Premarin cream 0,625 mg

Final approved professional information - 12 December 2024

SCHEDULING STATUS: S2

1. NAME OF THE MEDICINE

PREMARIN® CREAM 0,625 mg

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each gram of PREMARIN cream contains 0,625 mg conjugated oestrogens in a non-liquefying base.

PREMARIN (conjugated oestrogens) is a mixture of oestrogens, obtained exclusively from natural

sources, occurring as the sodium salts of water-soluble oestrogen sulfates blended to represent the

average composition of material derived from pregnant mares' urine. It contains estrone, equilin, and 17α -

dihydroequilin, together with smaller amounts of 17α -estradiol, equilenin, and 17α -dihydroequilenin as

salts of their sulfate esters.

Excipients with known effect

Each gram of PREMARIN cream contains 1 % m/m benzyl alcohol.

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Vaginal cream.

PREMARIN cream is a white cream containing 0,625 mg conjugated estrogens per gram, in a non-

liquefying base.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

PREMARIN cream is indicated for the treatment of:

postmenopausal and senile vulvovaginitis

Pfizer Laboratories (Pty) Ltd Premarin cream 0,625 mg Final approved professional information – 12 December 2024

atrophic vaginitis

pruritus vulvae caused by atrophic changes in the vulval epithelium

dyspareunia associated with an atrophic vaginal epithelium

and for use prior to plastic pelvic surgery in menopausal cases

4.2 Posology and method of administration

Posology

Administration should be cyclic (e.g., three weeks on and one week off) and for short term use only.

For treatment of atrophic vaginitis

The lowest dose that will control symptoms should be chosen and PREMARIN should be discontinued as promptly as possible.

Attempts to discontinue or taper PREMARIN should be made at three- to six-month intervals.

Usual dosage

0,5 to 2 gram(s) daily, intravaginally, depending on the severity of the condition.

Special populations

Elderly use

The oestrogen-alone sub study of the Women's Health Initiative (WHI) reported an increased risk of stroke compared with placebo in postmenopausal women 65 years of age or older (see section 5.1).

A sub study of the Women's Health Initiative Memory Study (WHIMS), an ancillary study of WHI conducted in women aged 65 to 79, reported an increased risk of developing probable dementia when compared with placebo (see section 5.1).

Paediatric population

Clinical studies have not been conducted in the paediatric population. Safety and effectiveness in paediatric patients have not been established.

PREMARIN cream treatment of prepubertal girls may induce premature breast development and vaginal cornification and may induce uterine bleeding. Large and repeated doses of PREMARIN cream over an extended time period have been shown to accelerate epiphyseal closure and should therefore not be started before epiphyseal closure has occurred in order not to compromise final growth.

PREMARIN cream is not indicated in children.

Method of administration

For intravaginal use.

4.3 Contraindications

PREMARIN cream is contraindicated in patients with:

- known or suspected hypersensitivity to conjugated estrogens or to any of the excipients of PREMARIN (listed in section 6.1)
- known or suspected pregnancy (see section 4.6)
- undiagnosed abnormal genital bleeding
- personal and family history of known or suspected breast cancer
- history of non-cancerous breast diseases (atypical hyperplasia or lobular carcinoma in situ)
- previous treatment using radiation therapy to the chest or breast
- known or suspected estrogen-dependent neoplasia (e.g., endometrial cancer, endometrial hyperplasia)
- active or history of arterial thromboembolic disease (e.g., stroke, myocardial infarction)
- previous proven deep-vein thrombosis (DVT)
- previous pulmonary embolism
- inherited thrombophilia
- known protein C, protein S or antithrombin deficiency or other known thrombophilic disorders
- · active or chronic liver dysfunction or disease
- known inherited genetic mutations: BRCA1 and BRCA2 genes

Final approved professional information - 12 December 2024

early menstrual periods (before the age of 12 years)

• previous exposure to diethylstilbestrol (DES)

4.4 Special warnings and precautions for use

General

Systemic absorption may occur with the use of PREMARIN cream. Warnings and precautions associated

with oral PREMARIN treatment should be taken into account.

