

## 1. NAME OF THE MEDICINAL PRODUCT

Yselty 100 mg

Yselty 200 mg

## 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

### Yselty 100 mg film-coated tablets

Each film-coated tablet contains 100 mg of linzagolix (as choline salt).

#### *Excipient(s) with known effect*

Each film-coated tablet contains 119.4 mg lactose.

### Yselty 200 mg film-coated tablets

Each film-coated tablet contains 200 mg of linzagolix (as choline salt).

#### *Excipient(s) with known effect*

Each film-coated tablet contains 238.8 mg lactose.

For the full list of excipients, see section 6.1.

## 3. PHARMACEUTICAL FORM

Film-coated tablet (tablet).

### Yselty 100 mg film-coated tablets

Round, pale yellow, film-coated tablets of 10 mm diameter, debossed “100” on one side and plain-faced on the other side.

### Yselty 200 mg film-coated tablets

Oblong, pale yellow, film-coated tablets of 19 mm by 9 mm, debossed “200” on one side and plain-faced on the other side.

## 4. CLINICAL PARTICULARS

### 4.1 Therapeutic indications

Yselty is indicated for the treatment of moderate to severe symptoms of uterine fibroids in adult women of reproductive age.

### 4.2 Posology and method of administration

#### Posology

Yselty treatment should be initiated and supervised by a physician experienced in the diagnosis and treatment of uterine fibroids.

Pregnancy must be ruled out prior to initiating treatment with Yselty.

Yselty should preferably be started in the first week of the menstrual cycle and should be taken continuously once daily.

The recommended dose of Yselty is:

- 100 mg or, if needed, 200 mg once daily with concomitant hormonal add-back therapy (ABT, estradiol 1 mg and norethisterone acetate 0.5 mg tablet once daily), see section 5.1.
- 100 mg once daily for women in whom ABT is not recommended or who prefer to avoid hormonal therapy (see section 5.1)
- 200 mg once daily for short-term use (< 6 months) in clinical situations when reduction of uterine and fibroid volume is desired (see section 5.1). Fibroid size may increase when the treatment is stopped. Due to the risk of bone mineral density (BMD) decrease with prolonged use, the 200 mg dose without concomitant ABT should not be prescribed for longer than 6 months.

In patients with risk factors for osteoporosis or bone loss, a dual X-ray absorptiometry (DXA) scan is recommended prior to starting Yselty treatment (see section 4.4).

Yselty can be taken without interruption. A DXA scan is recommended after 1 year of treatment for all women, and there is a need for continued BMD monitoring thereafter (see section 4.4).

Safety and efficacy for treatment beyond 52 weeks have not been established.

#### *Missed dose*

If a dose is missed, treatment must be taken as soon as possible and then continued the next day at the usual time.

#### *Special populations*

##### Hepatic impairment

No dose adjustment is necessary in women with mild or moderate hepatic impairment (Child-Pugh A or B). Yselty should be avoided in women with severe hepatic impairment (Child-Pugh C) (see sections 4.4 and 5.2).

##### Renal impairment

Prescribers are recommended to monitor for adverse reactions in women who have mild renal impairment (eGFR = 60-89 mL/min; see section 4.4 and 5.2) although no dose adjustment is required. Yselty should be avoided in women with moderate (eGFR = 30-59 mL/min), severe renal impairment (eGFR < 30 mL/min) or end-stage renal disease (see sections 4.4 and 5.2).

##### Paediatric population

There is no relevant use of Yselty in children aged under 18 years for the indication of treatment of moderate to severe symptoms of uterine fibroids.

#### Method of administration

Oral use.

Yselty can be taken with or without food (see section 5.2).

The 200 mg dose can be taken as either one 200 mg tablet or two times a 100 mg tablet.

### **4.3 Contraindications**

- Hypersensitivity to the active substance(s) or to any of the excipients listed in section 6.1
- Pregnancy or breast-feeding (see section 4.6)

- Known osteoporosis
- Genital bleeding of unknown aetiology
- Contraindications related to ABT should be respected if concomitant ABT is given

#### **4.4 Special warnings and precautions for use**

##### Medical examination/consultation

Prior to the initiation or reinstatement of Yselty, a complete medical history (including family history) must be taken. Blood pressure must be measured, and a physical examination must be performed guided by the contraindications (see section 4.3) and warnings for use (see section 4.4). During treatment, periodic check-ups must be carried out according to standard clinical practice.

Any hormonal contraception needs to be stopped prior to initiation of Yselty. Pregnancy must be ruled out prior to administering or re-initiation of Yselty

##### Bone mineral density

In some women treated with Yselty, who had normal bone mineral density (BMD) at start of treatment, BMD loss varying from > 3-8% was reported.

The benefits and risks of Yselty in patients with a history of a low trauma fracture or other risk factors for osteoporosis or bone loss (such as chronic alcohol and/or tobacco use, strong family history of osteoporosis, and low body weight), including those taking medications that may affect BMD (e.g., systemic corticosteroids, anticonvulsants), should be considered prior to initiating treatment. It is recommended to perform a DXA scan before commencing treatment with Yselty in these at-risk patients.

Further, a DXA scan is recommended after 1 year of treatment for all women to verify that the patient does not have an unwanted degree of BMD loss. Thereafter, depending on the prescribed dose of Yselty, BMD assessment is recommended annually (Yselty 100 mg) or at a frequency determined by the treating physician based on the woman's individual risk and previous BMD assessment (Yselty 100 mg with concomitant ABT and Yselty 200 mg with concomitant ABT).

If the risks of BMD decrease exceed the potential benefit of treatment with Yselty, treatment should be discontinued.

