BETAMETHASONE VALERATE—betamethasone valerate cream
Taro Pharmaceuticals U.S.A., Inc.

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Betamethasone Valerate
Cream USP, 0.1%
Rx only
FOR EXTERNAL USE ONLY. NOT FOR OPHTHALMIC USE.

DESCRIPTION
Betamethasone Valerate Cream USP, 0.1% contains betamethasone valerate USP, a synthetic
adrenocorticosteroid for dermatologic use. Betamethasone, an analog of prednisolone, has a high
degree of glucocorticoid activity and a slight degree of mineralocorticoid activity.

Betamethasone valerate is a white to practically white odorless crystalline powder practically insoluble
in water, freely soluble in acetone and chloroform, soluble in alcohol, and slightly soluble in benzene
and ether. Chemically it is 9-fluoro-11β,17,21-trihydroxy-16β-methylpregna-1, 4-diene-3,20-dione 17-valerate. The structural formula is:

![Structural formula of betamethasone valerate]

Molecular Formula: C\(_{27}\)H\(_{37}\)FO\(_6\)
Molecular Weight: 476.59

Each gram of Betamethasone Valerate Cream USP, 0.1% contains 1.2 mg betamethasone valerate
(equivalent to 1 mg betamethasone) in a soft, white, hydrophilic cream of ceteareth-15, cetyl alcohol,
mineral oil, polyethylene glycol 1000, propylene glycol, purified water, stearyl alcohol, white
petrolatum, phosphoric acid and sodium hydroxide (for pH adjustment); chlorocresol is present as a
preservative.

CLINICAL PHARMACOLOGY
Topical corticosteroids share anti-inflammatory, antipruritic and vasoconstrictive actions.

The mechanism of anti-inflammatory activity of the topical corticosteroids is unclear. Various
laboratory methods, including vasoconstrictor assays, are used to compare and predict potencies and/or
clinical efficacies of the topical corticosteroids. There is some evidence to suggest that a
recognizable correlation exists between vasoconstrictor potency and therapeutic efficacy in man.

Pharmacokinetics
The extent of percutaneous absorption of topical corticosteroids is determined by many factors
including the vehicle, the integrity of the epidermal barrier, and the use of occlusive dressings.

Topical corticosteroids can be absorbed from normal intact skin. Inflammation and/or other disease
processes in the skin increase percutaneous absorption. Occlusive dressings substantially increase the
percutaneous absorption of topical corticosteroids. Thus, occlusive dressings may be a valuable therapeutic adjunct for treatment of resistant dermatoses.

Once absorbed through the skin, topical corticosteroids are handled through pharmacokinetic pathways similar to systemically administered corticosteroids. Corticosteroids are bound to plasma proteins in varying degrees. Corticosteroids are metabolized primarily in the liver and are then excreted by the kidneys. Some of the topical corticosteroids and their metabolites are also excreted into the bile.

INDICATIONS AND USAGE
Topical corticosteroids are indicated for the relief of the inflammatory and pruritic manifestations of corticosteroid-responsive dermatoses.

CONTRAINDICATIONS
Topical corticosteroids are contraindicated in those patients with a history of hypersensitivity to any of the components of the preparation.

PRECAUTIONS

General
Systemic absorption of topical corticosteroids has produced reversible hypothalamic-pituitary-adrenal (HPA) axis suppression, manifestations of Cushing's syndrome, hyperglycemia, and glucosuria in some patients.

Conditions which augment systemic absorption include the application of the more potent steroids, use over large surface areas, prolonged use, and the addition of occlusive dressings.

Therefore, patients receiving a large dose of a potent topical steroid applied to a large surface area should be evaluated periodically for evidence of HPA axis suppression by using the urinary free cortisol and ACTH stimulation tests. If HPA axis suppression is noted, an attempt should be made to withdraw the drug, to reduce the frequency of application, or to substitute a less potent steroid.

Recovery of HPA axis function is generally prompt and complete upon discontinuation of the drug. Infrequently, signs and symptoms of steroid withdrawal may occur, requiring supplemental systemic corticosteroids.

Pediatric patients may absorb proportionally larger amounts of topical corticosteroids and thus be more susceptible to systemic toxicity (see PRECAUTIONS-Pediatric Use).

If irritation develops, topical corticosteroids should be discontinued and appropriate therapy instituted.

In the presence of dermatological infections, the use of an appropriate antifungal or antibacterial agent should be instituted. If a favorable response does not occur promptly, the corticosteroid should be discontinued until the infection has been adequately controlled.

