should be given to non-hormonal methods or progestin only containing contraceptives e.g. implants, progestin-coated intrauterine device (IUD), or progestin-only pill (POP) (e.g. norethindrone acetate). The effect of progestin-only contraceptives on the efficacy of ORILISSA is unknown. Contraception should be continued for 1 week after ORILISSA discontinuation. Advise women to notify their healthcare provider and discontinue treatment if they suspect they may be pregnant. Inform the patient of potential risk to the fetus (see **7.1.1 Pregnant Women**).

#### **Effect on Contraceptive**

ORILISSA 200 mg twice daily co-administered with a combined oral contraceptive (COC) containing 20 mcg ethinyl estradiol (EE)/0.1 mg levonorgestrel increases the exposures of EE by 2.2-fold. If co-administration with EE cannot be avoided, limit the dose of EE to no more than 20 mcg as higher doses may lead to increased risk of EE-associated adverse events including thromboembolic disorders and vascular events.

Co-administration of ORILISSA 200 mg twice daily and a COC containing 0.1 mg levonorgestrel decreases the plasma concentrations of levonorgestrel by 27%, potentially affecting contraceptive efficacy. Co-administration of ORILISSA with COCs containing norethindrone acetate did not show reduction in plasma concentrations of norethindrone (see **9 DRUG INTERACTIONS** and **10 CLINICAL PHARMACOLOGY**).

Co-administration of ORILISSA with progestin-containing intrauterine contraceptive systems has not been studied.



## 7.1 Special Populations

### 7.1.1 Pregnant Women

ORLISSA is contraindicated in women who are, suspect that they are, or may become pregnant during the course of therapy. Discontinue ORLISSA if pregnancy occurs during treatment.

Based on mechanism of action of GnRH receptor antagonists in humans, there is a risk that ORLISSA may cause a decrease in luteal progesterone production in early pregnancy and may be associated with potential increased risk of pregnancy complications, such as early pregnancy loss.

In animal studies where pregnant rats and rabbits were dosed with elagolix during the period of organogenesis, there was no evidence of fetal malformations even at the highest, maternally toxic doses. A single total litter loss and 3 abortions (out of 20 pregnancies) were observed at the maternally toxic dose in rabbits; a single total litter loss was observed at a non-maternally toxic dose. Post-implantation loss and increased incidence of visceral and skeletal variations were observed in rats at maternally toxic doses. The relevance of these findings to humans is uncertain (see **16 NON-CLINICAL TOXICOLOGY**).

In a rat pre- and post-natal development study, there were no fetal malformations (only external evaluated) at either tested dose where maternal plasma concentrations were less than at the MRHD.

There are no adequate and well-controlled studies related to use of elagolix in pregnant women.

In clinical studies of more than 3500 women (of which more than 2000 women had endometriosis) treated with ORLISSA for up to 12 months, there were 49 pregnancies reported. These 49 women became pregnant while receiving ORLISSA treatment or within 30 days after stopping ORLISSA treatment. Among these 49 pregnancies, 2 major congenital malformations were reported. In one case of infant cleft palate, the mother was treated with ORLISSA 150 mg once daily and the estimated fetal exposure to ORLISSA was the first 30 days of pregnancy. In one case of infant tracheoesophageal fistula accompanied by patent ductus arteriosus, tricuspid valve incompetence, pneumothorax, and atelectasis, the mother was treated with ORLISSA 150 mg once daily and the estimated fetal exposure to ORLISSA was the first 15 days of pregnancy. A causality assessment of these malformations suggests that both cases were unlikely related to ORLISSA based on timing of exposure relative to organogenesis, lack of a clustering pattern, and lack of mechanism of action based findings. However, whether there is a true relationship remains unknown.

In addition, among these 49 pregnancies, there were 5 cases of spontaneous abortion (miscarriage) compared to 5 cases among the 20 pregnancies that occurred in more than 1100 women treated with placebo. Although the duration of fetal exposure was limited in ORLISSA clinical trials, there were no apparent decreases in birth weights associated with ORLISSA treatment in comparison to placebo.

### 7.1.2 Breast-feeding

It is not known whether ORLISSA and its metabolites are present in human breast milk, affect human milk production or have effects on the breastfed infant. Because many drugs are secreted into human milk, a decision should be made to discontinue nursing or delay initiation of ORLISSA until the mother is no longer breastfeeding.

Low amounts of elagolix have been detected in rat pups from maternal exposure (see **16 NON-CLINICAL TOXICOLOGY**).

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

### 7.1.3 Pediatrics

**Pediatrics (< 18 years of age):** Safety and effectiveness of ORILISSA in patients less than 18 years of age has not been established; therefore, Health Canada has not authorized an indication for pediatric use.

### 7.1.4 Geriatrics

**Geriatrics (> 65 years of age):** ORILISSA is not indicated in postmenopausal women and has not been studied in women over 65 years of age.

## 8 ADVERSE REACTIONS

### 8.1 Adverse Reaction Overview

The most frequent ( $\geq 10\%$ ) adverse reactions reported in clinical trials with ORILISSA were hot flush, headache, and nausea.

In the 2 controlled studies (ELARIS EM-I and ELARIS EM-II), serious adverse reactions were reported in 2.7% patients treated with ORILISSA and 3.3% patients treated with placebo.

In the 2 controlled studies, 5.5% of patients treated with ORILISSA 150 mg once daily and 9.6% of patients treated with 200 mg twice daily discontinued therapy due to adverse reactions. Discontinuations for both dosage forms (150 mg once daily and 200 mg twice daily) were most commonly due to hot flush (0.8 and 2.5%, respectively) and nausea (0.8 and 1.5%, respectively). The majority of discontinuation due to hot flushes and nausea occurred within the first 2 months of therapy. No woman discontinued ORILISSA 150 mg once daily for hot flushes during the extension study after receiving it for 6 months in the controlled study.

### 8.2 Clinical Trial Adverse Reactions

Clinical trials are conducted under very specific conditions. The adverse reaction rates observed in the clinical trials; therefore, may not reflect the rates observed in practice and should not be compared to the rates in the clinical trials of another drug. Adverse reaction information from clinical trials may be useful in identifying and approximating rates of adverse drug reactions in real-world use.

The safety of ORILISSA was evaluated in two 6-month placebo-controlled clinical studies (ELARIS EM-I and ELARIS EM-II) in which a total of 952 women were treated with 150 mg once daily or with 200 mg twice daily. The population age range was 18 to 49 years old. Women who completed 6 months of treatment and met eligibility criteria would have treatment continue in 2 blinded 6-month extension studies for a total treatment duration of up to 12 months.

Adverse reactions reported in  $\geq 5\%$  of women in the 2 placebo-controlled studies in either ORILISSA dose group and at a greater frequency than placebo are described in **Table 2**.

**Table 2 - Percentage of Patients in Studies ELARIS EM-I and ELARIS EM-II with Treatment-Emergent Adverse Reactions Occurring in at Least 5% of Patients (either ORILISSA Dose Group) and Greater than Placebo<sup>a</sup>**

	<b>ORILISSA 150 mg once daily n = 475 (%)</b>	<b>ORILISSA 200 mg twice daily n = 477 (%)</b>	<b>Placebo n = 734 (%)</b>
<b>Gastrointestinal Disorders</b>			
Nausea	11	16	13
<b>Infections and Infestations</b>			
Nasopharyngitis	6	6	4
Sinusitis	5	6	4
Upper Respiratory Tract Infection	6	4	5
<b>Musculoskeletal and Connective Tissue Disorder</b>			
Arthralgia	3	5	3
<b>Nervous System Disorders</b>			
Headache	17	20	12
<b>Psychiatric Disorders</b>			
Anxiety	3	5	3
Insomnia	6	9	3
<b>Reproductive System and Breast Disorders</b>			
Amenorrhoea <sup>b</sup>	4	7	< 1
<b>Vascular Disorders</b>			
Hot Flush	23	45	9
a. MedDRA version of 19.1 b. See <b>14 CLINICAL TRIALS</b> .			

Events of hot flushes were dose-dependent and the majority were assessed as mild to moderate. All other adverse events were comparable between both doses of ORILISSA.

The adverse reaction profile in the extension studies was similar to those noted in placebo-controlled studies (**Table 2**) and no additional treatment-emergent adverse reactions were reported.

### 8.3 Less Common Clinical Trial Adverse Reactions

In Studies ELARIS EM-I and ELARIS EM-II, adverse reactions reported in  $\geq 3$  and  $< 5\%$  in either ORILISSA dose group and greater than placebo included:

Gastrointestinal Disorders: diarrhoea, abdominal pain, constipation

Investigations: weight increased

Nervous System Disorders: dizziness

Psychiatric Disorders: depression, irritability, libido decreased, mood swings

Skin and Subcutaneous Tissue Disorders: night sweats

#### Decrease in Bone Mineral Density

The effect of ORILISSA on BMD was assessed by dual-energy X-ray absorptiometry (DXA).

