Proposed Professional Information

SCHEDULING STATUS

S4

1. NAME OF THE MEDICINE

UVISMA (Film coated tablets)

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each **UVISMA** tablet contains

Drospirenone ……3 mg

Ethinylestradiol …….0,02 mg

The 28-day pack (Every-Day pack) contains 24 pink active film-coated tablets each with 3 mg drospirenone and 0,02 mg ethinylestradiol plus 4 white inactive film-coated tablets.

24 pink active film-coated tablets:

Contains sugar: lactose monohydrate 60,86 mg per tablet

4 white inert (inactive) film coated tablets:

Contains sugar: lactose monohydrate 63,52 mg per tablet

For full list of excipients, see **section 6.1**

3. PHARMACEUTICAL FORM

Film-coated tablets

UVISMA

The active tablets are Pink, circular, biconvex, film coated tablets, debossed with ‘159’ on one side and plain on other side.

The inactive tablets are White, circular, biconvex, film coated tablets, debossed with ‘159’ on one side and ‘IN’ on other side.

4. CLINICAL PARTICULARS

4.1. Therapeutic indications

- Oral contraceptive
- Treatment of moderate acne vulgaris in women seeking oral contraception.
- Treatment of symptoms of premenstrual dysphoric disorder (PMDD) in women who have chosen oral contraception as their method of birth control. The efficacy of drospirenone 3 mg and ethinyl estradiol 0,02 mg for PMDD has not been reported beyond 3 cycles.

UVISMA has not been evaluated for treatment of premenstrual syndrome (PMS).

4.2. Posology and method of administration

UVISMA, when taken correctly, has a failure rate of approximately 1 % per year. The failure rate may increase when pills are missed or taken incorrectly.

Tablets must be taken in the order directed on the package, at about the same time every day, with some liquid if needed. One tablet is taken daily for 28 days. Each subsequent pack is started the day after the last intake of the previous pack. A withdrawal bleed usually starts on day 2 to 3 after starting the placebo tablets (white tablets in the last row) and may not be finished before the next pack is started.

***How to start* UVISMA**:

No preceding hormonal contraceptive use (in the past month):

Tablet-taking has to start on day 1 of the woman's natural cycle (i.e. the first day of her menstrual bleeding). Starting on days 2 to 5 is allowed, but during the first cycle a barrier method is recommended in addition for the first 7 days of tablet-taking.

Changing from a combined hormonal contraceptive (combined oral contraceptive), vaginal ring or transdermal patch:

The woman should start with **UVISMA** preferably on the day after the last active tablet of her previous combined oral contraceptive, but at the latest on the day following the usual tablet-free or inactive tablet interval of her previous combined oral contraceptive. In case a vaginal ring or transdermal patch has been used, the woman should start using **UVISMA** preferably on the day of removal, but at the latest when the next application would have been due.

Changing from a progestogen-only method (minipill, injection, implant) or from a progestogen-releasing intrauterine system:

The woman may switch any day from the minipill, from an implant or the intrauterine system on the day of its removal and from an injectable when the next injection would be due but should in all of these cases be advised to additionally use a barrier method for the first 7 days of tablet-taking.

Following first-trimester abortion:

The woman may start immediately. When doing so, she need not take additional contraceptive measures.

Following delivery or second-trimester abortion:

For breastfeeding women see "**section 4.6**".

Women should be advised to start at day 21 to 28 after delivery or second-trimester abortion. When starting later, the woman should be advised to additionally use a barrier method for the first 7 days

of tablet-taking. However, if intercourse has already occurred, pregnancy should be excluded before the actual start of **UVISMA** use or the woman has to wait for her first menstrual period.

Management of missed tablets:

Missed white pills (from the last row of the blister) are placebos and thus can be disregarded to avoid unintentionally prolonging the placebo tablet phase. The following advice only pertains to missed active tablets:

If the user is less than 12 hours late in taking any active tablet, contraceptive protection is not reduced. The woman should take the tablet as soon as she remembers and should take further tablets at the usual time.

If she is more than 12 hours late in taking any active tablet, contraceptive protection may be reduced. The management of missed tablets can be guided by the following two basic rules:
1. Active tablet-taking must never be discontinued for longer than four days;
2. 7 days of uninterrupted active tablet-taking are required to attain adequate suppression of the hypothalamic-pituitary-ovarian-axis.

Accordingly the following advice can be given in daily practice:

Day 1 to 7:
The user should take the last missed tablet as soon as she remembers, even if this means taking two tablets at the same time. She then continues to take tablets at her usual time. In addition, a barrier method such as a condom should be used for the next 7 days. If intercourse took place in

the preceding 7 days, the possibility of a pregnancy should be considered. The more tablets that are missed and the closer they are to the inactive tablet phase, the higher the risk of a pregnancy.