##### Hepatic impairment

Yselty should be avoided in women with severe hepatic impairment (Child-Pugh C). No dose adjustment is necessary in women with mild or moderate hepatic impairment (Child-Pugh A or B), see section 4.2 and 5.2.

##### Renal impairment

Yselty should be avoided in women with moderate (eGFR = 30–59 mL/min), severe renal impairment (eGFR < 30 mL/min) or end-stage renal disease (see section 4.2). Prescribers are recommended to monitor for adverse reactions in women who have mild renal impairment (eGFR = 60-89 mL/min; see section 5.2) although no dose adjustment is required (see section 4.2).

##### Cardiovascular disorders/QT prolongation

Linzagolix marginally increases the QT interval but showed no evidence of clinically relevant risk of QT prolongation or Torsade de Pointes (see section 5.1). Caution should be exercised in patients who have known cardiovascular disease, family history of QT prolongation or hypokalaemia, and in concomitant use with medicinal products known to prolong the QT interval. Caution should also be

exercised in patients with co-existing disorders leading to increased linzagolix plasma levels (see section 5.2).

### Contraception

Linzagolix with or without concomitant ABT has not been demonstrated to provide contraception. Women of childbearing potential at risk of pregnancy have to use effective non-hormonal contraception while on treatment with Yselty (see section 4.6).

### Change in menstrual bleeding pattern and reduced ability to recognise pregnancy

Women should be informed that treatment with Yselty usually leads to a significant reduction in menstrual blood loss and often leads to amenorrhoea, which may reduce the ability to recognise the occurrence of a pregnancy in a timely manner. Pregnancy testing should be performed if pregnancy is suspected, and treatment should be discontinued if pregnancy is confirmed (see section 4.3 and 4.6).

### Liver enzymes

Asymptomatic transient liver enzyme elevations have been reported (see section 4.8). Patients should be instructed to promptly seek medical attention in case of symptoms or signs that may reflect liver injury, such as jaundice. Treatment should be discontinued if jaundice develops. Acute liver test abnormalities may necessitate discontinuation of treatment with linzagolix until liver tests return to normal.

Women with abnormal hepatic function parameters ( $\geq 2$  upper limit of normal, ULN) were excluded from studies with linzagolix. Therefore, in women with known abnormal hepatic history, a baseline level of hepatic function tests should be obtained, and further regular monitoring should be performed. These patients should be treated with caution.

### Lipid levels

Increases in lipid levels were observed with linzagolix treatment (see section 5.1). These increases were generally of no clinical relevance. However, in women with pre-existing elevated lipid profiles monitoring of lipid levels is recommended.

### Mood disorders

Mood disorders including depression, alterations in mood, and emotional lability have been observed with treatment with GnRH antagonists including linzagolix (see section 4.8). Caution is to be applied in women with a history of depression and/or suicidal ideation. Patients with known depression or history of depression should be carefully monitored during treatment. Treatment should be discontinued if depression recurs to a serious degree.

### CYP2C8 substrates

Use of Yselty should be avoided in patients using CYP2C8 sensitive substrate medicinal products with a narrow therapeutic index (e.g., paclitaxel, sorafenib and repaglinide, see section 4.5). It is recommended to monitor for increases in adverse reactions associated with other CYP2C8 substrates when co-administered with Yselty.

### Warnings and precautions relevant to ABT

If concomitant ABT is prescribed, all warnings and precautions relevant to ABT should be considered.

## Lactose

Patients with rare hereditary problems of galactose intolerance, total lactase deficiency or glucose-galactose malabsorption should not take this medicinal product.

## Sodium

This medicinal product contains less than 1 mmol sodium (23 mg) per tablet, that is to say essentially 'sodium-free'.

### **4.5 Interaction with other medicinal products and other forms of interaction**

#### CYP2C8 substrate medicinal products

Linzagolix has been shown to increase mean repaglinide (a CYP2C8 sensitive substrate) exposure in healthy subjects by less than 2-fold. Due to the risk of increased plasma concentrations, concomitant administration of Yselty and medicinal products primarily cleared by CYP2C8 metabolism and with a narrow therapeutic index such as paclitaxel, sorafenib and repaglinide, should be avoided (see section 4.4). Prescribers are recommended to monitor for increases in adverse reactions associated with other CYP2C8 substrates when co-administered with Yselty.

### **4.6 Fertility, pregnancy and lactation**

#### Women of childbearing potential

Linzagolix with or without ABT has not been demonstrated to provide contraception. Women of childbearing potential at risk of pregnancy have to use effective non-hormonal contraception while on treatment with Yselty.

#### Pregnancy

There are no or limited amount of data from the use of linzagolix in pregnant women. Studies in animals have shown that exposure to linzagolix early in pregnancy may increase the risk of early pregnancy loss (see section 5.3). Based on the pharmacological effects, an adverse effect on pregnancy cannot be excluded.

Yselty is contraindicated during pregnancy (see section 4.3). Treatment should be discontinued if pregnancy is confirmed.

#### Breast-feeding

Available pharmacodynamic/toxicological data in animals have shown excretion of linzagolix in milk (for details see 5.3).

It is unknown whether linzagolix/metabolites are excreted in human milk. A risk to newborns/infants cannot be excluded.

Yselty is contraindicated during breast-feeding (see section 4.3).

### **4.7 Effects on ability to drive and use machines**

Yselty has no or negligible influence on the ability to drive and use machines.