Cardiovascular risk

Estrogen Replacement Therapy (ERT) has been reported to increase the risk of stroke and deep venous

thrombosis (DVT).

Patients who have risk factors for thrombotic disorders should be kept under careful observation.

Stroke

In the estrogen-alone sub study of the Women's Health Initiative (WHI), (see section 5.1), a statistically

significant increased risk of stroke was reported in women receiving estrogen alone compared to women

receiving placebo (45 vs. 33 per 10 000 person-years). The increase in risk was observed during year

one and persisted. Should a stroke occur or be suspected, PREMARIN cream should be discontinued

immediately.

Coronary heart disease

In the estrogen alone sub study of WHI, no overall effect on coronary heart disease (CHD) events (defined

as non-fatal MI, silent MI, or death due to CHD) was reported in women receiving estrogen alone

compared to placebo.

Venous thromboembolism (VTE)

In the estrogen-alone sub study of the WHI, the increased risk of deep vein thrombosis (DVT), was

reported to be statistically significant (23 vs. 15 per 10 000 person-years). The risk of pulmonary embolism

(PE) was reported to be increased although it did not reach statistical significance. The increase in VTE

(DVT and PE) risk was demonstrated during the first two years (30 vs. 22 per 10 000 person-years).

Should a VTE occur or be suspected, PREMARIN cream should be discontinued immediately (see

section 5.1).

If feasible, PREMARIN cream should be discontinued at least 4 to 6 weeks before surgery of the type

associated with an increased risk of thromboembolism, or during periods of prolonged immobilisation.

Malignant neoplasms

Breast cancer

PREMARIN cream contains estrogen which, on prolonged use, may increase the risk of developing

breast cancer. A meta-analysis of prospective epidemiological studies from 1992 to 2018 reported a

significant increase in the risk of developing breast cancer in 55 575 women 40 - 59 years of age who

used menopausal hormone therapy (MHT). The risk increased steadily with duration of use and was

slightly greater for estrogen plus progestogen than estrogen only preparations, and the risk persisted for

more than 10 years after stopping the treatment. The relative risk (RR) to develop breast cancer for

estrogen plus progestogen preparations was 1,60 at 1 - 4 years and RR=2,08 at 5 - 14 years, while that

for estrogen only preparations were 1,17 at 1 – 4 years and 1,33 at 5 – 14 years. There was no risk to

develop breast cancer in women who started MHT at 60 years of age.

All women on PREMARIN cream should receive yearly breast examinations by a health care provider

and perform monthly breast self-examinations. Mammography evaluations should be done based on

patient age, risk factors, and prior mammogram results.

Endometrial cancer

The use of unopposed estrogens in women with an intact uterus has been associated with an increased

risk of endometrial cancer.

The reported endometrial cancer risk among unopposed estrogen users is about 2- to 12-fold greater

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Premarin cream 0,625 mg

Final approved professional information – 12 December 2024

than in non-users and appears dependent on duration of treatment and on estrogen dose. Most studies

show no significant increased risk associated with the use of estrogens for less than 1 year. The greatest

risk appears associated with prolonged use, with increased risks of 15- to 24-fold for 5 to 10 years or

more, and this risk has been shown to persist for at least 8 to 15 years after ERT is discontinued. Adding

a progestin to postmenopausal estrogen therapy has been shown to reduce the risk of endometrial

hyperplasia, which may be a precursor to endometrial cancer.

Clinical surveillance of all women taking estrogen or estrogen plus-progestin combinations is important.

Adequate diagnostic measures, including endometrial sampling when indicated, should be undertaken to

rule out malignancy in all cases of undiagnosed persistent or recurring abnormal uterine bleeding.

There is no evidence that the use of natural estrogens results in a different endometrial risk profile than

synthetic estrogens of equivalent estrogen dose.

Ovarian cancer

In some epidemiologic studies, the use of estrogen-only medicines has been associated with an

increased risk of ovarian cancer over multiple years of use. Other epidemiologic studies have not found

these associations.