Day 8 to 14:

The user should take the last missed tablet as soon as she remembers, even if this means taking two tablets at the same time. She then continues to take tablets at her usual time. Provided that the woman has taken her tablets correctly in the 7 days preceding the first missed tablet, there is no need to use extra contraceptive precautions. However, if this is not the case, or if she missed more than 1 tablet, the woman should be advised to use extra precautions for 7 days.

Day 15 to 24:

The risk of reduced reliability is imminent because of the forthcoming inactive tablet phase. However, by adjusting the tablet-intake schedule, reduced contraceptive protection can still be prevented. If either of the following two options is adhered to, there is no need to use extra contraceptive precautions, provided that in the 7 days preceding the first missed tablet the woman has taken all tablets correctly. If this is not the case, the woman should be advised to follow the first of these two options, and use extra precautions for the next 7 days as well.

1. The user should take the last missed tablet as soon as she remembers, even if this means taking two tablets at the same time. She then continues to take tablets at her usual time until the active tablets are used up. The 4 inactive tablets must be discarded. The next pack must be started right away. The user is unlikely to have a withdrawal bleed until the end of the active tablets section of the second pack, but she may experience spotting or breakthrough bleeding on active tablet-taking days.

2. The woman may also be advised to discontinue active tablet-taking from the current pack. She should then take inactive tablet for up to 4 days, including the days she missed

tablets, and subsequently continue with the next pack, starting in the silver section with the tablet for the appropriate day of the week.

If the woman missed active tablets and subsequently has no withdrawal bleed in the inactive tablet phase, the possibility of a pregnancy should be considered.

Advice in case of gastrointestinal disturbances:

In case of severe gastrointestinal disturbances, absorption may not be complete and additional contraceptive measures should be taken.

If vomiting occurs within 3 to 4 hours after active tablet-taking, the advice concerning missed tablets is applicable. If the woman does not want to change her normal tablet-taking schedule, she must take the extra tablet(s) needed from another pack.

How to delay a period:

To delay a period the woman should continue with another pack of **UVISMA** without taking the inactive tablets from her current pack. The extension can be carried on for as long as wished until the end of the active tablets in the second pack. During the extension the woman may experience breakthrough bleeding or spotting. Regular intake of **UVISMA** is then resumed after the inactive tablet phase.

Additional information on special populations:

Children and adolescents:

UVISMA is only indicated after menarche.

Elderly patients:

UVISMA is not indicated after menopause.

Patients with hepatic impairment:

UVISMA is contraindicated in women with severe hepatic diseases as long as liver function values have not returned to normal (see "**section 4.3**").

Patients with renal impairment:

UVISMA is contraindicated in patients with severe renal impairment or acute renal failure (see "**section 4.3**").

Method of administration:

For oral use only

4.3. Contraindications

Combined oral contraceptives such as **UVISMA** should not be used in the presence of any of the conditions listed below. Should any of the conditions appear for the first-time during treatment with **UVISMA,** the product should be stopped immediately.

- Hypersensitivity to the active substances (drospirenone and ethinyl estradiol) or to any of the excipients listed in **section 6.1**).
- Known hereditary or acquired predisposition for venous or arterial thromboembolism, such as APC-resistance, (including Factor V Leiden), antithrombin-III-deficiency, protein C deficiency, protein S deficiency, hyperhomocysteinaemia, antiphospholipid-antibodies (anticardiolipin-antibodies, lupus anticoagulant)]
- Presence or a history of venous or arterial thrombotic/thromboembolic events [e.g., deep venous thrombosis, pulmonary embolism, myocardial infarction, or of a cerebrovascular accident.

- Presence or history of prodromata of a thrombosis (e.g., transient ischaemic attack, angina pectoris)
- History of migraine with focal neurological symptoms
- Diabetes mellitus with vascular involvement
- The presence of a severe or multiple risk factor(s) for venous or arterial thrombosis (see "**section 4.4**")
- Severe hepatic disease as long as liver function values have not returned to normal
- Severe renal insufficiency or acute renal failure with a creatinine clearance of < 30 ml/min
- Presence or history of liver tumours (benign or malignant)
- Known or suspected sex-steroid influenced malignancies (e.g., of the genital organs or the breasts)
- Undiagnosed vaginal bleeding
- Known or suspected pregnancyMajor surgery with prolonged immobilization
- Severe hypertension, severe dyslipoproteinaemia;
- Depression not well-controlled with treatment
- A history of depression with the use of hormonal contraceptives.