## 4.8 Undesirable effects

### Summary of the safety profile

The most common adverse reactions reported in the pivotal phase 3 clinical studies were hot flushes and headaches, which were reported with higher frequency at higher doses and less frequently when ABT was taken concomitantly (referred to as “with ABT”). Hot flushes were reported in 5.2%, 9.6%, 10.1% and 31% of women treated with 100 mg with ABT, 200 mg with ABT, 100 mg and 200 mg, respectively. Similarly, headaches were reported more frequently at higher doses and decreased with ABT (1.4%, 2.4%, 4% and 6.2% for 100 mg with ABT, 200 mg with ABT, 100 mg and 200 mg, respectively). All other adverse reactions listed below were reported in fewer than 3% of subjects.

### Tabulated list of adverse reactions

Adverse reactions associated with linzagolix are reported based on pooled data from two pivotal phase 3 studies which included 828 patients with uterine fibroids who received linzagolix and 209 patients who received placebo up to 6 months. These are tabulated in Table 1 below.

Adverse reactions listed in Table 1 are classified by frequency category and MedDRA system organ class. Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness. Frequencies are defined as very common ( $\geq 1/10$ ), common ( $\geq 1/100$  to  $< 1/10$ ), uncommon ( $\geq 1/1,000$  to  $< 1/100$ ), rare ( $\geq 1/10,000$  to  $< 1/1,000$ ), very rare ( $< 1/10,000$ ) and not known (cannot be estimated from the available data).

**Table 1: Adverse drug reactions from pivotal clinical studies**

	<b>Linzagolix 100 mg</b>	<b>Linzagolix 100 mg with ABT</b>	<b>Linzagolix 200 mg</b>	<b>Linzagolix 200 mg with ABT</b>
<b>Psychiatric disorders</b>				
Common	Mood disorders <sup>a/*</sup>	Mood disorders <sup>a/*</sup> Libido decreased	Mood disorders <sup>a/*</sup> Libido decreased	Mood disorders <sup>a/*</sup> Libido decreased
Uncommon	Libido decreased			
<b>Nervous system disorders</b>				
Common	Headache	Headache	Headache	Headache
<b>Vascular disorders</b>				
Very Common	Hot flush		Hot flush	
Common		Hot flush		Hot flush Hypertension
Uncommon	Hypertension	Hypertension	Hypertension	
<b>Gastrointestinal disorders</b>				
Common		Nausea/vomiting Upper abdominal pain	Nausea/vomiting Constipation	Nausea/vomiting
Uncommon	Upper abdominal pain		Upper abdominal pain	Constipation
<b>Hepatobiliary disorder</b>				
Common	Elevated liver enzymes*	Elevated liver enzymes*	Elevated liver enzymes*	Elevated liver enzymes*
<b>Skin and subcutaneous tissue disorders</b>				
Common	Hyperhidrosis		Hyperhidrosis Night sweats	
Uncommon	Night sweats			Night sweats
<b>Musculoskeletal and connective tissue disorders</b>				
Common	Arthralgia	Bone mineral density decreased*	Arthralgia Bone mineral density decreased*	Arthralgia
Uncommon	Bone mineral density decreased*			Bone mineral density decreased*
<b>Reproductive system and breast disorders</b>				
Common	Vaginal haemorrhage <sup>b/*</sup> Pelvic pain Change in menstrual bleeding pattern <sup>c/*</sup>	Vaginal haemorrhage <sup>b/*</sup> Pelvic pain	Vaginal haemorrhage <sup>b/*</sup> Pelvic pain Vulvovaginal dryness	Vaginal haemorrhage <sup>b/*</sup> Pelvic pain Change in menstrual bleeding pattern <sup>c/*</sup>
Uncommon	Vulvovaginal dryness	Vulvovaginal dryness Change in menstrual bleeding pattern <sup>c/*</sup>	Change in menstrual bleeding pattern <sup>c/*</sup>	
<b>General disorders and administration site conditions</b>				
Common	Asthenia			
Uncommon			Asthenia	Asthenia

ABT: estradiol 1 mg and norethisterone acetate 0.5 mg tablet once daily

\*see sections 4.4 and/or 4.8, Description of selected adverse reactions, for further information

<sup>a</sup>Mood disorders includes reports of mood swings, affect lability, emotional disorder, irritability, mood altered, anxiety, panic attack, nervousness, depression, depressed mood

<sup>b</sup>Vaginal haemorrhage includes reports of vaginal haemorrhage, metrorrhagia, menorrhagia, menometrorrhagia and uterine haemorrhage

<sup>c</sup>Change in menstrual bleeding pattern includes reports of menstruation delayed, irregular menstruation and amenorrhea

## Description of selected adverse reactions

### *Mood disorders*

The most common mood disorder adverse reactions were reports of mood swings, which were reported in up to 1.5% of subjects in all linzagolix dose groups. Affect lability and anxiety were reported in 0.6% of subjects on linzagolix. Anxiety was only reported in the 200 mg groups with or without ABT. Reports of depression and depressed mood were infrequent. No more than 1 subject in each of the linzagolix treatment groups reported depression or depressed mood in the phase 2 or phase 3 clinical studies. For specific recommendations, refer to section 4.4.

### *Elevated liver enzymes*

Asymptomatic increases in hepatic enzyme levels, mainly alanine and aspartate transaminase (ALT and AST), were reported. Most increases were low grade and generally returned to normal during continued treatment. The incidence of ALT and/or AST increases in the linzagolix groups was below 3%. In approximately 1% of subjects, ALT/AST levels increased to at least 3 times ULN, with the highest increases reported with linzagolix 200 mg or 200 mg with ABT. No concurrent bilirubin elevation was observed. For specific recommendations, refer to section 4.4.

### *Bone mineral density changes*

The effect of linzagolix on BMD was assessed by DXA scan. In the two phase 3 clinical studies, dose- and time-dependent changes in BMD were observed. Concomitant ABT attenuated BMD loss (see Table 2).

