

LARCs: Long-acting Reversible Contraceptives

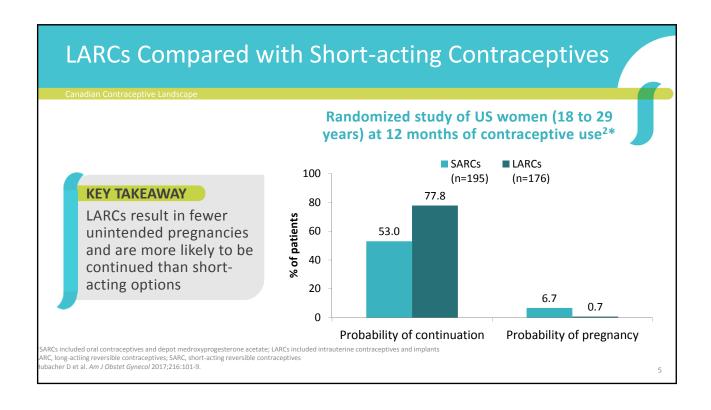
Canadian Contraceptive Landscape

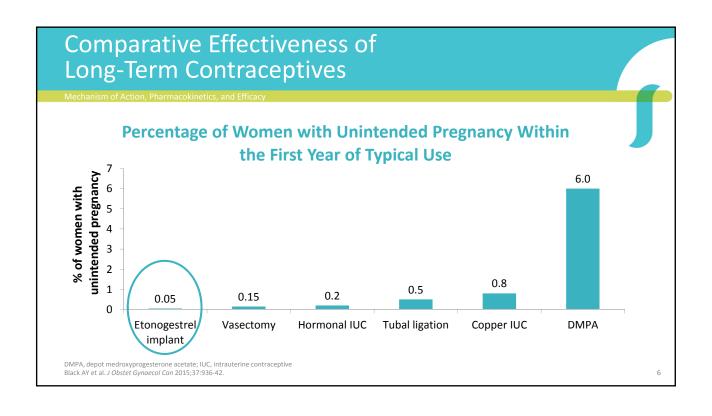
What are LARCs?

- Reversible contraceptives that require administration less than once per year¹
- Include subdermal hormonal implants and intrauterine contraceptives (copper or levonorgestrel IUCs)¹

IUC, intrauterine contraceptive; LARC, long-acting reversible contraceptives 1. Hauck B, Costescu D. J Obstet Gynaecol Can 2015; 37:606-16.

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Canadian Position Statements on LARCs

Canadian Contraceptive Landscap



Canadian Contraception Consensus

"LARCs are the most effective method of reversible contraception, have high continuation rates, and should be considered when presenting contraceptive options to any woman of reproductive age." 1



Contraceptive care for Canadian Youth

"This statement recommends using LARCs as first-line contraception for Canadian youth....[These methods] have the lowest failure rate and are first-tier options."²



LARCs, long-acting reversible contraceptives

Black A et al. J Obstet Gynaecol Can 2015;37:936-42; 2. Di Meglio G et al. Paediatr Child Health 2018;23:271-7

Etonogestrel Subdermal Implant: What Is It?

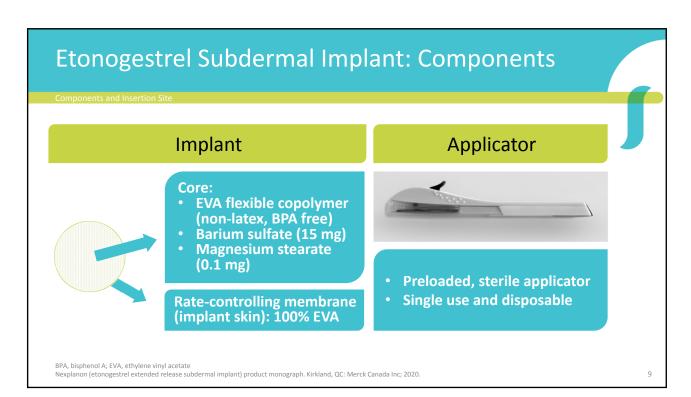
Mechanism of Action, Pharmacokinetics, and Efficacy

- Subdermal, single rod
 - 4 cm long, 2 mm wide
- Effective for up to 3 years
- Progestin-only implant preloaded in a sterile disposable applicator
 - Etonogestrel is the active metabolite of desogestrel, a progestin used in oral contraceptives
- Radiopaque
 - Can be localized by X-ray, computer tomography, ultrasound, or magnetic resonance imaging

Nexplanon (etonogestrel extended release subdermal implant) product monograph. Kirkland, QC: Merck Canada Inc; 2020; Rowlands S, Searle S. Open Access Journal of Contraception 2014;5:73-84.



