

ETONOGESTREL/ETHINYL ESTRADIOL- etonogestrel and ethinyl estradiol insert, extended release
Prasco Laboratories

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use Etonogestrel/Ethinyl Estradiol Vaginal Ring safely and effectively. See full prescribing information for Etonogestrel/Ethinyl Estradiol Vaginal Ring.

Etonogestrel/Ethinyl Estradiol Vaginal Ring
Initial U.S. Approval: 2001

WARNING: CIGARETTE SMOKING AND SERIOUS CARDIOVASCULAR EVENTS

See full prescribing information for complete boxed warning.

- **Women over 35 years old who smoke should not use Etonogestrel/Ethinyl Estradiol Vaginal Ring. (4)**
- **Cigarette smoking increases the risk of serious cardiovascular events from combination hormonal contraceptive (CHC) use. (4)**

-----**RECENT MAJOR CHANGES**-----

Warnings and Precautions (5.14)

4/2022

-----**INDICATIONS AND USAGE**-----

Etonogestrel/Ethinyl Estradiol Vaginal Ring is an estrogen/progestin combination hormonal contraceptive (CHC) indicated for use by women to prevent pregnancy. (1)

-----**DOSAGE AND ADMINISTRATION**-----

One Etonogestrel/Ethinyl Estradiol Vaginal Ring is inserted in the vagina. The ring must remain in place continuously for three weeks, followed by a one-week ring-free interval. (2)

-----**DOSAGE FORMS AND STRENGTHS**-----

Etonogestrel/Ethinyl Estradiol Vaginal Ring is a polymeric vaginal ring containing 11.7 mg etonogestrel and 2.7 mg ethinyl estradiol, which releases on average 0.12 mg/day of etonogestrel and 0.015 mg/day of ethinyl estradiol. (3)

-----**CONTRAINDICATIONS**-----

- A high risk of arterial or venous thrombotic diseases (4)
- Breast cancer (4)
- Liver tumors or liver disease (4)
- Undiagnosed abnormal uterine bleeding (4)
- Pregnancy (4)
- Hypersensitivity, including anaphylaxis and angioedema, to any of the components of Etonogestrel/Ethinyl Estradiol Vaginal Ring (4)
- Co-administration with Hepatitis C drug combinations containing ombitasvir/paritaprevir/ritonavir, with or without dasabuvir (4)

-----**WARNINGS AND PRECAUTIONS**-----

- **Vascular risks:** Stop Etonogestrel/Ethinyl Estradiol Vaginal Ring use if a thrombotic event occurs. Stop Etonogestrel/Ethinyl Estradiol Vaginal Ring use at least 4 weeks before and through 2 weeks after major surgery. Start no earlier than 4 weeks after delivery, in women who are not breastfeeding. (5.1)
- **Toxic Shock Syndrome (TSS):** If patient exhibits signs or symptoms of TSS, consider the possibility of this diagnosis and initiate appropriate medical evaluation and treatment. (5.2)
- **Liver disease:** Discontinue Etonogestrel/Ethinyl Estradiol Vaginal Ring use if jaundice develops. (5.3)
- **High blood pressure:** If used in women with well-controlled hypertension, monitor blood pressure and stop Etonogestrel/Ethinyl Estradiol Vaginal Ring use if blood pressure rises significantly. (5.5)
- **Carbohydrate and lipid metabolic effects:** Monitor prediabetic and diabetic women. Consider an alternate contraceptive method for women with uncontrolled dyslipidemia. (5.9)

- Headache: Evaluate significant change in headaches and discontinue Etonogestrel/Ethinyl Estradiol Vaginal Ring use if indicated. (5.10)
- Uterine bleeding: Evaluate irregular bleeding or amenorrhea. (5.11)

ADVERSE REACTIONS

The most common adverse reactions ($\geq 2\%$) in clinical trials were: vaginitis, headache (including migraine), mood changes (e.g., depression, mood swings, mood altered, depressed mood, affect lability), device-related events (e.g., expulsion/discomfort/foreign body sensation), nausea/vomiting, vaginal discharge, increased weight, vaginal discomfort, breast pain/discomfort/tenderness, dysmenorrhea, abdominal pain, acne, and decreased libido. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Organon USA LLC, a subsidiary of Organon & Co., at 1-844-674-3200 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

Drugs or herbal products that induce certain enzymes, such as CYP3A4, may decrease the effectiveness of CHCs or increase breakthrough bleeding. Counsel patients to use a back-up or alternative method of contraception when enzyme inducers are used with CHCs. (7)

USE IN SPECIFIC POPULATIONS

- Nursing mothers: Not recommended; can decrease milk production. (8.2)

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

Revised: 1/2023

FULL PRESCRIBING INFORMATION: CONTENTS*

WARNING: CIGARETTE SMOKING AND SERIOUS CARDIOVASCULAR EVENTS

1 INDICATIONS AND USAGE

2 DOSAGE AND ADMINISTRATION

- 2.1 How to Use Etonogestrel/Ethinyl Estradiol Vaginal Ring
- 2.2 How to Start Using Etonogestrel/Ethinyl Estradiol Vaginal Ring
- 2.3 Deviations from the Recommended Regimen
- 2.4 In the Event of a Missed Menstrual Period
- 2.5 Use with Other Vaginal Products

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

- 5.1 Thromboembolic Disorders and Other Vascular Problems
- 5.2 Toxic Shock Syndrome (TSS)
- 5.3 Liver Disease
- 5.4 Risk of Liver Enzyme Elevations with Concomitant Hepatitis C Treatment
- 5.5 High Blood Pressure
- 5.6 Hypersensitivity Reactions
- 5.7 Vaginal Use
- 5.8 Gallbladder Disease
- 5.9 Carbohydrate and Lipid Metabolic Effects
- 5.10 Headache
- 5.11 Bleeding Irregularities and Amenorrhea
- 5.12 Inadvertent Urinary Bladder Insertion
- 5.13 Depression
- 5.14 Malignant Neoplasms
- 5.15 Effect on Binding Globulins

- 5.16 Monitoring
- 5.17 Hereditary Angioedema
- 5.18 Chloasma

6 ADVERSE REACTIONS

- 6.1 Clinical Trials Experience
- 6.2 Postmarketing Experience

7 DRUG INTERACTIONS

- 7.1 Effects of Other Drugs on CHCs
- 7.2 Effects of CHCs on Other Drugs
- 7.3 Concomitant Use with HCV Combination Therapy – Liver Enzyme Elevation
- 7.4 Interference with Laboratory Tests

8 USE IN SPECIFIC POPULATIONS

- 8.1 Pregnancy
- 8.2 Lactation
- 8.4 Pediatric Use
- 8.5 Geriatric Use
- 8.6 Hepatic Impairment
- 8.7 Renal Impairment

10 OVERDOSAGE

11 DESCRIPTION

12 CLINICAL PHARMACOLOGY

- 12.1 Mechanism of Action
- 12.3 Pharmacokinetics

13 NONCLINICAL TOXICOLOGY

- 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

14 CLINICAL STUDIES

15 REFERENCES

16 HOW SUPPLIED/STORAGE AND HANDLING

- 16.1 Storage

17 PATIENT COUNSELING INFORMATION

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

FULL PRESCRIBING INFORMATION

WARNING: CIGARETTE SMOKING AND SERIOUS CARDIOVASCULAR EVENTS

Cigarette smoking increases the risk of serious cardiovascular events from combination hormonal contraceptive (CHC) use. This risk increases with age, particularly in women over 35 years of age, and with the number of cigarettes smoked. For this reason, CHCs, including Etonogestrel/Ethinyl Estradiol Vaginal Ring, should not be used by women who are over 35 years of age and smoke. [See Contraindications (4).]

1 INDICATIONS AND USAGE

FOR VAGINAL USE ONLY

Etonogestrel/Ethinyl Estradiol Vaginal Ring is indicated for use by females of reproductive age to prevent pregnancy.

2 DOSAGE AND ADMINISTRATION

2.1 How to Use Etonogestrel/Ethinyl Estradiol Vaginal Ring

To achieve maximum contraceptive effectiveness, Etonogestrel/Ethinyl Estradiol Vaginal Ring must be used as directed [see *Dosage and Administration* (2.2)]. One Etonogestrel/Ethinyl Estradiol Vaginal Ring is inserted in the vagina. **The ring is to remain in place continuously for three weeks.** It is removed for a one-week break, during which a withdrawal bleed usually occurs. A new ring is inserted one week after the last ring was removed.

The user can choose the insertion position that is most comfortable to her, for example, standing with one leg up, squatting, or lying down. The ring is to be compressed and inserted into the vagina. The exact position of Etonogestrel/Ethinyl Estradiol Vaginal Ring inside the vagina is not critical for its function. The vaginal ring must be inserted on the appropriate day and left in place for three consecutive weeks. This means that the ring should be removed three weeks later on the same day of the week as it was inserted and at about the same time.

Etonogestrel/Ethinyl Estradiol Vaginal Ring can be removed by hooking the index finger under the forward rim or by grasping the rim between the index and middle finger and pulling it out. The used ring should be placed in the sachet (foil pouch) and discarded in a waste receptacle out of the reach of children and pets (do not flush in toilet).

After a one-week break, during which a withdrawal bleed usually occurs, a new ring is inserted on the same day of the week as it was inserted in the previous cycle. The withdrawal bleed usually starts on Day 2-3 after removal of the ring and may not have finished before the next ring is inserted. In order to maintain contraceptive effectiveness, the new ring must be inserted exactly one week after the previous one was removed even if menstrual bleeding has not finished.

2.2 How to Start Using Etonogestrel/Ethinyl Estradiol Vaginal Ring

IMPORTANT: Consider the possibility of ovulation and conception prior to the first use of Etonogestrel/Ethinyl Estradiol Vaginal Ring.

No Hormonal Contraceptive Use in the Preceding Cycle:

The woman should insert Etonogestrel/Ethinyl Estradiol Vaginal Ring on the first day of her menstrual bleeding. Etonogestrel/Ethinyl Estradiol Vaginal Ring may also be started on Days 2-5 of the woman's cycle, but in this case a barrier method, such as male condoms with spermicide, should be used for the first seven days of Etonogestrel/Ethinyl Estradiol Vaginal Ring use in the first cycle.

Changing From a CHC:

The woman may switch from her previous CHC on any day, but at the latest on the day

following the usual hormone-free interval, if she has been using her hormonal method consistently and correctly, or if it is reasonably certain that she is not pregnant.

Changing From a Progestin-Only Method (progestin-only pill [POP], Implant, or Injection or a Progestin-Releasing Intrauterine System [IUS]):

The woman may switch from the POP on any day; instruct her to start using Etonogestrel/Ethinyl Estradiol Vaginal Ring on the day after she took her last POP. She should switch from an implant or the IUS on the day of its removal, and from an injectable on the day when the next injection would be due. In all of these cases, the woman should use an additional barrier method such as a male condom with spermicide, for the first seven days.

Use After Abortion or Miscarriage:

The woman may start using Etonogestrel/Ethinyl Estradiol Vaginal Ring within the first five days following a complete first trimester abortion or miscarriage, and she does not need to use an additional method of contraception. If use of Etonogestrel/Ethinyl Estradiol Vaginal Ring is not started within five days following a first trimester abortion or miscarriage, the woman should follow the instructions for "No Hormonal Contraceptive Use in the Preceding Cycle." In the meantime, she should be advised to use a non-hormonal contraceptive method.

Start Etonogestrel/Ethinyl Estradiol Vaginal Ring no earlier than four weeks after a second trimester abortion or miscarriage, due to the increased risk of thromboembolism. *[See Contraindications (4) and Warnings and Precautions (5.1).]*

Following Childbirth:

The use of Etonogestrel/Ethinyl Estradiol Vaginal Ring may be initiated no sooner than four weeks postpartum in women who elect not to breastfeed, due to the increased risk of thromboembolism in the postpartum period. *[See Contraindications (4) and Warnings and Precautions (5.1).]*

Advise women who are breastfeeding not to use Etonogestrel/Ethinyl Estradiol Vaginal Ring but to use other forms of contraception until the child is weaned.

If a woman begins using Etonogestrel/Ethinyl Estradiol Vaginal Ring postpartum, instruct her to use an additional method of contraception, such as male condoms with spermicide, for the first seven days. If she has not yet had a period, consider the possibility of ovulation and conception occurring prior to initiation of Etonogestrel/Ethinyl Estradiol Vaginal Ring.

2.3 Deviations from the Recommended Regimen

To prevent loss of contraceptive efficacy, advise women not to deviate from the recommended regimen. Etonogestrel/Ethinyl Estradiol Vaginal Ring should be left in the vagina for a continuous period of three weeks. Advise women to regularly check for the presence of Etonogestrel/Ethinyl Estradiol Vaginal Ring in the vagina (for example, before and after intercourse).

Inadvertent Removal or Expulsion:

Etonogestrel/Ethinyl Estradiol Vaginal Ring can be accidentally expelled, for example, while removing a tampon, during intercourse, or with straining during a bowel movement. Etonogestrel/Ethinyl Estradiol Vaginal Ring should be left in the vagina for a

continuous period of three weeks. If the ring is accidentally expelled and is left outside of the vagina for **less than three hours**, contraceptive efficacy is not reduced.

Etonogestrel/Ethinyl Estradiol Vaginal Ring can be rinsed with cool to lukewarm (not hot) water and **reinserted as soon as possible**, but at the latest within three hours. If Etonogestrel/Ethinyl Estradiol Vaginal Ring is lost, a new vaginal ring should be inserted and the regimen should be continued without alteration.

If Etonogestrel/Ethinyl Estradiol Vaginal Ring is out of the vagina **for more than three continuous hours**:

During Weeks 1 and 2: Contraceptive efficacy may be reduced. The woman should reinsert the ring as soon as she remembers. A barrier method such as male condoms with spermicides must be used until the ring has been used continuously for seven days.