Dementia

A sub study of the Women's Health Initiative Memory Study (WHIMS), an ancillary study of WHI

conducted in women aged 65 - 79, reported an increased risk of developing probable dementia when

compared with placebo. Since this study was conducted in women aged 65 - 79 years, it is unknown

whether these findings apply to younger postmenopausal women.

Gallbladder disease

A 2- to 4- fold increase in the risk of gallbladder disease requiring surgery in women receiving ERT has

been reported.

Final approved professional information - 12 December 2024

Visual abnormalities

Retinal vascular thrombosis has been reported in patients receiving estrogens. Discontinue PREMARIN

cream pending examination if there is sudden partial or complete loss of vision, or a sudden onset of

proptosis, diplopia, or migraine. If examination reveals papilledema or retinal vascular lesions,

PREMARIN cream should be withdrawn.

Hypercalcaemia

Administration of estrogens may lead to severe hypercalcaemia in patients with breast cancer and bone

metastases. If this occurs, PREMARIN cream should be stopped and appropriate measures be taken to

reduce the serum calcium level.

The following special precautions are relevant to PREMARIN cream and/or treatment with estrogens:

Angioedema

Exogenous estrogens may exacerbate symptoms of angioedema in women with hereditary angioedema.

Fluid retention

Because estrogens may cause some degree of fluid retention, patients with conditions which might be

influenced by this factor, such as cardiac or renal dysfunction, warrant careful observation when

PREMARIN cream is prescribed.

Hypertriglyceridaemia

Caution should be exercised in patients with pre-existing hypertriglyceridaemia since rare cases of large

increases of plasma triglycerides leading to pancreatitis have been reported with estrogen therapy in this

population. Women with pre-existing hypertriglyceridaemia should be followed closely during ERT.

Hepatic impairment

Estrogens may be poorly metabolised in patients with impaired liver function.

Past history of cholestatic jaundice

Final approved professional information – 12 December 2024

For patients with a history of cholestatic jaundice associated with past estrogen use or with pregnancy, caution should be exercised and in the case of recurrence, PREMARIN cream should be discontinued.

Addition of a progestin when a woman has not had a hysterectomy

Studies of the addition of a progestin for 10 or more days of a cycle of estrogen administration or daily with estrogen in a continuous regimen, have reported a lowered incidence of endometrial hyperplasia than would be induced by estrogen treatment alone. Endometrial hyperplasia may be a precursor to endometrial cancer.

There are, however, possible risks that may be associated with the use of progestins in ERT regimens compared to estrogen-alone regimens. These include an increased risk of breast cancer; adverse effects on lipoprotein metabolism, (e.g., lowering HDL, raising LDL); and impairment of glucose tolerance (see section 4.5).

Elevated blood pressure

In a small number of case reports, substantial increases in blood pressure during ERT have been attributed to idiosyncratic reactions to estrogens. In a large, randomised placebo-controlled clinical trial a generalised effect of ERT on blood pressure was not seen. Blood pressure should be monitored at regular intervals with estrogen use.

Exacerbation of other conditions

ERT may cause an exacerbation of asthma, epilepsy, migraine, diabetes mellitus, porphyria, systemic lupus erythematosus and hepatic haemangiomas, and should be used with caution in women with these conditions.

Exacerbation of endometriosis

Endometriosis may be exacerbated with administration of ERT. Addition of a progestin should be considered in women who have undergone hysterectomy, but are known to have residual endometriosis, since malignant transformation after ERT has been reported.

Pfizer Laboratories (Pty) Ltd Premarin cream 0,625 mg Final approved professional information – 12 December 2024

Hypocalcaemia

PREMARIN cream should be used with caution in individuals with disease that can predispose to severe hypocalcaemia.

Hypothyroidism

Estrogen administration leads to increased thyroid-binding globulin (TBG) levels. Patients dependent on thyroid hormone replacement therapy may require increased doses of their thyroid replacement therapy. These women should have their thyroid function monitored in order to maintain their free thyroid hormone levels in an acceptable range (see section 4.5).

Laboratory monitoring

PREMARIN cream administration should be guided by clinical response rather than by hormone levels (e.g., estradiol, FSH).

Uterine bleeding

Certain patients may develop abnormal uterine bleeding.

