

Systemically administered corticosteroids appear in human milk and can suppress growth, interfere with endogenous corticosteroid production, or cause other untoward effects. It is not known whether topical administration of clobetasol propionate could result in sufficient systemic absorption to produce detectable quantities in human milk. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for clobetasol propionate foam and any potential adverse effects on the breastfed infant from clobetasol propionate foam or from the underlying maternal condition.

Clinical Considerations

To minimize potential exposure to the breastfed infant via breast milk, use clobetasol propionate foam on the smallest area of skin and for the shortest duration possible while breastfeeding. Advise breastfeeding women not to apply clobetasol propionate foam directly to the nipple and areola to avoid direct infant exposure.

8.4 Pediatric Use

Safety and effectiveness of clobetasol propionate foam in patients younger than 12 years of age have not been established; therefore, use in children younger than 12 years is not recommended.

Because of a higher ratio of skin surface area to body mass, pediatric patients are at a greater risk than adults of systemic toxicity when they are treated with topical drugs. They are, therefore, also at greater risk of adrenal insufficiency upon the use of topical corticosteroids. Rare systemic toxicities such as Cushing's syndrome, linear growth retardation, delayed weight gain, and intracranial hypertension have been reported in pediatric patients especially those with prolonged exposure to large doses of high potency topical corticosteroids.

Local adverse reactions including striae have also been reported with use of topical corticosteroids in pediatric patients.

Avoid use of clobetasol propionate foam in the treatment of diaper dermatitis.

8.5 Geriatric Use

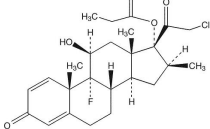
Clinical studies of clobetasol propionate foam did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range.

11 DESCRIPTION

Clobetasol propionate foam, 0.05%, is a white thermolabile hydroethanolic aerosol foam containing the active ingredient, clobetasol propionate, USP, a synthetic corticosteroid, for topical use. Clobetasol, an analog of prednisolone, has a high degree of glucocorticoid activity and a slight degree of mineralocorticoid activity.

Clobetasol propionate is 21-chloro-9-fluoro-11 β ,17-dihydroxy-16 β -methylpregna-1,4-diene-3,20-dione 17-propionate, with the empirical formula C₂₇H₃₇ClFO₆, a molecular weight of 466.97.

The following is the chemical structure:



Clobetasol propionate is a white to almost white crystalline powder, practically insoluble in water.

Each gram of clobetasol propionate foam contains 0.5 mg clobetasol propionate, USP. The foam also contains cetyl alcohol, citric acid anhydrous, dehydrated alcohol (60%), polysorbate 60, potassium citrate, propylene glycol, purified water, and stearyl alcohol pressurized with a hydrocarbon (propane/butane) propellant.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Corticosteroids play a role in cellular signaling, immune function, inflammation, and protein regulation; however, the precise mechanism of action in corticosteroid-responsive dermatoses is unknown.

12.2 Pharmacodynamics

In a controlled pharmacokinetic trial, 5 of 13 subjects experienced reversible suppression of the adrenals at any time during the 14 days of therapy with clobetasol propionate foam applied to at least 20% of involved body surface area. Of the 13 subjects studied, 1 of 9 with psoriasis was suppressed after 14 days and all 4 of the subjects with atopic dermatitis had abnormal cortisol levels indicative of adrenal suppression at some time after starting therapy with clobetasol propionate foam (See Table 1 below).

Table 1: Subjects With Reversible HPA Axis Suppression at Any Time During Treatment

Dermatosis	Clobetasol Propionate Foam
Psoriasis	1 of 9
Atopic Dermatitis*	4 of 4

*Clobetasol propionate foam is not indicated for non-scalp atopic dermatitis, as the safety and efficacy of clobetasol propionate foam in non-scalp atopic dermatitis has not been established. Use in children under 12 years of age is not recommended.

12.3 Pharmacokinetics

Topical corticosteroids can be absorbed from intact healthy skin. The extent of percutaneous absorption of topical corticosteroids is determined by many factors, including the product formulation and the integrity of the epidermal barrier. Occlusion, inflammation, and/or other disease processes in the skin may also increase percutaneous absorption. Once absorbed through the skin, topical corticosteroids are metabolized, primarily in the liver, and are then excreted by the kidneys. Some corticosteroids and their metabolites are also excreted in the bile.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term animal studies have not been performed to evaluate the carcinogenic potential of clobetasol propionate foam or clobetasol propionate.