During Week 3: The woman should discard that ring. One of the following two options should be chosen:

1. Insert a new ring immediately. Inserting a new ring will start the next three-week use period. The woman may not experience a withdrawal bleed from her previous cycle. However, breakthrough spotting or bleeding may occur.
2. Insert a new ring no later than seven days from the time the previous ring was removed or expelled, during which time she may have a withdrawal bleed. This option should only be chosen if the ring was used continuously for at least seven days prior to inadvertent removal/expulsion.

In either case, a barrier method such as male condoms with spermicides must be used until the new ring has been used continuously for seven days.

If Etonogestrel/Ethinyl Estradiol Vaginal Ring was out of the vagina for an unknown amount of time, the possibility of pregnancy should be considered. A pregnancy test should be performed prior to inserting a new ring.

Prolonged Ring-Free Interval:

If the ring-free interval has been extended beyond one week, consider the possibility of pregnancy, and an additional method of contraception, such as male condoms with spermicide, **MUST** be used until Etonogestrel/Ethinyl Estradiol Vaginal Ring has been used **continuously for seven days**.

Prolonged Use of Etonogestrel/Ethinyl Estradiol Vaginal Ring:

If Etonogestrel/Ethinyl Estradiol Vaginal Ring has been left in place for up to one extra week (i.e., up to four weeks total), the woman will remain protected. Etonogestrel/Ethinyl Estradiol Vaginal Ring should be removed and the woman should insert a new ring after a one-week ring-free interval.

If Etonogestrel/Ethinyl Estradiol Vaginal Ring has been left in place for longer than four weeks, instruct the woman to remove the ring, and rule out pregnancy. If pregnancy is ruled out, Etonogestrel/Ethinyl Estradiol Vaginal Ring may be restarted, and an additional method of contraception, such as male condoms with spermicide, **MUST** be used until a new Etonogestrel/Ethinyl Estradiol Vaginal Ring has been used **continuously for seven days**.

Ring Breakage:

There have been reported cases of Etonogestrel/Ethinyl Estradiol Vaginal Ring disconnecting at the weld joint. This is not expected to affect the contraceptive effectiveness of Etonogestrel/Ethinyl Estradiol Vaginal Ring. In the event of a disconnected ring, vaginal discomfort or expulsion (slipping out) is more likely to occur. Vaginal injury associated with ring breakage has been reported [see *Adverse Reactions (6.2)*].

If a woman discovers that her Etonogestrel/Ethinyl Estradiol Vaginal Ring has disconnected, she should discard the ring and replace it with a new ring.

2.4 In the Event of a Missed Menstrual Period

1. If the woman has not adhered to the prescribed regimen (Etonogestrel/Ethinyl Estradiol Vaginal Ring has been out of the vagina for more than three hours or the preceding ring-free interval was extended beyond one week), consider the possibility of pregnancy at the time of the first missed period and discontinue Etonogestrel/Ethinyl Estradiol Vaginal Ring use if pregnancy is confirmed.
2. If the woman has adhered to the prescribed regimen and misses two consecutive periods, rule out pregnancy.
3. If the woman has retained one Etonogestrel/Ethinyl Estradiol Vaginal Ring for longer than four weeks, rule out pregnancy.

2.5 Use with Other Vaginal Products

Etonogestrel/Ethinyl Estradiol Vaginal Ring may interfere with the correct placement and position of certain female barrier methods such as a diaphragm, cervical cap or female condom. These methods are not recommended as back-up methods with Etonogestrel/Ethinyl Estradiol Vaginal Ring use.

Pharmacokinetic data show that the use of tampons has no effect on the systemic absorption of the hormones released by Etonogestrel/Ethinyl Estradiol Vaginal Ring.

3 DOSAGE FORMS AND STRENGTHS

Etonogestrel/Ethinyl Estradiol Vaginal Ring is a non-biodegradable, flexible, transparent, colorless to almost colorless, combination contraceptive vaginal ring, with an outer diameter of 54 mm and a cross-sectional diameter of 4 mm. It is made of ethylene vinylacetate copolymers and magnesium stearate, and contains 11.7 mg etonogestrel and 2.7 mg ethinyl estradiol. When placed in the vagina, each ring releases on average 0.120 mg/day of etonogestrel and 0.015 mg/day of ethinyl estradiol over a three-week period of use. Etonogestrel/Ethinyl Estradiol Vaginal Ring is not made with natural rubber latex.

4 CONTRAINDICATIONS

Etonogestrel/Ethinyl Estradiol Vaginal Ring is contraindicated in females who are known to have or develop the following conditions:

- A high risk of arterial or venous thrombotic diseases. Examples include women who are known to:
 - Smoke, if over age 35 [see *Boxed Warning and Warnings and Precautions (5.1)*]
 - Have deep vein thrombosis or pulmonary embolism, now or in the past [see

Warnings and Precautions (5.1)]

- Have cerebrovascular disease [*see Warnings and Precautions (5.1)]*
- Have coronary artery disease [*see Warnings and Precautions (5.1)]*
- Have thrombogenic valvular or thrombogenic rhythm diseases of the heart (for example, subacute bacterial endocarditis with valvular disease, or atrial fibrillation) [*see Warnings and Precautions (5.1)]*
- Have inherited or acquired hypercoagulopathies [*see Warnings and Precautions (5.1)]*
- Have uncontrolled hypertension [*see Warnings and Precautions (5.5)]*
- Have diabetes mellitus with vascular disease [*see Warnings and Precautions (5.9)]*
- Have headaches with focal neurological symptoms or migraine headaches with aura [*see Warnings and Precautions (5.10)]*
 - Women over age 35 with any migraine headaches [*see Warnings and Precautions (5.10)]*
- Liver tumors, benign or malignant or liver disease [*see Warnings and Precautions (5.3) and Use in Specific Populations (8.6)]*
- Undiagnosed abnormal uterine bleeding [*see Warnings and Precautions (5.11)]*
- Pregnancy, because there is no reason to use CHCs during pregnancy [*see Use in Specific Populations (8.1)]*
- Current diagnosis of, or history of, breast cancer, which may be hormone-sensitive [*see Warnings and Precautions (5.14)]*
- Hypersensitivity reactions, including anaphylaxis and angioedema, to any of the components of Etonogestrel/Ethinyl Estradiol Vaginal Ring [*see Warnings and Precautions (5.6) and Adverse Reactions (6)]*
- Use of Hepatitis C drug combinations containing ombitasvir/paritaprevir/ritonavir, with or without dasabuvir, due to potential for ALT elevations [*see Warnings and Precautions (5.4)]*

5 WARNINGS AND PRECAUTIONS

5.1 Thromboembolic Disorders and Other Vascular Problems

Stop Etonogestrel/Ethinyl Estradiol Vaginal Ring use if an arterial thrombotic or venous thromboembolic event (VTE) occurs. Stop Etonogestrel/Ethinyl Estradiol Vaginal Ring use if there is unexplained loss of vision, proptosis, diplopia, papilledema, or retinal vascular lesions. Evaluate for retinal vein thrombosis immediately. [*See Adverse Reactions (6).*]

If feasible, stop Etonogestrel/Ethinyl Estradiol Vaginal Ring at least four weeks before and through two weeks after major surgery or other surgeries known to have an elevated risk of thromboembolism, and during and following prolonged immobilization.

Start Etonogestrel/Ethinyl Estradiol Vaginal Ring no earlier than 4 weeks after delivery, in women who are not breastfeeding. The risk of postpartum thromboembolism decreases after the third postpartum week, whereas the risk of ovulation increases after the third postpartum week.

The use of CHCs increases the risk of VTE. Known risk factors for VTE include smoking, obesity, and family history of VTE, in addition to other factors that contraindicate use of CHCs [*see Contraindications (4)*].

Two epidemiologic studies^{1, 2, 3} that assessed the risk of VTE associated with the use of

Etonogestrel/Ethinyl Estradiol Vaginal Ring are described below.

In these studies, which were required or sponsored by regulatory agencies, Etonogestrel/Ethinyl Estradiol Vaginal Ring users had a risk of VTE similar to Combined Oral Contraceptives (COCs) users (see Table 1 for adjusted hazard ratios). A large prospective, observational study, the Transatlantic Active Surveillance on Cardiovascular Safety of Etonogestrel/Ethinyl Estradiol Vaginal Ring (TASC), investigated the risk of VTE for new users, and women who were switching to or restarting Etonogestrel/Ethinyl Estradiol Vaginal Ring or COCs in a population that is representative of routine clinical users. The women were followed for 24 to 48 months. The results showed a similar risk of VTE among Etonogestrel/Ethinyl Estradiol Vaginal Ring users (VTE incidence 8.3 per 10,000 WY) and women using COCs (VTE incidence 9.2 per 10,000 WY). For women using COCs that did not contain the progestins desogestrel (DSG) or gestodene (GSD), VTE incidence was 8.9 per 10,000 WY.

A retrospective cohort study using data from 4 health plans in the US (FDA-funded Study in Kaiser Permanente and Medicaid databases) showed the VTE incidence for new users of Etonogestrel/Ethinyl Estradiol Vaginal Ring to be 11.4 events per 10,000 WY, for new users of a levonorgestrel (LNG)-containing COC 9.2 events per 10,000 WY, and for users of other COCs available during the course of the study¹ 8.2 events per 10,000 WY.

Table 1: Estimates (Hazard Ratios) of Venous Thromboembolism Risk in Users of Etonogestrel/Ethinyl Estradiol Vaginal Ring Compared to Users of Combined Oral Contraceptives (COCs)

Epidemiologic Study (Author, Year of Publication) Population Studied	Comparator Product(s)	Hazard Ratios (HR) (95% CI)
TASC (Dinger, 2012) Initiators, including new users, switchers and restarters	All COCs available during the course of the study *	HR [†] : 0.8 (0.5-1.5)
	COCs available excluding DSG- or GSD -containing OCs	HR [†] : 0.8 (0.4-1.7)
FDA-funded Study in Kaiser Permanente and Medicaid databases (Sidney, 2011) First use of a combined hormonal contraceptive	COCs available during the course of the study [‡]	HR [§] : 1.1 (0.6-2.2)

(CHC) during the study period	LNG/0.03 mg ethinyl estradiol	HR [§] : 1.0 (0.5-2.0)
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* Includes low-dose COCs containing the following progestins: chlormadinone acetate, cyproterone acetate, desogestrel, dienogest, drospirenone, ethynodiol diacetate, gestodene, levonorgestrel, norethindrone, norgestimate, or norgestrel

† Adjusted for age, BMI, duration of use, VTE history

‡ Includes low-dose COCs containing the following progestins: norgestimate, norethindrone, or levonorgestrel

§ Adjusted for age, site, year of entry into study

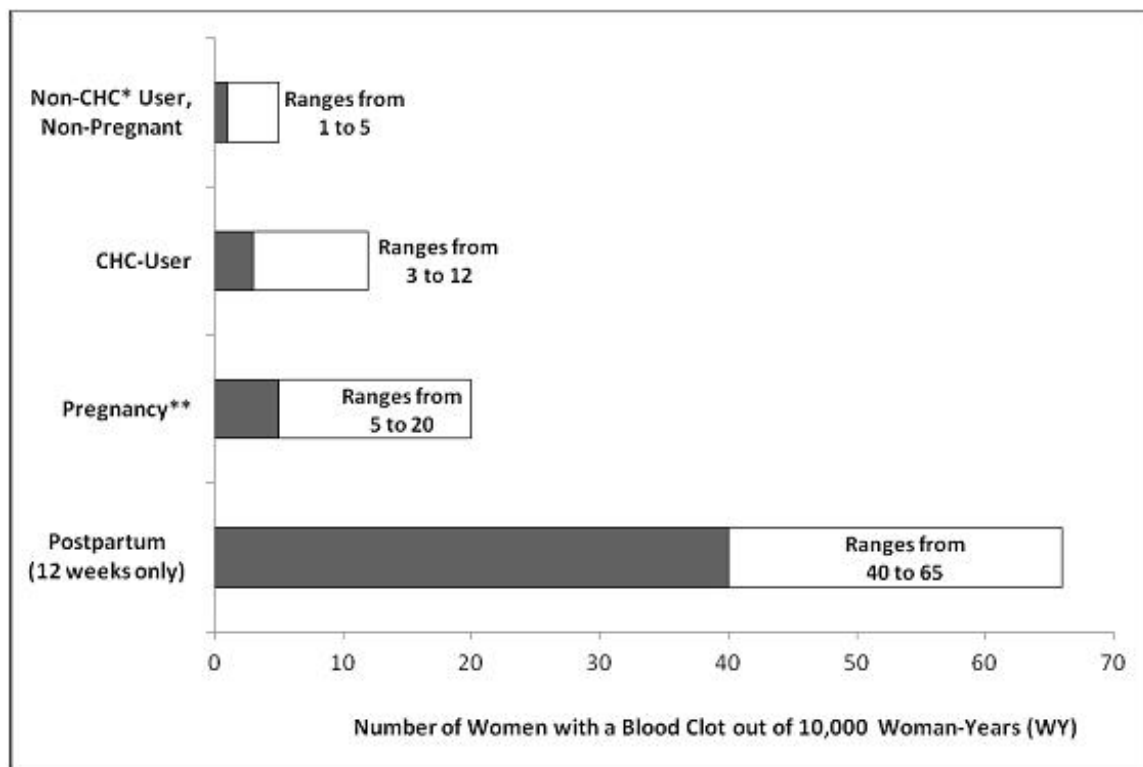
An increased risk of thromboembolic and thrombotic disease associated with the use of CHCs is well-established. Although the absolute VTE rates are increased for users of CHCs compared to non-users, the rates associated with pregnancy are even greater, especially during the post-partum period (see Figure 1).

The frequency of VTE in women using CHCs has been estimated to be 3 to 12 cases per 10,000 women-years.

The risk of VTE is highest during the first year of CHC use and after restarting a CHC following a break of at least four weeks. The risk of VTE due to CHCs gradually disappears after use is discontinued.