UVISMA is contraindicated for concomitant use with the medicinal products containing ombitasvir/paritaprevir/ritonavir and dasabuvir.

4.4. Special warnings and precautions for use

If any of the conditions or risk factors mentioned below is present, the suitability of **UVISMA** tablets should be discussed with the woman.

In the event of aggravation, or first appearance of any of these conditions or risk factors, the woman should be advised to contact her doctor to determine whether the use of **UVISMA** tablets should be discontinued.

In case of suspected or confirmed venous thromboembolism (VTE) or ATE (arterial thromboembolism), combined hormonal contraceptive (CHC) use should be discontinued. In case anticoagulant therapy is started, adequate alternative contraception should be initiated because of the teratogenicity of anticoagulant therapy (coumarins).

Circulatory disorders

An association between the use of dropirenone/ethinyl estradiol, as in **UVISMA** tablets and an increased risk of arterial and venous thrombotic and thromboembolic diseases such as myocardial infarction, stroke, deep venous thrombosis and pulmonary embolism has been reported.

Products Medicines that contain levonorgestrel, norgestimate or norethisterone are associated with the lowest risk of VTE. Other medicines products such as **UVISMA** tablets may have up to twice this level of risk. The decision to use any medicines other than one with the lowest VTE risk should be taken only after a discussion with the woman to ensure she understands the risk of VTE with **UVISMA**, how her current risk factors influence this risk, and that her VTE risk is highest in the first year of use. There is also some reported evidence that the risk is increased when the same CHC is re-started or a different CHC is started after a break in use of 4 weeks or more.
This increased risk is reported to be mainly present during the first 3 months.

Overall, the risk for venous thromboembolism (VTE) in users of low estrogen dose combined oral contraceptives is reported to be two to threefold higher than for non-users of combined oral contraceptives who are not pregnant.

VTE may be life-threatening or may have a fatal outcome.

Venous thromboembolism, manifesting as deep venous thrombosis and/or pulmonary embolism, may occur. The occurrence of thrombosis has been reported in other blood vessels, e.g., hepatic, mesenteric, renal, cerebral, or retinal veins and arteries, in **UVISMA** users.

There is no consensus about the possible role of varicose veins and superficial thrombophlebitis in venous thromboembolism.

Arterial thromboembolic events may be life-threatening or may have a fatal outcome.

The risk of venous or arterial thrombotic/thromboembolic events or of a cerebrovascular accident increases with:

- age
- smoking (with heavier smoking and increasing age the risk increases further, especially in women over 35 years of age)
- a positive family history (i.e., venous, or arterial thromboembolism ever in a sibling or parent at a relatively early age). If a hereditary predisposition is suspected, the woman should be referred to a specialist for advice before deciding about any combined oral contraceptive use
- obesity (body mass index over 30 kg/m²)
- dyslipoproteinaemia
- hypertension
- migraine
- valvular heart disease
- atrial fibrillation
- prolonged immobilisation, major surgery, any surgery to the legs, or major trauma, temporary immobilisation including air travel >4 hours can also be a risk factor for VTE, particularly in women with other risk factors. In these situations, it is advisable to

discontinue combined oral contraceptive use (in the case of elective surgery at least four weeks in advance) and not to resume until two weeks after complete remobilisation.

The increased risk of thromboembolism in the puerperium must be considered (see "**section 4.6**").

Other medical conditions which have been associated with adverse circulatory events include diabetes mellitus, cancer, systemic lupus erythematosus, haemolytic uraemic syndrome, chronic inflammatory bowel disease (Crohn's disease or ulcerative colitis) and sickle cell disease.

An increase in frequency or severity of migraine during **UVISMA** tablets use (which may be prodromal of a cerebrovascular event) may be a reason for its immediate discontinuation.

Biochemical factors that may be indicative of a hereditary or acquired predisposition for venous or arterial thrombosis include Activated Protein C (APC) resistance, hyperhomocysteinaemia, antithrombin-III deficiency, protein C deficiency, protein S deficiency, antiphospholipid antibodies (anticardiolipin antibodies, lupus anticoagulant).

Tumours:

The most important risk factor for cervical cancer is persistent human papilloma virus infection. Long-term use of **UVISMA** may further contribute to an increased risk of cervical cancer.

A slightly increased relative risk (RR = 1,24) of having breast cancer diagnosed in women who are currently using drospirenone/ethinyl estradiol, as contained in **UVISMA** has been reported. The excess risk is reported to gradually disappear during the 10 years after cessation of drospirenone/ethinyl estradiol as contained in **UVISMA** use.