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Pharmacokinetics Over Time After reaching peak levels, etonogestrel **Etonogestrel Serum Concentrations*** levels decrease gradually over time¹ Over Time After Implant Insertion¹ • After implant removal, etonogestrel 1800 Modified from levels drop rapidly Etonogestrel (pg/mL) 1600 product monograph 1400- Undetectable levels within 1 week¹ 1200-1000-• Pregnancies have occurred as soon 600as 7 to 14 days after removal¹ 400-200- Ovulation resumes within 2 to 4 weeks for most women² 12 15 18 21 3 6 9 12 15 18 21 24 27 30 33 36 Ovulation • Women should re-start contraception inhibition immediately after implant removal if (>90 pg/mL) they do not wish to become pregnant¹ Mean levels in pg/mL; bars show standard deviation 10 1. Nexplanon (etonogestrel extended release subdermal implant) product monograph. Kirkland, QC: Merck Canada Inc; 2020. 2. Palomba S et al. Gynecol Endocrinol 2012;28:710-21

Bleeding Patterns Overview

Key Counselling Topics: Bleeding, Dysmenorrhea, and Weight Gair

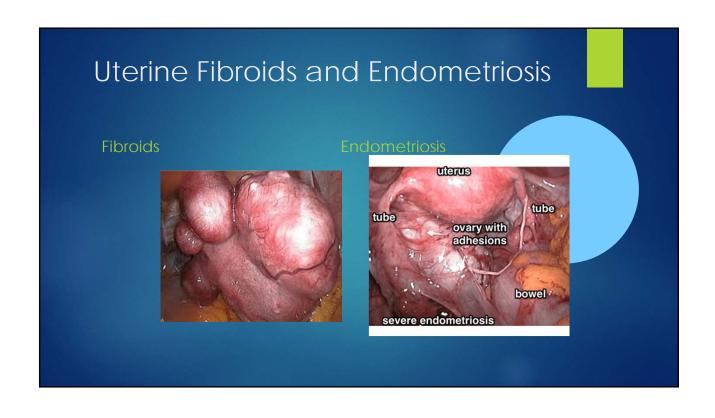
• Women using hormonal contraceptives may experience changes in bleeding

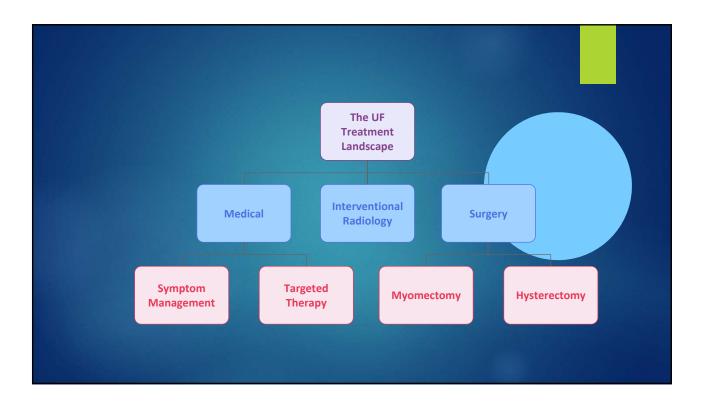
Etonogestrel subdermal implant bleeding patterns during the first 2 years of use*

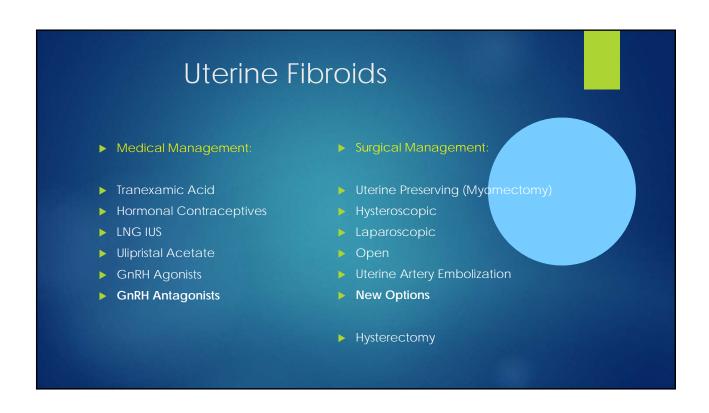
Bleeding pattern	Definition	% of 90-day intervals with this pattern
Amenorrhea	No bleeding or spotting	22.2%
Infrequent	<3 bleeding/spotting episodes in 90 days (excluding amenorrhea)	33.6%
Frequent	More than 5 bleeding/spotting episodes	6.7%
Prolonged	Any bleeding/spotting episode > 14 days	17.7%