Figure 1 shows the risk of developing a VTE for women who are not pregnant and do not use CHCs, for women who use CHCs, for pregnant women, and for women in the postpartum period. To put the risk of developing a VTE into perspective: If 10,000 women who are not pregnant and do not use CHCs are followed for one year, between 1 and 5 of these women will develop a VTE.

Figure 1: Likelihood of Developing a VTE



*CHC=combination hormonal contraception

**Pregnancy data based on actual duration of pregnancy in the reference studies.

Based on a model assumption that pregnancy duration is nine months, the rate is 7 to 27 per 10,000 WY.

Several epidemiology studies indicate that third generation oral contraceptives, including those containing desogestrel (etonogestrel, the progestin in Etonogestrel/Ethinyl Estradiol Vaginal Ring, is the biologically active metabolite of desogestrel), may be associated with a higher risk of VTE than oral contraceptives containing other progestins. Some of these studies indicate an approximate two-fold increased risk. However, data from other studies have not shown this two-fold increase in risk.

Use of CHCs also increases the risk of arterial thromboses such as strokes and myocardial infarctions, especially in women with other risk factors for these events. CHCs have been shown to increase both the relative and attributable risks of cerebrovascular events (thrombotic and hemorrhagic strokes). In general, the risk is greatest among older (>35 years of age), hypertensive women who also smoke.

Use Etonogestrel/Ethinyl Estradiol Vaginal Ring with caution in women with cardiovascular disease risk factors.

1 Includes low-dose COCs containing the following progestins: norgestimate, norethindrone, or levonorgestrel.

5.2 Toxic Shock Syndrome (TSS)

Cases of TSS have been reported by Etonogestrel/Ethinyl Estradiol Vaginal Ring users. TSS has been associated with tampons and certain barrier contraceptives, and, in some cases the Etonogestrel/Ethinyl Estradiol Vaginal Ring users were also using tampons. A causal relationship between the use of Etonogestrel/Ethinyl Estradiol Vaginal Ring and TSS has not been established. If a patient exhibits signs or symptoms of TSS, consider

the possibility of this diagnosis and initiate appropriate medical evaluation and treatment.

5.3 Liver Disease

Impaired Liver Function

Do not use Etonogestrel/Ethinyl Estradiol Vaginal Ring in women with liver disease such as acute viral hepatitis or severe (decompensated) cirrhosis of the liver [see *Contraindications (4)*]. Acute or chronic disturbances of liver function may necessitate the discontinuation of CHC use until markers of liver function return to normal and CHC causation has been excluded [see *Use in Specific Populations (8.6)*]. Discontinue Etonogestrel/Ethinyl Estradiol Vaginal Ring use if jaundice develops.

Liver Tumors

Etonogestrel/Ethinyl Estradiol Vaginal Ring is contraindicated in women with benign and malignant liver tumors [see *Contraindications (4)*]. Hepatic adenomas are associated with CHC use. An estimate of the attributable risk is 3.3 cases per 100,000 CHC users. Rupture of hepatic adenomas may cause death through intra-abdominal hemorrhage.

Studies have shown an increased risk of developing hepatocellular carcinoma in long term (>8 years) CHC users. However, the attributable risk of liver cancers in CHC users is less than one case per million users.

5.4 Risk of Liver Enzyme Elevations with Concomitant Hepatitis C Treatment

During clinical trials with the Hepatitis C combination drug regimen that contains ombitasvir/paritaprevir/ritonavir, with and without dasabuvir, ALT elevations greater than 5 times the upper limit of normal (ULN), including some cases greater than 20 times the ULN, were significantly more frequent in women using ethinyl estradiol-containing medications, such as CHCs. Discontinue Etonogestrel/Ethinyl Estradiol Vaginal Ring prior to starting therapy with the combination drug regimen ombitasvir/paritaprevir/ritonavir, with or without dasabuvir [see *Contraindications (4)*]. Etonogestrel/Ethinyl Estradiol Vaginal Ring can be restarted approximately 2 weeks following completion of treatment with the Hepatitis C combination drug regimen.

5.5 High Blood Pressure

Etonogestrel/Ethinyl Estradiol Vaginal Ring is contraindicated in women with uncontrolled hypertension or hypertension with vascular disease [see *Contraindications (4)*]. For women with well-controlled hypertension, monitor blood pressure and stop Etonogestrel/Ethinyl Estradiol Vaginal Ring use if blood pressure rises significantly.

An increase in blood pressure has been reported in women using CHCs and this increase is more likely in older women and with extended duration of use. The incidence of hypertension increases with increasing concentrations of progestin.

5.6 Hypersensitivity Reactions

Hypersensitivity reactions of anaphylaxis and angioedema have been reported during use of Etonogestrel/Ethinyl Estradiol Vaginal Ring. If anaphylaxis and/or angioedema is suspected, Etonogestrel/Ethinyl Estradiol Vaginal Ring should be discontinued and appropriate treatment administered. [See *Contraindications (4)*.]

5.7 Vaginal Use

Etonogestrel/Ethinyl Estradiol Vaginal Ring may not be suitable for women with conditions that make the vagina more susceptible to vaginal irritation or ulceration. Vaginal/cervical erosion or ulceration in women using Etonogestrel/Ethinyl Estradiol Vaginal Ring has been reported. In some cases, the ring adhered to vaginal tissue, necessitating removal by a healthcare provider and in some instances (i.e., when the tissue had grown over the ring), removal was achieved by cutting the ring without incising the overlying vaginal tissue.

Some women are aware of the ring on occasion during the 21 days of use or during intercourse, and sexual partners may feel Etonogestrel/Ethinyl Estradiol Vaginal Ring in the vagina.

5.8 Gallbladder Disease

Studies suggest a small increased relative risk of developing gallbladder disease among CHC users. Use of CHCs may also worsen existing gallbladder disease.

A past history of CHC-related cholestasis predicts an increased risk with subsequent CHC use. Women with a history of pregnancy-related cholestasis may be at an increased risk for CHC-related cholestasis.

5.9 Carbohydrate and Lipid Metabolic Effects

Carefully monitor prediabetic and diabetic women who are using Etonogestrel/Ethinyl Estradiol Vaginal Ring. CHCs may decrease glucose tolerance.

Consider alternative contraception for women with uncontrolled dyslipidemia. Some women will have adverse lipid changes while on CHCs.

Women with hypertriglyceridemia, or a family history thereof, may be at an increased risk of pancreatitis when using CHCs.

5.10 Headache

If a woman using Etonogestrel/Ethinyl Estradiol Vaginal Ring develops new headaches that are recurrent, persistent, or severe, evaluate the cause and discontinue Etonogestrel/Ethinyl Estradiol Vaginal Ring if indicated.

Consider discontinuation of Etonogestrel/Ethinyl Estradiol Vaginal Ring in the case of an increased frequency or severity of migraine during CHC use (which may be prodromal of a cerebrovascular event) [see *Contraindications (4)*].

5.11 Bleeding Irregularities and Amenorrhea

Unscheduled Bleeding and Spotting

Unscheduled bleeding (breakthrough or intracyclic) bleeding and spotting sometimes occur in women using CHCs, especially during the first three months of use. If bleeding persists or occurs after previously regular cycles, check for causes such as pregnancy or malignancy. If pathology and pregnancy are excluded, bleeding irregularities may resolve over time or with a change to a different CHC.

Bleeding patterns were evaluated in three large clinical studies. In the North American study (US and Canada, N=1,177), the percentages of subjects with breakthrough

bleeding/spotting ranged from 7.2% to 11.7% during cycles 1-13. In the two non-US studies, the percentages of subjects with breakthrough bleeding/spotting ranged from 2.6% to 6.4% (Europe, N=1,145) and from 2.0% to 8.7% (Europe, Brazil, Chile, N=512).

Amenorrhea and Oligomenorrhea

If scheduled (withdrawal) bleeding does not occur, consider the possibility of pregnancy. If the patient has not adhered to the prescribed dosing schedule, consider the possibility of pregnancy at the time of the first missed period and take appropriate diagnostic measures.

Occasional missed periods may occur with the appropriate use of Etonogestrel/Ethinyl Estradiol Vaginal Ring. In the clinical studies, the percent of women who did not have withdrawal bleeding in a given cycle ranged from 0.3% to 3.8%.

If the patient has adhered to the prescribed regimen and misses two consecutive periods, rule out pregnancy.

Some women may experience amenorrhea or oligomenorrhea after discontinuing CHC use, especially when such a condition was pre-existent.

5.12 Inadvertent Urinary Bladder Insertion

There have been reports of inadvertent insertions of Etonogestrel/Ethinyl Estradiol Vaginal Ring into the urinary bladder, which required cystoscopic removal. Assess for ring insertion into the urinary bladder in Etonogestrel/Ethinyl Estradiol Vaginal Ring users who present with persistent urinary symptoms and are unable to locate the ring.

5.13 Depression

Carefully observe women with a history of depression and discontinue Etonogestrel/Ethinyl Estradiol Vaginal Ring use if depression recurs to a serious degree.

5.14 Malignant Neoplasms

Breast Cancer

Etonogestrel/Ethinyl Estradiol Vaginal Ring is contraindicated in females who currently have or have had breast cancer because breast cancer may be hormonally sensitive [see *Contraindications* (4)].

Epidemiology studies have not found a consistent association between use of combined oral contraceptives (COCs) and breast cancer risk. Studies do not show an association between ever (current or past) use of COCs and risk of breast cancer. However, some studies report a small increase in the risk of breast cancer among current or recent users (<6 months since last use) and current users with longer duration of COC use [see *Postmarketing Experience* (6.2)].

Cervical Cancer

Some studies suggest that CHCs are associated with an increase in the risk of cervical cancer or intraepithelial neoplasia. However, there is controversy about the extent to which these findings may be due to differences in sexual behavior and other factors.

5.15 Effect on Binding Globulins

The estrogen component of CHCs may raise the serum concentrations of thyroxine-binding globulin, sex hormone-binding globulin, and cortisol-binding globulin. The dose of replacement thyroid hormones or cortisol therapy may need to be increased.

5.16 Monitoring

A woman who is using Etonogestrel/Ethinyl Estradiol Vaginal Ring should have a yearly visit with her healthcare provider for a blood pressure check and for other indicated healthcare.

5.17 Hereditary Angioedema

In women with hereditary angioedema, exogenous estrogens may induce or exacerbate symptoms of angioedema.

5.18 Chloasma

Chloasma may occasionally occur, especially in women with a history of chloasma gravidarum. Women with a tendency to chloasma should avoid exposure to the sun or ultraviolet radiation while using Etonogestrel/Ethinyl Estradiol Vaginal Ring.

6 ADVERSE REACTIONS

The following serious adverse reactions with the use of CHCs are discussed elsewhere in the labeling.

- Serious cardiovascular events and stroke [*see Boxed Warning and Warnings and Precautions (5.1)*]
- Vascular events [*see Warnings and Precautions (5.1)*]
- Liver disease [*see Warnings and Precautions (5.3)*]

Adverse reactions commonly reported by CHC users are:

- Irregular uterine bleeding
- Nausea
- Breast tenderness
- Headache

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.

Trials with a duration of 6 to 13 28-day cycles provided safety data. In total, 2,501 women, aged 18 to 41 contributed 24,520 cycles of exposure.

Common Adverse Reactions ($\geq 2\%$): vaginitis (13.8%), headache (including migraine) (11.2%), mood changes (e.g., depression, mood swings, mood altered, depressed mood, affect lability) (6.4%), device-related events (e.g., expulsion/discomfort/foreign body sensation) (6.3%), nausea/vomiting (5.9%), vaginal discharge (5.7%), increased weight (4.9%), vaginal discomfort (4.0%), breast pain/discomfort/tenderness (3.8%), dysmenorrhea (3.5%), abdominal pain (3.2%), acne (2.4%), and decreased libido (2.0%).

Adverse Reactions ($\geq 1\%$) Leading to Study Discontinuation: 13.0% of the women discontinued from the clinical trials due to an adverse reaction; the most common adverse reactions leading to discontinuation were device-related events (2.7%), mood changes (1.7%), headache (including migraine) (1.5%) and vaginal symptoms (1.2%).

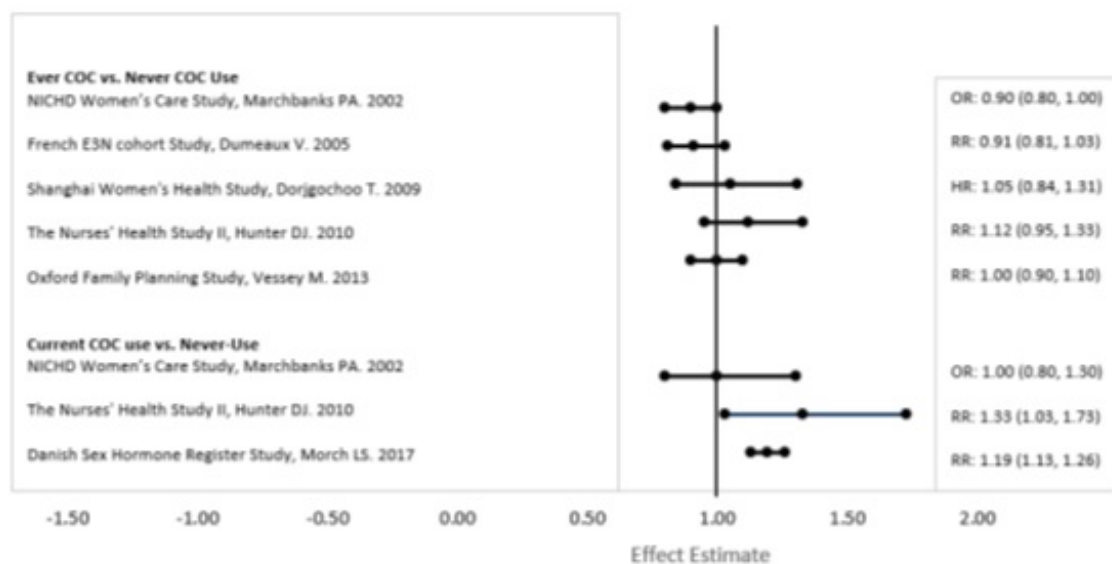
Serious Adverse Reactions: deep vein thrombosis [see *Warnings and Precautions* (5.1)], anxiety, cholelithiasis, and vomiting.