Benign liver tumours and, even more rarely, malignant liver tumours have been reported in users ofdrospirenone/ethinyl estradiol, as contained in **UVISMA**. In isolated cases, these tumours have been reported to lead to life-threatening intra-abdominal haemorrhages. A hepatic tumour should be considered in the differential diagnosis when severe upper abdominal pain, liver enlargement or signs of intra-abdominal haemorrhage occur in women taking **UVISMA**.

With the use of the higher-dosed combined oral contraceptives (COCs) (50 µg ethinyl estradiol) the risk of endometrial and ovarian cancer is reduced. Whether this also applies to lower-dosed COCs remains to be confirmed.

Other conditions:

The progestin component in **UVISMA** is an aldosterone antagonist with potassium sparing properties. In most cases, no increase of potassium levels is to be expected. In a reported clinical study, however in some patients with mild or moderate renal impairment and concomitant use of potassium-sparing medicines serum potassium levels slightly, but not significantly, increased during drospirenone intake. Therefore, it is recommended to check serum potassium during the first treatment cycle in patients presenting with renal insufficiency and a pretreatment serum potassium in the upper reference range, and particularly during concomitant use of potassium-sparing medicines

Women with hypertriglyceridaemia, or a family history thereof, may be at an increased risk of pancreatitis when using combined oral contraceptives such as **UVISMA**.

Small increases in blood pressure have been reported in many women taking drospirenone/ethinyl estradiol, as contained in **UVISMA**, and clinically relevant increases may occur. If a sustained clinically significant hypertension develops during the use of **UVISMA** then it is prudent for the medical practitioner to withdraw it and treat the hypertension.

The occurrence or deterioration of the following conditions have been reported with drospirenone/ethinyl estradiol as contained in **UVISMA** use: jaundice and/or pruritus related to cholestasis; gallstone formation; porphyria; systemic lupus erythematosus; haemolytic uraemic syndrome; Sydenham's chorea; herpes gestationis; otosclerosis-related hearing loss.

In women with hereditary angioedema exogenous oestrogens such as **UVISMA** may induce or exacerbate symptoms of angioedema.

Acute or chronic disturbances of liver function may necessitate the discontinuation of **UVISMA**. Recurrence of cholestatic jaundice which first occurred during pregnancy or previous use of sex steroids necessitates the discontinuation of **UVISMA**.

UVISMA may have an effect on peripheral insulin resistance and glucose tolerance. Hence diabetic women should be carefully observed while taking **UVISMA**.

Worsening of endogenous depression and epilepsy, has been reported during COC use.

Depressed mood and depression are well-known undesirable effects of hormonal contraceptive use. Depression can be serious and is a well-known risk factor for suicidal behaviour and suicide. Women should be advised to contact their medical practitioners in case of mood changes and depressive symptoms, including shortly after initiating treatment.

Crohn's disease and ulcerative colitis have been reported with combined oral contraceptives such as **UVISMA**.

Chloasma may 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 whilst taking **UVISMA**.

ALT elevations

Patients treated for hepatitis C virus infections (HCV) with the medicines containing ombitasvir/paritaprevir/ritonavir and dasabuvir with or without ribavirin, transaminase (ALT) elevations higher than 5 times the upper limit of normal (ULN) have been reported significantly more frequent in women using ethinyl estradiol-containing medicines such as combined hormonal contraceptives (CHCs).

Medical examination/consultation:

A complete medical history and physical examination should be taken, and pregnancy must be ruled out prior to the initiation or reinstitution of **UVISMA** use, guided by the "Contraindications" and "Warnings", and should be repeated periodically. Periodic medical assessment is also of importance because contra-indications (e.g., a transient ischaemic attack, etc) or risk factors (e.g., a family history of venous or arterial thrombosis) may appear for the first time during the use of **UVISMA**. The frequency and nature of these assessments should be based on established practice guidelines and be adapted to the individual woman, but should generally include special reference to blood pressure, breasts, abdominal and pelvic organs, including cervical cytology and relevant laboratory tests.

Women should be advised that **UVISMA** does not protect against HIV infections (AIDS) and other sexually transmitted diseases (STDs). Women should be advised that additional barrier contraceptive measures are needed to prevent transmission of STDs and HIV infection.

Reduced efficacy:

The efficacy of **UVISMA** may be reduced in the event of e.g., missed active tablets, gastro-intestinal disturbances during active tablet taking (see "**section 4.2**") or concomitant medicines (see "**section 4.5**").

Reduced cycle control:

Irregular bleeding (spotting or breakthrough bleeding) may occur, especially during the first months of use. If bleeding irregularities persist or occur after previously regular cycles, then non-hormonal causes should be considered, and adequate diagnostic measures are indicated to exclude malignancy or pregnancy. These may include curettage.