In the placebo-controlled Phase 3 studies there was a dose-dependent decrease in BMD in ORILISSA-treated patients compared to an increase in placebo-treated patients.

In Study ELARIS EM-I, compared to placebo, the mean change from baseline in lumbar spine BMD at 6 months was  $-0.9\%$  (95% CI:  $-1.3, -0.4$ ) with ORILISSA 150 mg once daily and  $-3.1\%$  (95% CI:  $-3.6, -2.6$ ) with ORILISSA 200 mg twice daily (Table 3). The percentage of patients with greater than 8% BMD decrease in the lumbar spine, total hip or femoral neck at any time point during the placebo-controlled treatment period was 2% with ORILISSA 150 mg once daily, 7% with ORILISSA 200 mg twice daily and  $< 1\%$  with placebo. In the blinded extension, continued bone loss was observed with 12 months of continuous treatment with ORILISSA. The percentage of patients with greater than 8% BMD decrease in the lumbar spine, total hip or femoral neck at any time point during the extension treatment period was 8% with continuous ORILISSA 150 mg once daily and 21% with continuous ORILISSA 200 mg twice daily.

In Study ELARIS EM-II, compared to placebo, the mean change from baseline in lumbar spine BMD at 6 months was  $-1.3\%$  (95% CI:  $-1.8, -0.8$ ) with ORILISSA 150 mg once daily and  $-3.0\%$  (95% CI:  $-3.5, -2.6$ ) with ORILISSA 200 mg twice daily (Table 3). The percentage of patients with greater than 8% BMD decrease in the lumbar spine, total hip or femoral neck at any time point during the placebo-controlled treatment period was  $< 1\%$  with ORILISSA 150 mg once daily, 6% with ORILISSA 200 mg twice daily and 0% with placebo. In the blinded extension, continued bone loss was observed with 12 months of continuous treatment with ORILISSA. The percentage of patients with greater than 8% BMD decrease in the lumbar spine, total hip or femoral neck at any time point during the extension treatment period was 2% with continuous ORILISSA 150 mg once daily and 21% with continuous ORILISSA 200 mg twice daily.

**Table 3 - Percent Change from Baseline in Lumbar Spine BMD at Month 6**

	ORILISSA 150 mg once daily	ORILISSA 200 mg twice daily	Placebo
<b>Study ELARIS EM-I</b>			
n	183	180	277
Percent Change from Baseline	-0.3	-2.6	0.5
Treatment Difference, % (95% CI)	-0.9 (-1.3, -0.4)	-3.1 (-3.6, -2.6)	

	ORILISSA 150 mg once daily	ORILISSA 200 mg twice daily	Placebo
<b>Study ELARIS EM-II</b>			
n	174	183	271
Percent Change from Baseline	-0.7	-2.5	0.6
Treatment Difference, % (95% CI)	-1.3 (-1.8, -0.8)	-3.0 (-3.5, -2.6)	

To assess for recovery of BMD loss, the change in lumbar spine BMD over time was analyzed for patients who received continuous treatment with ORILISSA 150 mg once daily or ORILISSA 200 mg twice daily for up to 12 months and who were then followed after cessation of therapy for an additional 6 months. Partial recovery of BMD was seen in these patients.

#### **Suicidal Ideation, Suicidal Behavior, and Exacerbation of Mood Disorders**

In the placebo-controlled trials, reports of adverse mood changes (depressed mood, depression, depressive symptoms and/or tearfulness) were numerically more frequent in patients receiving ORILISSA, particularly in those with a history of depression.

Among the 2090 patients exposed to ORILISSA during the Phase 2 and Phase 3 studies, there were 4 reports of suicidal ideation. In 3 cases, there was a history of depression. Two patients discontinued ORILISSA and 2 completed the clinical trial treatment periods. A 44 year old woman committed suicide 2 days after discontinuation of ORILISSA 150 mg once daily, taken for 31 days. She had no relevant past medical history, but was experiencing life stressors.

#### **Endometrial Safety**

Endometrial biopsies were performed in patients in Study ELARIS EM-I and its extension (ELARIS EM-III) at Month 6 and Month 12. The results indicate a dose-dependent decrease in proliferative and secretory biopsy patterns and an increase in quiescent/minimally stimulated biopsy patterns. There were no abnormal biopsy findings post-baseline, such as endometrial hyperplasia or cancer.

Based on transvaginal ultrasound, during the course of a 3-menstrual cycle study in healthy women, ORILISSA 150 mg once daily and 200 mg twice daily resulted in a dose-dependent decrease in the mean endometrial thickness compared to the pre-treatment values.

### **8.4 Abnormal Laboratory Findings: Hematologic, Clinical Chemistry and Other Quantitative Data**

#### **Clinical Trial Findings**

##### **Hepatic Transaminase Elevations**

In the placebo-controlled clinical trials, dose-dependent asymptomatic elevations of serum ALT to at least 3 times the upper limit of the reference range occurred during treatment with ORILISSA (150 mg once daily -1/450 [0.2%]; 200 mg twice daily -5/443 [1.1%]; placebo -1/696 [0.1%]). Similar increases were seen in the extension clinical trials.

##### **Lipids**

Dose-dependent increases in total cholesterol, low density lipoprotein cholesterol (LDL-C), high density lipoprotein cholesterol (HDL-C), and triglycerides were noted during ORILISSA treatment.

Lipid increases typically occurred within 1 to 2 months after the start of ORILISSA therapy and remained stable thereafter over 12 months. Elevated levels of lipids returned to baseline 1 month after stopping treatment.

The mean increase from pre-treatment baseline in LDL-C was 0.136 mmol/L for 150 mg once daily and 0.339 mmol/L for 200 mg twice daily. The mean increase from pre-treatment baseline in HDL-C was 0.058 mmol/L for 150 mg once daily and 0.108 mmol/L for 200 mg twice daily. The mean increase from pre-treatment baseline in triglycerides was 0.005 mmol/L for 150 mg once daily and 0.125 mmol/L for 200 mg twice daily following 6-month treatment of ORILISSA. Among patients with mildly elevated lipid levels at baseline, further increases in lipid levels occurred more frequently in patients receiving ORILISSA than those in patients receiving placebo.

Changes in lipid ratios were minimal due to increases in both LDL-C and HDL-C.

Lipid profiles should be assessed and managed according to current clinical practice guidelines.

## 8.5 Post-Market Adverse Reactions

The following adverse reactions have been identified during post-approval use of ORILISSA. 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.

Immune system disorders: hypersensitivity reactions, some of which were considered serious (including anaphylaxis, angioedema, and urticaria)

## 9 DRUG INTERACTIONS

### 9.2 Drug Interactions Overview

Elagolix is a weak to moderate inducer of cytochrome P450 (CYP) 3A enzyme. Co-administration with ORILISSA may decrease plasma concentration of drugs that are substrates of CYP3A.

Elagolix is an inhibitor of the efflux transporter P-glycoprotein (P-gp). Co-administration with ORILISSA may increase plasma concentrations of drugs that are substrates of P-gp.

Elagolix is a weak inhibitor of CYP 2C19. Co-administration with ORILISSA may increase plasma concentrations of drugs that are substrates of CYP2C19.

Elagolix is a substrate of CYP3A, P-gp, and organic anion transporting polypeptide (OATP)1B1.

Co-administration of ORILISSA with drugs that induce CYP3A may decrease elagolix plasma concentrations. Strong CYP3A inducers are not recommended with ORILISSA.

Co-administration of elagolix with CYP3A inhibitors may increase elagolix plasma concentrations. Concomitant use of ORILISSA 200 mg twice daily and strong CYP3A inhibitors for more than 1 month is not recommended. Limit concomitant use of ORILISSA 150 mg once daily and strong CYP3A inhibitors to 6 months.

The effect of concomitant use of P-gp inhibitors or inducers on the pharmacokinetics of ORILISSA is unknown.

Co-administration of ORILISSA with drugs that inhibit OATP1B1 may increase elagolix plasma concentrations. Use of potent OATP1B1 inhibitors is contraindicated with ORILISSA.

### 9.3 Drug-Behavioural Interactions

#### Driving and Operating Machinery

ORLISSA is unlikely to affect the ability to drive and use machines as it is not distributed in the central nervous system.

### 9.4 Drug-Drug Interactions

#### Pharmacokinetic Interactions

##### *Effects of Other Co-administered Drugs on Elagolix*

Elagolix is a substrate for CYP3A; co-administration of elagolix with CYP3A inhibitors, such as ketoconazole, may increase elagolix plasma concentrations (see **Table 4**). Concomitant use of ORLISSA 200 mg twice daily and strong CYP3A inhibitors for more than 1 month is not recommended. Limit concomitant use of ORLISSA 150 mg once daily and strong CYP3A inhibitors to 6 months.