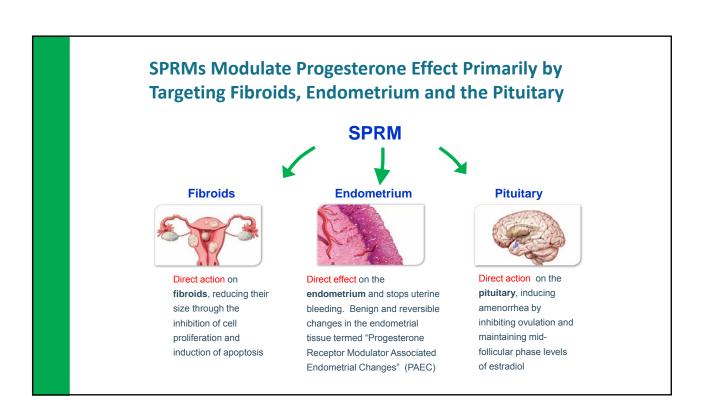
*Based on 3315 recording periods of 90 days duration in 780 women, excluding the first 90 days after implant insertion Nexplanon (etonogestrel extended release subdermal implant) product monograph. Kirkland, QC: Merck Canada Inc; 2020.

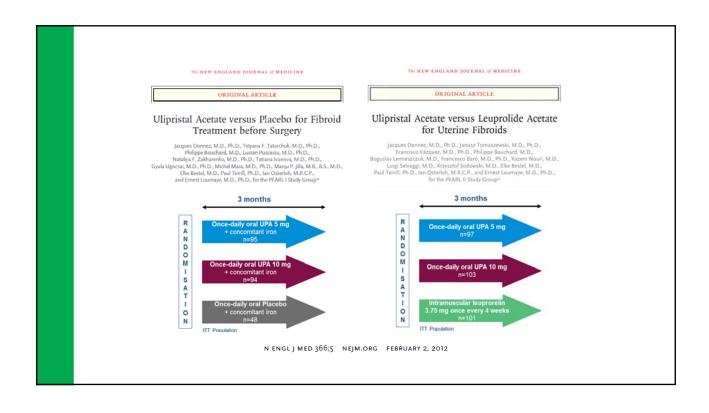
Over half of women have no bleeding or infrequent bleeding

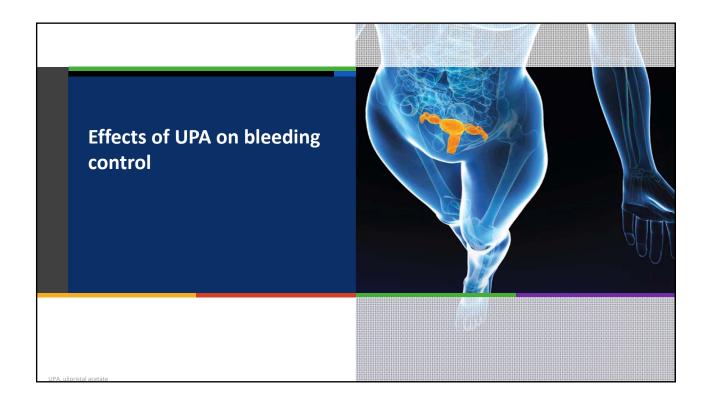


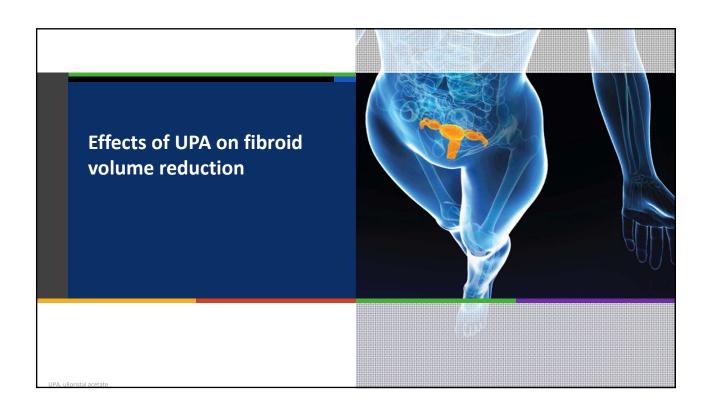


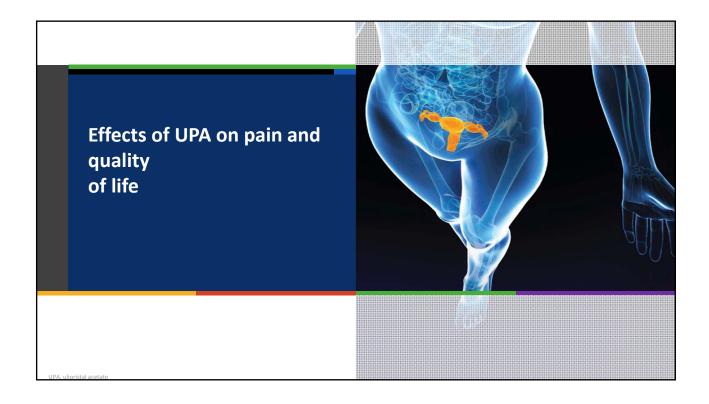














4 September 2020 EMA/455818/2020

PRAC recommends revoking marketing authorisation of ulipristal acetate for uterine fibroids

A review by EMA's safety committee (PRAC) has confirmed that 5-mg ulipristal acetate (Esmya and generic medicines) used for the treatment of symptoms of uterine fibroids can cause liver injury, including the need for liver transplantation. The PRAC has therefore recommended the revocation of the marketing authorisations of these medicines.