In some women withdrawal bleeding may not occur during the inactive tablet phase. If **UVISMA** have been taken according to the directions described under "**section 4.2"**, it is unlikely that the woman is pregnant. However, if **UVISMA** have not been taken according to these directions prior to the first missed withdrawal bleed or if two withdrawal bleeds are missed, pregnancy must be ruled out before its use is continued.

Lactose

UVISMA contains lactose monohydrate. Patients with rare hereditary problems of galactose intolerance, the total lactase deficiency or glucose-galactose malabsorption or fructose intolerance should not take **UVISMA**.

4.5. Interaction with other medicines and other forms of interaction

Interactions between **UVISMA** and other medicines may lead to breakthrough bleeding and/or contraceptive failure. The following interactions have been reported in the literature.

Effects of other medicines on UVISMA

Management

Enzyme induction can already be observed after a few days of treatment. Maximal enzyme induction is generally seen within a few weeks. After the cessation of medicinal therapy enzyme induction may be sustained for about 4 weeks.

Short-term treatment

Women on treatment with enzyme-inducing medicines should temporarily use a barrier method or another method of contraception in addition to the COC. The barrier method must be used during the whole time of the concomitant medicinal therapy and for 28 days after its discontinuation. If the medicinal therapy runs beyond the end of the active tablets in the COC pack, the placebo tablets must be discarded and the next COC pack should be started right away.

Long-term treatment

In women on long-term treatment with hepatic enzyme-inducing active substances, another reliable, non-hormonal, method of contraception is recommended.

Hepatic Metabolism:

Interactions can occur with medicines that induce microsomal enzymes, which can result in increased clearance of sex hormones (e.g., phenytoin, barbiturates, bosentan, primidone, carbamazepine, rifampicin, and possibly also oxcarbazepine, topiramate, felbamate, griseofulvin and products containing St John’s Wort).

Also, HIV protease (e.g. ritonavir) and non-nucleoside reverse transcriptase inhibitors (e.g. nevirapine, efavirenz), and combinations of them, including combinations with HCV inhibitors have been reported to potentially affect hepatic metabolism and can increase or decrease plasma concentrations of oestrogen or progestins. The net effect of these changes may be clinically relevant in some cases.

Concomitant administration of strong CYP3A4 inhibitors can increase plasma concentrations of the oestrogen or the progestin or both.

In a reported multiple dose study with a drospirenone (3 mg/day) / ethinyl estradiol (0,02 mg/day) combination, co-administration of the strong CYP3A4 inhibitor ketoconazole for 10 days increased the $AUC_{(0\text{-}24h)}$ of drospirenone and ethinyl estradiol 2,7-fold and 1,4-fold respectively.

Etoricoxib doses of 60 to 120 mg/day have been reported to increase plasma concentrations of ethinyl estradiol 1,4 to 1,6-fold, respectively when taken concomitantly with a combined hormonal contraceptive containing 0.035 mg ethinyl estradiol.

Enterohepatic circulation of oestrogens may decrease when certain antibiotics are given, which may reduce ethinyl estradiol concentrations (e.g., penicillins, tetracyclines).

Women on treatment with any of these medicines should temporarily use a barrier method in addition to **UVISMA** or choose another method of contraception. With microsomal enzyme-inducing medicines, the barrier method should be used during the time of concomitant medicine administration and for 28 days after their discontinuation. Women on treatment with antibiotics (except rifampicin and griseofulvin) should use the barrier method until 7 days after discontinuation. If the period during which the barrier method is used runs beyond the end of the active tablets in the **UVISMA** pack, the inactive tablets should be omitted and the next pack of **UVISMA** should be started with the active tablets (i.e., without the usual inactive tablet interval).

The main metabolites of drospirenone in human plasma are generated without involvement of the cytochrome P450 system. Inhibitors of this enzyme system are therefore unlikely to influence the metabolism of drospirenone.

Effects of UVISMA on other medicines

UVISMA may affect the metabolism of certain other medicines. Plasma and tissue concentrations either increase (e.g., ciclosporin) or decrease (e.g., lamotrigine).

Based on reported *in vitro* inhibition studies and *in vivo* interaction studies in female volunteers using omeprazole, simvastatin and midazolam as marker substrates, an interaction of drospirenone at doses of 3 mg with the metabolism of other medicines is unlikely.

The reported clinical data suggests that ethinyl estradiol may inhibit the clearance of CYP1A2 substrates leading to a weak (e.g., theophylline) or moderate (e.g., tizanidine) increase in their plasma concentration.

Pharmacodynamic interactions:

Concomitant use with the medicines containing ombitasvir/paritaprevir/ritonavir and dasabuvir, with or without ribavirin may increase the risk of ALT elevations.