Co-administration of ORLISSA with drugs that induce CYP3A may decrease elagolix plasma concentrations. Strong CYP3A inducers are not recommended with ORLISSA.

Elagolix is a substrate for P-glycoprotein (P-gp). The effect of concomitant use of P-gp inhibitors or inducers on the pharmacokinetics of ORLISSA is unknown.

Elagolix is a substrate of organic anion transporting polypeptide (OATP)1B1. Co-administration of ORLISSA with drugs that inhibit OATP1B1 may increase elagolix plasma concentrations. Use of potent OATP1B1 inhibitors is contraindicated with ORLISSA (see **2 CONTRAINDICATIONS**).

Elagolix pharmacokinetics was not significantly affected with the co-administration of rosuvastatin (20 mg once daily), sertraline (25 mg once daily), and fluconazole (200 mg single dose) in healthy subjects.

The drugs listed in this table are based on either drug interaction case reports or studies, or potential interactions due to the expected magnitude and seriousness of the interaction (i.e., those identified as contraindicated).

**Table 4 - Effects of Other Drugs on the Pharmacokinetics of Elagolix**

Co-administered drug	Dose of co-administered drug	Dose of Elagolix	Central Value Ratio <sup>a</sup> (ratio with/without co-administered drug); No effect = 1.00		Clinical comment
			C <sub>max</sub>	AUC	
<b>ANTIFUNGAL</b>					
ketoconazole	400 mg QD, 4 days	150 mg, single dose	1.77	2.20	Concomitant use of ORILISSA 200 mg twice daily and strong CYP3A inhibitors for more than 1 month is not recommended. Limit concomitant use of ORILISSA 150 mg once daily and strong CYP3A inhibitors to 6 months.
<b>ANTIMYCOBACTERIAL</b>					
rifampin <sup>b</sup>	600 mg, single dose	150 mg, single dose	4.37	5.58	Concomitant use of elagolix 200 mg twice daily and rifampin should be avoided. Limit concomitant use of ORILISSA 150 mg once daily and rifampin to 6 months.
	600 mg QD, 10 days		2.00	1.65	
<p>a. Ratios indicate C<sub>max</sub> and AUC values for co-administration of the medication with elagolix vs. administration of elagolix alone</p> <p>b. A single dose of 600 mg rifampin inhibits OATP1B1; 600 mg once daily dose of rifampin inhibits OATP1B1 and induces CYP3A.</p> <p>AUC = area under the plasma concentration-time curve; C<sub>max</sub> = peak concentration; QD = once daily</p>					

**Effects of Elagolix on Other Co-administered Drugs**

Elagolix is a weak to moderate inducer of CYP3A enzyme. ORILISSA may decrease plasma concentration of drugs that are substrates of CYP3A (e.g. midazolam, see **Table 5**).

Elagolix is a weak inhibitor of CYP2C19. Co-administration with ORILISSA may increase plasma concentrations of drugs that are substrates of CYP2C19 (e.g., omeprazole).



Elagolix is an inhibitor of efflux transporter P-gp. ORILISSA may increase plasma concentration of drugs that are substrates of P-gp. Co-administration of elagolix with single dose of digoxin (sensitive P-gp substrate) resulted in approximately 70% increase in digoxin  $C_{max}$ , relative to digoxin administered alone (see **Table 5**).

In vitro studies suggest that elagolix may inhibit the hepatic uptake transporters OATP1B1 and OAT1B3. However, co-administration of elagolix with multiple doses of rosuvastatin (OATP substrate) resulted in approximately 40% decrease in rosuvastatin AUC, relative to rosuvastatin administered alone.

Elagolix had no clinically relevant effect on the pharmacokinetics of bupropion (150 mg single dose), sertraline (25 mg once daily), and fluconazole (200 mg single dose) when co-administered in healthy subjects.

**Table 5 - Effects of Elagolix on the Pharmacokinetics of Other Drugs**

Co-administered drug	Dose of co-administered drug	Dose of Elagolix	Geometric mean ratio <sup>a</sup> (ratio with/without co-administered drug); No effect = 1.00		Clinical comment
			$C_{max}$	AUC	
<b>ANTIARRHYTHMICS</b>					
digoxin	0.5 mg, single dose	200 mg BID, 1 day	1.73	1.32	Clinical monitoring is recommended for digoxin when co-administered with ORILISSA.
		200 mg BID, 10 days	1.71	1.26	
<b>STATINS</b>					
rosuvastatin	20 mg QD, 8 days	300 mg BID, 1 day	1.67	0.88	Consider increasing the dose of rosuvastatin.
		300 mg BID, 7 days	0.99	0.60	
<b>BENZODIAZEPINES</b>					
midazolam	2 mg, single dose	150 mg QD, 13 days	0.81	0.65	Consider increasing the dose of midazolam and individualize therapy based on patient's response.
		300 mg BID, 10 days	0.56	0.46	

Co-administered drug	Dose of co-administered drug	Dose of Elagolix	Geometric mean ratio <sup>a</sup> (ratio with/without co-administered drug); No effect = 1.00		Clinical comment
			C <sub>max</sub>	AUC	
<b>ORAL CONTRACEPTIVES</b>					
norethindrone	0.35 mg QD, 4x 28 days	150 mg QD, 2x 28 days	↔	0.88	No dosage adjustment needed.
triphasic oral contraceptive	ethinyl estradiol 0.035 mg and triphasic norgestimate 0.18/0.215/0.25 mg QD, 3x 28 days	150 mg QD, 2x 28 days	ethinyl estradiol		Although the contraceptive effects of ethinyl estradiol are unlikely to be impacted, the efficacy of ORILISSA may be reduced. See <b>7 WARNINGS AND PRECAUTIONS</b> .
			1.15	1.30	
			norelgestromin <sup>b</sup>		
			0.87	0.85	
			norgestrel <sup>b</sup>		
↔	↔				
combined hormonal contraceptives	ethinyl estradiol 20 mcg and levonorgestrel 0.1 mg single dose	200 mg BID x 15 days	ethinyl estradiol		Advise women to use effective non-hormonal contraception during treatment with ORILISSA and for 7 days after discontinuing ORILISSA.
			1.36	2.18	
			levonorgestrel		
			0.97	0.73	
<b>PROTON PUMP INHIBITORS</b>					
omeprazole	40 mg single dose	300 mg BID, 9 days	1.95	1.78	No dose adjustments are needed for omeprazole at doses of 40 mg once daily or lower. When ORILISSA is used concomitantly with higher doses of omeprazole, e.g. in patients with Zollinger-Ellison syndrome, consider dosage reduction of omeprazole.

Co-administered drug	Dose of co-administered drug	Dose of Elagolix	Geometric mean ratio <sup>a</sup> (ratio with/without co-administered drug); No effect = 1.00		Clinical comment
			C <sub>max</sub>	AUC	
<p>a. Ratios indicate C<sub>max</sub> and AUC values for co-administration of the medication with elagolix versus administration of the medication alone</p> <p>b. Metabolites of norgestimate</p> <p>↔ = No change (central value ratio 90% confidence interval 0.80 to 1.25)</p> <p>AUC = area under the plasma concentration-time curve; BID = twice daily; C<sub>max</sub> = peak concentration; QD = once daily</p>					

## 9.5 Drug-Food Interactions

The administration of elagolix with food (high-fat meal) reduced the elagolix area under the plasma concentration-time curve from time 0 to infinity (AUC<sub>inf</sub>) by 24%, reduced the peak plasma concentration (C<sub>max</sub>) by 36%, and delayed the time to C<sub>max</sub> (T<sub>max</sub>) from 1 to 2 hours compared to administration under fasted conditions which is not expected to impact efficacy. ORILISSA may be administered with or without food (see **4.4 Administration** and **10.3 Pharmacokinetics**).

## 9.6 Drug-Herb Interactions

Interactions with herbal products have not been established.

## 9.7 Drug-Laboratory Test Interactions

Interactions with laboratory tests have not been established.

# 10 CLINICAL PHARMACOLOGY

## 10.1 Mechanism of Action

ORILISSA is a novel, orally administered, highly potent, short-acting, selective, non-peptide small molecule GnRH receptor antagonist that blocks endogenous GnRH signaling by binding competitively to GnRH receptors in the pituitary gland. Administration of ORILISSA results in dose-dependent suppression of luteinizing hormone (LH) and follicle-stimulation hormone (FSH) levels, leading to decreased blood levels of the ovarian sex hormones, estradiol and progesterone. LH and FSH suppression begin within hours of administration and is readily reversible upon discontinuation of ORILISSA.

