

What is seborrheic dermatitis of the scalp?

Seborrheic dermatitis of the scalp is an embarrassing, sometimes itchy and flaky condition. It is a common condition that affects about 3% of the general population! It is frequently mistaken for dandruff, which is considered a mild form of seborrheic dermatitis.

The signs and symptoms of seborrheic dermatitis include greasy flaking, scaling, redness, itching, and burning of the scalp. Like dandruff, seborrheic dermatitis is a chronic condition that will persist and become more severe unless properly treated. Those who suffer from seborrheic dermatitis of the scalp are affected in multiple ways, from physical discomfort to awkward social situations. For example, many sufferers must avoid wearing dark clothing, fearful that their flakes will draw unwanted attention to their condition.

While seborrheic dermatitis is a chronic condition and cannot be prevented or cured, it can be effectively managed with ongoing treatment.

What causes seborrheic dermatitis of the scalp?

Seborrheic dermatitis of the scalp is a long-term condition that is thought to be caused by the overgrowth of a common fungus that naturally occupies the skin. It is normal for this fungus to be present and it is not contagious. It is not related to personal hygiene or how often you wash your hair.

Although seborrheic dermatitis of the scalp most often occurs in people between the ages of 20–50, this condition usually starts during puberty. Seborrheic dermatitis of the scalp can also affect infants. Most people with seborrheic dermatitis are otherwise healthy. However, people who also have rosacea, psoriasis, or severe acne are more likely to also have seborrheic dermatitis of the scalp. -4

Scratching, changes in humidity, and physical or emotional stress may cause your condition to worsen. Seasonal changes can also affect your condition, making it more severe in winter and early spring, and less severe in summer.

PEOPLE PAY LOTS OF ATTENTION TO THEIR HEADS.



FORTUNATELY, OUR RESEARCHERS HAVE, TOO.





What is LOPROX® Shampoo?

LOPROX Shampoo is the first and only antifungal shampoo specifically approved for seborrheic dermatitis of the scalp in adults? LOPROX Shampoo works well because it focuses directly on the source of the problem—the fungus that may cause seborrheic dermatitis.

Because this condition can increase the sensitivity of your scalp, a non-irritating treatment will be needed. LOPROX Shampoo is a gentle formulation, free of fragrance and dye. It safely and



effectively treats the area without harsh ingredients. In fact, more than 97% of users experience no negative effects:

Available by prescription only, LOPROX is a name trusted by dermatologists for more than 20 years.

The most common adverse reactions reported are pruritus (itching), burning, erythema (redness), seborrhea, and rash.

How do I use LOPROX® Shampoo?

LOPROX Shampoo should be used at least twice weekly, or as often as prescribed by your doctor.

Make LOPROX Shampoo a simple part of your weekly routine. On the days that you use LOPROX Shampoo, you do not need to use your regular shampoo. For best results, leave the rich, foamy lather of LOPROX Shampoo on your hair and scalp for 3 minutes before rinsing.

Seborrheic dermatitis is a chronic condition, so continued use is important. Be sure to have your prescription refilled as often as directed by your doctor. If used regularly, LOPROX Shampoo can help you keep your condition under control.



What can I expect?

You should begin to notice results in as soon as two to four weeks of regular use? Seborrheic dermatitis is a chronic condition, and LOPROX Shampoo can help you to conveniently and comfortably manage it.

Without regular treatment, seborrheic dermatitis can reappear without warning. Your doctor may direct you to continue using LOPROX shampoo even after symptoms improve. Stopping treatment early may not clear your condition, allowing it to return

or even worsen. Continue use as prescribed by your doctor.

LOPROX Shampoo is available by prescription only, so remember to obtain refills as directed by your doctor.