Therefore, **UVISMA** users must switch to an alternative method of contraception (e.g., progestogen-only contraception or non-hormonal methods) prior to starting therapy with this combination regimen. **UVISMA** can be restarted 2 weeks following completion of treatment with this combination regimen.

There is a potential for an increase in serum potassium in women taking **UVISMA** with other medicines that may increase serum potassium levels. Such medicines include angiotensin-II-receptor antagonists, potassium-sparing diuretics, and aldosterone antagonists. However, in studies evaluating the interaction of drospirenone (combined with estradiol) with an ACE inhibitor

or indomethacin, no clinically or statistically significant differences in serum potassium concentrations were reported.

No formal interaction studies were reported with tuberculosis or HIV treatments.

Note: The package insert information of concomitant medications should be consulted to identify potential interactions.

Laboratory tests:

The use of contraceptive steroids may influence the results of certain laboratory tests including biochemical parameters of liver, thyroid, adrenal and renal function, plasma levels of (carrier) proteins, e.g., corticosteroid-binding globulin and lipid/lipoprotein fractions, parameters of carbohydrate metabolism and parameters of coagulation and fibrinolysis. Changes generally remain within the normal laboratory range. Drospirenone causes an increase in plasma renin activity and plasma aldosterone induced by its mild anti-mineralocorticoid activity.

4.6. Fertility, pregnancy, and lactation

Pregnancy

UVISMA is contraindicated during pregnancy. (see section 4.3) If pregnancy occurs during treatment with **UVISMA** further intake should be stopped.

The increased risk of VTE during the postpartum period should be considered when re-starting **UVISMA.**

Breastfeeding

The use of **UVISMA** is not recommended during breastfeeding. Lactation may be influenced by COCs as they may reduce the quantity and change the composition of breast milk. Therefore, the use of

COCs should generally not be recommended until the breast-feeding mother has completely weaned her child. Small amounts of the contraceptive steroids and/or their metabolites may be excreted with the milk during COC use. These amounts may affect the child.

Fertility

UVISMA is indicated for the prevention of pregnancy.

4.7. Effects on ability to drive and use machines

No studies on the effects on the ability to drive and use machines have been reported. No effects on ability to drive and use machines have been reported in users of combined oral contraceptives such as **UVISMA.** However, patients should be advised that they may experience undesirable effects such as somnolence, dizziness, or vertigo during treatment (see section 4.8). Therefore, caution should be recommended when driving a vehicle or operating machinery. .

4.8. Undesirable effects

The frequencies of adverse reactions (ARs) reported with drospirenone/ethinyl estradiol are summarised in the table below. Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness.

System Organ Class	**Frequency Category**		
	Frequent	**Less Frequent**	**Frequency not known**
Infections and infestations		Candidiasis	
Blood and lymphatic system disorders		Anaemia, thrombocythemia	
Immune system disorders		Allergic reaction	Hypersensitivity

Endocrine disorders		Endocrine disorder	
Metabolism and nutrition disorders		Increased appetite, anorexia, hyperkalaemia, hyponatraemia, body weight changes, fluid retention, hypertriglyceridaemia	
Psychiatric disorders	Depressive mood, emotional lability	Changes in libido, nervousness, somnolence, anorgasmia, insomnia	altered mood
Nervous system disorders	Headache, migraine	Dizziness, paraesthesia, vertigo, tremor	
Eye disorders		Conjunctivitis, dry eye, eye disorder	Contact lens intolerance
Ear and labyrinth disorders		Hypoacusis	
Cardiac disorders		Tachycardia	
Vascular disorders		Hypertension, hypotension, thromboembolism, varicose vein, phlebitis vascular disorder, epistaxis, syncope, venous thromboembolism (VTE)	

		arterial thromboembolism (ATE), cerebrovascular accidents	
Respiratory, thoracic and mediastinal disorders		Asthma	
Gastrointestinal disorders	Nausea	Vomiting, dyspepsia, flatulence, gastritis, abdominal pain, diarrhoea, abdomen enlarged, gastrointestinal disorder, gastrointestinal fullness, hiatus hernia, oral candidiasis, constipation, dry mouth	
Hepatobiliary disorders		Biliary pain, Cholecystitis, liver tumors (benign and malignant), liver function disturbances	
Skin and subcutaneous tissue disorders		Acne, eczema, pruritus, rash, chloasma, alopecia, dermatitis acneiform, dry skin	urticaria, erythema multiforme

		erythema nodosum, hypertrichosis, skin disorder, skin striae, contact dermatitis, photosensitive dermatitis, skin nodule	
Musculoskeletal and connective tissue disorders		Back pain, pain in extremity, muscle cramps	
Reproductive system and breast disorders	Breast pain, * leukorrhoea,** vaginal moniliasis, menstrual disorder (metrorrhagia*** amenorrhoea), intermenstrual bleeding***	Vaginitis, breast discharge, vaginal candidiasis, pelvic pain, breast enlargement, fibrocystic breast, uterine / vaginal bleeding*, genital discharge, hot flushes, dysmenorrhoea, hypomenorrhoea, vaginal dryness, papanicolaou smear suspicious, libido decreased	

