FLUOCINONIDE- fluocinonide solution E. Fougera & Co. a division of Fougera Pharmaceuticals Inc.

FLUOCINONIDE TOPICAL SOLUTION USP, 0.05% FOR TOPICAL USE ONLY.

Rx only

NOT FOR OPHTHALMIC USE.

DESCRIPTION:

Fluocinonide Topical Solution USP, 0.05% is intended for topical administration. The active component is the corticosteroid Fluocinonide, which is the 21-acetate ester of fluocinolone acetonide. The chemical name of Fluocinonide is Pregna-1,4-diene-3,20-dione,21-(acetyloxy)-6,9-difluoro-11-hydroxy-16,17-[(1-methylethylidene)bis(oxy)]-,(6 α ,11 β ,16 α)-). It has a molecular formula of $C_{26}H_{32}F_{2}O_{7}$ and a molecular weight of 494.54.

It has the following structural formula:

Each mL of Fluocinonide Topical Solution USP, 0.05% contains: fluocinonide 0.5 mg in a solution of alcohol (35%), diisopropyl adipate, citric acid and propylene glycol. In this formulation, the active ingredient is totally in solution.

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. A significantly greater amount of fluocinonide is absorbed from the solution than from cream or gel formulations. Topical corticosteroids can be absorbed from normal intact skin. Inflammation and/or other disease processes in the skin increase the 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 (See **DOSAGE**

AND ADMINISTRATION).

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:

Fluocinonide Topical Solution USP, 0.05% is 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, the addition of occlusive dressings and dosage form. Therefore, patients receiving a large dose of a potent topical steroid applied to a large surface area or under an occlusive dressing 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**).

This preparation is not for ophthalmic use. Severe irritation is possible if fluocinonide topical solution contacts the eye. If that should occur, immediate flushing of the eye with a large volume of water is recommended.

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

As with any topical corticosteroid product, prolonged use may produce atrophy of the skin and subcutaneous tissues. When used on intertriginous or flexor areas, or on the face, this may occur even with short term use.

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. If there is contact with the eye(s) and severe irritation occurs, immediately flush with large volume of water.
- 2. Patients should be advised not to use this medication for any disorder other than for which it was

- prescribed.
- 3. The treated skin area 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 dressings.
- 5. 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 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 children 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:

Fluocinonide Topical Solution USP, 0.05% is generally applied to the affected area as a thin film from two to four times daily depending on the severity of the condition.

Occlusive dressings may be used for the management of psoriasis or recalcitrant conditions.

If an infection develops, the use of occlusive dressings should be discontinued and appropriate antimicrobial therapy instituted.

HOW SUPPLIED:

Fluocinonide Topical Solution USP, 0.05% is supplied in:

60 mL bottles NDC 0168-0134-60.

Store at 20°-25°C (68°-77°F) [see USP Controlled Room Temperature]. Avoid excessive heat above 40°C (104°F).

E. FOUGERA & CO.

A division of

Fougera

PHARMACEUTICALS INC.

Melville, New York 11747

I2134D

R07/13

#49

PACKAGE LABEL - PRINCIPAL DISPLAY PANEL - 60mL CONTAINER

NDC 0168-0134-60

FOUGERA®

FLUOCINONIDE TOPICAL SOLUTION USP, 0.05%

60 mL

FOR TOPICAL USE ONLY.
NOT FOR OPHTHALMIC USE.

Rx only

E. FOUGERA & CO. A division of Fougera Pharmaceuticals Inc. Melville, New York 11747



PACKAGE LABEL - PRINCIPAL DISPLAY PANEL - 60mL CARTON

NDC 0168-0134-60

FOUGERA®

FLUOCINONIDE TOPICAL SOLUTION USP, 0.05%

60 mL

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FLUOCINONIDE

fluocinonide solution

Product Information

Product Type HUMAN PRESCRIPTION DRUG Item Code (Source) NDC:0168-0134

Route of Administration TOPICAL

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
fluocinonide (UNII: 2W4A77YPAN) (fluocinonide - UNII:2W4A77YPAN)	fluocinonide	0.5 mg in 1 mL

Inactive Ingredients Ingredient Name Strength alcohol (UNII: 3K9958V90M) diisopropyl adipate (UNII: P7E6YFV72X) citric acid monohydrate (UNII: 2968PHW8QP) propylene glycol (UNII: 6DC9Q167V3)

Packaging

# Item Code	Package Description	Marketing Start Date	Marketing End Date	
1 NDC:0168-0134-60	1 in 1 CARTON	02/27/1995		
1	60 mL in 1 BOTTLE; Type 0: Not a Combination Product			
Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
Marketing Category ANDA		Marketing Start Date 02/27/1995	Marketing End Date	

Labeler - E. Fougera & Co. a division of Fougera Pharmaceuticals Inc. (043838424)

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