6.2 Postmarketing Experience

Five studies that compared breast cancer risk between ever-users (current or past use) of COCs and never-users of COCs reported no association between ever use of COCs and breast cancer risk, with effect estimates ranging from 0.90 - 1.12 (Figure 2).

Three studies compared breast cancer risk between current or recent COC users (<6 months since last use) and never users of COCs (Figure 2). One of these studies reported no association between breast cancer risk and COC use. The other two studies found an increased relative risk of 1.19 - 1.33 with current or recent use. Both of these studies found an increased risk of breast cancer with current use of longer duration, with relative risks ranging from 1.03 with less than one year of COC use to approximately 1.4 with more than 8-10 years of COC use.

Figure 2: Relevant Studies of Risk of Breast Cancer with Combined Oral Contraceptives



RR = relative risk; OR = odds ratio; HR = hazard ratio. "ever COC" are females with current or past COC use; "never COC use" are females that never used COCs.

The following adverse reactions have been identified during post-approval use of Etonogestrel/Ethinyl Estradiol Vaginal Ring. 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, including anaphylaxis and angioedema

Nervous system disorders: stroke/cerebrovascular accident

Vascular disorders: arterial events (including arterial thromboembolism and myocardial infarction), aggravation of varicose veins

Skin and subcutaneous tissue disorders: urticaria, chloasma

Reproductive system and breast disorders: penile disorders, including local reactions on penis (in male partners of women using Etonogestrel/Ethinyl Estradiol Vaginal Ring), galactorrhea

General Disorders and Administration Site Conditions: device breakage (including with concomitant use of intravaginal antimycotic, antibiotic, and lubricant products)

Injury, poisoning and procedural complications: vaginal injury (including associated pain, discomfort, and bleeding) associated with ring breakage

7 DRUG INTERACTIONS

Consult the labeling of all concurrently-used drugs to obtain further information about interactions with hormonal contraceptives or the potential for enzyme alterations.

7.1 Effects of Other Drugs on CHCs

Substances decreasing the plasma concentrations of CHCs and potentially diminishing the effectiveness of CHCs

Drugs or herbal products that induce certain enzymes, including cytochrome P450 3A4 (CYP3A4), may decrease the plasma concentrations of CHCs and potentially diminish the effectiveness of CHCs or increase breakthrough bleeding. Some drugs or herbal products that may decrease the effectiveness of hormonal contraceptives include: phenytoin, barbiturates, carbamazepine, bosentan, felbamate, griseofulvin, oxcarbazepine, rifampicin, topiramate, rifabutin, rifinamide, aprepitant, and products containing St. John's wort. Interactions between CHCs and other drugs may lead to breakthrough bleeding and/or contraceptive failure.

Counsel women to use an alternative non-hormonal method of contraception or a back-up method when enzyme inducers are used with Etonogestrel/Ethinyl Estradiol Vaginal Ring, and to continue back-up non-hormonal contraception for 28 days after discontinuing the enzyme inducer to ensure contraceptive reliability.

Note: Etonogestrel/Ethinyl Estradiol Vaginal Ring may interfere with the correct placement and position of certain female barrier methods such as a diaphragm or female condom. These methods are not recommended as back-up methods with Etonogestrel/Ethinyl Estradiol Vaginal Ring use [see *Dosage and Administration (2.5)*].

The serum concentrations of etonogestrel and ethinyl estradiol were not affected by concomitant administration of oral amoxicillin or doxycycline in standard dosages during 10 days of antibiotic treatment. The effects of other antibiotics on etonogestrel or ethinyl estradiol concentrations have not been evaluated.

Substances increasing the plasma concentrations of CHCs

Co-administration of atorvastatin and certain CHCs containing ethinyl estradiol increase AUC values for ethinyl estradiol by approximately 20-25%. Ascorbic acid and

acetaminophen may increase plasma ethinyl estradiol concentrations, possibly by inhibition of conjugation. Concomitant administration of strong or moderate CYP3A4 inhibitors such as itraconazole, voriconazole, fluconazole, grapefruit juice, or ketoconazole may increase plasma estrogen and/or progestin concentrations. Co-administration of vaginal miconazole nitrate and Etonogestrel/Ethinyl Estradiol Vaginal Ring increases the serum concentrations of etonogestrel and ethinyl estradiol by up to 40% [see *Clinical Pharmacology* (12.3)].

Human immunodeficiency virus (HIV) / Hepatitis C Virus (HCV) protease inhibitors and non-nucleoside reverse transcriptase inhibitors

Significant changes in the plasma concentrations of the estrogen and /or progestin have been noted in some cases of co-administration with HIV protease inhibitors (decrease [e.g., nelfinavir, ritonavir, darunavir/ritonavir, (fos)amprenavir/ritonavir, lopinavir/ritonavir, and tipranavir/ritonavir] or increase [e.g., indinavir and atazanavir/ritonavir]) /HCV protease inhibitors (decrease [e.g., boceprevir and telaprevir]) or with non-nucleoside reverse transcriptase inhibitors (decrease [e.g., efavirenz, nevirapine] or increase [e.g., etravirine]). These changes may be clinically relevant in some cases.

7.2 Effects of CHCs on Other Drugs

CHCs containing ethinyl estradiol may inhibit the metabolism of other compounds (e.g., cyclosporine, prednisolone, theophylline, tizanidine, and voriconazole) and increase their plasma concentrations. CHCs have been shown to decrease plasma concentrations of acetaminophen, clofibrilic acid, morphine, salicylic acid and temazepam. A significant decrease in the plasma concentrations of lamotrigine has been shown, likely due to induction of lamotrigine glucuronidation. This may reduce seizure control; therefore, dosage adjustments of lamotrigine may be necessary.

Women on thyroid hormone replacement therapy may need increased doses of thyroid hormone because serum concentrations of thyroid-binding globulin increase with use of CHCs.

7.3 Concomitant Use with HCV Combination Therapy - Liver Enzyme Elevation

Do not co-administer Etonogestrel/Ethinyl Estradiol Vaginal Ring with HCV drug combinations containing ombitasvir/paritaprevir/ritonavir, with or without dasabuvir, due to potential for ALT elevations [see *Warnings and Precautions* (5.4)].

7.4 Interference with Laboratory Tests

The use of contraceptive steroids may influence the results of certain laboratory tests, such as coagulation factors, lipids, glucose tolerance, and binding proteins.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Etonogestrel/Ethinyl Estradiol Vaginal Ring is contraindicated during pregnancy because there is no need for pregnancy prevention in a woman who is already pregnant.

Epidemiologic studies and meta-analyses have not shown an increased risk of genital or non-genital birth defects (including cardiac anomalies and limb-reduction defects) following maternal exposure to low dose CHCs prior to conception or during early pregnancy. No adverse developmental outcomes were observed in pregnant rats and rabbits with the administration of etonogestrel during organogenesis at doses approximately 300 times the anticipated daily vaginal human dose (~ 0.002 mg/kg/day).

No adverse developmental outcomes were observed in pregnant rats and rabbits with the co-administration of the combination desogestrel/ethinyl estradiol during organogenesis at desogestrel/ethinyl estradiol doses at least 2/5 times, respectively, the anticipated daily vaginal human dose (~ 0.002 desogestrel/ 0.00025 ethinyl estradiol mg/kg/day).

Discontinue Etonogestrel/Ethinyl Estradiol Vaginal Ring use if pregnancy is confirmed.

Data

Animal Data

In rats and rabbits at dosages up to 300 times the anticipated dose, etonogestrel is neither embryotoxic nor teratogenic. Co-administration of a maternally toxic dose of desogestrel/ethinyl estradiol to pregnant rats was associated with embryoletality and wavy ribs at a desogestrel/ethinyl estradiol dose that was 40/130 times, respectively, the anticipated vaginal human dose (0.002 desogestrel/ 0.00025 ethinyl estradiol mg/kg/day). No adverse embryofetal effects were observed when the combination was administered to pregnant rats at a desogestrel/ethinyl estradiol dose that was 4/13 times, respectively, the anticipated vaginal human dose. When desogestrel/ethinyl estradiol was given to pregnant rabbits, pre-implantation loss was observed at a desogestrel/ethinyl estradiol dose that was 3/10 times, respectively, the anticipated vaginal human dose. No adverse embryofetal effects were observed when the combination was administered to pregnant rabbits at a desogestrel/ethinyl estradiol dose that was 2/5 times the anticipated vaginal human dose.

8.2 Lactation

Risk Summary

Small amounts of contraceptive steroids and/or metabolites, including etonogestrel and ethinyl estradiol are transferred to human milk. Harmful effects have not been observed in breastfed infants exposed to CHCs through breast milk. CHCs can reduce milk production in breastfeeding mothers. This is less likely to occur once breastfeeding is well-established; however, it can occur at any time in some women.

When possible, advise the nursing mother to use non-estrogen-containing contraception until she has completely weaned her child. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for Etonogestrel/Ethinyl Estradiol Vaginal Ring and any potential adverse effects on the breastfed child from Etonogestrel/Ethinyl Estradiol Vaginal Ring or from the underlying maternal condition.

8.4 Pediatric Use

Safety and efficacy of Etonogestrel/Ethinyl Estradiol Vaginal Ring have been established in women of reproductive age. Efficacy is expected to be the same for postpubertal

adolescents under the age of 18 and for users 18 years and older. Use of this product before menarche is not indicated.

8.5 Geriatric Use

Etonogestrel/Ethinyl Estradiol Vaginal Ring has not been studied in postmenopausal women and is not indicated in this population.

8.6 Hepatic Impairment

The effect of hepatic impairment on the pharmacokinetics of Etonogestrel/Ethinyl Estradiol Vaginal Ring has not been studied. Steroid hormones may be poorly metabolized in patients with impaired liver function. Acute or chronic disturbances of liver function may necessitate the discontinuation of CHC use until markers of liver function return to normal. *[See Contraindications (4) and Warnings and Precautions (5.3).]*

8.7 Renal Impairment

The effect of renal impairment on the pharmacokinetics of Etonogestrel/Ethinyl Estradiol Vaginal Ring has not been studied.

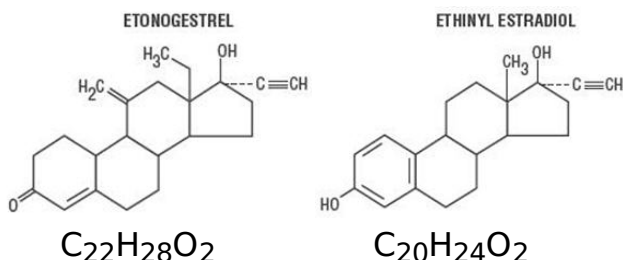
10 OVERDOSAGE

There have been no reports of serious ill effects from overdose of CHCs. Overdosage may cause withdrawal bleeding in females and nausea. If the ring breaks, it does not release a higher dose of hormones. In case of suspected overdose, all Etonogestrel/Ethinyl Estradiol Vaginal Ring rings should be removed and symptomatic treatment given.

11 DESCRIPTION

Etonogestrel/Ethinyl Estradiol Vaginal Ring is a non-biodegradable, flexible, transparent, colorless to almost colorless, combination contraceptive vaginal ring containing two active components, a progestin, etonogestrel (13-ethyl-17-hydroxy-11-methylene-18,19-dinor-17 α -pregn-4-en-20-yn-3-one) and an estrogen, ethinyl estradiol (19-nor-17 α -pregna-1,3,5(10)-trien-20-yne-3,17-diol). When placed in the vagina, each ring releases on average 0.120 mg/day of etonogestrel and 0.015 mg/day of ethinyl estradiol over a three-week period of use. Etonogestrel/Ethinyl Estradiol Vaginal Ring is made of ethylene vinylacetate copolymers (28% and 9% vinylacetate) and magnesium stearate and contains 11.7 mg etonogestrel and 2.7 mg ethinyl estradiol. Etonogestrel/Ethinyl Estradiol Vaginal Ring is not made with natural rubber latex. Etonogestrel/Ethinyl Estradiol Vaginal Ring has an outer diameter of 54 mm and a cross-sectional diameter of 4 mm. The molecular weights for etonogestrel and ethinyl estradiol are 324.46 and 296.40, respectively.

The structural formulas are as follows:



12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Combination hormonal contraceptives act by suppression of gonadotropins. Although the primary effect of this action is inhibition of ovulation, other alterations include changes in the cervical mucus (which increase the difficulty of sperm entry into the uterus) and the endometrium (which reduce the likelihood of implantation).

12.3 Pharmacokinetics

Absorption

Etonogestrel: Etonogestrel released by Etonogestrel/Ethinyl Estradiol Vaginal Ring is rapidly absorbed. The bioavailability of etonogestrel after vaginal administration is approximately 100%. The serum etonogestrel and ethinyl estradiol concentrations observed during three weeks of Etonogestrel/Ethinyl Estradiol Vaginal Ring use are summarized in Table 2.