The PRAC considered all the available evidence in its review, including reported cases of serious liver injury. Patient and healthcare professional representatives, including experts in gynaecology, were also consulted. Since it was not possible to identify which patients were most at risk or measures that could reduce the risk, the PRAC concluded that the risks of these medicines outweighed their benefits and that they should not be marketed in the EU.

The use of 5-mg ulipristal acetate medicines for uterine fibroids had already been suspended as a precautionary measure while awaiting the outcome of this review.

Ulipristal acetate is also authorised as a single-dose medicine for emergency contraception. This recommendation does not affect the single-dose ulipristal acetate emergency contraceptive (ellaOne and other trade names) and there is no concern about liver injury with these medicines.

The PRAC recommendation will now be forwarded to EMA's human medicines committee (CHMP), which will adopt the Agency's opinion.

Important Safety Information FIBRISTAL (ulipristal acetate tablets, 5 mg) tary Withdrawal in Canada due to Risk of Drug-Induced Liver Injury



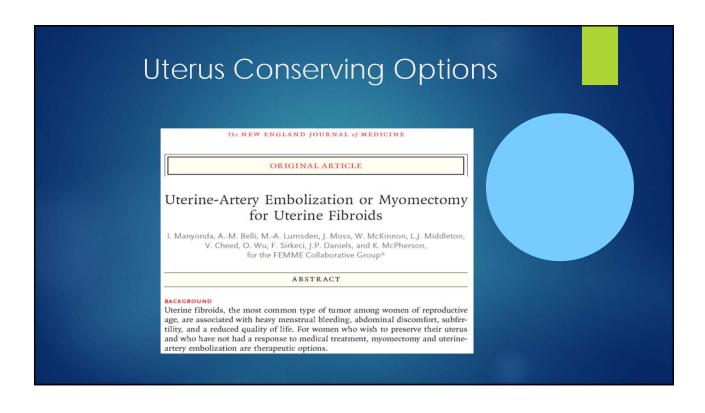
2020/09/30

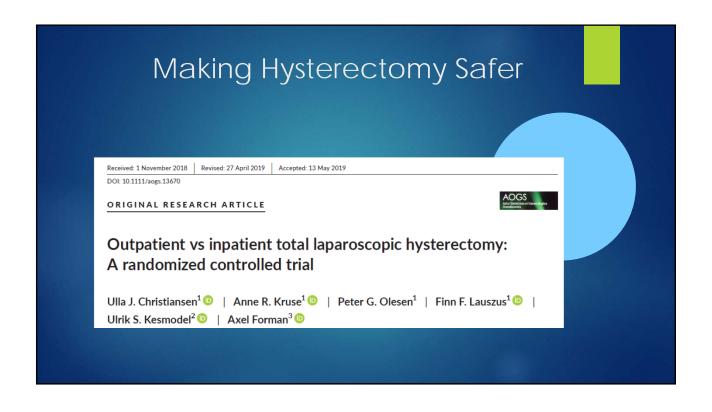
Audience

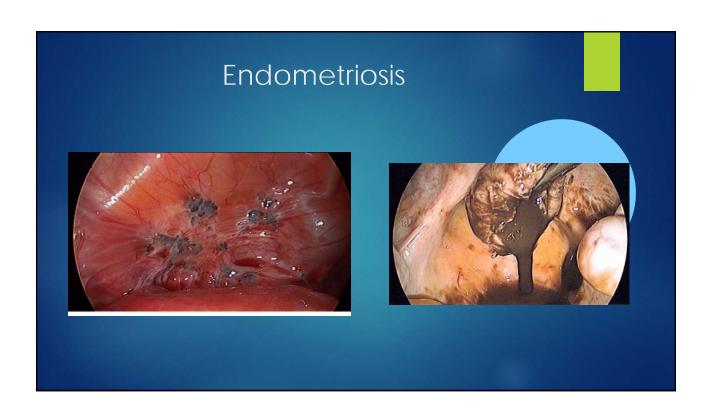
Healthcare professionals including obstetricians, gynecologists, primary care physicians with interest in women's health, hepatologists, emergency room physicians, and pharmacists.