Changes in BMD were most pronounced with the 200 mg dose; following 6 months of treatment, mean decreases from baseline of > 3% and > 8% in lumbar spine BMD were observed in 55% and 4% of patients, respectively.

Following 12 months of treatment with linzagolix 100 mg, 100 mg with ABT and 200 mg with ABT, mean decreases from baseline of > 3% and > 8% in lumbar spine BMD were observed in 38% and 7%, 16% and 0% and 27% and 1% of patients, respectively.

**Table 2: Proportion of patients with lumbar spine BMD change from baseline >3% and >8% at 24 weeks and at 52 weeks of treatment in PRIMROSE 1 and 2**

	Linzagolix 100 mg	Linzagolix 100 mg with ABT	Linzagolix 200 mg	Linzagolix 200mg with ABT
<b>24 weeks of treatment</b>				
Percentage of subjects (%) with BMD CfB > 3% / >8%	36 / 3	20 / 0	55 / 4	26 / 1
<b>52 weeks of treatment</b>				
Percentage of subjects (%) with BMD CfB > 3% / >8%	38 / 7	16 / 0	-*	27 / 1

ABT: estradiol 1 mg and norethisterone acetate 0.5 mg tablet once daily, CfB: change from baseline

\* Linzagolix 200 mg was studied up to 6 months

At 6 months after the end of treatment, increases of BMD were noted in all treatment groups, indicating partial recovery. For specific recommendations, refer to sections 4.2 and 4.4. For detailed information on BMD decrease refer to section 5.1.

### *Vaginal haemorrhage*

Vaginal haemorrhage (including reports of vaginal haemorrhage, uterine haemorrhage, metrorrhagia, menorrhagia, and menometrorrhagia) was reported during treatment with linzagolix. The most frequent adverse reactions were vaginal haemorrhage, metrorrhagia and menorrhagia which were reported in 13 (1.6%), 11 (1.3%) and 5 (0.6%) of subjects treated with linzagolix, respectively. Vaginal haemorrhage was reported more frequently in subjects in the 100 mg and 200 mg linzagolix

with ABT group (up to 2.4%) compared to the groups without ABT (1%). Metrorrhagia was reported in 3 (1.5%), 3 (1.4%), 1 (0.5%) and 4 (1.9%) of subjects in the 100 mg, 100 mg with ABT, 200 mg, and 200 mg with ABT groups, respectively, and menorrhagia was reported for 1 (0.5%), 1 (0.5%), 2 (1.0%) and 1 (0.5%) of subjects in the linzagolix 100 mg, 100 mg with ABT, 200 mg and 200 mg with ABT groups, respectively.

#### Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Any suspected adverse events should be reported to the Ministry of Health according to the National Regulation by using an online form: <https://sideeffects.health.gov.il>

#### **4.9 Overdose**

No case of overdose has been reported.

In cases of overdose, patients should be monitored closely, and management should be symptomatic and supportive.

For women taking regimens with concomitant ABT, overdose of estrogen and progestin may cause hormone-related symptoms, including but not limited to nausea, vomiting, breast tenderness, abdominal pain, drowsiness, fatigue, and withdrawal bleeding.

### **5. PHARMACOLOGICAL PROPERTIES**

#### **5.1 Pharmacodynamic properties**

Pharmacotherapeutic group: Anti-gonadotropin-releasing hormones, ATC code: H01CC04.

#### Mechanism of action

Linzagolix is a selective, non-peptide gonadotropin-releasing hormone (GnRH) receptor antagonist that inhibits endogenous GnRH signalling by binding competitively to GnRH receptors in the pituitary gland, thereby modulating the hypothalamic-pituitary-gonadal axis.

#### Pharmacodynamic effects

##### *Effects on pituitary and ovarian hormones*

Administration of linzagolix results in dose-dependent suppression of luteinizing hormone and follicle-stimulating hormone, leading to decreased blood concentrations of estradiol and progesterone. In the phase 3 studies, full suppression of serum estradiol (median < 20 pg/mL) was observed with linzagolix 200 mg from 4 to 24 weeks. Partial suppression was observed with linzagolix 100 mg, 100 mg with concomitant ABT (referred to as “with ABT”) and 200 mg with ABT from 4 to 52 weeks, with median serum estradiol levels in the range of 20 to 60 pg/mL. Progesterone levels were maintained  $\leq 3.1$  ng/mL in 83% of women receiving linzagolix 200 mg for 24 weeks and 68% of women receiving linzagolix 100 mg for 52 weeks, and about 90% of women receiving linzagolix 100 mg with ABT or 200 mg with ABT for 52 weeks.

### *Cardiac electrophysiology*

One randomised, placebo- and positive-controlled, open-label, single-dose, crossover thorough-QTc study evaluated the effect of linzagolix on the QTc interval. Forty-eight healthy women received a 200 mg dose of linzagolix (therapeutic target exposure), a 700 mg dose of linzagolix (supratherapeutic target exposure), a 400 mg dose of moxifloxacin (positive control), or placebo with an appropriate washout. A marginal effect with linzagolix 200 mg and 700 mg doses on the prolongation of the heart-rate corrected QT interval was identified, with a maximum observed mean at 3 hours post dose of 8.34 msec (90% CI 6.44 - 10.23) and 9.92 msec (90% CI 8.03 - 11.81), respectively. Based on the magnitude of the QTc prolongation, subsequent concentration effect modelling and QT subinterval (JTpeakc), the observed effects are not considered clinically relevant. The highest anticipated steady state concentration in the QT study was estimated in healthy subjects, not accounting for increases in unbound linzagolix exposure due to existing disorders (see section 5.2).