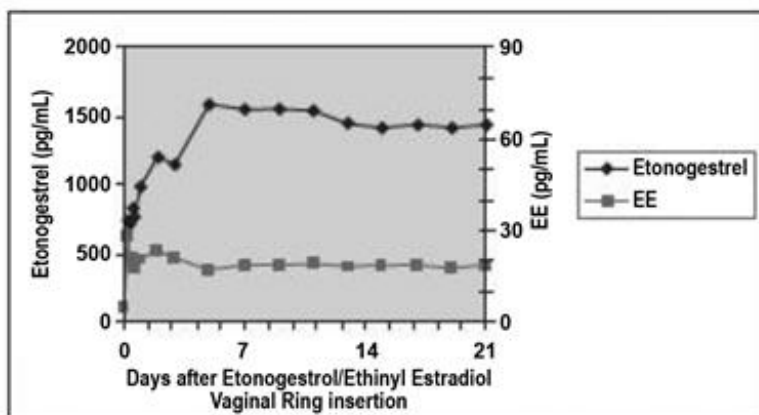
Ethinyl estradiol: Ethinyl estradiol released by Etonogestrel/Ethinyl Estradiol Vaginal Ring is rapidly absorbed. The bioavailability of ethinyl estradiol after vaginal administration is approximately 56%, which is comparable to that with oral administration of ethinyl estradiol. The serum ethinyl estradiol concentrations observed during three weeks of Etonogestrel/Ethinyl Estradiol Vaginal Ring use are summarized in Table 2.

Table 2: Mean (SD) Serum Etonogestrel and Ethinyl Estradiol Concentrations (n=16)

	1 week	2 weeks	3 weeks
etonogestrel (pg/mL)	1578 (408)	1476 (362)	1374 (328)
ethinyl estradiol (pg/mL)	19.1 (4.5)	18.3 (4.3)	17.6 (4.3)

The pharmacokinetic profile of etonogestrel and ethinyl estradiol during use of Etonogestrel/Ethinyl Estradiol Vaginal Ring is shown in Figure 3.

Figure 3: Mean Serum Concentration-Time Profile of Etonogestrel and Ethinyl Estradiol during Three Weeks of Etonogestrel/Ethinyl Estradiol Vaginal Ring Use



The pharmacokinetic parameters of etonogestrel and ethinyl estradiol were determined during one cycle of Etonogestrel/Ethinyl Estradiol Vaginal Ring use in 16 healthy female subjects and are summarized in Table 3.

Table 3: Mean (SD) Pharmacokinetic Parameters of Etonogestrel/Ethinyl Estradiol Vaginal Ring (n=16)

Hormone	C _{max} pg/mL	T _{max} hr	t _{1/2} hr	CL L/hr
etonogestrel	1716 (445)	200.3 (69.6)	29.3 (6.1)	3.4 (0.8)
ethinyl estradiol	34.7 (17.5)	59.3 (67.5)	44.7 (28.8)	34.8 (11.6)

C_{max}- maximum serum drug concentration

T_{max}- time at which maximum serum drug concentration occurs

t_{1/2} - elimination half-life, calculated by $0.693/K_{elim}$

CL - apparent clearance

Prolonged use of Etonogestrel/Ethinyl Estradiol Vaginal Ring: The mean serum etonogestrel concentration at the end of the fourth week of continuous use of Etonogestrel/Ethinyl Estradiol Vaginal Ring was 1272 ± 311 pg/mL compared to a mean concentration range of 1578 ± 408 to 1374 ± 328 pg/mL at the end of weeks one to three. The mean serum ethinyl estradiol concentration at the end of the fourth week of continuous use of Etonogestrel/Ethinyl Estradiol Vaginal Ring was 16.8 ± 4.6 pg/mL compared to a mean concentration range of 19.1 ± 4.5 to 17.6 ± 4.3 pg/mL at the end of weeks one to three.

Distribution

Etonogestrel: Etonogestrel is approximately 32% bound to sex hormone-binding globulin (SHBG) and approximately 66% bound to albumin in blood.

Ethinyl estradiol: Ethinyl estradiol is highly but not specifically bound to serum albumin (98.5%) and induces an increase in the serum concentrations of SHBG.

Metabolism

In vitro data shows that both etonogestrel and ethinyl estradiol are metabolized in liver microsomes by the cytochrome P450 3A4 isoenzyme. Ethinyl estradiol is primarily metabolized by aromatic hydroxylation, but a wide variety of hydroxylated and

methyated metabolites are formed. These are present as free metabolites and as sulfate and glucuronide conjugates. The hydroxylated ethinyl estradiol metabolites have weak estrogenic activity. The biological activity of etonogestrel metabolites is unknown.

Excretion

Etonogestrel and ethinyl estradiol are primarily eliminated in urine, bile and feces.

Drug Interactions

[See also Drug Interactions (7).]

The drug interactions of Etonogestrel/Ethinyl Estradiol Vaginal Ring were evaluated in several studies.

A single-dose vaginal administration of an oil-based 1200-mg miconazole nitrate capsule increased the serum concentrations of etonogestrel and ethinyl estradiol by approximately 17% and 16%, respectively. Following multiple doses of 200 mg miconazole nitrate by vaginal suppository or vaginal cream, the mean serum concentrations of etonogestrel and ethinyl estradiol increased by up to 40%.

A single-dose vaginal administration of 100-mg water-based nonoxynol-9 spermicide gel did not affect the serum concentrations of etonogestrel or ethinyl estradiol.

The serum concentrations of etonogestrel and ethinyl estradiol were not affected by concomitant administration of oral amoxicillin or doxycycline in standard dosages during 10 days of antibiotic treatment.

Tampon Use

The use of tampons had no effect on serum concentrations of etonogestrel and ethinyl estradiol during use of Etonogestrel/Ethinyl Estradiol Vaginal Ring *[see Dosage and Administration (2.5)]*.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

In a 24-month carcinogenicity study in rats with subdermal implants releasing 10 and 20 mcg etonogestrel per day, (approximately 0.3 and 0.6 times the systemic steady-state exposure of women using Etonogestrel/Ethinyl Estradiol Vaginal Ring), no drug-related carcinogenic potential was observed.

Mutagenesis

Etonogestrel was not genotoxic in the in vitro Ames/Salmonella reverse mutation assay, the chromosomal aberration assay in Chinese hamster ovary cells or in the in vivo mouse micronucleus test.

Impairment of Fertility

A fertility study was conducted with etonogestrel in rats at approximately 600 times the anticipated daily vaginal human dose (~0.002 mg/kg/day). Treatment did not have any adverse effect on resulting litter parameters after cessation of treatment supporting the return to fertility after suppression with etonogestrel.

14 CLINICAL STUDIES

In three large one-year clinical trials enrolling 2,834 women aged 18-40 years, in North America, Europe, Brazil, and Chile, the racial distribution was 93% Caucasian, 5.0% Black, 0.8% Asian, and 1.2% Other. Women with BMI \geq 30 kg/m² were excluded from these studies.

Based on pooled data from the three trials, 2,356 women aged < 35 years completed 23,515 evaluable cycles of Etonogestrel/Ethinyl Estradiol Vaginal Ring use (cycles in which no back-up contraception was used). The pooled pregnancy rate (Pearl Index) was 1.28 (95% CI [0.8, 1.9]) per 100 women-years of Etonogestrel/Ethinyl Estradiol Vaginal Ring use. In the US study, the Pearl Index was 2.02 (95% CI [1.1, 3.4]) per 100 women-years of Etonogestrel/Ethinyl Estradiol Vaginal Ring use.

Study data indicate the return of ovulation and spontaneous menstrual cycles in most women within a month after discontinuation of Etonogestrel/Ethinyl Estradiol Vaginal Ring use.

15 REFERENCES

1. Dinger, J et. al., Cardiovascular risk associated with the use of an etonogestrel-containing vaginal ring. *Obstetrics & Gynecology* 2013; 122(4): 800-808.
2. Sidney, S. et. al., Recent combined hormonal contraceptives (CHCs) and the risk of thromboembolism and other cardiovascular events in new users. *Contraception* 2013; 87: 93-100.
3. Combined hormonal contraceptives (CHCs) and the risk of cardiovascular endpoints. Sidney, S. (primary author)
<http://www.fda.gov/downloads/Drugs/DrugSafety/UCM277384.pdf>, accessed 23-Aug-2013.

16 HOW SUPPLIED/STORAGE AND HANDLING

Each Etonogestrel/Ethinyl Estradiol Vaginal Ring is individually packaged in a reclosable aluminum laminate sachet consisting of three layers, from outside to inside: polyester, aluminum foil, and low-density polyethylene. The ring should be replaced in this reclosable sachet after use and discarded in a waste receptacle out of the reach of children and pets. It should not be flushed down the toilet.

Box of 3 sachets NDC 66993-605-36

16.1 Storage

Prior to dispensing to the user, store refrigerated 2-8°C (36-46°F). After dispensing to the user, Etonogestrel/Ethinyl Estradiol Vaginal Ring can be stored for up to 4 months at 25°C (77°F); excursions permitted to 15-30°C (59-86°F) [see USP Controlled Room Temperature].

Avoid storing Etonogestrel/Ethinyl Estradiol Vaginal Ring in direct sunlight or at temperatures above 30°C (86°F).

For the Dispenser: When Etonogestrel/Ethinyl Estradiol Vaginal Ring is dispensed to the user, place an expiration date on the label. The date should not exceed either 4 months from the date of dispensing or the expiration date, whichever comes first.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information and Instructions for Use).

Counsel patients regarding the following:

Increased risk of cardiovascular events

- Advise patients that cigarette smoking increases the risk of serious cardiovascular events from use of Etonogestrel/Ethinyl Estradiol Vaginal Ring, and women who are over 35 years old and smoke should not use Etonogestrel/Ethinyl Estradiol Vaginal Ring *[see Boxed Warning]*.
- Inform patients that the increased risk of VTE compared to non-users of CHCs is greatest after initially starting a CHC or restarting (following a 4-week or greater CHC-free interval) the same or a different CHC *[see Warnings and Precautions (5.1)]*.

Use and administration

- Inform patients that Etonogestrel/Ethinyl Estradiol Vaginal Ring does not protect against HIV infection (AIDS) and other sexually transmitted infections.
- Advise patients on the proper usage of Etonogestrel/Ethinyl Estradiol Vaginal Ring and what to do if she does not comply with the labeled timing of insertion and removal *[see Dosage and Administration (2)]*.
- Advise patients to regularly check for the presence of Etonogestrel/Ethinyl Estradiol Vaginal Ring in the vagina (for example, before and after intercourse) *[see Dosage and Administration (2.3)]*.

Pregnancy

- Inform patients that Etonogestrel/Ethinyl Estradiol Vaginal Ring is not to be used during pregnancy. If pregnancy is planned or occurs during treatment with Etonogestrel/Ethinyl Estradiol Vaginal Ring, instruct the patient to discontinue Etonogestrel/Ethinyl Estradiol Vaginal Ring use *[see Use in Specific Populations (8.1)]*.

Use of additional contraception

- Inform patients that they need to use a barrier method of contraception when the ring is out for more than three continuous hours until Etonogestrel/Ethinyl Estradiol Vaginal Ring has been used continuously for at least seven days *[see Dosage and Administration (2.3)]*.
- Advise patients to use a back-up or alternative method of contraception when enzyme inducers are used with Etonogestrel/Ethinyl Estradiol Vaginal Ring *[see Drug Interactions (7.1)]*.
- Inform patients who start Etonogestrel/Ethinyl Estradiol Vaginal Ring postpartum and have not yet had a normal period that they should use an additional non-hormonal method of contraception for the first seven days *[see Dosage and Administration (2.2)]*.

Lactation

- Inform patients that CHCs may reduce breast milk production. This is less likely to

occur if breastfeeding is well established [see *Use in Specific Populations (8.2)*].

Amenorrhea

- Inform patients that amenorrhea may occur. Rule out pregnancy in the event of amenorrhea if Etonogestrel/Ethinyl Estradiol Vaginal Ring has been out of the vagina for more than three consecutive hours, if the ring-free interval was extended beyond one week, if the woman has missed a period for two or more consecutive cycles, and if the ring has been retained for longer than four weeks [see *Warnings and Precautions (5.11)*].

Disposal

- Advise patients on the proper disposal of a used Etonogestrel/Ethinyl Estradiol Vaginal Ring [see *How Supplied/Storage and Handling (16)*].

Manufactured for: **Prasco Laboratories**, Mason, OH 45040, USA

Manufactured by: N.V. Organon, Oss, The Netherlands, a subsidiary of Organon & Co., Jersey City, NJ 07302, USA

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Patient Information

Etonogestrel/Ethinyl Estradiol Vaginal Ring

What is the most important information I should know about Etonogestrel/Ethinyl Estradiol Vaginal Ring?

Do not use Etonogestrel/Ethinyl Estradiol Vaginal Ring if you smoke cigarettes and are over 35 years old. Smoking increases your risk of serious cardiovascular side effects (heart and blood vessel problems) from combination hormonal contraceptives (CHCs), including death from heart attack, blood clots or stroke. This risk increases with age and the number of cigarettes you smoke.

Hormonal birth control methods help to lower the chances of becoming pregnant. They do not protect against HIV infection (AIDS) and other sexually transmitted infections.

What is Etonogestrel/Ethinyl Estradiol Vaginal Ring?

Etonogestrel/Ethinyl Estradiol Vaginal Ring is a flexible birth control vaginal ring used to prevent pregnancy.

Etonogestrel/Ethinyl Estradiol Vaginal Ring contains a combination of a progestin and estrogen, 2 kinds of female hormones. Birth control methods that contain both an estrogen and a progestin are called combination hormonal contraceptives (CHCs).