Latex condoms

PREMARIN cream has been shown to weaken latex condoms. The potential for PREMARIN cream to weaken and contribute to the failure of condoms, diaphragms, or cervical caps made of latex or rubber should be considered.

4.5 Interaction with other medicines and other forms of interaction

Data from a drug-drug interaction study involving conjugated estrogens and medroxyprogesterone acetate indicate that the pharmacokinetic disposition of both medicines are not altered when the medicines are co-administered. Other clinical drug-drug interaction studies have not been conducted with conjugated estrogens.

In vitro and *in vivo* studies have shown that estrogens are metabolised partially by cytochrome P450 3A4 (CYP3A4). Therefore, inducers or inhibitors of CYP3A4 may affect estrogen medicine metabolism.

Inducers of CYP3A4, such as St. John's Wort preparations (*Hypericum perforatum*), phenobarbital, phenytoin, carbamazepine, rifampicin and dexamethasone may reduce plasma concentrations of estrogens, possibly resulting in a decrease in the therapeutic effects and/or changes in the uterine bleeding profile. Inhibitors of CYP3A4, such as cimetidine, erythromycin, clarithromycin, ketoconazole, itraconazole, ritonavir and grapefruit juice, may increase plasma concentrations of estrogens and may result in side effects.

Laboratory test interactions

- Increased platelet count, decreased levels of antithrombin III, and increased plasminogen antigen and activity.
- Increased thyroid-binding globulin (TBG) leading to increased circulating total thyroid hormone, as measured by protein-bound iodine (PBI), T₄ levels (by column, or by radioimmunoassay) or T₃ levels (by radioimmunoassay). T₃ resin uptake is decreased, reflecting the elevated TBG. Free T₄ and free T₃ concentrations are unaltered.
- Other binding proteins may be elevated in serum, i.e. corticosteroid binding globulin (CBG), sex-hormone binding globulin (SHBG), leading to increased circulating corticosteroid and sex steroids respectively. Free hormone concentrations may be decreased. Other plasma proteins may be increased (angiotensin/renin substrate, alpha-1-antitrypsin, ceruloplasmin).
- Increased plasma high-density lipoprotein (HDL) and HDL₂ cholesterol subfraction concentrations, reduced low-density lipoprotein (LDL) cholesterol concentrations, increased triglyceride levels (see section 4.4).
- Impaired glucose tolerance.
- The response to metyrapone may be reduced.

4.6 Fertility, pregnancy and lactation

Pregnancy

PREMARIN cream should not be used during pregnancy (see section 4.3).

Breastfeeding

PREMARIN cream should not be used during lactation. Estrogen administration to nursing women have

Final approved professional information - 12 December 2024

been shown to decrease the quantity and quality of the breast milk. Detectable amounts of estrogens have been identified in the breast milk of mothers receiving estrogen-alone therapy. Caution should be exercised when PREMARIN cream is administered to a nursing woman.

4.7 Effects on ability to drive and use machines

No studies on the effect of ability to drive or use machines have been performed. However, the adverse effects of PREMARIN cream include dizziness, which could affect the ability to drive or use machines (see section 4.8).

4.8 Undesirable effects

Summary of the safety profile

Systemic absorption may occur with the use of PREMARIN cream. Adverse reactions associated with oral PREMARIN treatment should be taken into account.

Tabulated summary of adverse reactions

The following adverse reactions have been either reported with PREMARIN cream or are undesirable effects associated with estrogens. It is not possible to calculate frequencies for these events based on prescription data for patient exposure because the dose of PREMARIN cream varies from patient to patient and the medicine is available worldwide in various sized units.