## 10.2 Pharmacodynamics

### Effect on Ovulation and Estradiol

During the course of a 3-menstrual cycle study in healthy women, ORILISSA 150 mg once daily and 200 mg twice daily resulted in ovulation rate of approximately 50 and 32%, respectively. In the Phase 3 studies in women with endometriosis, partial suppression of estradiol to approximately 50 pg/mL (183.55 pmol/L) was observed for treatment with ORILISSA 150 mg once daily, whereas nearly full suppression of estradiol to approximately 12 pg/mL (44.05 pmol/L) was observed following treatment with ORILISSA 200 mg twice daily.

### Effect of ORILISSA on QT Interval

The effect of elagolix on the QTc interval was evaluated in a randomized, placebo- and positive-controlled, open-label, single-dose, crossover thorough QTc study in 48 healthy adult premenopausal women. Elagolix concentrations in subjects given a single dose of 1200 mg were 17 times higher than the concentration in subjects given elagolix 200 mg twice daily. There was no clinically relevant prolongation of the QTc interval.

## 10.3 Pharmacokinetics

The steady state pharmacokinetic parameters of ORILISSA in healthy subjects are provided in **Table 6**.

**Table 6 - Summary of Elagolix Steady State Pharmacokinetic Parameters**

Dosage	C <sub>max</sub> <sup>a</sup> (ng/mL)	AUC <sub>τ</sub> <sup>a</sup> (ng•hr/mL)	t <sub>½</sub> (h)	CL/F <sup>a,b</sup> (L/h)	V <sub>β</sub> /F <sup>a,b</sup> (L)
150 mg QD	574 (29)	1292 (31)	~ 6	123 (21)	1674 (94)
200 mg BID	774 (68)	1725 (57)	~ 4	144 (43)	881 (38)

a. Reported as mean (%CV)  
b. Based on population pharmacokinetic analysis  
AUC<sub>τ</sub> = area under the plasma concentration-time curve during the dosing interval (τ) i.e., 12 hours for twice daily (BID), 24 hours for once daily (QD); C<sub>max</sub> = peak concentration; CL/F = apparent clearance; V<sub>β</sub>/F = apparent volume of distribution at the terminal phase; CV = Coefficient of variation; t<sub>1/2</sub> = terminal phase elimination half-life

### Absorption

In healthy premenopausal women, oral administration of elagolix resulted in a rapid absorption with median time to maximum concentration in plasma (T<sub>max</sub>) values of approximately 1 hour. The administration of elagolix with a high-fat meal reduced the elagolix area under the plasma concentration-time curve from time 0 to infinity (AUC<sub>inf</sub>) by 24%, reduced the peak plasma concentration (C<sub>max</sub>) by 36%, and delayed the time to C<sub>max</sub> (T<sub>max</sub>) from 1 to 2 hours compared to administration under fasted conditions (see **9.5 Drug-Food Interactions**)

### Distribution

Elagolix is approximately 80% bound to human plasma proteins. The mean blood-to-plasma ratio was 0.6.

## Metabolism

Elagolix is primarily metabolized by CYP3A with minor contributions from CYP2D6, CYP2C8, and uridine glucuronosyltransferases (UGTs). Unchanged elagolix is the major drug-derived material in human plasma (> 90%).

## Elimination

The major route of elimination is by hepatic metabolism with 90 and < 3% of the dose excreted in feces and urine, respectively. O-demethyl metabolite and unchanged elagolix were the major components in the feces (37.6 and 26.3%, respectively). The terminal phase elimination half-life ( $t_{1/2}$ ) is 4 to 6 hours.

## Special Populations and Conditions

- **Pediatrics**

The pharmacokinetics of ORLISSA have not been investigated in women less than 18 years of age.

- **Geriatrics**

The pharmacokinetics of ORLISSA have not been investigated in women older than 65 years.

- **Genetic Polymorphism**

Disposition of elagolix involves the OATP1B1 transporter protein. Plasma concentrations of elagolix in patients who have 2 reduced function alleles of the gene that encodes OATP1B1 (SLCO1B1 521T>C) are expected to be 78% higher than in patients without this genotype. The frequency of this SLCO1B1 521 C/C genotype is generally less than 5% in most racial/ethnic groups. No dose adjustment of ORLISSA is required based on OATP1B1 genotype status.

- **Ethnic origin**

No clinically meaningful difference in the pharmacokinetics of ORLISSA between White and Black subjects or between Hispanic and other subjects was observed. There is no clinically meaningful difference in the pharmacokinetics of ORLISSA between Japanese and Han Chinese subjects. No dose adjustment of ORLISSA is required based on race or ethnicity.

- **Hepatic Insufficiency**

Elagolix exposures ( $C_{max}$  and AUC) are similar between women with normal hepatic function and women with mild hepatic impairment. Elagolix exposures in women with moderate and severe hepatic impairment are approximately 3- and 7-fold, respectively, higher than exposures from women with normal hepatic function (see **4.2 Recommended Dose and Dosage Adjustment**).

- **Renal Insufficiency**

Elagolix exposures ( $C_{max}$  and AUC) are not altered by renal impairment. The mean exposures are similar for women with moderate to severe or end-stage renal disease (including women on dialysis) compared to women with normal renal function (see **4.2 Recommended Dose and Dosage Adjustment**).

- **Obesity**

No dose adjustment of ORLISSA is required based on body weight or body mass index.

## **11 STORAGE, STABILITY AND DISPOSAL**

### **Temperature:**

Store between 2 and 30°C.

### **Others:**

Keep out of reach and sight of children.

## **12 SPECIAL HANDLING INSTRUCTIONS**

There are no special handling instructions.

## PART II: SCIENTIFIC INFORMATION

### 13 PHARMACEUTICAL INFORMATION

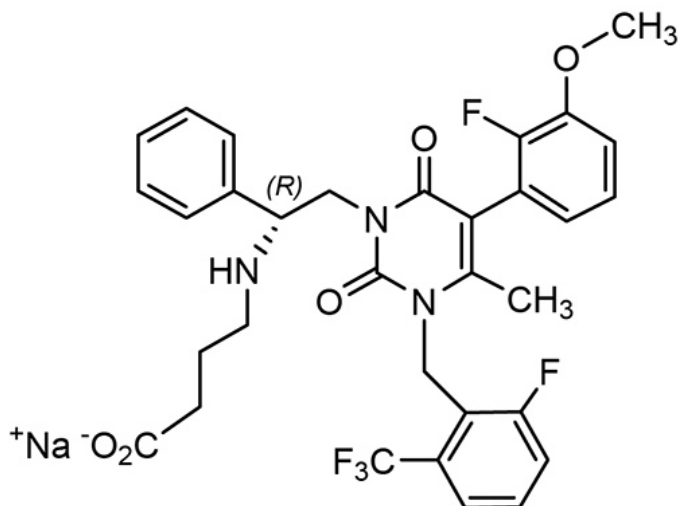
#### Drug Substance

Proper name: elagolix (INN)  
elagolix sodium (USAN)

Chemical name: Sodium 4-({(1*R*)-2-[5-(2-fluoro-3-methoxyphenyl)-3-[[2-fluoro-6-(trifluoromethyl)phenyl]methyl]-4-methyl-2,6-dioxo-3,6-dihydropyrimidin-1(2*H*)-yl]-1-phenylethyl)amino)butanoate

Molecular formula and molecular mass: C<sub>32</sub>H<sub>29</sub>F<sub>5</sub>N<sub>3</sub>O<sub>5</sub> • Na  
653.58 g/mol (salt); 631.60 g/mol (free form)

Structural formula:



Physicochemical properties: White to off white to light yellow powder and is freely soluble in water

## 14 CLINICAL TRIALS

### 14.1 Trial Design and Study Demographics

The efficacy and safety of ORILISSA (elagolix) 150 mg once daily and 200 mg twice daily in the management of moderate to severe pain associated with endometriosis was demonstrated in 2 double-blind, randomized, placebo-controlled, multicentre, Phase 3 studies (Study ELARIS EM-I [M12-665] and ELARIS EM-II [M12-671]) and 2 uncontrolled, blinded extension studies (ELARIS EM-III [Study M12-667] and ELARIS EM-IV [M12-821]).

Premenopausal women 18 to 49 years of age with endometriosis were eligible for enrollment if they reported 2 or more days of dysmenorrhea (DYS) and non-menstrual pelvic pain (NMPP) scores  $\geq 2$ , a mean daily NMPP score of at least 0.5, and either a mean daily NMPP score of at least 1.0 or at least 4 days of moderate or severe NMPP in the last 35 days of the Screening period.

Each placebo-controlled study assessed the reduction in endometriosis-associated pain over 6 months of treatment. More than 75% of women who completed Study ELARIS EM-I and ELARIS EM-II enrolled in the extension studies for an additional 6-month treatment period. Patients were followed up for up to 12 months after they completed their treatment.