In a 90-day repeat-dose toxicity study in rats, topical administration of clobetasol propionate foam at dose concentrations from 0.001% to 0.1% or from 0.03 mg/kg/day to 0.3 mg/kg/day of clobetasol propionate resulted in a toxicity profile consistent with long-term exposure to corticosteroids including adrenal atrophy, histopathological changes in several organ systems indicative of severe immune suppression, and opportunistic fungal and bacterial infections. A no observable adverse effect level could not be determined in this study. Although the clinical relevance of the findings in animals to humans is not clear, sustained glucocorticoid-related immune suppression may increase the risk of infection and possibly the risk for carcinogenesis. Clobetasol propionate was nonmutagenic in the Ames test, the mouse lymphoma test, the *Saccharomyces cerevisiae* gene conversion assay, and the *E. coli* WP2 fluctuation test. In the *in vivo* mouse micronucleus test, a positive finding was observed at 24 hours, but not at 48 hours, following oral administration at a dose of 2,000 mg/kg.

Studies in the rat following subcutaneous administration of clobetasol propionate at dosage levels up to 0.05 mg/kg per day revealed that the females exhibited an increase in the number of resorbed embryos and a decrease in the number of living fetuses at the highest dose.

14 CLINICAL STUDIES

14.1 Scalp Psoriasis

A well-controlled clinical trial evaluated 188 subjects with moderate to severe scalp psoriasis. Subjects were treated twice daily for 2 weeks with one of 4 treatments: clobetasol propionate foam, vehicle foam, a commercially available clobetasol propionate solution (TEMOVATE® Scalp Application), or vehicle solution. The efficacy of clobetasol propionate foam in treating scalp psoriasis at the end of the 2 weeks' treatment was superior to that of vehicle (foam and solution), and was comparable to that of TEMOVATE Scalp Application (Table 2).

Table 2. Efficacy Results From a Controlled Clinical Trial in Scalp Psoriasis

	Clobetasol Propionate Foam n (%)	Vehicle Foam n (%)
Total number of subjects	62	31
Subjects with treatment success*	39 (63)	1 (3)
Subjects with parameter Clear at endpoint (scalp psoriasis)		
Scaling - Clear at endpoint	42 (68)	3 (10)
Erythema - Clear at endpoint	27 (44)	2 (6)
Plaque Thickness - Clear at endpoint	41 (66)	3 (10)

*Defined as a composite of an Investigator's Global Assessment of "completely clear" or "almost clear," a plaque thickness score of 0, an erythema score of 0 or 1, and a scaling score of 0 or 1 at endpoint, scored on a severity scale of 0 to 4.

14.2 Non-scalp Psoriasis

Another well-controlled clinical trial evaluated 279 subjects with mild to moderate plaque-type psoriasis (mean body surface area at baseline was 6.7% with a range from 1% to 20%) of non-scalp regions. Subjects were treated twice daily for 2 weeks with clobetasol propionate foam or vehicle foam. The face and intertriginous areas were excluded from treatment. The efficacy of clobetasol propionate foam in treating non-scalp psoriasis at the end of 2 weeks' treatment was superior to that of vehicle foam (Table 3).

Table 3. Efficacy Results From a Controlled Clinical Trial in Non-scalp Psoriasis

	Clobetasol Propionate Foam n (%)	Vehicle Foam n (%)
Total number of subjects	139	140
Subjects with treatment success*	39 (28)	4 (3)

Physician's Static Global Assessment - Clear or almost clear at endpoint	94 (68)	30 (21)
Scaling - Clear or almost clear at endpoint	101 (73)	42 (30)
Erythema - Clear or almost clear at endpoint	88 (63)	35 (25)
Plaque Thickness - Clear at endpoint	44 (32)	5 (4)

*Defined as a composite of a Physician's Static Global Assessment score of 0 or 1, scaling score of 0 or 1, an erythema score of 0 or 1 and a plaque thickness score of 0, based on a severity scale of 0 to 5 at endpoint.

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

Clobetasol Propionate Foam, 0.05% contains 0.5 mg of clobetasol propionate, USP per gram. The white aerosol foam is available as follows:

- 50-g aluminum can NDC 51672-4193-3
- 100-g aluminum can NDC 51672-4193-7

16.2 Storage and Handling

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

FLAMMABLE. AVOID FIRE, FLAME, OR SMOKING DURING AND IMMEDIATELY FOLLOWING APPLICATION. Containers under pressure. Do not puncture or incinerate. Do not expose to heat or store at temperatures above 120°F (49°C). Keep out of reach of children.