### *Changes in lipid parameters*

Fasting lipid levels (HDL, LDL and total cholesterol, and triglycerides) were assessed every three months from start of linzagolix treatment up to 3 months post treatment. There were increases in LDL cholesterol, HDL cholesterol, and triglycerides across all linzagolix arms (typically less than 15% in the case of LDL, and less than 20% in the case of triglycerides) and generally increases were higher for the linzagolix only regimes. These increases were evident from week 12 and lipid parameters had generally stabilised after 52 weeks of treatment. After stopping linzagolix, lipid levels showed signs of returning towards baseline by 12 weeks after stopping treatment, but still remained slightly elevated relative to baseline (see section 4.4).

### Clinical efficacy and safety

The efficacy of Yselyt was evaluated in two phase 3, randomised, double-blind and placebo-controlled studies, PRIMROSE 1 and PRIMROSE 2, including 511 and 501 women, respectively. PRIMROSE 1 was conducted in the US and PRIMROSE 2 was conducted primarily in Europe with about 10% of subjects being from the US. The studies had essentially replicate design with 52 weeks of treatment and 24 weeks post treatment follow-up. There are no on-treatment efficacy or safety data beyond 52 weeks.

Eligible patients had heavy menstrual bleeding (HMB: > 80 mL menstrual blood loss [MBL]/cycle) and a myomatous uterus with at least one fibroid  $\geq 2$  cm confirmed by ultrasound and no myoma > 12 cm. MBL was measured using the alkaline haematin method.

The mean age of women was 42 years (range 20 to 58), and mean body mass index was 29.9 kg/m<sup>2</sup> (range 16.8 to 58.6). Approximately 34.5% of women were Black, 63.5% were White and 2% were of other races. The most commonly reported symptoms, in addition to HMB, were abdominal pain (67.9% of women), abdominal pressure (52.5%), menstruation lasting longer than usual (50.4%), lower back pain (50.2%), increased urinary frequency (34.5%) and pain during intercourse (27.7%). The median uterine volume was 241 cm<sup>3</sup> (range 32 to 2075 cm<sup>3</sup>) and the median fibroid volume was 53 cm<sup>3</sup> (range 0 to 1142 cm<sup>3</sup>). Almost all women (99.7%) had at least one fibroid  $\geq 2$  cm long and 97.5% had FIGO classification from 1 to 6.

Subjects were randomised to one of 5 treatments: placebo, Yselyt 100 mg, Yselyt 200 mg, Yselyt 100 mg with concomitant ABT (estradiol 1 mg/ norethisterone acetate 0.5 mg, referred to as “with ABT”) or Yselyt 200 mg with ABT, all taken once daily. Subjects randomised to placebo or Yselyt 200 mg were switched to Yselyt 200 mg with ABT after 24 weeks except in PRIMROSE 1, in which 50% of placebo subjects continued placebo until 52 weeks.

The primary efficacy endpoint was a response, defined as having an MBL of  $\leq 80$  mL and  $\geq 50\%$  reduction from baseline over the last 28 days before week 24. Treatment with Yselyt with or without ABT resulted in a higher proportion of women with reduced MBL at week 24 compared to placebo. The percentage of responders was 56.4%, 66.4%, 71.4% and 75.5% with Yselyt 100 mg, 100 mg with ABT, 200 mg and 200 mg with ABT, respectively in PRIMROSE 1 and 56.7%, 77.2%, 77.7% and 93.9% respectively in PRIMROSE 2 (Table 3). At week 52, the percentage of responders was 57.4%,

79.9% and 87.9% with Ysely 100 mg, 100 mg with ABT and 200 mg with ABT, respectively, in PRIMROSE 1 and 53.2%, 91.3% and 91.6%, respectively, in PRIMROSE 2.

**Table 3: Responders (women with reduced menstrual blood loss) at 24 weeks**

Study	PRIMROSE 1					PRIMROSE 2				
	Placebo	Ysely				Placebo	Ysely			
		100 mg	100 mg + ABT	200 mg	200 mg + ABT		100 mg	100 mg + ABT	200 mg	200 mg + ABT
N	103	94	107	105	102	102	97	101	103	98
Percentage (95% CI) of responders <sup>1,2</sup>	35.0 (25.8, 45.0)	56.4 (45.8, 66.6)	66.4 (56.6, 75.2)	71.4 (61.8, 79.8)	75.5 (66.0, 83.5)	29.4 (20.8, 39.3)	56.7 (46.3, 66.7)	77.2 (67.8, 85.0)	77.7 (68.4, 85.3)	93.9 (87.1, 97.7)

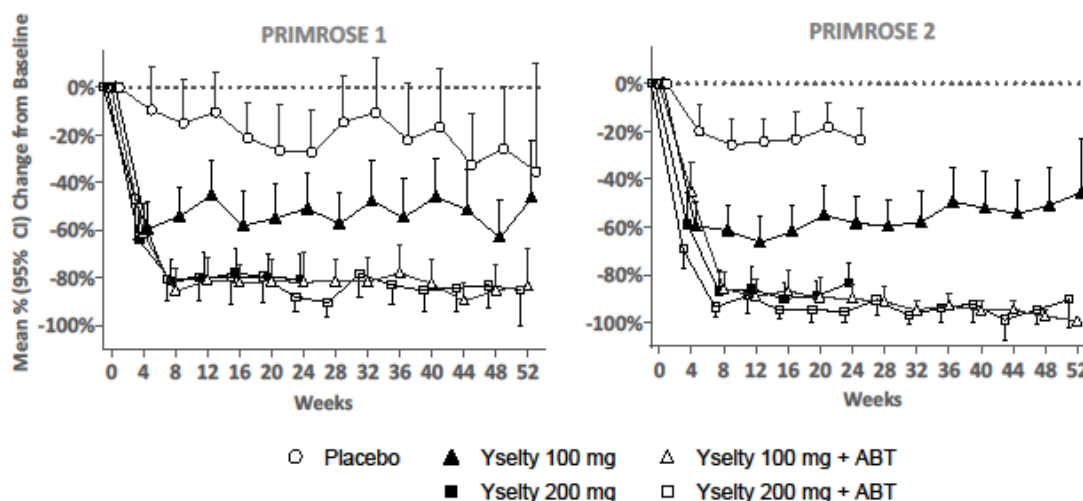
<sup>1</sup> Responders were women with  $\leq 80$  mL MBL and  $\geq 50\%$  reduction from baseline