General disorders and administration site conditions		Asthenia, sweating increased, oedema, (generalised oedema, peripheral oedema, face oedema), malaise	

* including breast tenderness

** including vaginal discharge

*** bleeding irregularities usually subside during continued treatment

Reporting of suspected adverse reactions:

Reporting suspected adverse reactions after authorisation of the medicine is important. It allows continued monitoring of the benefit/risk balance of the medicine. Health care providers are asked to report any suspected adverse reactions to SAHPRA via the '**6.04 Adverse Drug Reaction Reporting form'**, found online under SAHPRA's publications:

https://www.sahpra.org.za/Publications/index/8

4.9. Overdose

On the basis of general experience with combined oral contraceptives, symptoms that may occur in case of taking an overdose of active tablets are nausea; vomiting; and, in young girls, slight vaginal bleeding. Treatment should be symptomatic and supportive.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

A 21.8.2 Progesterones with oestrogens

Pharmacotherapeutic group (ATC): Progestogens and oestrogens, fixed combinations

ATC Code: G03AA12

The contraceptive effect of combined oral contraceptives is based on the interaction of various factors, the most important of which are seen as the inhibition of ovulation and the changes in the cervical secretion.

Drospirenone exerts antiandrogenic activity.

Drospirenone is devoid of androgenic, estrogenic, glucocorticoid and anti-glucocorticoid activity.

5.2. Pharmacokinetic properties

Drospirenone

Absorption:

Orally administered drospirenone is reported to be rapidly and almost completely absorbed. Maximum concentrations of the active substance in serum of about 35 ng/mL are reported to be reached at about 1 to 2 hours after single ingestion. Bioavailability is reported to be between 76 and 85 %. It has been reported that the intake of food had no influence on the extent of absorption of drospirenone, but the maximum concentration was reduced in comparison to intake on an empty stomach.

Distribution:

After oral administration, serum drospirenone levels have been reported to decrease in two phases which are characterised by half-lives of 1,6 ± 0,7 hours and 27,0 ± 7,5 hours, respectively. Drospirenone is reported to bind to serum albumin and does not bind to sex hormone binding globulin (SHBG) or corticoid binding globulin (CBG). Only 3 to 5 % of the total serum active substance concentrations are present as free steroid. The ethinyl estradiol-induced increase in SHBG does not influence the serum protein binding of drospirenone. The mean apparent volume of distribution of drospirenone is reported to be 3,7 ± 1,2 L/kg.

Biotransformation:

Drospirenone is reported to be extensively metabolised after oral administration. The major metabolites in the plasma are the acid form of drospirenone, generated by opening of the lactone ring, and the 4,5-dihydro-drospirenone-3-sulphate, both of which are formed without involvement of the P450 system. Drospirenone is metabolised by cytochrome P450 3A4 and has reportedly demonstrated a capacity to inhibit this enzyme and cytochrome P450 1A1, cytochrome P450 2C9 and cytochrome P450 2C19 *in vitro*.

Elimination:

The metabolic clearance rate of drospirenone in serum is reported to be 1,5 ± 0,2 ml/min/kg. Drospirenone is excreted only in trace amounts in unchanged form. The metabolites of drospirenone are excreted with the faeces and urine at an excretion ratio of about 1,2 to 1,4. The half-life of metabolite excretion with the urine and faeces is about 40 hours.

Steady-state conditions:

During a treatment cycle, maximum steady-state concentrations of drospirenone in serum of about 60 ng/ml are reported to be reached between day 7 and day 14 of treatment. Serum drospirenone levels accumulated by a factor of about 3 as a consequence of the ratio of terminal half-life and dosing interval. Further accumulation of drospirenone levels beyond treatment cycles was reported between cycles 1 and 6 but thereafter, no further accumulation was reported.

Special populations:

- *Effect of renal impairment*:

Steady-state serum drospirenone levels in women with mild renal impairment (creatinine clearance CL_{cr}, 50 to 80 ml/min) were reported to be comparable to those of women with normal renal function (CL_{cr}, > 80 mL/min). The serum drospirenone levels were reported to be on average 37 % higher in

women with moderate renal impairment (CL_{cr}, 30 to 50 mL/min) compared to those in women with normal renal function. It has been reported that drospirenone treatment did not show any clinically significant effect on serum potassium concentration.