17 PATIENT COUNSELING INFORMATION

See FDA-approved patient labeling (Patient Information and Instructions for Use)

Effects on Endocrine System

Clobetasol propionate foam may cause HPA axis suppression. Advise patients that use of topical corticosteroids, including clobetasol propionate foam, may require periodic evaluation for HPA axis suppression. Topical corticosteroids may have other endocrine effects. Concomitant use of multiple corticosteroid-containing products may increase the total systemic exposure to topical corticosteroids. Patients should inform their physician(s) that they are using clobetasol propionate foam if surgery is contemplated [see Warnings and Precautions (5.1)].

Ophthalmic Adverse Reactions

Advise patients to report any visual symptoms to their healthcare providers [see Warnings and Precautions (5.2)].

Local Adverse Reactions

Report any signs of local adverse reactions to the physician. Advise patients that local reactions and skin atrophy are more likely to occur with occlusive use or prolonged use [see Warnings and Precautions (5.3)].

Pregnancy

Advise pregnant women of the potential risk to a fetus and to use clobetasol propionate foam on the smallest area of skin and for the shortest duration possible [see Use in Specific Populations (8.1)].

Lactation

Advise a woman to use clobetasol propionate foam on the smallest area of skin and for the shortest duration possible while breastfeeding. Advise breastfeeding women not to apply clobetasol propionate foam directly to the nipple and areola to avoid direct infant exposure [see Use in Specific Populations (8.2)].

Important Administration Instructions

Inform patients of the following:

- Avoid use of clobetasol propionate foam on the face, underarms, or groin areas unless directed by the physician.
- Do not occlude the treatment area with bandage or other covering, unless directed by the physician.
- Discontinue therapy when control is achieved. If no improvement is seen within 2 weeks, contact the physician.
- For proper dispensing of foam, hold the can upside down and depress the actuator. Dispensing directly onto hands is not recommended (unless the hands are the affected area), as the foam will begin to melt immediately upon contact with warm skin.
- Limit treatment to 2 consecutive weeks. Use no more than 50 grams of clobetasol propionate foam per week, or more than 21 capfuls per week.
- Avoid use of clobetasol propionate foam in the diaper area, as diapers or plastic pants may constitute occlusive dressing.
- The product is flammable; avoid heat, flame, and smoking when applying this product.
- Do not use other corticosteroid-containing products without first consulting with the physician.

For additional information call 1-866-923-4914.

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**Instructions for Use
Clobetasol Propionate
(kloe bay' ta sol proe' pee oh nate)
Foam, 0.05%**

Important: Clobetasol propionate foam is for use on the skin only. Do not get clobetasol propionate foam in your eyes, mouth or vagina.

How to apply clobetasol propionate foam:

Step 1: Remove the cap and save for further use.

Step 2: Before applying clobetasol propionate foam for the first time, break the tiny plastic piece at the base of the can's rim by gently pushing back (away from the piece) on the nozzle. (see **Figure A**)



Figure A

Step 3: Turn the can upside down.

Push the button to dispense a small amount of clobetasole propionate foam into the cap of the can, or on your affected skin area. (see **Figure B**) This amount should be no more than 1½ capfuls, about the size of a golf ball.



Figure B

PHARMACIST-DETACH HERE AND GIVE INSTRUCTIONS TO PATIENT

- **Do not** dispense clobetasol propionate foam directly onto your hands (unless your hands are the affected areas), because the foam will begin to melt right away on contact with your warm skin.
- If your fingers are warm, rinse them in cold water first. Be sure to dry them thoroughly before handling the foam.
- If the can seems warm or the foam seems runny, run the can under cold water.

Step 4: Using your fingertips, gently massage a thin layer of clobetasol propionate foam into the affected skin areas until the foam disappears. (see **Figures C and D**)



Figure C



Figure D

Step 5: If you are treating areas with hair, such as the scalp, move any hair away so that the foam can be applied directly to the affected areas. (see **Figure E**)

- Repeat until the affected areas are treated.



Figure E

Keep the foam away from your eyes, as it will sting and may cause eye problems if there is frequent contact with your eyes. If the foam gets in your eyes, rinse them well with cold water right away. If the stinging continues, contact your healthcare provider right away.

Step 6: Wash your hands after applying clobetasol propionate foam. (see **Figure F**)



Figure F

- Throw away any of the unused medicine that you dispensed out of the can.

This Instructions for Use has been approved by the U.S. Food and Drug Administration.

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