Health Products Regulatory Authority

Summary of Product Characteristics

1 NAME OF THE MEDICINAL PRODUCT

Dovonex 50 micrograms/g Cream

2 QUALITATIVE AND QUANTITATIVE COMPOSITION

Each gram of cream contains 50 micrograms of calcipotriol (as the hydrate).

Excipient(s) with known effect: Contains cetostearyl alcohol. Contains diazolidinyl urea 3 mg/g.

For the full list of excipients, see section 6.1.

3 PHARMACEUTICAL FORM

Cream.

Soft, white cream.

4 CLINICAL PARTICULARS

4.1 Therapeutic Indications

Dovonex Cream is indicated for the topical treatment of plaque psoriasis (psoriasis vulgaris). Dovonex Cream may also be used in combination with topical corticosteroids.

4.2 Posology and method of administration

Adults:

The cream should be applied to the affected area once to twice daily. Twice daily application of the cream is often preferred initially.

Application of the cream can be reduced to once daily when appropriate. Maximum weekly dose shouldnot exceed 100g.

Dovonex Cream in combination with corticosteroids (e.g.administration of Dovonex in the morning and steroid in the evening) is effective and well tolerated.

Paediatric Population

Over 12 years:

Dovonex Cream should be applied to the affected area twice daily. Maximum weekly dose should not exceed 75g.

Aged6to12years:

Dovonex Cream should be applied to the affected area twice daily. Maximum weekly dose should not exceed 50g.

Under6years:

There is limited experience of the use of Dovonex Cream in this age group. A maximum safe dose has not been established.

There is no experience of use of Dovonex in combination with other psoriasis therapies in children.

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4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

Due to the content of calcipotriol Dovonex is contraindicated in patients with known disorders of calcium metabolism (see section 4.4).

4.4 Special warnings and precautions for use

Effects on calcium metabolism:

Due to the content of calcipotriol, hypercalcaemia may occur if the maximum weekly dose is exceeded. Serum calcium is normalised when treatment is discontinued. The risk of hypercalcaemia is minimal when there commendations relevant to calcipotriol are followed. The maximum weekly dose in adults is 100g of cream or ointment (equivalent to 5mg of calcipotriol) or 60ml of scalp solution (equivalent to 3mg of calcipotriol). When cream, ointmentor cutaneous solution are applied together, the total dose of calcipotriol should not exceed 5mg per week.

Local adverse reactions:

Dovonex Cream should not be applied to the face. The patient must be instructed in correct use of the product to avoid accidental transfer to the face and eyes (see section 4.8). Hands must be washed after each application to avoid accidental transfer to these areas.

Dovonex Cream should be used with caution in skin folds as this may increase the risk of developing skin irritation(see section 4.8).

UV exposure:

During Dovonex treatment physicians are recommended to advise patients to limit or avoid excessive exposure to either natural or artificial sunlight. Dovonex Cream should be used with UV radiation only if the physician and patient consider that the potential benefits outweigh the potential risks (see section 5.3).

Unevaluated use:

Due to lack of data, Dovonex Cream should be avoided in guttate, erythrodermic, exfoliative and pustular psoriasis.

Due to lack of data, Dovonex should be avoided in patients with severe liver and kidney disease.

Adverse reactions to excipients:

Dovonex Cream contains cetostearyl alcohol as an excipient which may cause local skin reactions (e.g.contact dermatitis).

Dovonex cream contains diazolidinyl urea as an excipient. Diazolidinyl urea releases formaldehyde, which may cause local skin reactions (e.g.contact dermatitis).

4.5 Interaction with other medicinal products and other forms of interactions

No interaction studies have been performed with Dovonex.

4.6 Fertility, pregnancy and lactation

<u>Pregnancy</u>

Safety for use of calcipotriol during human pregnancy has not been established. When calcipotriol was administered orally in animals, reproductive toxicity has been shown. Calcipotriol should not be used during pregnancy unless clearly necessary.

Breast-feeding

It is unknown whether calcipotriol is excreted in human milk. Caution should be exercised when prescribing Dovonex to women who breast-feed. The patient should be instructed not to use Dovonex on the breast when breast-feeding.

Fertility

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Studies in rats with oral doses of calcipotriol demonstrated no impairment of male and female fertility.

4.7 Effects on ability to drive and use machines

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

4.8 Undesirable effects

The estimation of the frequency of adverse reactions is based on a pooled analysis of data from clinical studies and spontaneous reporting.

The most frequently reported adverse reactions during treatment are skin irritation, pruritus and erythema. Systemic reactions (hypercalcaemia and hypercalciuria) have been reported. The risk of developing such reactions increases if the recommended total dose is exceeded (see section 4.4). Adverse reactions are listed by MedDRA SOC and the individual adverse reactions are listed starting with the most frequently reported. Within each frequency grouping, adverse reactions are presented in the order of decreasing seriousness.