A total of 872 patients in Study ELARIS EM-I and 817 patients in Study ELARIS EM-II were randomized to placebo or 1 of the 2 elagolix doses. At Baseline, the majority of the patients were in their 30s and were white in both studies. The majority of patients used NSAIDs and/or opioids for pain management at baseline. There were no significant differences between treatment groups among baseline demographic characteristics in each study (**Table 7**).

**Table 7 - Summary of Patient Demographic and Baseline Characteristics from Studies ELARIS EM-I (M12 665) and ELARIS EM-II (M12-671)**

	ELARIS EM-I (M12-665)			ELARIS EM-II (M12-671)		
	Placebo	ORILISSA		Placebo	ORILISSA	
		150 mg QD	200 mg BID		150 mg QD	200 mg BID
Characteristics	n = 374	n = 249	n = 248	n = 360	n = 226	n = 229
Median age (Min – Max), y	31 (18-48)	32 (19-48)	31 (18-47)	33 (18-49)	33 (20-49)	34 (18-47)
Race, %						
White	86.4	88.8	86.7	89.4	87.6	90.4
Black	8.8	7.6	9.7	8.1	11.1	7.9
Other	4.8	3.6	3.6	2.5	1.3	1.7
BMI, kg/m <sup>2</sup> , mean (SD) <sup>a</sup>	28 (6)	28 (6)	28 (6)	27 (6)	27 (7)	27 (7)
Months since surgical diagnosis, mean (SD)	45 (30)	41 (29)	40 (27)	46 (39)	42 (36)	52 (41)
DYS, mean score (SD) <sup>b</sup>	2.2 (0.5)	2.2 (0.5)	2.2 (0.5)	2.2 (0.5)	2.2 (0.5)	2.1 (0.5)



	ELARIS EM-I (M12-665)			ELARIS EM-II (M12-671)		
		ORILISSA			ORILISSA	
	Placebo	150 mg QD	200 mg BID	Placebo	150 mg QD	200 mg BID
Characteristics	n = 374	n = 249	n = 248	n = 360	n = 226	n = 229
NMPP, mean score (SD) <sup>b</sup>	1.6 (0.5)	1.6 (0.5)	1.6 (0.5)	1.6 (0.5)	1.7 (0.5)	1.6 (0.5)
DYSP, mean score (SD) <sup>b</sup>	1.5 (0.8)	1.5 (0.8)	1.6 (0.9)	1.5 (0.8)	1.5 (0.9)	1.4 (0.9)
NRS, mean score (SD) <sup>c</sup>	5.6 (1.6)	5.7 (1.7)	5.5 (1.6)	5.6 (1.8)	5.7 (1.8)	5.3 (1.8)
BMD, lumbar spine, mean Z-score	0.46	0.49	0.48	0.46	0.26	0.41
BMD, total hip, mean Z-score	0.34	0.44	0.36	0.36	0.23	0.28
BMD, femoral neck, mean Z-score	0.23	0.37	0.26	0.37	0.25	0.33
Analgesic Use, % <sup>d</sup>						
None	7.2	13.7	6.0	9.4	9.3	10.0
NSAID only	36.4	26.1	32.3	28.1	34.1	30.1
Opioid	19.0	18.1	21.4	15.6	14.6	12.2
NSAID and opioid	37.4	42.2	40.3	46.9	42.0	47.6
ANOVA = analysis of variance; BID = twice daily; BMI = body mass index; BMD = bone mineral density; DYS = dysmenorrhea; DYSP = dyspareunia; NMPP = non-menstrual pelvic pain; NRS = numeric rating scale; NSAID = anti-inflammatory drug; QD = once daily; SD = standard deviation.						
a. Heterogeneity among treatment groups was assessed for age and BMI using a one-way ANOVA model with treatment as the main effect, and there were no significant differences.						
b. Pain scale ranges from 0 (none) to 3 (severe), and was recorded in a daily electronic diary. "Not applicable" was also a choice for dyspareunia; patients who reported "not applicable" for the entire analysis window are excluded from analysis.						
c. Participants provided daily self-assessments of endometriosis-associated pain (scale of 0 – 10, no pain to worst pain ever).						
d. Analgesic use for baseline window (i.e., 35 days).						

## 14.2 Study Results

### Reduction in Pain

The co-primary efficacy endpoints were the proportion of responders for dysmenorrhea and pelvic pain not related to menses (also known as non-menstrual pelvic pain [NMPP]) at Month 3 compared to placebo. Women used an electronic diary to report daily pain assessments, protocol-specified rescue analgesic use, and uterine bleeding. The portion of the diary assessing dysmenorrhea, non-menstrual pelvic pain, and dyspareunia make up the Endometriosis Daily Pain Impact Diary. The primary analysis

independently evaluated these endpoints using the daily diary that asked patients to assess their pain and its impact on their daily activities, over the previous 24 hours. The Daily Endometriosis Pain Impact Scale, consisted of patient reported pain levels of None, Mild, Moderate, or Severe (correlating with score of 0 to 3, respectively) and included a functional component for each score.

Women were responders if they experienced clinically meaningful reduction in dysmenorrhea and/or NMPP with no increased analgesic use for endometriosis associated pain. These clinically meaningful reductions corresponded to patients' assessment of pain as "much improved", or "very much improved".

A higher proportion of women treated with ORILISSA 150 mg once daily or 200 mg twice daily were responders for dysmenorrhea and NMPP versus placebo in a dose-dependent manner at Month 3. The persistence of efficacy was observed through Month 6 (Table 8).

Dyspareunia was evaluated as a secondary endpoint using the Daily Endometriosis Pain Impact Scale.

A higher proportion of women treated with ORILISSA 200 mg twice daily reported clinically meaningful reduction in dyspareunia versus placebo at Month 3 through Month 6.

**Table 8 - Proportion and Number of Responders<sup>a</sup> for Dysmenorrhea, Non-Menstrual Pelvic Pain and Dyspareunia at Month 3 and Month 6 in Studies ELARIS EM-I and ELARIS EM-II, using the Daily Endometriosis Pain Impact Scale**

	ELARIS EM-I			ELARIS EM-II		
	ORILISSA		Placebo	ORILISSA		Placebo
	150 mg once daily % (n/N)	200 mg twice daily % (n/N)	% (n/N)	150 mg once daily % (n/N)	200 mg twice daily % (n/N)	% (n/N)
Dysmenorrhea <sup>a</sup> (Month 3)	46.4 <sup>c</sup> (115/248)	75.8 <sup>c</sup> (185/244)	19.6 (73/373)	43.4 <sup>c</sup> (96/221)	72.4 <sup>c</sup> (163/225)	22.7 (80/353)
Dysmenorrhea (Month 6) <sup>b</sup>	42.1 <sup>c</sup> (104/247)	75.3 <sup>c</sup> (183/243)	23.1 (86/372)	46.2 <sup>c</sup> (102/221)	76.9 <sup>c</sup> (173/225)	25.4 (90/355)
Non-Menstrual Pelvic Pain (Month 3)	50.4 <sup>c</sup> (125/248)	54.5 <sup>c</sup> (133/244)	36.5 (136/373)	49.8 <sup>d</sup> (110/221)	57.8 <sup>c</sup> (130/225)	36.5 (129/353)
Non-Menstrual Pelvic Pain (Month 6) <sup>b</sup>	45.7 <sup>d</sup> (113/247)	62.1 <sup>c</sup> (151/243)	34.9 (130/372)	51.6 <sup>d</sup> (114/221)	62.2 <sup>c</sup> (140/225)	40.6 (144/355)
Dyspareunia <sup>b</sup> (Month 3)	39.6 (74/187)	47.1 <sup>c</sup> (81/172)	31.9 (90/282)	44.0 (70/159)	53.7 <sup>d</sup> (87/162)	39.5 (101/256)
Dyspareunia <sup>b</sup> (Month 6)	39.6 (74/187)	50.3 <sup>c</sup> (81/161)	33.3 (90/270)	39.9 (65/163)	55.8 <sup>c</sup> (92/165)	39.4 (100/254)

a. A responder had a reduction in pain from baseline to the analysis month greater than or equal to a calculated, clinically important threshold of improvement, and also had stable or decreased rescue analgesic use.