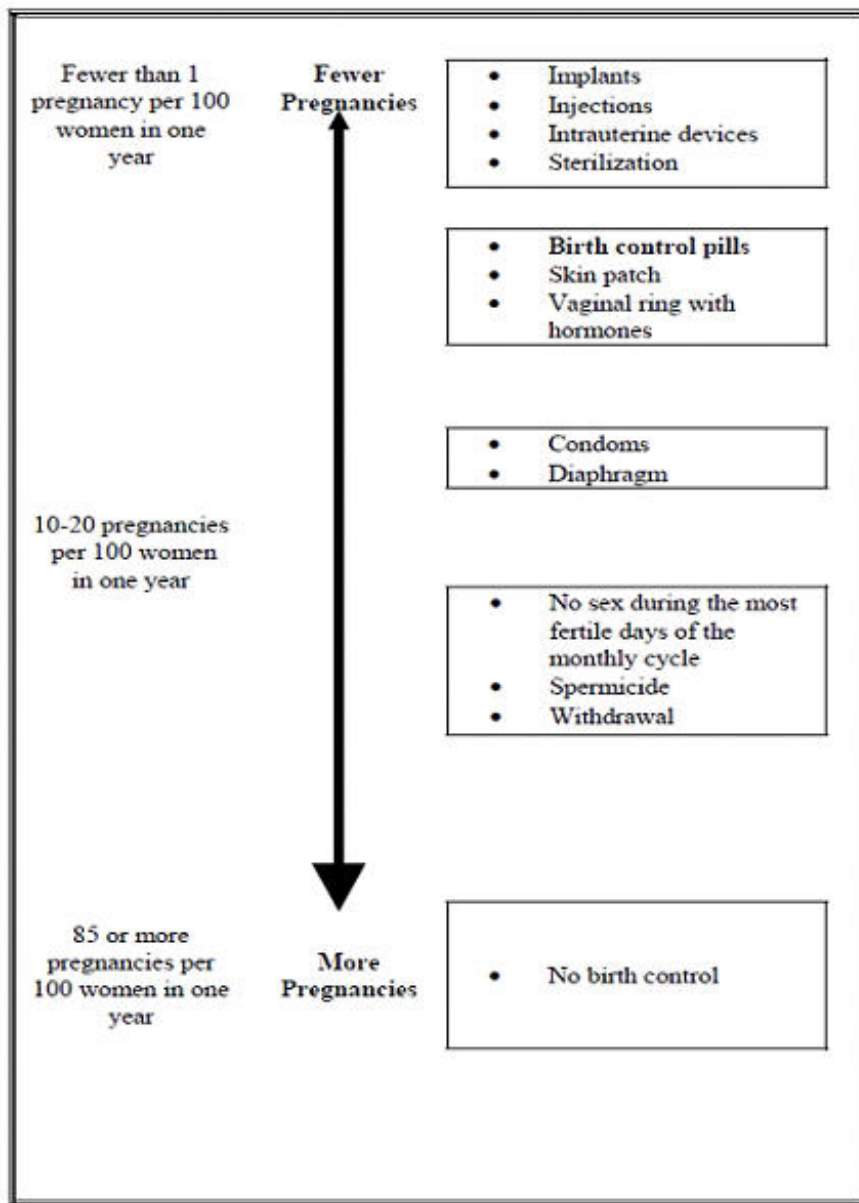
How well does Etonogestrel/Ethinyl Estradiol Vaginal Ring work?

Your chance of getting pregnant depends on how well you follow the directions for using Etonogestrel/Ethinyl Estradiol Vaginal Ring. The better you follow the directions, the less chance you have of getting pregnant.

Based on the results of a US clinical study, approximately 1 to 3 women out of 100

women may get pregnant during the first year they use Etonogestrel/Ethinyl Estradiol Vaginal Ring.

The following chart shows the chance of getting pregnant for women who use different methods of birth control. Each box on the chart contains a list of birth control methods that are similar in effectiveness. The most effective methods are at the top of the chart. The box on the bottom of the chart shows the chance of getting pregnant for women who do not use birth control and are trying to get pregnant.



Who should not use Etonogestrel/Ethinyl Estradiol Vaginal Ring?

Do not use Etonogestrel/Ethinyl Estradiol Vaginal Ring if you:

- smoke and are over 35 years old
- have or have had blood clots in your arms, legs, eyes, or lungs
- have an inherited problem with your blood that makes it clot more than normal
- have had a stroke
- have had a heart attack
- have certain heart valve problems or heart rhythm problems that can cause blood clots to form in the heart

- have high blood pressure that medicine can't control
- have diabetes with kidney, eye, nerve, or blood vessel damage
- have certain kinds of severe migraine headaches with aura, numbness, weakness, or changes in vision, or have any migraine headaches if you are over age 35
- have liver disease, including liver tumors
- take any Hepatitis C drug combination containing ombitasvir/paritaprevir/ritonavir, with or without dasabuvir. This may increase levels of the liver enzyme "alanine aminotransferase" (ALT) in the blood
- have unexplained vaginal bleeding
- are pregnant or think you may be pregnant. Etonogestrel/Ethinyl Estradiol Vaginal Ring is not for pregnant women.
- have or have had breast cancer or any cancer that is sensitive to female hormones
- are allergic to etonogestrel, ethinyl estradiol or any of the ingredients in Etonogestrel/Ethinyl Estradiol Vaginal Ring. See the list of ingredients in Etonogestrel/Ethinyl Estradiol Vaginal Ring at the end of this leaflet.

Hormonal birth control methods may not be a good choice for you if you have ever had jaundice (yellowing of the skin or eyes) caused by pregnancy or related to previous use of hormonal birth control.

Tell your healthcare provider if you have ever had any of the conditions listed above. Your healthcare provider can suggest another method of birth control.

What should I tell my healthcare provider before using Etonogestrel/Ethinyl Estradiol Vaginal Ring?

Before you use Etonogestrel/Ethinyl Estradiol Vaginal Ring tell your healthcare provider if you:

- have any medical conditions
- smoke
- are pregnant or think you are pregnant
- recently had a baby
- recently had a miscarriage or abortion
- have a family history of breast cancer
- have or have had breast nodules, fibrocystic disease, an abnormal breast x-ray, or abnormal mammogram
- use tampons and have a history of toxic shock syndrome
- have been diagnosed with depression
- have had liver problems including jaundice during pregnancy
- have or have had elevated cholesterol or triglycerides
- have or have had gallbladder, liver, heart, or kidney disease
- have diabetes
- have a history of jaundice (yellowing of the skin or eyes) caused by pregnancy (also called cholestasis of pregnancy)
- have a history of scanty or irregular menstrual periods
- have any condition that makes the vagina become irritated easily
- have or have had high blood pressure
- have or have had migraines or other headaches or seizures
- are scheduled for surgery. Etonogestrel/Ethinyl Estradiol Vaginal Ring may increase your risk of blood clots after surgery. You should stop using Etonogestrel/Ethinyl

Estradiol Vaginal Ring at least 4 weeks before you have surgery and not restart it until at least 2 weeks after your surgery.

- are scheduled for any laboratory tests. Certain blood tests may be affected by hormonal birth control methods.
- are breastfeeding or plan to breastfeed. Hormonal birth control methods that contain estrogen, like Etonogestrel/Ethinyl Estradiol Vaginal Ring, may decrease the amount of milk you make. A small amount of hormones from Etonogestrel/Ethinyl Estradiol Vaginal Ring may pass into your breast milk. Consider another non-hormonal method of birth control until you are ready to stop breastfeeding.
- have (or have ever had) an allergic reaction while using Etonogestrel/Ethinyl Estradiol Vaginal Ring, including hives, swelling of the face, lips, tongue, and/or throat causing difficulty in breathing or swallowing (anaphylaxis and/or angioedema).

Tell your healthcare provider about all medicines and herbal products you take, including prescription and over-the-counter medicines, vitamins and herbal supplements.

Some medicines and herbal products may make hormonal birth control less effective, including, but not limited to:

- certain anti-seizure medicines (such as barbiturates, carbamazepine, felbamate, oxcarbazepine, phenytoin, rufinamide and topiramate)
- medicine to treat fungal infections (griseofulvin)
- certain combinations of HIV medicines, (such as nelfinavir, ritonavir, darunavir/ritonavir, (fos)amprenavir/ritonavir, lopinavir/ritonavir, and tipranavir/ritonavir)
- certain hepatitis C (HCV) medicines (such as boceprevir and telaprevir)
- non-nucleoside reverse transcriptase inhibitors (such as efavirenz and nevirapine)
- medicine to treat tuberculosis (such as rifampicin and rifabutin)
- medicine to treat high blood pressure in the vessels of the lung (bosentan)
- medicine to treat chemotherapy-induced nausea and vomiting (aprepitant)
- St John's wort

Use an additional barrier contraceptive method (such as a male condom with spermicide) when you take medicines that may make Etonogestrel/Ethinyl Estradiol Vaginal Ring less effective. Since the effect of another medicine on Etonogestrel/Ethinyl Estradiol Vaginal Ring may last up to 28 days after stopping the medicine, it is necessary to use the additional barrier contraceptive method for that long to help prevent you from becoming pregnant. While using Etonogestrel/Ethinyl Estradiol Vaginal Ring, you should not use certain female barrier contraceptive methods such as a vaginal diaphragm, cervical cap or female condom as your back-up method of birth control because Etonogestrel/Ethinyl Estradiol Vaginal Ring may interfere with the correct placement and position of a diaphragm, cervical cap or female condom.

Some medicines and grapefruit juice may increase the level of ethinyl estradiol in your blood if used together, including:

- the pain reliever acetaminophen
- ascorbic acid (vitamin C)
- medicines that affect how your liver breaks down other medicines (such as itraconazole, ketoconazole, voriconazole, fluconazole, clarithromycin, erythromycin, and diltiazem)

- certain HIV medicines (atazanavir/ritonavir and indinavir)
- non-nucleoside reverse transcriptase inhibitors (such as etravirine)
- medicines to lower cholesterol such as atorvastatin and rosuvastatin

Hormonal birth control methods may interact with lamotrigine, a medicine used for seizures. This may increase the risk of seizures, so your healthcare provider may need to adjust your dose of lamotrigine.

Women on thyroid replacement therapy may need increased doses of thyroid hormone.

Ask your healthcare provider if you are not sure if you take any of the medicines listed above. Know the medicines you take. Keep a list of them to show your doctor and pharmacist when you get a new medicine.

How should I use Etonogestrel/Ethinyl Estradiol Vaginal Ring?

- Read the **Instructions for Use** at the end of this Patient Information that comes with your Etonogestrel/Ethinyl Estradiol Vaginal Ring for information about the right way to use Etonogestrel/Ethinyl Estradiol Vaginal Ring.
 - Use Etonogestrel/Ethinyl Estradiol Vaginal Ring exactly as your healthcare provider tells you to use it.
 - Etonogestrel/Ethinyl Estradiol Vaginal Ring is used in a 4-week cycle.
 - Insert 1 Etonogestrel/Ethinyl Estradiol Vaginal Ring in the vagina and keep it in place for 3 weeks (21 days). Regularly check that Etonogestrel/Ethinyl Estradiol Vaginal Ring is in your vagina (for example, before and after intercourse) to ensure that you are protected from pregnancy.
 - Remove the Etonogestrel/Ethinyl Estradiol Vaginal Ring for a 1-week break (7 days). During the 1-week break (7 days), you will usually have your menstrual period.
- Note: Insert and remove Etonogestrel/Ethinyl Estradiol Vaginal Ring on the same day of the week and at the same time:
- For example, if you insert your Etonogestrel/Ethinyl Estradiol Vaginal Ring on a Monday at 8:00 am, you should remove it on the Monday 3 weeks later at 8:00 am.
 - After your 1-week (7 days) break, you should insert a new Etonogestrel/Ethinyl Estradiol Vaginal Ring on the next Monday at 8:00 am.
- While using Etonogestrel/Ethinyl Estradiol Vaginal Ring, you should not use certain female barrier contraceptive methods such as a vaginal diaphragm, cervical cap or female condom as your back-up method of birth control because Etonogestrel/Ethinyl Estradiol Vaginal Ring may interfere with the correct placement and position of a diaphragm, cervical cap or female condom.
 - Ring breakage has occurred when also using a vaginal product such as a lubricant or treatment for infection (see "What should I do if my Etonogestrel/Ethinyl Estradiol Vaginal Ring comes out of my vagina?"). Use of spermicides or vaginal yeast products will not make Etonogestrel/Ethinyl Estradiol Vaginal Ring less effective at preventing pregnancy.
 - Use of tampons will not make Etonogestrel/Ethinyl Estradiol Vaginal Ring less effective or stop Etonogestrel/Ethinyl Estradiol Vaginal Ring from working.
 - If Etonogestrel/Ethinyl Estradiol Vaginal Ring has been left inside your vagina for more than 4 weeks (28 days), you may not be protected from pregnancy and you should see your healthcare provider to be sure you are not pregnant. Until you know the results of your pregnancy test, you should use an extra method of birth control,

such as male condoms with spermicide, until the new Etonogestrel/Ethinyl Estradiol Vaginal Ring has been in place for 7 days in a row.

- Do not use more than 1 Etonogestrel/Ethinyl Estradiol Vaginal Ring at a time. Too much hormonal birth control medicine in your body may cause nausea, vomiting, or vaginal bleeding.

Your healthcare provider should examine you at least 1 time a year to see if you have any signs of side effects from using Etonogestrel/Ethinyl Estradiol Vaginal Ring.

What are the possible side effects of using Etonogestrel/Ethinyl Estradiol Vaginal Ring?

See "What is the most important information I should know about Etonogestrel/Ethinyl Estradiol Vaginal Ring?"

Etonogestrel/Ethinyl Estradiol Vaginal Ring may cause serious side effects, including:

blood clots. Like pregnancy, combination hormonal birth control methods increase the risk of serious blood clots (see following graph), especially in women who have other risk factors, such as smoking, obesity, or age greater than 35. This increased risk is highest when you first start using a combination hormonal birth control method or when you restart the same or different combination hormonal birth control method after not using it for a month or more. Talk with your healthcare provider about your risk of getting a blood clot before using Etonogestrel/Ethinyl Estradiol Vaginal Ring or before deciding which type of birth control is right for you.

In some studies of women who used Etonogestrel/Ethinyl Estradiol Vaginal Ring, the risk of getting a blood clot was similar to the risk in women who used combination birth control pills.