<sup>2</sup> Clopper-Pearson 95% CI. p-values  $\leq 0.003$  for odds-ratio to placebo from a Cochran-Mantel-Haenszel test with race as stratification factor.

ABT: estradiol 1 mg/norethisterone acetate 0.5 mg

The mean percentage reduction in MBL over time is shown in Figure 1. Treatment with Ysely 100 mg achieved a maximal effect of about 60% reduction in MBL by 4 weeks. Treatment with Ysely 100 mg with ABT or 200 mg with or without ABT, reached a maximal effect of about 80 to 95% reduction in MBL by 8 weeks. These reductions were maintained up to 52 weeks.

**Figure 1: Mean percentage change in menstrual blood loss for each 28-day period up to week 52**



In both pivotal phase 3 studies, improvements were observed in secondary endpoints after 24 weeks in the Ysely dose groups compared to placebo (Table 4), including an increased proportion of women achieving amenorrhea, reduced pain scores, higher haemoglobin levels in anaemic patients ( $< 12$  g/dL at baseline) and increased health-related quality of life scores. These improvements were more pronounced with Ysely 200 mg (with or without ABT) and Ysely 100 mg with ABT as compared to Ysely 100 mg.

Improvements in secondary endpoints at 24 weeks were generally maintained after 52 weeks in the Ysely 100 mg with and without ABT and Ysely 200 mg with ABT groups. Uterine and fibroid volumes were markedly and consistently reduced after 24 weeks, only in the Ysely 200 mg without ABT group. In PRIMROSE 1 and 2, respectively, uterine volumes were reduced by 31% and 43%, and fibroid volumes were reduced by 43% and 49%. Mean uterine and fibroid volumes increased toward baseline volumes when ABT was added after 6 months of treatment with Ysely 200 mg without ABT.

**Table 4: Secondary endpoints at 24 weeks**

Study	PRIMROSE 1					PRIMROSE 2				
	Placebo	Yselyt				Placebo	Yselyt			
		100 mg	100 mg + ABT	200 mg	200 mg + ABT		100 mg	100 mg + ABT	200 mg	200 mg + ABT
N	103	94	107	105	102	102	97	101	103	98
Percentage of women with amenorrhea (95% CI) <sup>1</sup>	21.4 (13.9, 30.5)	38.3 (28.5, 48.9)	42.1 (32.6, 52.0)	60.0 (50.0, 69.4)	57.8 (47.7, 67.6)	11.8 (6.2, 19.6)	34.0 (24.7, 44.3)	63.4 (53.2, 72.7)	70.9 (61.1, 79.4)	80.6 (71.4, 87.9)
Mean change from baseline in haemoglobin levels – g/dL (SD, n) <sup>2</sup>	0.30 (1.57, 45)	1.36 (1.82, 42)	1.87 (1.57, 52)	2.22 (1.58, 53)	2.00 (1.60, 50)	0.38 (1.69, 43)	1.36 (1.50, 49)	1.88 (1.58, 45)	2.10 (1.77, 46)	2.27 (1.43, 47)
Estimated mean change from baseline in pain score (95% CI) <sup>3</sup>	-1.06 (-1.74, -0.37)	-2.70 (-3.38, -2.02)	-3.11 (-3.81, -2.41)	-3.85 (-4.47, -3.23)	-3.68 (-4.34, -3.01)	-0.44 (-1.14, 0.27)	-1.61 (-2.35, -0.88)	-1.91 (-2.64, -1.18)	-2.55 (-3.25, -1.84)	-2.27 (-3.00, -1.55)
Estimated mean ratio to baseline in uterine volume (95% CI)	1.02 (0.91, 1.15)	0.83 (0.74, 0.94)	1.06 (0.94, 1.20)	0.69 (0.62, 0.77)	0.92 (0.82, 1.03)	1.04 (0.92, 1.17)	0.85 (0.75, 0.96)	0.88 (0.77, 0.99)	0.57 (0.50, 0.64)	0.80 (0.71, 0.91)
Estimated mean ratio to baseline in fibroid volume (95% CI)	0.95 (0.75, 1.19)	0.75 (0.60, 0.94)	0.98 (0.77, 1.24)	0.57 (0.46, 0.70)	0.88 (0.70, 1.09)	1.04 (0.84, 1.29)	0.85 (0.68, 1.06)	0.93 (0.75, 1.17)	0.51 (0.41, 0.63)	0.79 (0.63, 0.99)
Estimated mean change from baseline in HRQL score (95% CI) <sup>4</sup>	15.5 (9.4, 21.6)	26.1 (20.0, 32.2)	37.2 (31.0, 43.5)	35.5 (29.8, 41.1)	34.2 (28.3, 40.1)	10.3 (4.0, 16.6)	20.6 (14.1, 27.2)	22.9 (16.4, 29.5)	30.2 (23.9, 36.5)	30.7 (24.2, 37.1)

<sup>1</sup> Amenorrhea was defined as no menstrual blood detected by the alkaline hematin method (not including spotting or MBL < 1 to 3 mL) for 35 days and until the end of the treatment up to 24 weeks

<sup>2</sup> In women with baseline anaemia (haemoglobin < 12 g/dL). n represents the number of women with non-missing data at 24 weeks

<sup>3</sup> Pain was assessed using a 0 to 10 numerical rating scale (NRS).