b. A secondary endpoint

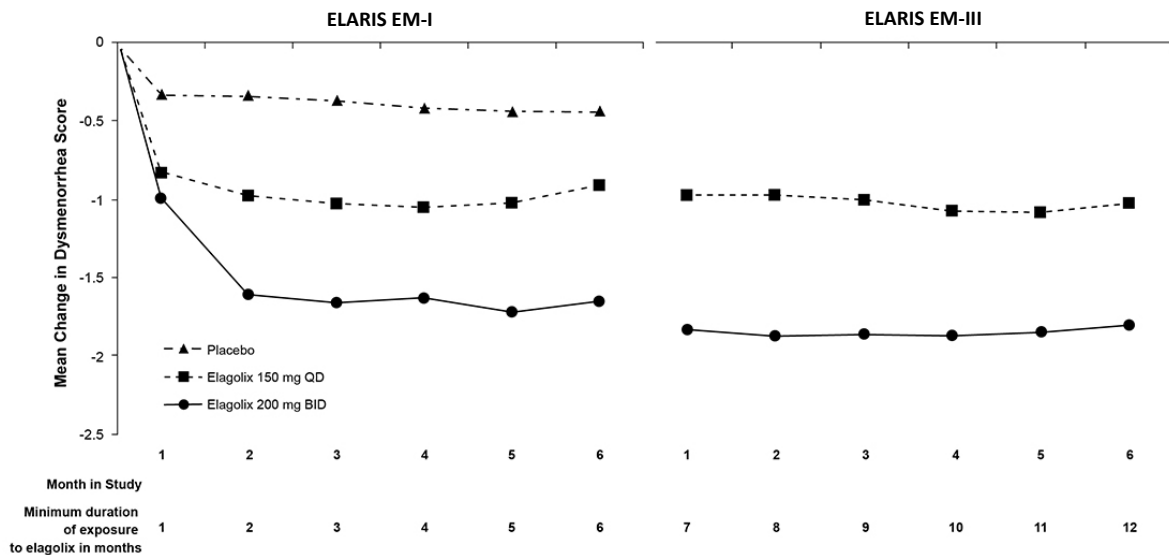
	ELARIS EM-I			ELARIS EM-II		
	ORILISSA		Placebo	ORILISSA		Placebo
	150 mg once daily % (n/N)	200 mg twice daily % (n/N)	% (n/N)	150 mg once daily % (n/N)	200 mg twice daily % (n/N)	% (n/N)
c.	P ≤ 0.001, for test of difference from placebo					
d.	P ≤ 0.01, for test of difference from placebo					

Both ORILISSA treatment groups showed mean decreases from Baseline in dysmenorrhea scores that were statistically significantly greater than placebo beginning at Month 1 and persisted through Month 6.

Women in these studies also provided a daily self-assessment of their endometriosis pain using the Numeric Rating Scale (NRS), on a scale ranging from 0 (no pain) to 10 (worst pain ever). Women taking ORILISSA 150 mg once daily and 200 mg twice daily reported a highly statistically ( $p < 0.001$ ) significant reduction in NRS scores compared to placebo at Month 3 and Month 6.

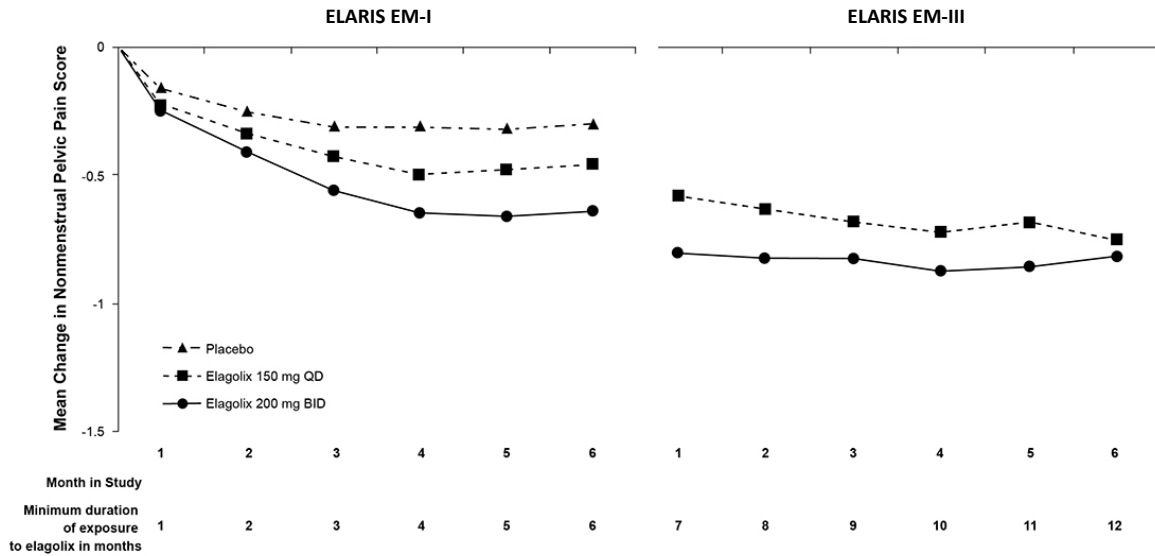
In the 2 blinded extension studies ELARIS EM-III and ELARIS EM-IV, where the patients who were originally on ORILISSA in the controlled studies ELARIS EM-I and ELARIS EM-II were maintained on their dose, the durability of improvement in dysmenorrhea, NMPP and dyspareunia was demonstrated for a total of 12 months (see **Figure 1**, **Figure 2** and **Figure 3**). In study ELARIS EM-IV, efficacy was maintained when ORILISSA was taken with and without food.

**Figure 1 - Mean Change from Baseline in Mean Dysmenorrhea Pain Scores in Study ELARIS EM-I and Maintenance of Response in its Extension Study ELARIS EM-III over 12 Months**



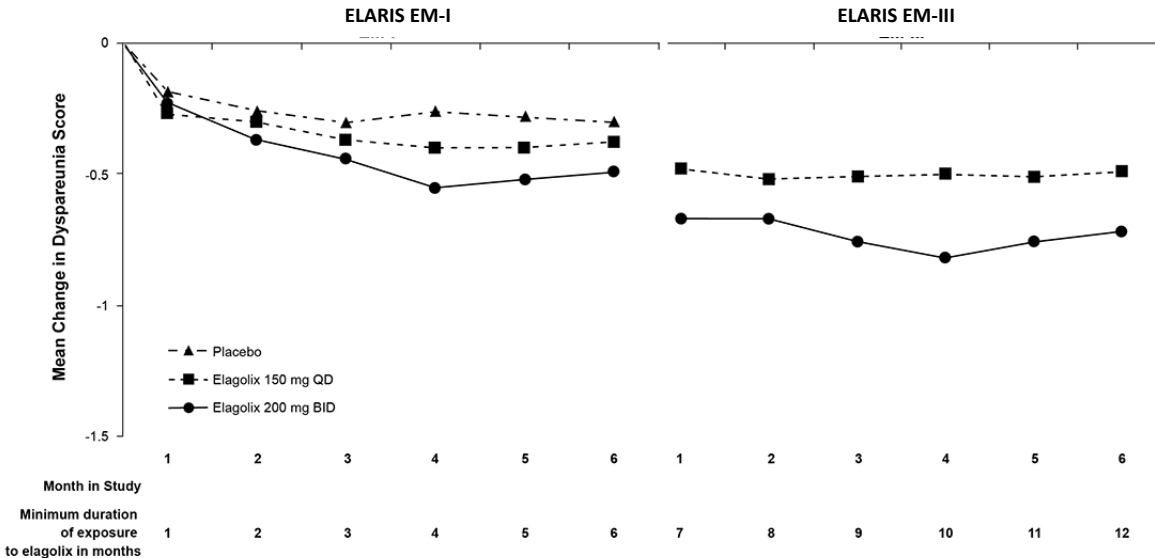
Baseline and monthly visit values were based on a 35 day mean.

**Figure 2 - Mean Change from Baseline in Mean NMPP Scores in Study ELARIS EM-I and Maintenance of Response in its Extension Study ELARIS EM-III over 12 Months**



Baseline and monthly visit values were based on a 35 day mean.

**Figure 3 - Mean Change from Baseline in Mean Dyspareunia Pain Scores in Study ELARIS EM-I and Maintenance of Response in its Extension Study ELARIS EM-III over 12 Months**



Baseline and monthly visit values were based on a 35 day mean.

Results on efficacy endpoints from Study ELARIS EM-II were consistent with those observed in Study ELARIS EM-I.

## Reduction in pain medication use

In these studies, women taking ORILISSA 200 mg twice daily reduced the amount of opioid or NSAID rescue medication used to treat their endometriosis-associated pain compared to the amount required at baseline. In addition, there was a significant reduction in the percentage of days per month of the opioid or NSAID rescue medication use for women taking ORILISSA 200 mg twice daily compared to women taking placebo. These findings were all statistically significant at both Month 3 and Month 6 ( $p < 0.001$ ). These effects were less consistently observed for women taking ORILISSA 150 mg once daily.

## Effects on Bleeding Patterns

The effects of ORILISSA on uterine bleeding were evaluated using electronic daily diaries for up to 12 months. ORILISSA was associated with altered menstrual bleeding patterns compared to placebo. ORILISSA led to a dose-dependent reduction in mean number of days of bleeding and spotting, bleeding intensity, and bleeding duration in those patients who reported uterine bleeding.