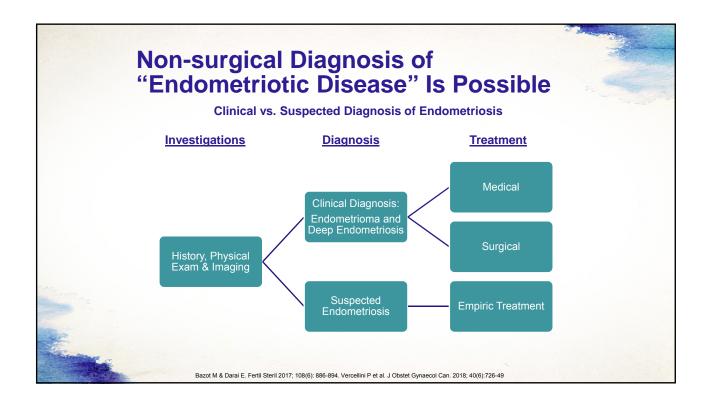
Key messages

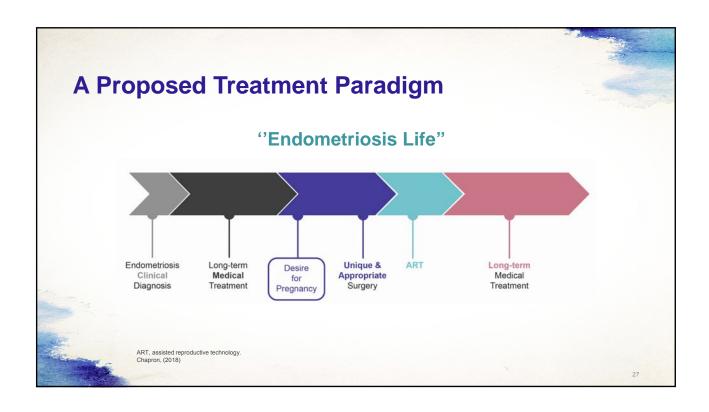
- Following rare international cases of severe liver injury requiring liver transplantation, the manufacturer of FIBRISTAL, Allergan Inc., is voluntarily withdrawing the product from the Canadian market. FIBRISTAL was approved in Canada to treat signs and symptoms of uterine fibroids in women of reproductive age.
- On September 24, 2020, Allergan Inc. initiated the recall of FIBRISTAL from the Canadian market to the retail pharmacy level.
- · Healthcare professionals are advised to:
 - o not prescribe or dispense FIBRISTAL
 - contact patients under their care who are currently being treated with FIBRISAL to stop treatment, and review alternative treatment options
 - advise patients who have been taking FIBRISTAL to immediately contact a healthcare professional if they experience signs and symptoms of liver injury such as nausea, vomiting, stomach ache, severe tiredness, yellowing of the eyes or skin, or dark urine, which could occur after stopping treatment
 - perform liver function monitoring within 2-4 weeks after treatment with FIBRISTAL has stopped and investigate further if liver function is abnormal