<sup>4</sup> The Health-Related Quality of Life (HRQL) score is a part of the validated Uterine Fibroid Symptoms – Quality of Life (UFS-QoL) questionnaire. The score is from 0 to 100 with a higher score indicating better health-related quality of life. The baseline score was about 40.

ABT estradiol 1 mg/norethisterone acetate 0.5 mg; SD standard Deviation; CI confidence interval

### *Bone mineral density*

BMD was assessed using DXA scan at baseline, during treatment (Weeks 24 and 52) and 6 months after the end of treatment (week 76). Subjects at significant risk of osteoporosis, with a history of or known osteoporosis or other metabolic bone disease were excluded from PRIMROSE 1 and PRIMROSE 2 trials.

Mean percentage BMD decreases observed at 24 and 52 weeks were dose- and time-dependent and attenuated by concomitant ABT (Table 5).

At 24 weeks, the change in BMD was most pronounced in women who had full estradiol suppression with Yselyt 200 mg (-3.70%). This regimen was not continued for more than 6 months (see section 4.2). The changes were less pronounced in women who received other regimens: -1.99% with Yselyt 100 mg, -0.96% Yselyt 100 mg with ABT and -1.13% with Yselyt 200 mg with ABT.

At 52 weeks, the mean percentage changes from baseline indicated a reduced rate of BMD loss: -2.36% with Yselyt 100 mg, -0.93% with Yselyt 100 mg with ABT and -1.61% with Yselyt 200 mg with ABT. The level of treatment induced BMD loss in this population considered to be clinically meaningful is

not well established, and will depend on the individual woman, but in general BMD losses of approximately 3% or more should be reviewed and monitored carefully. It is important to consider the individual woman's baseline BMD, age and overall osteoporosis risk profile when assessing an individual woman's BMD loss, and the benefit-risk of continuing treatment.

At 24 weeks after stopping treatment, most patients had full or partial recovery of lumbar spine BMD: 53%, 52% and 64% for Yselty 100 mg, 100 mg with ABT and 200 mg with ABT, respectively in PRIMROSE 1 and 59%, 80% and 67% for Yselty 100 mg, 100 mg with ABT and 200 mg with ABT in PRIMROSE 2.

The extent and rate of BMD loss when treating women beyond 12 months is currently unknown.

**Table 5: Mean percent change from baseline (CfB) in lumbar spine BMD after 24 and 52 weeks of treatment in PRIMROSE 1 and 2**

	Placebo	Yselty 100 mg	Yselty 100 mg+ABT	Yselty 200 mg*	Yselty 200 mg+ABT
<b>24 weeks of treatment</b>					
Number of subjects	130	121	122	138	127
Mean percent CfB	0.46	-1.99	-0.96	-3.70	-1.13
95% CI	0.06; 0.85	-2.47; -1.50	-1.45; -0.48	-4.18; -3.22	-1.60; -0.66
<b>52 weeks of treatment</b>					
Number of subjects	19	93	84	-	97
Mean percent CfB	-0.83 **	-2.36	-0.93	-	-1.61
95% CI	-2.08; 0.42	-3.10; -1.63	-1.40; -0.47	-	-2.22; -0.99

\* Yselty 200 mg was studied up to 6 months.

\*\* Placebo was used up to 12 months in PRIMROSE 1.

### *Effects on endometrium*

Endometrial biopsies were performed in a subset of patients at baseline, week 24 and week 52 as part of the safety assessment in both phase 3 studies. Results did not raise any safety concerns.

## **5.2 Pharmacokinetic properties**

### Absorption

Following oral administration of a single dose of 100 mg or 200 mg, linzagolix is swiftly absorbed, with  $C_{max}$  occurring approximately 2 h after administration. Linzagolix shows dose-linear pharmacokinetics and no relevant accumulation at steady state.

Administration of linzagolix (200 mg) with a high fat meal appeared to delay and to slightly decrease peak plasma concentrations, consistent with delayed gastric emptying after the high fat meal but had no effect on the extent of exposure. It is not considered to be of clinical significance.

### Distribution

Linzagolix was highly bound (> 99%) to plasma proteins, in particular to albumin, and did not partition into red blood cells. The volume of distribution (Vd/F) following 7 consecutive days of oral linzagolix 100 mg or 200 mg administration was 11.067 L (CV: 20.4%) and 11.178 L (CV: 11.8%), respectively.

### Biotransformation

Metabolite profiling and identification of linzagolix quantified up to 7 metabolites across plasma, urine, and faeces. The predominant component in the human plasma profiles was unchanged

linzagolix. Similarly, linzagolix was the predominant component in urine and one of the major components in faeces. All plasma metabolites were present at less than 10% of the total linzagolix related exposure.

### Elimination

Following multiple doses of linzagolix, linzagolix  $t_{1/2}$  was approximately 15 hours. Linzagolix was mainly excreted in urine and approximately one third was eliminated via faeces. Following administration of multiple doses of linzagolix 100 mg and 200 mg, the linzagolix geometric mean apparent clearance (CL/F) was 0.522 L/h (CV: 20.1%) and 0.499 L/h (CV: 15.2%), respectively.