ORILISSA also demonstrated a dose-dependent increase in the percentage of women with amenorrhea (defined as no bleeding or spotting in a 56-day interval) over the treatment period. The amenorrhea rate ranged from 14 to 32% for 150 mg once daily and 18 to 67% for 200 mg twice daily during the first 6 months of treatment. During the second 6 months of treatment, the amenorrhea rate ranged from 11 to 15% for 150 mg once daily and 46 to 57% for 200 mg twice daily.

Upon stopping ORILISSA therapy, the majority of women reported a menstrual period within 1 month. By Post-treatment Month 2, more than 85% patients had reported at least 1 post-treatment menses in both ORILISSA dose groups.

## Quality of Life

Quality of life was assessed with the 30-item Endometriosis Health Profile (EHP-30) conducted at Month 1, 3, and 6 study visits. ORILISSA treatment resulted in a better quality of life than did placebo on the basis of the mean change from baseline to 3 months and 6 months on the EHP-30. The results differed significantly from those with placebo at 3 months and 6 months in all 6 dimensions (pain, control and powerlessness, emotional well-being, social support, self-image, and sexual intercourse) in the 200 mg twice daily dose group in both ELARIS EM-I and ELARIS EM-II. Each dimension was statistically significant ( $p < 0.001$ ) at Month 3 and Month 6 for 200 mg twice daily.

## 15 MICROBIOLOGY

No microbiological information is required for this drug product.

## 16 NON-CLINICAL TOXICOLOGY

### General Toxicology

#### *Single-Dose Studies*

##### Rat

Elagolix sodium (doses: 0, 300, 600, 1200, or 2000 mg/kg) was administered as a single oral dose by gavage to male and female rats (3/sex/group). The maximum tolerated dose (MTD) was the highest dose of 2000 mg/kg.

## Monkey

Elagolix sodium (doses: 0, 300, 600, 1200, or 2000 mg/kg) was administered as a single oral dose by gavage to male and female cynomolgus monkeys (2/sex/group). The MTD was 300 mg/kg. Changes in clinical chemistry parameters (such as, ALT, AST, total bilirubin, blood urea nitrogen, creatinine, glucose) were observed at higher doses.

## **Repeat-Dose Studies**

### Mouse

A 15-week dietary study in mice (10 to 15/sex/group) was conducted using elagolix sodium mixed in diet to achieved doses of 0, 30, 500, or 1700 mg/kg/day. A no-observed adverse-effect-level (NOAEL) of 500 mg/kg/day was based on the combination of a decrease in body weight and observation of clinical pathology (up to 3-fold elevation in ALT) and microscopic changes (centrilobular hepatocellular) at the 1700 mg/kg/day dose.

### Rat

Elagolix sodium was given in the diet of SD rats (20/sex/group) for 28-weeks to achieved doses of 0, 600, or 800 mg/kg/day. Elagolix was generally well tolerated.

Findings that were considered off-target effects included increase in liver and thyroid gland weights that was associated with microscopic observation of hypertrophy in these tissues that had previously been observed in several repeat-dose toxicity studies in rats. These changes were considered non-adverse and as a consequence of induction of hepatic metabolizing enzymes and increased metabolism and clearance of thyroid hormones. These findings and the mechanism by which they occurred in rat is not relevant to humans. Moderate focal epithelial degeneration/necrosis, edema, and erosion were observed in the non-glandular stomach at the limiting ridge. While these findings were adverse for rats, the observation was not considered of significance for humans due to anatomical differences in the stomach.

A NOAEL in the 28-week dietary study in rat was not identified due to the finding of gastric irritation that does not translate to human. At the highest dose of 800 mg/kg/day, an AUC of 29.9 mcg·hr/mL provided a safety margin of 8.5-fold for the maximum recommended human dose (MRHD).

### Monkey

Elagolix findings in monkey were observed only in the 6-week study and not in the study of longest duration (13 weeks) most likely due to substantial decline in plasma concentrations due to induction of enzymes responsible for elagolix metabolism. In the 6-week study, cynomolgus monkeys (3 to 5/sex/group) were administered elagolix sodium (doses: 0, 75, 150, 300, or 600 mg/kg/day) by oral gavage. Notable findings included atrophy of the female reproductive organs; of uterus at doses  $\geq$  150 mg/kg/day and of cervix and vagina at all doses. These effects were considered pharmacologically mediated effects and were reversible after a recovery period of 4 weeks. Because a marked body weight loss and reduced food intake were observed at the 600 mg/kg/day dose, the NOAEL was 300 mg/kg/day. The AUC of 24.8 mcg·h/mL at the NOAEL resulted in a safety margin of approximately 7.1-fold with respect to the AUC at the MRHD.

## Dog

Elagolix (as powder in capsule) was administered orally at doses of 0, 10, 30, or 150 mg/kg/day to beagle dogs (6/sex/group) for 39 weeks. The NOAEL was 30 mg/kg/day based on clinical chemistry and gallbladder changes (granulomatous inflammation in the lamina propria of the mucosa) observed at the highest dose of 150 mg/kg/day. The AUC of 26 mcg·hr/mL at the NOAEL resulted in a safety margin of approximately 7.4-fold with respect to the AUC at the MRHD.

## **Carcinogenicity**

The 2-year carcinogenicity studies (conducted in mice and rats) revealed no increase in tumors in mouse at any dose, but an increase in thyroid (male and female) and liver (males only) tumors occurred in rat at the high dose (13-fold margin of safety with respect to 200 mg twice daily in women). The rat tumors were identified as being species-specific and of negligible relevance to humans. This conclusion is based on a follow-on investigative study that demonstrated that tumor formation was related to induction of hepatic drug metabolizing enzymes at the high dose and that the specific mechanism of induction is not relevant for humans.

## **Genotoxicity**

Mutagenicity studies have been performed with elagolix using in vitro and in vivo test systems. These studies provided no evidence of a mutagenic or clastogenic potential.

## **Reproductive and Developmental Toxicology**

In rats there was no effect in the fertility study at doses up to 300 mg/kg/day in males and females (11.9- and 4.6-fold the MRHD based on AUC, respectively), however, it must be noted that the lack of effects on reproduction may be due to the low affinity of elagolix for the rat gonadotropin releasing hormone (GnRH) receptors. The affinity of elagolix for the rat GnRH receptor is 650-fold lower than for the human GnRH receptor. In a 6-week monkey repeat-dose study (doses: 0, 75, 150, 300, and 600 mg/kg/day), a reversible atrophy of reproductive organs (cervix, uterus, and vagina) was observed at all doses, which is approximately 1-fold the MRHD based on AUC.

Elagolix was administered by oral gavage to pregnant rats (25 animals) at doses of 0, 300, 600, and 1200 mg/kg/day and to rabbits (20 animals) at doses of 0, 100, 150, and 200 mg/kg/day, during the period of organogenesis. No fetal malformations were present at any dose level tested in either species. Maternal toxicity in rats due to treatment with elagolix included 6 deaths and decreases in body weight gain and food consumption. Increased post-implantation losses and visceral and skeletal variations were present at maternally toxic doses. In rabbits, 3 abortions and a single total litter loss were observed at a maternal toxic dose of 200 mg/kg/day. A single total litter loss at a lower non-maternally toxic dose of 150 mg/kg/day was attributed to the pharmacologic mechanism of elagolix. The exposure of elagolix in the rat embryo-fetal development (EFD) study at the NOAEL of 300 mg/kg/day was 15.8-fold MRHD based on AUC. The affinity of elagolix for the rat GnRH receptor is 650-fold lower than for the human GnRH receptor. The exposure of elagolix in the rabbit EFD study at the NOAEL of 150 mg/kg/day was 6.6-fold MRHD based on AUC. The affinity of elagolix for the rabbit GnRH receptor is 3.8-fold lower than for the human GnRH receptor.

In a pre- and post-natal study in rats, elagolix was given in the diet to achieve doses of 0, 100, and 300 mg/kg/day from gestation Day 6 to lactation Day 20. There was no evidence of maternal toxicity. Pup survival was decreased from birth to post-natal Day 4. Pups had lower birth weights and lower body weight gains were observed throughout the pre-weaning period only at 300 mg/kg/day. Smaller body size and effect on startle response were associated with lower pup weights at 300 mg/kg/day. Post-weaning growth, development and behavioral end-points were unaffected by elagolix treatment.

Maternal plasma concentrations on lactation Day 21 at 100 and 300 mg/kg/day (47.2 and 125 ng/mL) were 0.06- and 0.16-fold the human  $C_{max}$  at the MRHD.