Information For Patients

Patients using topical corticosteroids should receive the following information and instructions:
1. This medication is to be used as directed by the physician. It is for external use only. Avoid contact with the eyes.
2. Patients should be advised not to use this medication for any disorder other than that for which it was prescribed.
3. The treated skin should not be bandaged or otherwise covered or wrapped as to be occlusive unless directed by the physician.
4. Patients should report any signs of local adverse reactions especially under occlusive dressing.
Parents of pediatric patients should be advised not to use tight-fitting diapers or plastic pants on a child being treated in the diaper area, as these garments may constitute occlusive dressings.

**Laboratory tests**

The following tests may be helpful in evaluating the HPA axis suppression:

- Urinary free cortisol test
- ACTH stimulation test

**Carcinogenesis, Mutagenesis, and Impairment of Fertility**

Long-term animal studies have not been performed to evaluate the carcinogenic potential or the effect on fertility of topical corticosteroids.

Studies to determine mutagenicity with prednisolone and hydrocortisone have revealed negative results.

**Pregnancy**

**Teratogenic Effects**

*Pregnancy Category C*

Corticosteroids are generally teratogenic in laboratory animals when administered systemically at relatively low dosage levels. The more potent corticosteroids have been shown to be teratogenic after dermal application in laboratory animals. There are no adequate and well-controlled studies in pregnant women on teratogenic effects from topically applied corticosteroids. Therefore, topical corticosteroids should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. Drugs of this class should not be used extensively on pregnant patients, in large amounts, or for prolonged periods of time.

**Nursing Mothers**

It is not known whether topical administration of corticosteroids could result in sufficient systemic absorption to produce detectable quantities in breast milk. Systemically administered corticosteroids are secreted into breast milk in quantities *not* likely to have a deleterious effect on the infant. Nevertheless, caution should be exercised when topical corticosteroids are administered to a nursing woman.

**Pediatric Use**

*Pediatric patients may demonstrate greater susceptibility to topical corticosteroid-induced HPA axis suppression and Cushing's syndrome than mature patients because of a larger skin surface area to body weight ratio.*

Hypothalamic-pituitary-adrenal (HPA) axis suppression, Cushing's syndrome, and intracranial hypertension have been reported in children receiving topical corticosteroids. Manifestations of adrenal suppression in children include linear growth retardation, delayed weight gain, low plasma cortisol levels, and absence of response to ACTH stimulation. Manifestations of intracranial hypertension include bulging fontanelles, headaches, and bilateral papilledema.

Administration of topical corticosteroids to pediatric patients should be limited to the least amount compatible with an effective therapeutic regimen. Chronic corticosteroid therapy may interfere with the growth and development of children.

**ADVERSE REACTIONS**

The following local adverse reactions are reported infrequently with topical corticosteroids, but may occur more frequently with the use of occlusive dressings. These reactions are listed in an approximate
decreasing order of occurrence: burning, itching, irritation, dryness, folliculitis, hypertrichosis, acneiform eruptions, hypopigmentation, perioral dermatitis, allergic contact dermatitis, maceration of the skin, secondary infection, skin atrophy, striae and miliaria.

OVERDOSAGE
Topically applied corticosteroids can be absorbed in sufficient amounts to produce systemic effects (see PRECAUTIONS).

DOSAGE AND ADMINISTRATION
Apply a thin film of Betamethasone Valerate Cream USP, 0.1% to the affected skin areas one to three times a day. Dosage once or twice a day is often effective.

HOW SUPPLIED
Betamethasone Valerate Cream USP, 0.1% is supplied in 15 gram (NDC 51672-1269-1) and 45 gram (NDC 51672-1269-6) tubes.

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature].

Mfd. by: Taro Pharmaceuticals Inc., Brampton, Ontario, Canada L6T 1C1
Dist. by: Taro Pharmaceuticals U.S.A., Inc., Hawthorne, NY 10532

Revised: February, 2015
PK-0759-6
372

PRINCIPAL DISPLAY PANEL - 15 g Tube Carton
NDC 51672-1269-1
15 g
Betamethasone Valerate
Cream USP, 0.1%
FOR EXTERNAL USE ONLY.
NOT FOR OPHTHALMIC USE.
Rx only
Keep this and all medications out of the reach of children.
TARO
**BETAMETHASONE VALERATE**
betamethasone valerate cream

### Product Information

**Product Type**
HUMAN PRESCRIPTION DRUG

**Route of Administration**
TOPICAL

**Item Code (Source)**
NDC:51672-1269

### Active Ingredient/Active Moiety

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### Inactive Ingredients

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Product Characteristics

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Labeler - Taro Pharmaceuticals U.S.A., Inc. (145186370)

Establishment

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Revised: 4/2017

Taro Pharmaceuticals U.S.A., Inc.