System organ class	Adverse reaction		
Infections and infestations	Vaginitis, including vaginal candidiasis; cystitis-like syndrome		
Neoplasms benign malignant	Breast cancer; ovarian cancer; fibrocystic breast changes;		
and unspecified (including cysts	endometrial cancer; enlargement of hepatic haemangiomas;		
and polyps)	growth potentiation of benign meningioma		
Immune system disorders	Anaphylactic/anaphylactoid reactions, including urticaria and		
	angioedema; hypersensitivity		
Endocrine disorders	Precocious puberty		

Final approved professional information – 12 December 2024

Metabolism and nutrition	Glucose intolerance; hypocalcaemia (in patients with disease that			
disorders	can predispose to severe hypocalcaemia)			
Psychiatric disorders	Changes in libido; mood disturbances; depression; irritability;			
	dementia			
Nervous system disorders	Dizziness; headache; migraine; nervousness; cerebrovascular			
	accident/stroke; exacerbation of chorea			
Eye disorders	Intolerance to contact lenses; retinal vascular thrombosis			
Cardiac disorders	Myocardial infarction			
Vascular disorders	Pulmonary embolism; venous thromboembolism, venous			
	thrombosis			
Gastrointestinal disorders	Nausea; bloating; abdominal pain; vomiting; pancreatitis;			
	ischaemic colitis			
Hepato-biliary disorders	Gallbladder disease; cholestatic jaundice			
Skin and subcutaneous tissue	Alopecia; chloasma/melasma; hirsutism; pruritus; rash; erythema			
disorders	multiforme; erythema nodosum			
Musculoskeletal, connective	Arthralgias; leg cramps			
tissue and bone disorders				
Reproductive system and breast	Breakthrough bleeding/spotting; dysmenorrhoea/ pelvic pain;			
disorders	breast pain, tenderness, enlargement, discharge; application site			
	reactions of vulvovaginal discomfort including burning, irritation,			
	and genital pruritus; vaginal discharge; leucorrhoea;			
	gynaecomastia in males; increased size of uterine leiomyomata;			
	endometrial hyperplasia			
General disorders and	Oedema			
administration site conditions				
Investigations	Changes in weight (increase or decrease); increased			
	triglycerides; increases in blood pressure			

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicine is important. It allows

Page 13 of 19

Pfizer Laboratories (Pty) Ltd

Premarin cream 0,625 mg

Final approved professional information - 12 December 2024

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 Reactions Reporting Form",

found online under SAHPRA's publications:

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

4.9 Overdose

Symptoms of overdosage of estrogen-containing medicines in adults and children may include nausea,

vomiting, breast tenderness, dizziness, abdominal pain, drowsiness/fatigue; withdrawal bleeding may

occur in females. There is no specific antidote and further treatment if necessary, should be symptomatic

(see section 4.8).

Treatment is symptomatic and supportive.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Category and class: A 21.8.1 Estrogens

Mechanism of action

Endogenous estrogens are largely responsible for the development and maintenance of the female

reproductive system and secondary sexual characteristics. Although circulating estrogens exist in a

dynamic equilibrium of metabolic interconversions, estradiol is the principal intracellular human estrogen

and is substantially more potent than its metabolites, estrone and estriol, at the receptor level.

The primary source of estrogen in normally cycling adult women is the ovarian follicle, which secretes 70

to 500 mcg of estradiol daily, depending on the phase of the menstrual cycle. After menopause, most

endogenous estrogen is produced by conversion of androstenedione, which is secreted by the adrenal

cortex, to estrone in the peripheral tissues. Thus, estrone and the sulfate-conjugated form, estrone

sulfate, are the most abundant circulating estrogens in postmenopausal women.

Premarin cream 0,625 mg

Final approved professional information – 12 December 2024

Estrogens act through binding to nuclear receptors in estrogen-responsive tissues. To date, two estrogen receptors have been identified. These vary in proportion from tissue to tissue.

Circulating estrogens modulate the pituitary secretion of the gonadotropins, luteinizing hormone (LH) and follicle stimulating hormone (FSH), through a negative feedback mechanism. Estrogens act to reduce the elevated levels of these gonadotropins seen in postmenopausal women.

Pharmacodynamics

Currently, there are no pharmacodynamic data known for conjugated estrogens alone.