No measurement of elagolix was conducted in the milk of lactating rats. In the range-finding pre- and post-natal study, pregnant rats were given diet containing elagolix throughout the gestation and lactation periods to achieve a daily elagolix dose of 400 mg/kg. During nursing, the dams and litters were divided into restricted feeding and non-restricted groups to determine whether elagolix was secreted in the mother's milk. At post-natal Day 10 and 20, elagolix plasma concentrations in pups of the restricted feeding litters were not measurable. In pups of the non-restricted feeding group, elagolix plasma concentrations were measurable and approximately 1% of the mother's plasma concentrations. Using plasma concentrations in pups as a surrogate of exposure via lactation, elagolix is considered to be minimally secreted in milk.



## **PATIENT MEDICATION INFORMATION**

### **READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE**

**PrORILISSA®**

#### **elagolix tablets**

Read this carefully before you start taking **ORILISSA** and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug. Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about **ORILISSA**.

#### **What is ORILISSA used for?**

- ORILISSA is used to treat the painful symptoms of endometriosis.
- Endometriosis happens when the tissue that forms the lining of the womb grows in other parts of the body. This can cause pain when you have your period, during other times of the month or during sex.
- It is not known if ORILISSA is safe and effective in children under 18 years old.

#### **How does ORILISSA work?**

Estrogen is the hormone that causes the tissues lining your womb to thicken each month. When estrogen levels go down, the tissues break down and you get your period. When this happens to tissues growing outside of your womb, you can bleed inside your body. This causes pain and scars to form. ORILISSA treats endometriosis by lowering the amount of estrogen in your body. The symptoms of endometriosis often get better after 1 month of taking ORILISSA.

ORILISSA improves the symptoms of endometriosis, such as:

- pain during periods
- pain between periods
- heavy bleeding during periods
- pain during sex
- pain or discomfort in the belly or pelvic region

Patients who take ORILISSA are often able to stop taking other kinds of pain medications for endometriosis. Talk to your healthcare professional to see if this is an option for you.

ORILISSA may help you feel better by reducing your pain. It may also improve your emotional well-being, and help you feel like you have more control over your symptoms.

### **What are the ingredients in ORLISSA?**

Medicinal ingredient: elagolix (as elagolix sodium)

Non-medicinal ingredients: magnesium stearate, mannitol, polyethylene glycol, polyvinyl alcohol, povidone, pregelatinized starch, sodium carbonate monohydrate, talc, and titanium dioxide.

The 150 mg tablet also contains carmine high tint.

The 200 mg tablet also contains iron oxide red.

### **ORLISSA comes in the following dosage forms:**

Tablets: 150 mg and 200 mg elagolix (as elagolix sodium)

### **Do not use ORLISSA if:**

- you are allergic to elagolix or to any of the other ingredients in ORLISSA.
- you are pregnant or think you might be pregnant.
- you have severe liver disease.
- you know you have osteoporosis.
- you have unexplained bleeding from your vagina.
- you are taking cyclosporine, used to prevent organ rejection in people who have had organ transplants, or gemfibrozil, used to lower high cholesterol.

### **To help avoid side effects and ensure proper use, talk to your healthcare professional before you take ORLISSA. Talk about any health conditions or problems you may have, including if you:**

- have a history of bone mineral loss. ORLISSA may result in a small loss of minerals from bone. The bone mineral loss may be increased during treatment with ORLISSA if you:
  - use alcohol excessively.
  - smoke.
  - have a family history of osteoporosis (thinning of the bones with fractures).
  - take other medications that can cause thinning of the bones, for example steroids.
- have liver problems.
- have a history of mental health problems such as depression or suicidal thoughts.
- are pregnant or trying to get pregnant. You should not become pregnant while taking ORLISSA. ORLISSA may affect the way your unborn baby develops or cause early pregnancy loss (miscarriage). If you think you have become pregnant while taking ORLISSA, stop taking ORLISSA and contact your healthcare professional immediately.
- are breastfeeding or plan to breastfeed. The effects of ORLISSA on breast milk and the nursing baby are not known. Talk to your healthcare professional about the best way to feed your baby if you take ORLISSA.

**Other warnings you should know about:**

**Birth control:** ORILISSA is **NOT** birth control. ORILISSA does not prevent pregnancy. You will need to use effective methods of birth control while taking ORILISSA. Talk to your healthcare professional about which birth control to use while taking ORILISSA. Your healthcare professional may change your birth control when you start treatment with ORILISSA as hormonal birth control that contains estrogen can affect how ORILISSA works. You must continue to use effective birth control for 1 week after stopping treatment with ORILISSA.

**Bleeding changes:** ORILISSA may change your periods. This may lead to:

- irregular bleeding or spotting
- increase or decrease in bleeding
- no bleeding at all

These changes may make it harder to know if you are pregnant. Periods generally come back about 4 weeks after stopping ORILISSA.

**Bone health:** Taking ORILISSA can result in a small loss of minerals from your bones. If you use ORILISSA for a long time, it may increase the risk of weak, porous bones (osteoporosis). This could increase the risk of broken bones, especially after menopause. Your bones may not recover completely when you stop taking ORILISSA. While you are taking ORILISSA, your healthcare professional may tell you to:

- exercise regularly
- eat a healthy diet
- take vitamin D, calcium supplements

Your healthcare professional may order an X-ray test after 1 year of use of ORILISSA or more often, if needed. This test, called DXA, is used to check your bone health.

**Tell your healthcare professional about all the medicines you take, including any drugs, vitamins, minerals, natural supplements, or alternative medicines.**

**The following medicines may interact with ORILISSA:**

- digoxin, which is used to treat some heart conditions
- rifampin, which is used to treat certain infections
- midazolam, which is used to treat anxiety
- rosuvastatin, which is used to lower blood cholesterol
- omeprazole, which is used to treat heartburn and stomach ulcers
- hormonal birth control that contains estrogen, such as “the pill”

**How to take ORILISSA:**

Before you start taking ORILISSA, be sure you understand what it is and how to take it. Take ORILISSA as directed by your doctor. If you have questions about ORILISSA, ask your healthcare professional.

Take ORILISSA at about the same time each day, even if you do not have any symptoms. You may take ORILISSA with or without food.

You should start taking ORILISSA during your period to ensure you are not pregnant. You must confirm that you are not pregnant before starting treatment with ORILISSA.

**Usual dose:**

Your healthcare professional may prescribe either:

- ORILISSA 150 mg (a light pink tablet) once a day
- ORILISSA 200 mg (a light orange tablet) twice a day

**Overdose:**

If you think you, or a person you are caring for, have taken too much ORILISSA, contact a healthcare professional, hospital emergency department or regional poison control centre immediately, even if there are no symptoms.

**Missed dose:**

150 mg once a day: take it as soon as you remember, as long as it is on the same day. Do not take more than 1 tablet each day.

200 mg twice a day: take it as soon as you remember, as long as it is on the same day. Do not take more than 2 tablets each day.

**What are possible side effects from using ORILISSA?**

These are not all the possible side effects you may feel when taking ORILISSA. If you experience any side effects not listed here, contact your healthcare professional.

Side effects may include:

- hot flash
- night sweats
- headache
- dizziness
- feeling sick to the stomach (nausea)
- diarrhea, stomach pain, constipation

- weight increase
- difficulty sleeping
- anxiety, depression, irritability
- mood swing
- decreased sex drive (libido)
- runny, stuffy nose, sore throat, sinus infection, common cold
- joint pain
- menstrual bleeding changes:
  - irregular bleeding or spotting
  - increase or decrease in bleeding
  - no bleeding at all

ORLISSA can cause abnormal blood test results. Your healthcare professional will decide when to perform blood tests and will interpret the results.

Serious side effects and what to do about them			
Symptom / effect	Talk to your healthcare professional		Stop taking drug and get immediate medical help
	Only if severe	In all cases	
<b>COMMON</b>			
<b>Mood Changes:</b> feeling sad or depressed, being tearful, loss of interest in daily activities, thoughts of harming yourself (suicidal thoughts)		✓	
<b>VERY RARE</b>			
<b>Liver Disorder:</b> yellowing of the skin or eyes, dark urine, abdominal pain, nausea, vomiting, loss of appetite		✓	
<b>FREQUENCY UNKNOWN (reported from postmarketing)</b>			
<b>Allergic Reaction / Angioedema:</b> difficulty swallowing or breathing, wheezing, drop in blood pressure, feeling sick to your stomach and throwing up, hives or rash, swelling of the face, lips, tongue, or throat			✓

If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, talk to your healthcare professional.

### **Reporting Side Effects**

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting (<https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada.html>) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

*NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.*

### **Storage:**

Store between 2 and 30°C.

Keep out of reach and sight of children.

### **If you want more information about ORILISSA:**

- Talk to your healthcare professional.
- Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the Health Canada website: (<https://www.canada.ca/en/health-canada/services/drugs-health-products/drug-products/drug-product-database.html>); the manufacturer's website ([www.abbvie.ca](http://www.abbvie.ca)); or by calling 1-888-704-8271.

This leaflet was prepared by AbbVie Corporation.

Last Revised OCT 29, 2021