- *Effect of hepatic impairment:*

In women with moderate hepatic function (Child-Pugh B), mean serum drospirenone concentration-time profiles were reported to be comparable to those of women with normal hepatic function during the absorption/ distribution phases, with similar C_{max} values. The decline in serum drospirenone concentrations during the terminal disposition phase was reported to be about 1,8 times greater for the volunteers with moderate hepatic impairment than for the volunteers with normal hepatic function. An about 50 % decrease in apparent oral clearance (CL/f) was reported in volunteers with moderate hepatic impairment as compared to those with normal liver function. The reported decline in drospirenone clearance in volunteers with moderate hepatic impairment compared to normal volunteers did not translate into any apparent difference in terms of serum potassium concentrations between the two groups of volunteers.

Ethinylestradiol

Absorption:

Orally administered ethinyl estradiol is reported to be rapidly and completely absorbed. Peak serum concentrations of about 88 to 100 pg/mL are reported to be reached within 1 to 2 hours after single oral administration. Absolute bioavailability as a result of pre-systemic conjugation and first-pass metabolism is reported to be approximately 60 %. Concomitant intake of food has been reported to reduce the bioavailability of ethinyl estradiol in about 25 % of the investigated subjects while the maximum concentration was reduced in all subjects.

Distribution:

Serum ethinyl estradiol levels decrease in two phases; the terminal disposition phase is characterised by a half-life of approximately 24 hours. Ethinyl estradiol is reported to be highly but non-specifically bound to serum albumin (approximately 98,5 %) and induces an increase in the serum concentrations of SHBG. An apparent volume of distribution of about 5 L/kg was determined.

Biotransformation:

Ethinylestradiol is subject to pre-systemic conjugation in both the small bowel mucosa and the liver. Ethinyl estradiol is primarily metabolised by aromatic hydroxylation, but a wide variety of hydroxylated and methylated metabolites are formed, and these are present as free metabolites and as conjugates with glucuronides and sulphate. The metabolic clearance rate of ethinyl estradiol is reported to be about 5 mL/min/kg.

Elimination:

Ethinyl estradiol is not excreted in unchanged form to any significant extent. The metabolites of ethinyl estradiol are excreted at a urinary to biliary ratio of 4:6. The half-life of metabolite excretion is about 1 day.

Steady-state conditions:

Steady-state conditions are reported to be reached during the second half of a treatment cycle and serum levels of ethinyl estradiol accumulate by a factor of about 1,4 to 2,1

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Tablet Core for Active and Inactive

Colloidal silicon dioxide/colloidal anhydrous silica

Corn Starch/maize starch

hypromellose 2910

Lactose monohydrate

Magnesium stearate

Talc

Purified water

Film Coating Core (Active)

Opadry II Pink 31F84568

Purified Water

Film Coating Core (Inactive)

Opadry II White 33F28627

Purified Water

Composition of Opadry II Pink 31F84568:

HPMC 2910 hypromellose 15 cP

Iron oxide black

Iron oxide red

Lactose monohydrate

Macrogol/PEG 3350

Titanium dioxide

Composition of Opadry II White 33F28627:

HPMC 2910 Hypromellose 6 cP

Lactose monohydrate

Macrogol/PEG 3000

Titanium dioxide

6.2 Incompatibilities

Not applicable

6.3 Shelf life

24 Months

6.4 Special precautions for storage

Store at or below 30 ^{0}C. Protect from light.

6.5 Nature and contents of container

UVISMA (Drospirenone and Ethinyl Estradiol) Tablets are available in a co-packaged blister consisting of total 28 Tablets (24 active film coated tablets each containing 3 mg of Drospirenone & 0,02 mg of Ethinyl Estradiol and 4 inert film coated tablets). Such one ALU-PVC blister is packed in a carton along with package insert.

6.6 Special precautions for disposal <and other handling>

Return all unused or expired medicines to your pharmacist for safe disposal. Do not dispose of unused medicines in drains or sewage systems (e.g. toilets)

7. HOLDER OF CERTIFICATE OF REGISTRATION

Ranbaxy Pharmaceuticals (Pty) Ltd

14 Lautre Road

Stormill Ext.1

Roodepoort, 1724

South Africa

8. REGISTRATION NUMBER(S)

UVISMA: 48/21.8.2/1026

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

The date on the registration certificate of the medicine:

23 August 2022

10. DATE OF REVISON OF THE TEXT

The date on the registration certificate of the medicine:

23 August 2022