Clinical efficacy and safety

Women's Health Initiative Studies (WHI)

The Women's Health Initiative (WHI) enrolled approximately 27 000 predominantly healthy postmenopausal women in two sub studies to assess the risks and benefits of conjugated estrogens (CE) (0,625 mg daily) alone or in combination with medroxyprogesterone acetate (MPA) (0,625 mg/2,5 mg daily) compared to placebo. The primary endpoint was the incidence of coronary heart disease (CHD), i.e. non-fatal myocardial infarction (MI), silent MI and coronary death. The primary safety-endpoint was incidence of invasive breast cancer. The study did not evaluate the effects of hormone replacement therapy on menopausal symptoms.

The estrogen-alone sub study was stopped early because an increased risk of stroke was observed, and it was deemed that no further information would be obtained regarding the risks and benefits of estrogen alone in predetermined primary endpoints.

No overall effect on coronary heart disease (CHD) events (defined as non-fatal MI, silent MI, or death due to CHD) was reported in women receiving estrogen alone compared with placebo. Results of the estrogen-alone sub study which included 10 739 women (average age of 63 years, range 50 to 79; 75,3 % White, 15,1 % Black, 6,1 % Hispanic, 3,6 % Other); after an average follow-up of 7,1 years are presented in the table below.

Final approved professional information - 12 December 2024

In the estrogen-alone sub study of WHI, there was no significant overall effect on the relative risk (RR) of CHD (RR 0,95, 95 % nominal confidence interval [nCl] 0,78 - 1,16); a slightly elevated RR of CHD was reported in the early follow-up period and diminished over time. There was no significant effect on the RR of invasive breast cancer (RR 0,80, 95 % nCl 0,62 - 1,04) or colorectal cancer (RR 1,08, 95 % nCl 0,75 - 1,55) reported. Estrogen use was associated with a statistically significant increased risk of stroke (RR 1,37, 95 % nCl 1,09 - 1,73) and deep vein thrombosis (DVT) (RR 1,47, 95 % nCl 1,06 - 2,06). The RR of PE (RR 1,37, 95 % nCl 0,90 - 2,07) was not significantly increased. A statistically significant reduced risk of hip, vertebral and total fractures was reported with estrogen use (RR 0,65, 95 % nCl 0,45 – 0,94), (RR 0,64, 95 % nCl 0,44 - 0,93), and (RR 0,71, 95 % nCl 0,64 - 0,80), respectively. The estrogen-alone sub study did not report a statistically significant effect on death due to other causes (RR 1,08, 95 % nCl 0,88 - 1,32). There was no effect on overall mortality risk (RR 1,04, 95 % nCl 0,88 - 1,22). These confidence intervals are unadjusted for multiple looks and multiple comparisons.

Relative and absolute risk seen in the estrogen-alone substudy of WHI ^a					
Event	Relative risk	Placebo	CE		
	CE vs. placebo	n=5 429	n=5 310		
	(95 % nCl ^b)	Absolute risk per 10 000 women-years			
CHD events ^c	0,95 (0,78 – 1,16)	57	54		
Non-fatal MI ^c	0,91 (0,73 – 1,14)	43	40		
CHD death ^c	1,01 (0,71 – 1,43)	16	16		
All strokes ^c	1,33 (1,05 – 1,68)	33	45		
Ischaemic stroke ^c	1,55 (1,19 – 2,01)	25	38		
Deep vein thrombosis ^{c,d}	1,47 (1,06 – 2,06)	15	23		
Pulmonary embolism ^c	1,37 (0,90 – 2,07)	10	14		
Invasive breast cancer ^c	0,80 (0,62 – 1,04)	34	28		
Colorectal cancer ^c	1,08 (0,75 – 1,55)	16	17		
Hip fracture ^c	0,65 (0,45 – 0,94)	19	12		
Vertebral fractures ^{c,d}	0,64 (0,44 – 0,93)	18	11		

Relative and absolute risk seen in the estrogen-alone substudy of WHI ^a					
Lower arm/wrist fractures ^{c,d}	0,58 (0,47 – 0,72)	59	35		
Total fractures ^{c,d}	0,71 (0,64 – 0,80)	197	144		
Death due to other causese,f	1,08 (0,88 – 1,32)	50	53		
Overall mortality ^{c,d}	1,04 (0,88 – 1,22)	75	79		
Global Index ^g	1,02 (0,92 – 1,13)	201	206		

^a Adapted from numerous WHI publications.