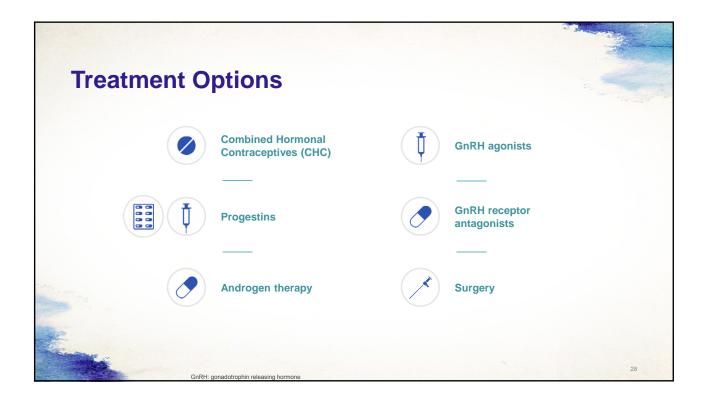


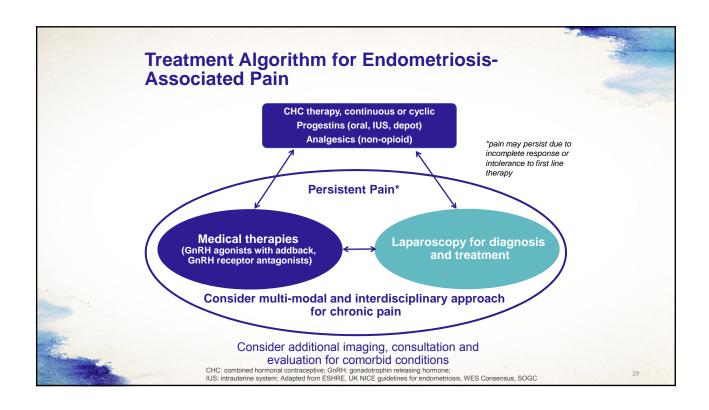


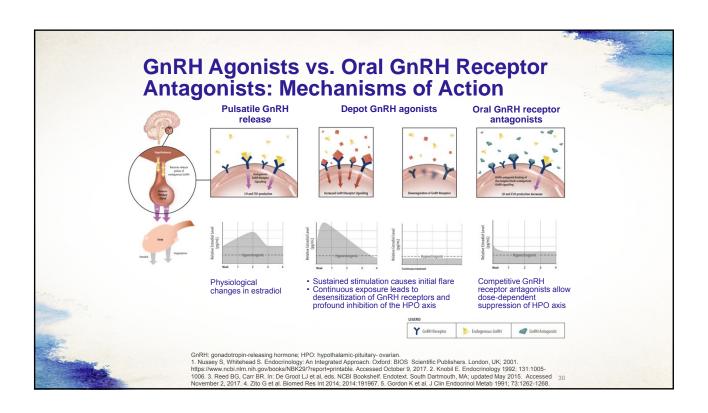


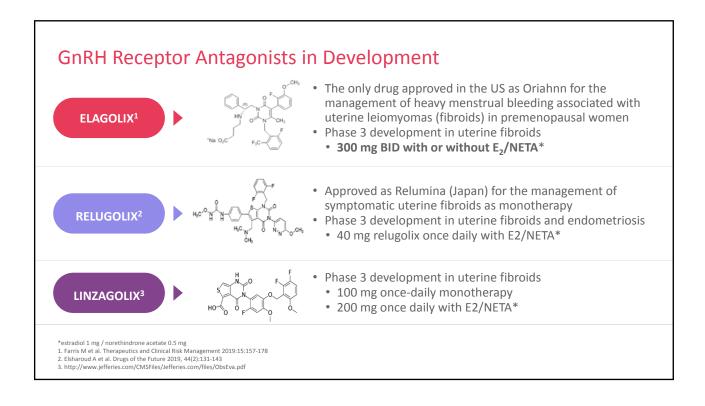


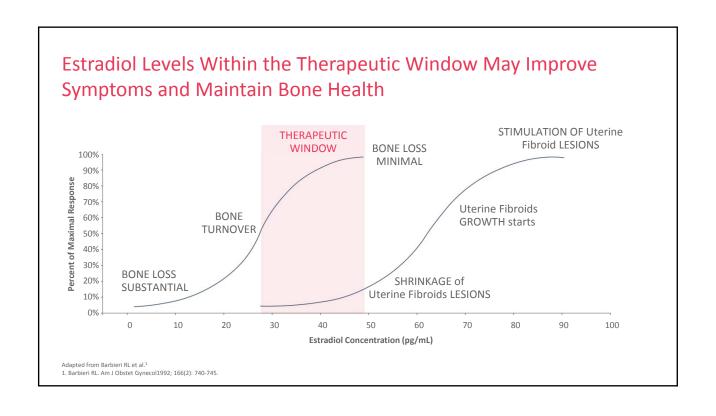


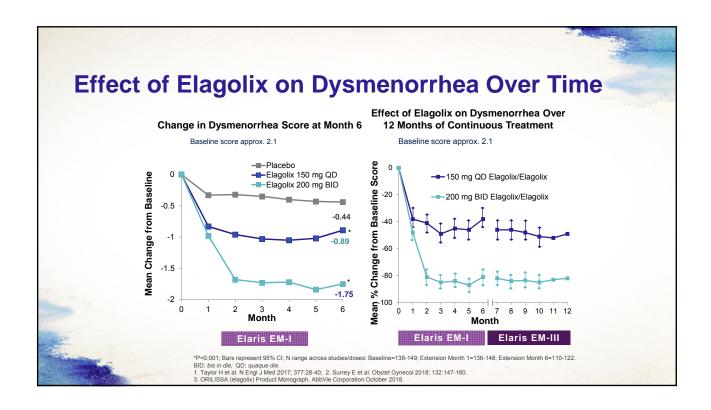


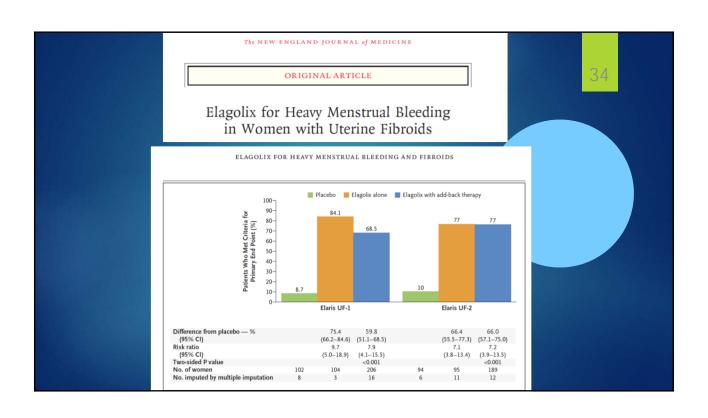


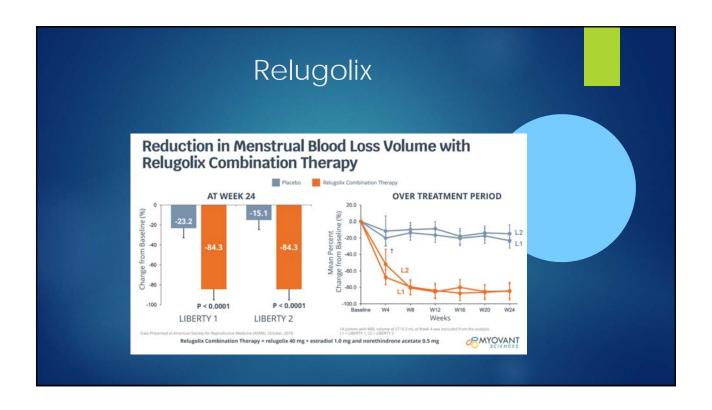












The Hallmark of Menopause

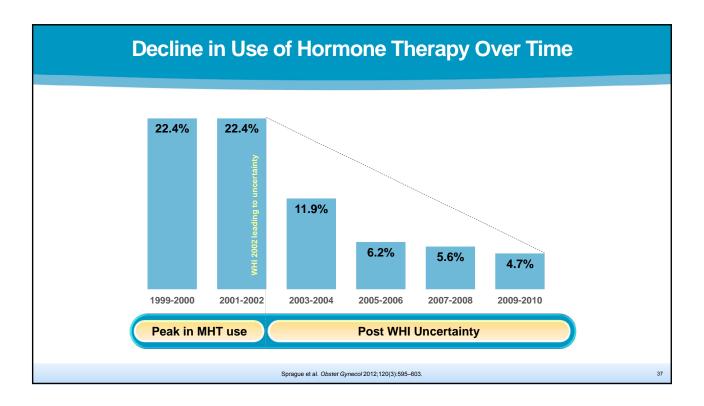
Vasomotor Symptoms (VMS):

- Hot flushes and night sweats affect 75% of peri/postmenopausal women
- VMS have been associated with:
 - Poorer health condition or poorer health status
 - Reduced work productivity
 - · Impaired quality of life



NAMS. Menopause Practice: A Clinician's Guide, 5th Ed., 2014.

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2017 NAMS Hormone Therapy Position Statement

- HT is the most effective treatment for VMS and GSM and has been shown to prevent bone loss and fracture