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Diary

Please check or rate the following as indicated

	LOPROX® Shampoo	Improvement of Seborrheic Dermatitis 1 (high) to 5 (low)	Comments (areas affected)
Week of	✓	1-5	Fill in
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Saturday			
Sunday			
Week of	✓	1-5	Fill in
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Saturday			
Sunday			

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Diary

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 Dermatology. WB Saunders Company, Philadelphia; 1992:1:466.
- 2. Lebwhol M. Difficult Diagnosis in Dermatology. Churchill Livingstone Inc. New York; 1988:102.
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Rx Only
FOR TOPICAL USE ONLY
NOT FOR OPHTHALMIC, ORAL OR INTRAVAGINAL USE
KEEP OUT OF REACH OF CHILDREN

DESCRIPTION

LOPROX® (ciclopirox) Shampoo 1% contains the synthetic antifungal agent, ciclopirox.

Each gram (equivalent to 0.96 mL) of LOPROX Shampoo contains 10 mg ciclopirox in a shampoo base consisting of Purified Water USP, Sodium Laureth Sulfate, Disodium Laureth Sulfate, Disodium Laureth Sulfate, Disodium Laureth Sulfate, Disodium Chloride USP, and Laureth-2.

IOPROX Shampoo is a colorless, translucent solution. The chemical name for ciclopirox is 6-cyclohexyl-1-hydroxy-4-methyl-2[1H]-pyridone, with the empirical formula C₁₂H₁₇NO₂ and a molecular weight of 207.27. The CAS Registry Number is [29342-050]. The chemical threater is:



CLINICAL PHARMACOLOGY

Mechanism of Action

Ciclopirox is a hydroxypyridone antifungal agent although the relevance of this property for the indication of seborrheic dermatitis is not known. Ciclopirox acts by chelation of polyvalent cations [Fa² or Alt-], resulting in the inhibition of the metal-dependent enzymes that are responsible for the dearodation of persocials within the funal cell.

Pharmacokinetics and Pharmacodynamics

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Study 1	220/380 (58%)	60/192 (31%)
Study 2	65/250 (26%)	32/249 (13%)

Efficacy for black patients was not demonstrated, although only 53 black patients were enrolled in the two pivotal studies.

Microbiology

Ciclopirox is fungicald in vitro against Malassezio furfur (Pilyrosporum spp.), P. ovale, and P. orbiculare. Ciclopirox acts by chelation of polyvalent cations (Fe¹ or AP¹), resulting in the inhibition of the metal-dependent enzymes that are responsible for the degradation of peroxides within the fungal cell.

The clinical significance of antifungal activity in the treatment of seborrheic dermatitis is not known.

INDICATIONS AND USAGE

LOPROX Shampoo is indicated for the topical treatment of seborrheic dermatitis of the scalp in adults.

CONTRAINDICATIONS

LOPROX Shampoo is contraindicated in individuals who have shown hypersensitivity to any of its components.

WADDING

LOPROX Shampoo is not for ophthalmic, oral, or intravaginal use.

Keep out of reach of children.

PRECAUTIONS

General

If a reaction suggesting sensitivity or irritation should occur with the use of LOPROX Shampoo, treatment should be discontinued and appropriate therapy instituted.

Contact of LOPROX Shampoo with the eyes should be avoided. If contact occurs, rinse thoroughly with water.

Seborheis dematilis may appear at puberty, however, no clinical studies have been done in patients younger than 16 years. There is no relevant clinical experience with pleases who have a listary of immonosuppression (e.g., extensive, persistent, or unusual distribution of dematomycosa, recent or recurring herpes zooter, or persistent herpes simplex), who are immunocompromised (e.g., HIV: infected actients and transplant potential, or who have a debates newsporthy.

Information for Patients

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- 1. Use LOPROX Shampoo as directed by the physician. Avoid contact with the eyes and mucous membranes. If contact occurs, rinse thoroughly with water. LOPROX Shampoo is for external use on the scalp only. Do not swallow.
- Use the medication for seborrheic dermatitis for the full treatment time even though symptoms may have improved. Notify the physician if there is no improvement after 4 weeks.
- 3. Inform the physician if the area of application shows signs of increased irritation (redness, itching, burning, blistering, swelling, or oozing) indicative of possible allergic reaction.
- 4. Not use the medication for any disorder other than that for which it is prescribed.