- ^f All deaths, except from breast or colorectal cancer, definite/probable CHD, PE or cerebrovascular disease.
- ^g A subset of the events was combined in a "global index", defined as the earliest occurrence of CHD events, invasive breast cancer, stroke, pulmonary embolism, colorectal cancer, hip fracture, or death due to other causes.

Women's Health Initiative Memory Study

In the estrogen-alone Women's Health Initiative Memory Study (WHIMS), an ancillary study of WHI, a population of 2 947 predominantly healthy hysterectomised postmenopausal women aged 65 - 79 years was randomised to conjugated estrogens (CE) (0,625 mg daily) or placebo. The relative risk of probable dementia for CE alone vs. placebo was 1,49 (95 % CI 0,83 - 2,66). The absolute risk of probable dementia for CE alone vs. placebo was 37 vs. 25 cases per 10 000 women-years. Probable dementia as defined in this study included Alzheimer's disease (AD), vascular dementia (VaD) and mixed types (having features of both AD and VaD). The most common classification of probable dementia in both the treatment and placebo groups was AD. Since the sub study was conducted in women aged 65 - 79 years, it is unknown whether these findings apply to younger postmenopausal women (see section 4.4).

5.2 Pharmacokinetic properties

^b Nominal confidence intervals unadjusted for multiple looks and multiple comparisons.

^c Results are based on centrally adjudicated data for an average follow-up of 7,1 years.

^d Not included in global index.

^e Results are based on an average follow-up of 6,8 years.

Final approved professional information – 12 December 2024

Absorption

Conjugated oestrogens are soluble in water and are well-absorbed through the skin, mucous membranes,

and from the gastrointestinal tract. The vaginal delivery of oestrogens circumvents first-pass metabolism.

Distribution

The distribution of exogenous estrogens is similar to that of endogenous estrogens. Estrogens are widely

distributed in the body and are generally found in higher concentration in the sex hormone target organs.

Estrogens circulate in the blood largely bound to sex hormone binding globulin (SHBG) and albumin.

Biotransformation

Exogenous estrogens are metabolised in the same manner as endogenous estrogens. Circulating

estrogens exist in a dynamic equilibrium of metabolic interconversions. These transformations take place

mainly in the liver. Estradiol is converted reversibly to estrone, and both can be converted to estriol, which

is the major urinary metabolite. Estrogens also undergo enterohepatic recirculation via sulfate and

glucuronide conjugation in the liver, biliary secretion of conjugates into the intestine, and hydrolysis in the

gut followed by reabsorption. In postmenopausal women a significant proportion of the circulating

estrogens exists as sulfate conjugates, especially estrone sulfate, which serves as a circulating reservoir

for the formation of more active estrogens.

Elimination

Estradiol, estrone, and estriol are excreted in the urine, along with glucuronide and sulfate conjugates.

Special populations

No pharmacokinetic studies were conducted in special populations, including patients with renal or

hepatic impairment.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Benzyl alcohol (preservative)

Cetyl alcohol

Pfizer Laboratories (Pty) Ltd Premarin cream 0,625 mg Final approved professional information – 12 December 2024

Cetyl esters wax

Glycerin

Glyceryl monostearate

Methyl stearate

Mineral oil heavy

Propylene glycol monostearate

Sodium lauryl sulfate

White wax

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

18 months.

6.4 Special precautions for storage

Store in a cool dry place at or below 25 °C.

For external use only.

6.5 Nature and contents of container

Each pack contains a 42,5 g tube with one calibrated applicator.

6.6 Special precautions for disposal

No special requirements.

7. HOLDER OF CERTIFICATE OF REGISTRATION

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8. REFERENCE NUMBER

G3019 (Act 101/1965)

9. DATE OF FIRST AUTHORISATION

Not applicable (Old medicine)

10. DATE OF REVISION OF THE TEXT

12 December 2024

BOTSWANA: S2

Reg. No.: B931995

ZIMBABWE: PP

Reg. No.: 86/17.03/2030