- Benefits are mostly likely to outweigh risks for symptomatic women who initiate HT when aged
 40 years or who are within 10 years of menopause onset

NAMS
THE NORTH AMERICAN
MENOPAUSE SOCIETY

GSM, genitourinary syndrome of menopause; HT, hormone therapy; VMS, vasomotor symptoms

NAMS Position Statement. Menopause 2017;24(7):728-53.

Type and timing of menopausal hormone therapy and breast @ 1 🕟 cancer risk: individual participant meta-analysis of the worldwide epidemiological evidence



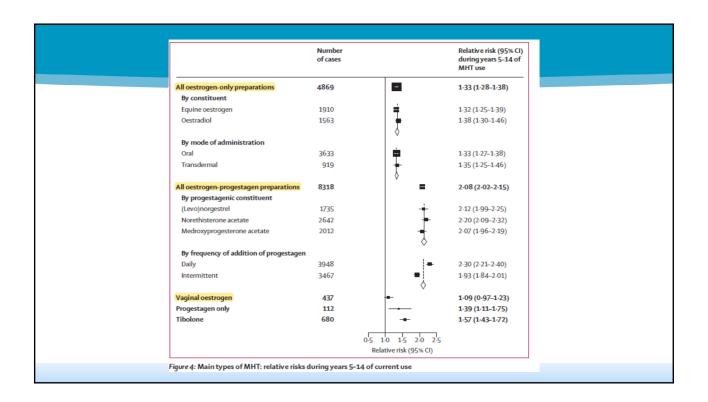
Collaborative Group on Hormonal Factors in Breast Cancer

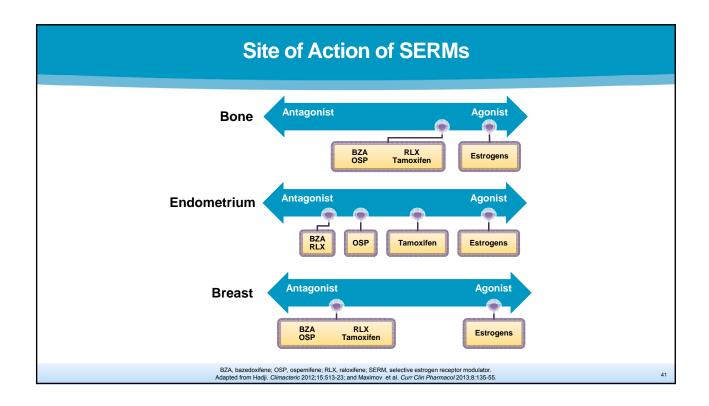
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Summary

Background Published findings on breast cancer risk associated with different types of menopausal hormone therapy (MHT) are inconsistent, with limited information on long-term effects. We bring together the epidemiological evidence, published and unpublished, on these associations, and review the relevant randomised evidence.