Carcinogenesis, Mutagenesis, and Impairment of Fertility:

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Pregnancy:

Teratogenic effects: Pregnancy Category B

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There are no adequate or well-controlled studies of topically applied ciclopirox in pregnant women. Because animal reproduction studies are not always predictive of human response, LOPROX Shampoo should be used during pregnancy only if clearly needed.

Nursing Mothers:

It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when LOPROX Shampoo is administered to a nursing woman.

Pediatric Use:

Seborrheic dermatitis may appear at puberty, however, no clinical studies have been done in patients younger than 16 years.

Geriatric Use

In clinical studies, the safety and blenbillity of LOPROX Shampoo in the population 65 years and older was comparable to that of younger subjects. Results of the efficacy analysis in those potients 65 years and older showed effectiveness in 25 of 85 [29%] patients treated with ICOPROX Shampoo, and in 15 of 61 [25%] patients treated with the vehicle, due to the small sample size, a statistically significant difference was not demonstrated. Other reported clinical experience has not identified differences in responses between the elderly and younger subject, but greater sensitivity to adverse effects in some older individuals cannot be ruled out.

ADVERSE REACTIONS

In 626 patients treated with LOPROX Shampoo twice weekly in the two pivotal clinical studies, the most frequent adverse events were increased tiching in 1% of patients, and application site reactions, such as burning, erythema, and itching, also in 1% of patients. Other adverse events occurred in individual patients only.

Adverse events that led to early study medication termination in clinical trials occurred in 1.5% (26/1738) of patients treated with LOPRCX Shampoon and 2.0% (12/661) of patients treated with shampoon whiche. The most common orderive events leading to be semination of study medication in either group was abourhee. In the LOPRCX Shampoo group, other adverse events included rash, purvlus, headache, ventricular trackproading, and skill autocete. In the Shampoon whiche group, other adverse events included stin shorted and rash.

DOSAGE AND ADMINISTRATION

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If a patient with seborrheic dermatitis shows no clinical improvement after 4 weeks of treatment with LOPROX Shampoo, the diagnosis should be reviewed.

HOW SUPPLIED

LOPROX® (ciclopirox) Shampoo 1% is supplied in 120 mt plastic bottles (NDC 99207-010-10). Discard unused product after initial treatment duration. Store between 15°C and 30°C (59°F and 86°F).

Manufactured for:
MEDICIS® Pharmaceutical Corp.
Scottsdale, AZ 85258
by: Patheon, Inc.
Mississauga, Ontario L5N 7K9
CANADA

PRESCRIBING INFORMATION AS OF FEBRUARY 2003



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In a study in patients with seborrheic dermatitis of the scalp, application of 5 mL ciclopirox shampoo 1% twice weekly for 4 weeks, with an exposure time of 3 minutes per application, resulted in detectable serum concentrations of ciclopirox in 6 out of 18 patients. The serum concentrations measured throughout the dosing interval on Days 1 and 29 ranged from 10.3 ng/mL to 13.2 ng/mL. Total urinary excretion of ciclopirox was less than 0.5% of the administered dose.

CLINICAL STUDIES

In two randomized, double-blind clinical trials, patients 16 years and older with seborrheic dermatitis of the scalp applied LOPROX Shampoo or its vehicle two times per week for 4 weeks. Patients who were immunocompromised, those with psoriasis or atopic dermatitis, women of childbearing potential not using adequate contraception, and pregnant or lactating women were excluded from the clinical studies. An evaluation of the overall status of the seborrheic dermatitis, and the presence and severity of erythema or inflammation, and scaling, was made at week 4, using a scale of 0 = none, 1 = slight, 2 = mild, 3 = moderate, 4 = pronounced, and 5 = severe. Effective treatment was defined as achieving a score of 0 (or a score of 1 if the baseline score was ≥ 3) simultaneously for status of the seborrheic dermatitis, erythema or inflammation, and scaling at Week 4. Ciclopirox shampoo was shown to be statistically significantly more effective than vehicle in both studies. Effectory results or the two studies are presented in the following table.

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