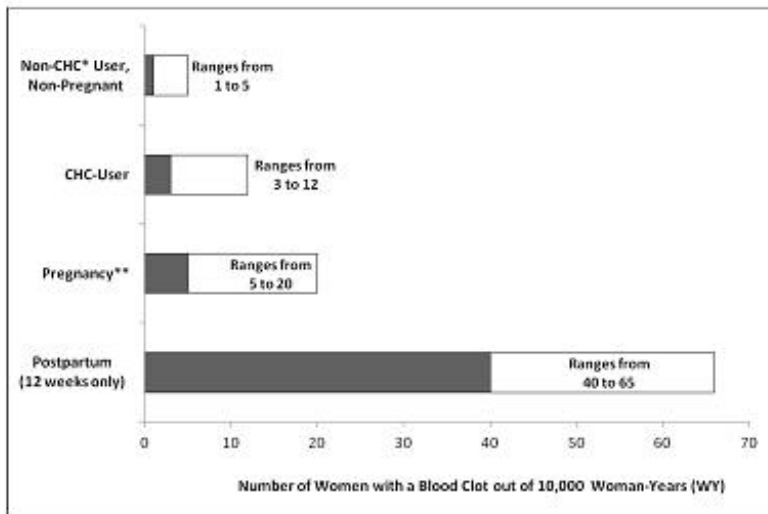
Other studies have reported that the risk of blood clots was higher for women who use combination birth control pills containing desogestrel (a progestin similar to the progestin in Etonogestrel/Ethinyl Estradiol Vaginal Ring) than for women who use combination birth control pills that do not contain desogestrel.

It is possible to die or be permanently disabled from a problem caused by a blood clot, such as heart attack or stroke. Some examples of serious blood clots are blood clots in the:

- legs (deep vein thrombosis)
- lungs (pulmonary embolus)
- eyes (loss of eyesight)
- heart (heart attack)
- brain (stroke)

To put the risk of developing a blood clot into perspective: If 10,000 women who are not pregnant and do not use hormonal birth control are followed for one year, between 1 and 5 of these women will develop a blood clot. The figure below shows the likelihood of developing a serious blood clot for women who are not pregnant and do not use hormonal birth control, for women who use hormonal birth control, for pregnant women, and for women in the first 12 weeks after delivering a baby.

Likelihood of Developing a Serious Blood Clot (Venous Thromboembolism [VTE])



*CHC=combination hormonal contraception

**Pregnancy data based on actual duration of pregnancy in the reference studies. Based on a model assumption that pregnancy duration is nine months, the rate is 7 to 27 per 10,000 WY.

Call your healthcare provider right away if you have:

- leg pain that does not go away
- sudden shortness of breath
- sudden blindness, partial or complete
- severe pain or pressure in your chest
- sudden, severe headache unlike your usual headaches
- weakness or numbness in an arm or leg, or trouble speaking
- yellowing of the skin or eyeballs

Other serious risks include:

- Toxic Shock Syndrome (TSS). Some of the symptoms are much the same as the flu, but they can become serious very quickly. Call your healthcare provider or get emergency treatment right away if you have the following symptoms:
 - sudden high fever
 - vomiting
 - diarrhea
 - a sunburn-like rash
 - muscle aches
 - dizziness
 - fainting or feeling faint when standing up
- allergic reaction, including hives, swelling of the face, lips, tongue, and/or throat causing difficulty in breathing or swallowing (anaphylaxis and/or angioedema)
- liver problems, including liver tumors
- high blood pressure
- gallbladder problems
- accidental insertion into bladder
- symptoms of a problem called angioedema if you already have a family history of angioedema

The most common side effects of Etonogestrel/Ethinyl Estradiol Vaginal Ring are:

- tissue irritation inside your vagina or on your cervix
- headache (including migraine)
- mood changes (including depression, especially if you had depression in the past). Call your healthcare provider immediately if you have any thoughts of harming yourself.
- Etonogestrel/Ethinyl Estradiol Vaginal Ring problems, including the ring slipping out or causing discomfort
- nausea and vomiting
- vaginal discharge
- weight gain
- vaginal discomfort
- breast pain, discomfort, or tenderness
- painful menstrual periods
- abdominal pain
- acne
- less sexual desire

Some women have spotting or light bleeding during Etonogestrel/Ethinyl Estradiol Vaginal Ring use. If these symptoms occur, do not stop using Etonogestrel/Ethinyl Estradiol Vaginal Ring. The problem will usually go away. If it doesn't go away, check with your healthcare provider.

Other side effects seen with Etonogestrel/Ethinyl Estradiol Vaginal Ring include breast discharge; vaginal injury (including pain, discomfort, and bleeding) associated with broken rings; and penis discomfort of the partner (such as irritation, rash, itching).

Less common side effects seen with combination hormonal birth control include:

- Blotchy darkening of your skin, especially on your face
- High blood sugar, especially in women who already have diabetes
- High fat (cholesterol, triglycerides) levels in the blood

There have been reports of the ring becoming stuck to the vaginal tissue and having to be removed by a healthcare provider. Call your healthcare provider if you are unable to remove your Etonogestrel/Ethinyl Estradiol Vaginal Ring.

Tell your healthcare provider about any side effect that bothers you or that does not go away. These are not all the possible side effects of Etonogestrel/Ethinyl Estradiol Vaginal Ring. For more information, ask your healthcare provider or pharmacist. Call your healthcare provider for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store Etonogestrel/Ethinyl Estradiol Vaginal Ring and throw away used Etonogestrel/Ethinyl Estradiol Vaginal Rings?

- Store Etonogestrel/Ethinyl Estradiol Vaginal Ring at room temperature between 68°F to 77°F (20°C to 25°C).
- Store Etonogestrel/Ethinyl Estradiol Vaginal Ring at room temperature for up to 4 months after you receive it. Throw Etonogestrel/Ethinyl Estradiol Vaginal Ring away if the expiration date on the label has passed.
- Do not store Etonogestrel/Ethinyl Estradiol Vaginal Ring above 86°F (30°C).
- Avoid direct sunlight.

- Place the used Etonogestrel/Ethinyl Estradiol Vaginal Ring in the re-closable foil pouch and properly throw it away in your household trash out of the reach of children and pets. Do not flush your used Etonogestrel/Ethinyl Estradiol Vaginal Ring down the toilet.

Keep Etonogestrel/Ethinyl Estradiol Vaginal Ring and all medicines out of the reach of children.

General information about the safe and effective use of Etonogestrel/Ethinyl Estradiol Vaginal Ring

Medicines are sometimes prescribed for purposes other than those listed in the Patient Information. Do not use Etonogestrel/Ethinyl Estradiol Vaginal Ring for a condition for which it was not prescribed. Do not give Etonogestrel/Ethinyl Estradiol Vaginal Ring to other people. It may harm them.

This leaflet summarizes the most important information about Etonogestrel/Ethinyl Estradiol Vaginal Ring. If you would like more information, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about Etonogestrel/Ethinyl Estradiol Vaginal Ring that is written for health professionals.

For more information on Etonogestrel/Ethinyl Estradiol Vaginal Ring call 1-844-674-3200.

What are the ingredients in Etonogestrel/Ethinyl Estradiol Vaginal Ring?

Active ingredients: etonogestrel and ethinyl estradiol

Inactive ingredients: ethylene vinylacetate copolymers (28% and 9% vinylacetate) and magnesium stearate.

Etonogestrel/Ethinyl Estradiol Vaginal Ring is not made with natural rubber latex.

Does hormonal birth control cause cancer?

It is not known if hormonal birth control causes breast cancer. Some studies, but not all, suggest that there could be a slight increase in the risk of breast cancer among current users with longer duration of use.

If you have breast cancer now, or have had it in the past, do not use hormonal birth control because some breast cancers are sensitive to hormones.

Women who use hormonal birth control methods may have a slightly higher chance of getting cervical cancer. However, this may be due to other reasons such as having more sexual partners.

What should I know about my period when using Etonogestrel/Ethinyl Estradiol Vaginal Ring?

When you use Etonogestrel/Ethinyl Estradiol Vaginal Ring you may have bleeding and spotting between periods, called unplanned bleeding. Unplanned bleeding may vary from slight staining between menstrual periods to breakthrough bleeding, which is a flow much like a regular period. Unplanned bleeding occurs most often during the first few months of Etonogestrel/Ethinyl Estradiol Vaginal Ring use, but may also occur after you have been using Etonogestrel/Ethinyl Estradiol Vaginal Ring for some time. Such bleeding may be temporary and usually does not indicate any serious problems. It is important to continue using the ring on schedule. If the unplanned bleeding or spotting is heavy or lasts for more than a few days, you should discuss this with your healthcare provider.

What if I miss my regular scheduled period when using Etonogestrel/Ethinyl Estradiol Vaginal Ring?

Some women miss periods on hormonal birth control, even when they are not pregnant. Consider the possibility that you may be pregnant if:

1. you miss a period and Etonogestrel/Ethinyl Estradiol Vaginal Ring was out of the vagina for more than 3 hours during the 3 weeks (21 days) of ring use
2. you miss a period and waited longer than 1 week to insert a new ring
3. you have followed the instructions and you miss 2 periods in a row
4. you have left Etonogestrel/Ethinyl Estradiol Vaginal Ring in place for longer than 4 weeks (28 days)

What if I want to become pregnant?

You may stop using Etonogestrel/Ethinyl Estradiol Vaginal Ring whenever you wish. Consider a visit with your healthcare provider for a pre-pregnancy checkup before you stop using Etonogestrel/Ethinyl Estradiol Vaginal Ring.

Instructions for Use Etonogestrel/Ethinyl Estradiol Vaginal Ring

Read these Instructions for Use before you start using Etonogestrel/Ethinyl Estradiol Vaginal Ring 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 treatment.

How should I start using Etonogestrel/Ethinyl Estradiol Vaginal Ring?

If you are not currently using hormonal birth control, you have 2 ways to start using Etonogestrel/Ethinyl Estradiol Vaginal Ring. Choose the best way for you:

- **First Day Start:** Insert Etonogestrel/Ethinyl Estradiol Vaginal Ring on the first day of your menstrual period. You will not need to use another birth control method since you are using Etonogestrel/Ethinyl Estradiol Vaginal Ring on the first day of your menstrual period.
- **Day 2 to Day 5 Cycle Start:** You may choose to start Etonogestrel/Ethinyl Estradiol Vaginal Ring on days 2 to 5 of your menstrual period. Make sure you also use an extra method of birth control (barrier method), such as male condoms with spermicide for the first 7 days of Etonogestrel/Ethinyl Estradiol Vaginal Ring use in the first cycle.

If you are changing from a birth control pill or patch to Etonogestrel/Ethinyl Estradiol Vaginal Ring:

If you have been using your birth control method correctly and are certain that you are not pregnant, you can change to Etonogestrel/Ethinyl Estradiol Vaginal Ring any day. Do not start Etonogestrel/Ethinyl Estradiol Vaginal Ring any later than the day you would start your next birth control pill or apply your patch.

If you are changing from a progestin-only birth control method, such as a minipill, implant or injection or from an intrauterine system (IUS):

- You may switch from a minipill on any day. Start using Etonogestrel/Ethinyl Estradiol Vaginal Ring on the day that you would have taken your next minipill.
- You should switch from an implant or the IUS and start using Etonogestrel/Ethinyl Estradiol Vaginal Ring on the day that you remove the implant or IUS.
- You should switch from an injectable and start using Etonogestrel/Ethinyl Estradiol Vaginal Ring on the day when your next injection would be due.

If you are changing from a minipill, implant or injection or from an intrauterine system (IUS), you should use an extra method of birth control, such as a male condom with spermicide during the first 7 days of using Etonogestrel/Ethinyl Estradiol Vaginal Ring.

If you start using Etonogestrel/Ethinyl Estradiol Vaginal Ring after an abortion or miscarriage:

- **Following a first trimester abortion or miscarriage:** You may start Etonogestrel/Ethinyl Estradiol Vaginal Ring within 5 days following a first trimester abortion or miscarriage (the first 12 weeks of pregnancy). You do not need to use an additional birth control method.
- If you do not start Etonogestrel/Ethinyl Estradiol Vaginal Ring within 5 days after a first trimester abortion or miscarriage, use a non-hormonal birth control method, such as male condoms and spermicide, while you wait for your period to start. Begin Etonogestrel/Ethinyl Estradiol Vaginal Ring at the time of your next menstrual period. Count the first day of your menstrual period as "Day 1" and start Etonogestrel/Ethinyl Estradiol Vaginal Ring one of the following 2 ways below.
 - **First Day Start:** Insert Etonogestrel/Ethinyl Estradiol Vaginal Ring on the first day of your menstrual period. You will not need to use another birth control method since you are using Etonogestrel/Ethinyl Estradiol Vaginal Ring on the first day of your menstrual period.
 - **Day 2 to Day 5 Cycle Start:** You may choose to start Etonogestrel/Ethinyl Estradiol Vaginal Ring on Days 2 to 5 of your menstrual period. Make sure you also use an extra method of birth control (barrier method), such as male condoms with spermicide for the first 7 days of Etonogestrel/Ethinyl Estradiol Vaginal Ring use in the first cycle.
- **Following a second trimester abortion or miscarriage:** You may start using Etonogestrel/Ethinyl Estradiol Vaginal Ring no sooner than 4 weeks (28 days) after a second trimester abortion (**after** the first 12 weeks of pregnancy).

If you are starting Etonogestrel/Ethinyl Estradiol Vaginal Ring after childbirth:

- You may start using Etonogestrel/Ethinyl Estradiol Vaginal Ring no sooner than 4 weeks (28 days) after having a baby if you are not breastfeeding.
- If you have not gotten your menstrual period after childbirth, you should talk to your healthcare provider. You may need a pregnancy test to make sure you are not pregnant before you start using Etonogestrel/Ethinyl Estradiol Vaginal Ring.
- Use another birth control method such as male condoms with spermicide for the first 7 days in addition to Etonogestrel/Ethinyl Estradiol Vaginal Ring.

If you are breastfeeding you should not use Etonogestrel/Ethinyl Estradiol Vaginal Ring. Use other birth control methods until you are no longer breastfeeding.