### Special populations

The population PK analysis suggests that age does not have a meaningful effect on linzagolix exposure. The analysis showed that Black subjects had a 22.5% decrease in CL/F relative to Caucasian subjects; however, the safety profile of linzagolix between Black and Caucasian subjects was similar.

Based on the population PK analysis, weight was found to influence linzagolix PK. The CL/F in patients weighing 52.7 kg (5th percentile) was predicted to be about 19.2% lower, and in patients weighing 112 kg (95th percentile), about 42% higher than in patients weighing 70 kg. However, subgroup analyses of data from the pivotal phase 3 studies did not indicate any clinically relevant differences with respect to safety and efficacy, and no dose adjustment is recommended.

#### *Hepatic impairment*

A clinical study conducted in female subjects with hepatic impairment (mild Child-Pugh A, moderate: Child-Pugh B and severe: Child-Pugh C) revealed no relevant effect on total plasma linzagolix exposure following administration of a single 200 mg dose of linzagolix. The unbound fraction of linzagolix was not affected by mild and moderate hepatic impairment; no dose adjustments with Yselyt in patients with mild and moderate hepatic impairment are required (see section 4.2). Yselyt should not be used in women with severe hepatic impairment (Child-Pugh C) as 2- to 3-fold higher unbound linzagolix mean exposures were recorded (see section 4.4).

#### *Renal impairment*

A clinical study conducted in female subjects with renal impairment (mild, moderate, severe and end-stage renal disease) where glomerular filtration rate (GFR) was assessed using creatine clearance, revealed no relevant effect on total plasma linzagolix exposure following administration of a single 200 mg dose of linzagolix. Unbound plasma linzagolix  $C_{max,u}$ ,  $AUC_{u0-t}$ , and  $AUC_{u0-inf}$  were increased by 30%, 32%, and 33%, in women with mild renal impairment as compared to healthy subjects with normal renal function. As a potential safety concern with long-term use cannot be excluded, prescribers are recommended to monitor for adverse reactions in women with mild renal impairment (see section 4.4). However, no dose adjustment is required (see section 4.2). Yselyt should not be used in women with moderate or severe renal impairment or end-stage renal disease as approximately 1.5-fold (in moderate) and 2-fold (in severe renal impairment and ESRD) higher unbound linzagolix mean exposures were observed (see section 4.4).

## **5.3 Preclinical safety data**

#### *Reproductive and developmental toxicity*

Due to its mechanism of action, linzagolix prevented conception and reduced implantation in rat fertility studies and resulted in embryo-foetal mortality, total litter loss or abolished pregnancy in rat and rabbit embryo-foetal studies.

No teratogenic effects and no adverse effect on the pre- and postnatal development were observed in a rat study.

Dose levels of 100 mg/kg and 3 mg/kg linzagolix were shown to be the No observed adverse effect level (NOAEL) for reproductive function and embryo-foetal development in the main embryo-

development studies in rat and rabbit, respectively (corresponding to respectively 5.9 and 0.004 times the maximum recommended human dose based on AUC).

#### *Lactation*

Linzagolix was shown to be excreted in milk of rats. Up to 96 h after administration, the radioactivity concentration was lower in milk than in plasma (less than 0.3 times).

#### *Mutagenicity*

A standard battery of in vitro and in vivo tests revealed no evidence of mutagenic or clinically relevant genotoxic potential of the drug.

#### *Carcinogenicity*

Carcinogenic properties of linzagolix were assessed in a 26-week carcinogenicity study in transgenic Tg RasH2 mice. There was no evidence of linzagolix-induced carcinogenicity up to the highest dose of 500 mg/kg (corresponding to 13.2 times the maximum recommended dose in humans based on AUC).

In a 2-year carcinogenicity study in rats, an increased incidence of uterine endometrial adenocarcinoma was observed in the mid- (50 mg/kg) and high-dose (500 mg/kg) groups (corresponding to respectively 6.8 and 9.6 times the maximum recommended human dose based on AUC) and a marginal increase in the frequency of mammary gland adenocarcinoma was observed at the mid-dose (50 mg/kg) only (6.8 times the maximum recommended human dose based on AUC). The clinical relevance of these findings remains unknown.

Non-carcinogenic histopathological findings in the ovary and uterus (mouse) or ovary and female mammary gland (rat) were considered to be related to the pharmacological action of linzagolix.

## **6. PHARMACEUTICAL PARTICULARS**

### **6.1 List of excipients**

#### Tablet core

lactose monohydrate  
cellulose, microcrystalline  
low-substituted hydroxypropylcellulose  
Croscarmellose sodium  
hydroxypropylcellulose  
Magnesium stearate

#### Film-coating

macrogol poly(vinyl alcohol) grafted copolymer  
talc  
titanium dioxide  
iron oxide yellow (E172)

### **6.2 Incompatibilities**

Not applicable.

### **6.3 Shelf life**

The expiry date of the product is indicated on the packaging materials.

### **6.4 Special precautions for storage**

This medicinal product does not require any special storage conditions.

## **6.5 Nature and contents of container**

PVC-PVDC/aluminium blister containing 14 film-coated tablets per blister.

Pack size of 28 film-coated tablets (two blisters of 14 film-coated tablets) per cardboard box.

## **6.6 Special precautions for disposal**

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

## **7. REGISTRATION HOLDER**

Truemed Ltd.,  
10 Beni Gaon St., Poleg Industrial Park,  
P.O.B 8105, Netanya 4250499

## **8. MANUFACTURER**

Theramex Ireland Limited  
3rd Floor, Kilmore House,  
Park Lane, Spencer Dock,  
Dublin 1  
D01 YE64  
Ireland

## **9. REGISTRATION NUMBER**

Yselty 100mg - 179-38-38163  
Yselty 200mg - 179-39-38164

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