Very common (≥1/10) Common (≥1/100 to < 1/10) Uncommon (≥1/1,000 to <1/100) Rare (≥1/10,000 to <1/1,000) Very rare (<1/10,000)

Hypersensitivity
Hypercalcaemia
orders
Skin irritation
Psoriasis aggravated
Dermatitis
Erythema
Rash*
Skin exfoliation
Skin burning sensation
Pruritus
Photosensitivity reaction
Skin oedema Seborrhoeic dermatitis Dry
skin
Urticaria
Peri orbital or face oedema
•
Hypercalciuria
tion site conditions
Application site pain
Application site pigmentation changes

^{*} Various types of rash reactions such as rash erythematous, rash maculo-papular, rash morbilliform, rash papular and rash pustular have been reported.

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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. Healthcare professionals are asked to report any suspected adverse reactions via HPRA Pharmacovigilance, Earlsfort Terrace, IRL - Dublin 2; Tel: +353 1 6764971; Fax: +353 1 6762517. Website: www.hpra.ie; e-mail: medsafety@hpra.ie.

4.9 Overdose

Use above the recommended dose may cause elevated serum calcium, which subsides when treatment is discontinued. The symptoms of hypercalcemia include polyuria, constipation, muscle weakness, confusion and coma.

5 PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmaco therapeutic group: Other anti psoriatics for topical use, ATC code: D05AX02

Calcipotriol is a vitamin D derivative. *In vitro* data suggest that calcipotriol induces differentiation and suppresses proliferation of keratinocytes but with less effect on calcium metabolism. This is the proposed basis for its effect in psoriasis.

5.2 Pharmacokinetic properties

Absorption through skin appears to be low but that which reaches the systemic circulation is rapidly metabolised to inactive substances.

5.3 Preclinical safety data

The effect on calcium metabolism is approximately 100 times less than that of the hormonally active form of vitamin D3.

A dermal carcinogenicity study in mice showed no indications of increased carcinogenic risks. Calcipotriol solution was applied topically for up to 24 months at doses of 3, 10 and 30 microgram/kg/day (corresponding to 9, 30 and 90 microgram/m²/day). The high-dose was considered to be the Maximum Tolerated Dose for dermal treatment of mice with calcipotriol. Survival was decreased at 10 and 30 microgram/kg/day, particularly in the males. The reduced survival was associated with an increased incidence of obstructive uropathy, most probably caused by treatment-related changes in the urinary composition. This is an expected effect of treatment with high doses of calcipotriol or other vitamin D analogues. There were no dermal effects and no dermal or systemic carcinogenicity.

Calcipotriol has shown maternal and fetal toxicity in rats and rabbits when given by the oral route at doses of 54 microgram/kg/day and 12 microgram/kg/day, respectively. The fetal abnormalities observed with concomitant maternal toxicity included signs indicative of skeletal immaturity (incomplete ossification of the pubic bones and forelimb phalanges, and enlarged fontanelles) and an increased incidence of supernumerary ribs.

In a study where albino hairless mice were repeatedly exposed to both ultraviolet (UV) radiation and topically applied calcipotriol for 40 weeks at the same dose levels as in the dermal carcinogenicity study, a reduction in the time required for UV radiation to induce the formation of skin tumours was observed (statistically significant in males only), suggesting that calcipotriol may enhance the effect of UV radiation to induce skin tumours. The clinical relevance of these findings is unknown.

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6 PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Macrogol Cetostearyl Ether Cetostearyl alcohol

Diazolidinyl urea
2, 4-Dichlorobenzyl alcohol
Disodium edetate
Disodium phosphate dihydrate
Glycerol 85%
Liquid paraffin
White soft paraffin
All-rac-α-tocopherol
Sodium hydroxide
Purified water

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

2 years.

After opening: 6 months

6.4 Special precautions for storage

Store below 25°C. Do not freeze.

6.5 Nature and contents of container

Lacquered aluminium tube with polyethylene screw cap. Pack sizes: 15 g, 30 g, 60 g, 100 g and 120 g.

Not all pack sizes may be marketed.

6.6 Special precautions for disposal and other handling

No special requirements.

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

7 MARKETING AUTHORISATION HOLDER

Leo Laboratories Limited 285 Cashel Road Dublin 12 Ireland

8 MARKETING AUTHORISATION NUMBER

PA0046/061/002

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9 DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 14th March 1994

Date of latest renewal: 25th February 2006

10 DATE OF REVISION OF THE TEXT

July 2018

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