Step 1. Choose a position for insertion of Etonogestrel/Ethinyl Estradiol Vaginal Ring.

- Choose the position that is comfortable for you. For example, lying down, squatting,

or standing with 1 leg up (**See Figures A, B, and C**).

Positions for Etonogestrel/Ethinyl Estradiol Vaginal Ring insertion



Figure A



Figure B



Figure C

Step 2. Open the pouch to remove your Etonogestrel/Ethinyl Estradiol Vaginal Ring.

- Each Etonogestrel/Ethinyl Estradiol Vaginal Ring comes in a re-sealable foil pouch.
- Wash and dry your hands before removing Etonogestrel/Ethinyl Estradiol Vaginal Ring from the foil pouch.
- Open the foil pouch at either notch near the top.
- Keep the foil pouch so you can place your used Etonogestrel/Ethinyl Estradiol Vaginal Ring in it before you throw it away in your household trash.

Step 3. Prepare Etonogestrel/Ethinyl Estradiol Vaginal Ring for insertion.

- Hold Etonogestrel/Ethinyl Estradiol Vaginal Ring between your thumb and index finger and press the sides of the ring together (**See Figures D and E**).

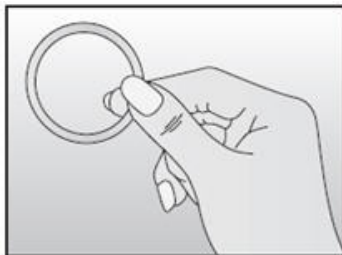


Figure D

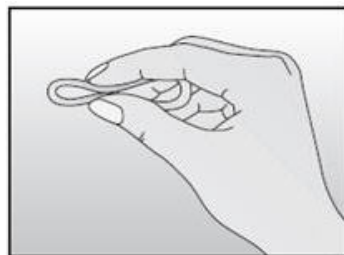


Figure E

Step 4. Insert Etonogestrel/Ethinyl Estradiol Vaginal Ring into your vagina.

- Insert the folded Etonogestrel/Ethinyl Estradiol Vaginal Ring into your vagina and gently push it further up into your vagina using your index finger (**See Figures F and G**).
- When you insert Etonogestrel/Ethinyl Estradiol Vaginal Ring it may be in different positions in your vagina, but Etonogestrel/Ethinyl Estradiol Vaginal Ring does not have to be in an exact position for it to work (**See Figures H and I**).

- Etonogestrel/Ethinyl Estradiol Vaginal Ring may move around slightly within your vagina. This is normal. Although some women may be aware of Etonogestrel/Ethinyl Estradiol Vaginal Ring in the vagina, most women do not feel it when it is in place.

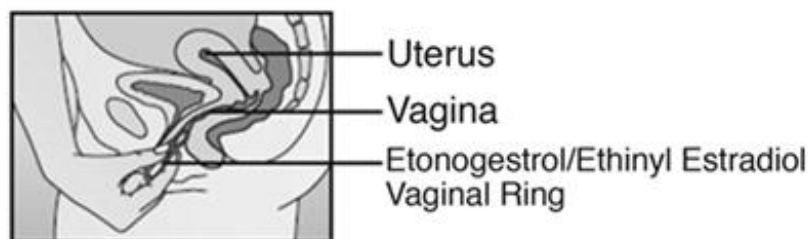


Figure F



Figure G



Figure H



Figure I

Inserting Etonogestrel/Ethinyl Estradiol Vaginal Ring (**Figure F, Figure G**) and positioning Etonogestrel/Ethinyl Estradiol Vaginal Ring (**Figure H, Figure I**)

Note:

- If the Etonogestrel/Ethinyl Estradiol Vaginal Ring feels uncomfortable, you may not have pushed the ring into your vagina far enough. Use your finger to gently push the Etonogestrel/Ethinyl Estradiol Vaginal Ring as far as you can into your vagina. There is no danger of Etonogestrel/Ethinyl Estradiol Vaginal Ring being pushed too far up in the vagina or getting lost (**See Figure G**).
- Some women have accidentally inserted Etonogestrel/Ethinyl Estradiol Vaginal Ring into their bladder. If you have pain during or after insertion and you cannot find Etonogestrel/Ethinyl Estradiol Vaginal Ring in your vagina, call your healthcare provider right away.
- Regularly check that Etonogestrel/Ethinyl Estradiol Vaginal Ring is in your vagina (for example, before and after intercourse) to ensure you are protected from pregnancy.

Step 5. How do I remove Etonogestrel/Ethinyl Estradiol Vaginal Ring?

- Wash and dry your hands.
- Choose the position that is most comfortable for you (**See Figures A, B, and C**).
- Put your index finger into your vagina and hook it through the Etonogestrel/Ethinyl Estradiol Vaginal Ring. Gently pull downward and forward to remove the Etonogestrel/Ethinyl Estradiol Vaginal Ring and pull it out (**See Figure J**).



Figure J

Step 6. Throw away the used Etonogestrel/Ethinyl Estradiol Vaginal Ring.

- Place the used Etonogestrel/Ethinyl Estradiol Vaginal Ring in the re-sealable foil pouch and put it in a trash can out of the reach of children and pets.
- Do not throw Etonogestrel/Ethinyl Estradiol Vaginal Ring in the toilet.

What else should I know about using Etonogestrel/Ethinyl Estradiol Vaginal Ring?

What if I leave Etonogestrel/Ethinyl Estradiol Vaginal Ring in too long?

- If you leave Etonogestrel/Ethinyl Estradiol Vaginal Ring in your vagina for up to 4 weeks (28 days) you will still be getting pregnancy protection. Remove your old Etonogestrel/Ethinyl Estradiol Vaginal Ring for 1 week (7 days) and insert a new Etonogestrel/Ethinyl Estradiol Vaginal Ring 1 week (7 days) later **(See Steps 1 through 4)**.
- If you leave Etonogestrel/Ethinyl Estradiol Vaginal Ring in your vagina longer than 4 weeks (28 days), remove the ring and check to make sure you are not pregnant. If you are not pregnant, insert a new Etonogestrel/Ethinyl Estradiol Vaginal Ring **(See Steps 1 through 4)**. You must use another birth control method, such as male condoms with spermicide, until the new Etonogestrel/Ethinyl Estradiol Vaginal Ring has been used for 7 days in a row.

What should I do if my Etonogestrel/Ethinyl Estradiol Vaginal Ring comes out of my vagina?

Etonogestrel/Ethinyl Estradiol Vaginal Ring can slip or accidentally come out (expelled) of your vagina, for example, during sexual intercourse, bowel movements, use of tampons, or if it breaks.

- Etonogestrel/Ethinyl Estradiol Vaginal Ring may break causing the ring to lose its shape. If the ring stays in your vagina this should not lower Etonogestrel/Ethinyl Estradiol Vaginal Ring's effectiveness at preventing pregnancy.
 - If Etonogestrel/Ethinyl Estradiol Vaginal Ring breaks and slips out of your vagina, throw the broken ring in your household trash out of the reach of children and pets.
 - Insert a new Etonogestrel/Ethinyl Estradiol Vaginal Ring **(See Steps 1 through 4)**.
- You should pay attention when removing a tampon to be sure that your Etonogestrel/Ethinyl Estradiol Vaginal Ring is not accidentally pulled out.
 - Be sure to insert Etonogestrel/Ethinyl Estradiol Vaginal Ring before inserting a tampon.
 - If you accidentally pull out your Etonogestrel/Ethinyl Estradiol Vaginal Ring while using tampons, rinse your Etonogestrel/Ethinyl Estradiol Vaginal Ring in cool to lukewarm (not hot) water and insert it again right away.
- Etonogestrel/Ethinyl Estradiol Vaginal Ring can be pushed out of (expelled from) your vagina, for example, during sexual intercourse or during a bowel movement.
 - If the expelled ring has been out of your vagina for less than 3 hours, rinse the expelled Etonogestrel/Ethinyl Estradiol Vaginal Ring in cool to lukewarm (not hot) water and insert it again right away.
 - If the expelled Etonogestrel/Ethinyl Estradiol Vaginal Ring has been out of your vagina for more than 3 continuous hours:

- **During Weeks 1 and 2**, you may not be protected from pregnancy. Reinsert the ring as soon as you remember (**See Steps 1 through 4**). Use another birth control method, such as male condoms with spermicide, until the ring has been in place for 7 days in a row.
- **During Week 3**, do not reinsert the Etonogestrel/Ethinyl Estradiol Vaginal Ring that has been out of your vagina; but throw it away in your household trash away from children and pets. Use another birth control method, such as male condoms with spermicide, until the **new Etonogestrel/Ethinyl Estradiol Vaginal Ring has been used for 7 days in a row, following one of the two options below:**
 - **Option 1.** Insert a new ring right away to start your next 21 Day Etonogestrel/Ethinyl Estradiol Vaginal Ring use cycle. You may not have your regular period, but you may have spotting or vaginal bleeding.
 - **Option 2.** Insert a new ring no later than 7 days from the time the previous ring was removed or expelled. During this time, you may have your period.

Note: You should only choose to do option 2 if you used Etonogestrel/Ethinyl Estradiol Vaginal Ring for 7 days in a row, prior to the day that your previous Etonogestrel/Ethinyl Estradiol Vaginal Ring was accidentally removed or expelled.

- If Etonogestrel/Ethinyl Estradiol Vaginal Ring was out of the vagina for an unknown amount of time, you may not be protected from pregnancy. Perform a pregnancy test prior to inserting a new ring and consult your healthcare provider.

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

Manufactured for: **Prasco Laboratories**, Mason, OH 45040, USA

Manufactured by: N.V. Organon, Oss, The Netherlands, a subsidiary of Organon & Co., Jersey City, NJ 07302, USA

Revised: 1/2023

usppi-gog8342a-rng-2301r003

PRINCIPAL DISPLAY PANEL - 3 Ring Pouch Box

For the Dispenser: Store refrigerated 2-8°C (36- 46°F).

NDC 66993-605-36

PRASCO

Etonogestrel/Ethinyl Estradiol Vaginal Ring
delivers 0.120 mg/0.015 mg per day

For Vaginal Use

Keep out of the reach of children.

This product is intended to prevent pregnancy. It does not protect against

HIV infection (AIDS) and other sexually transmitted diseases.

Rx only

Contains 3 Rings

Encoding area: Space reserved
for 2D Serialization Barcode,
Serial Number, Expiry and Lot

Tamper Evident Seal
placed here



GTIN: 00366993605364

SN
EXP
LOT

For the Dispenser: Store refrigerated 2-8°C (36- 46°F).

NDC 66993-605-36



Etonogestrel/Ethinyl Estradiol Vaginal Ring

delivers **0.120 mg/0.015 mg** per day

For Vaginal Use

Keep out of the reach of children.

This product is intended to prevent pregnancy. It does not protect against HIV infection (AIDS) and other sexually transmitted diseases.

Rx only

Contains 3 Rings

70077914-00-1

Tamper Evident Seal
placed here

Tamper Evident Seal
placed here

For Vaginal Use

Do not use if seal
on pouch is broken.

Rx only

Etonogestrel/Ethinyl Estradiol Vaginal Ring

delivers **0.120 mg/0.015 mg** per day

Contents: Each ring releases 0.120 mg/day of etonogestrel and 0.015 mg/day of ethinyl estradiol over a 3-week period of use.

Each ring contains 11.7 mg etonogestrel and 2.7 mg ethinyl estradiol as active ingredients and ethylene vinylacetate copolymer and magnesium stearate as excipients.

Dosage and Administration: Use as prescribed. See package insert.

Storage: Prior to dispensing to the patient, store refrigerated 2-8°C (36-46°F). After dispensing to the patient,

Etonogestrel/Ethinyl Estradiol Vaginal Ring can be stored for up to 4 months at 25°C (77°F); excursions permitted to 15-30°C (59-86°F) [see USP Controlled Room Temperature]. Avoid storing Etonogestrel/Ethinyl Estradiol Vaginal Ring in direct sunlight or at temperatures above 30°C (86°F).

For the Dispenser: When Etonogestrel/Ethinyl Estradiol Vaginal Ring is dispensed to the patient, place the expiration date on an adhesive label provided in the product carton. The expiration date should not exceed either 4 months from the date of dispensing or the preprinted expiration date, whichever comes first.

The adhesive (exp. date) label must be applied directly over the preexisting exp. date on each sachet pouch (and on the outer carton only when all 3 sachets are dispensed).

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Manufactured by: N.V. Organon, Oss, The Netherlands,
a subsidiary of Organon & Co.,
Jersey City, NJ 07302, USA
Product of The Netherlands

For product information call 866-525-0688.



Tamper Evident Seal
placed here

ETONOGESTREL/ETHINYL ESTRADIOL

etonogestrel and ethinyl estradiol insert, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:66993-605
Route of Administration	VAGINAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ETONOGESTREL (UNII: 304GTH6RNH) (ETONOGESTREL - UNII:304GTH6RNH)	ETONOGESTREL	0.12 mg in 1 d
ETHINYL ESTRADIOL (UNII: 423D2T571U) (ETHINYL ESTRADIOL - UNII:423D2T571U)	ETHINYL ESTRADIOL	0.015 mg in 1 d

Inactive Ingredients

Ingredient Name	Strength
ETHYLENE-VINYL ACETATE COPOLYMER (28% VINYL ACETATE) (UNII: 8ILA5X28VS)	
ETHYLENE-VINYL ACETATE COPOLYMER (9% VINYLACETATE) (UNII: 4OKC630HS6)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
	NDC 66993			

1	NDC:66993-605-36	3 in 1 BOX	06/01/2021	
1	NDC:66993-605-81	21 d in 1 POUCH; Type 4: Device Coated/Impregnated/Otherwise Combined with Drug		
Marketing Information				
Marketing Category		Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA AUTHORIZED GENERIC		NDA021187	06/01/2021	

Labeler - Prasco Laboratories (065969375)

Registrant - Organon LLC (117494753)

Revised: 1/2023

Prasco Laboratories