Methods Principal analyses used individual participant data from all eligible prospective studies that had sought information on the type and timing of MHT use; the main analyses are of individuals with complete information on this. Studies were identified by searching many formal and informal sources regularly from Jan 1, 1992, to Jan 1, 2018. Current users were included up to 5 years (mean 1.4 years) after last-reported MHT use. Logistic regression yielded adjusted risk ratios (RRs) comparing particular groups of MHT users versus never users.





TSEC The purposeful pairing of a SERM with one or more estrogens to achieve pharmacologic results based on their blended tissue-selective activity profile^{1,2} 1. Komm. Reprod Sci 2008;15(10):984–92; 2. Berodin et al. MAI Endocrinol 2009;23(1):74–85.

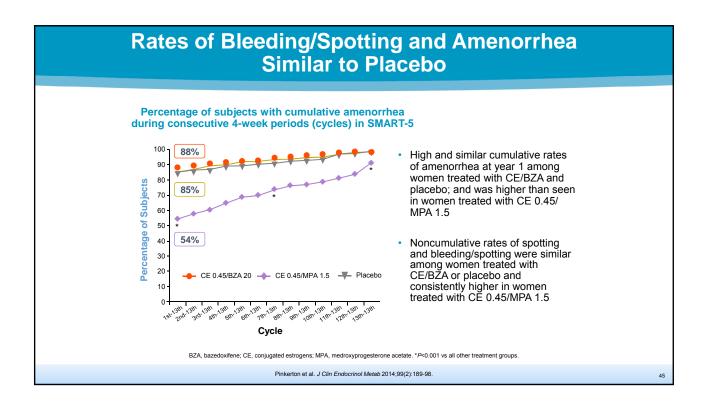
CE/BZA (DUAVIVE) Dosage & Administration

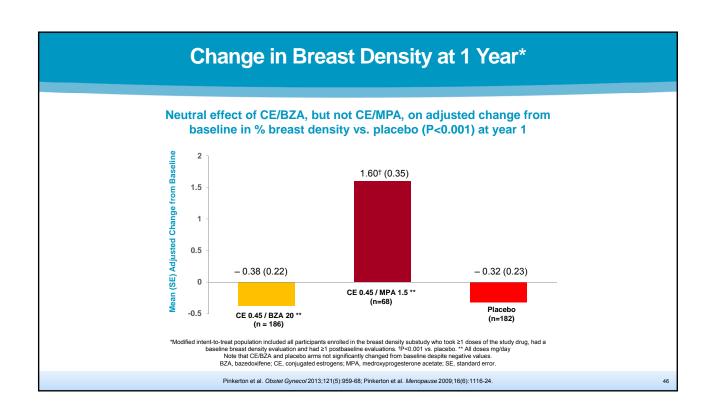
- One DUAVIVE tablet taken orally around the same time every day
- Tablet should be swallowed whole with fluid and not divided, crushed, chewed or dissolved in mouth
- · Taken at any time of day, with or without food
- · After opening foil pouch, product must be used within 45 days
- Duration of use should be consistent with treatment goals and benefits and risks for the individual

CE Conjugated Estrogens 0.45 mg Bazedoxifene 20 mg (Selective Estrogen Receptor Modulator)

DUAVIVE™ Product Monograph

Reduction in Mean Daily Number of CE/BZA **Moderate to Severe Hot Flushes** Results Significant decreases in the number of hot flushes vs. placebo from week 3 to 12 for CE/BZA (P=0.008); MITT population (LOCF). 12 10 -- Placebo -CE 0.45 mg/BZA 20 mg (n=122) of Hot Flushes **↓** 51% Placebo **▼ 74%** CE 0.45 mg / BZA 20 mg At week 12, CE 0.45 mg/BZA 20 mg significantly reduced hot flushes from baseline by 74% (10.3 to 2.8) compared to 51% (10.5 to 5.4) for placebo. BZA, bazedoxifene, CE, conjugated estrogens; LOCF, last observation carried forward; MITT, modified intent-to-treat. Pinkerton et al. Menopause 2009;16(6):1116-24





What Is cTibella (tibolone)?

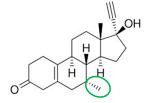
- Tibolone is a well-established treatment for climacteric complaints and prevention of osteoporosis in post-menopausal women in Europe
- Used in Europe since 1988
- Available in 90+ countries

^cTibella® is approved in Canada for short-term treatment of vasomotor symptoms due to estrogen deficiency in postmenopausal women, more than one year after menopause

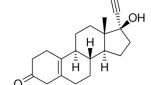
BioSvent



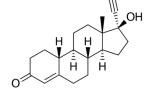
Molecular Structure



Tibolone



Norethynodrel



Norethisterone

The presence of the 7-methyl group means that the Δ^4 -isomer is not subject to 5-reduction and therefore it retains its progestogenic activity in the endometrium for considerably longer period

BioSvent.



