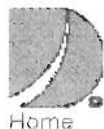


第17号

出典：インターネット Noritate（メトロニダゾール1%クリーム）
カナダ 酒さの治療に使用

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Noritate™ (metronidazole cream, 1%)

PRESCRIBING INFORMATION

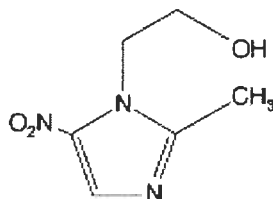
Prescribing Information as of June 2000(b).

NORITATE™ (metronidazole cream) Cream, 1%

FOR TOPICAL USE ONLY
(NOT FOR OPHTHALMIC USE)

DESCRIPTION

NORITATE™ (metronidazole cream) Cream, 1%, contains metronidazole, USP. Chemically, metronidazole is 2-methyl-5-nitro-1H-imidazole-1-ethanol. The molecular formula for metronidazole is C₆H₉N₃O₃. It has the following structural formula:



Metronidazole has a molecular weight of 171.16. It is a white to pale yellow crystalline powder. It is slightly soluble in alcohol and has a solubility in water of 10 mg/mL at 20° C. Metronidazole is a member of the imidazole class of anti-bacterial agents and is classified as an antiprotozoal and anti-bacterial agent.

NORITATE is an emollient cream; each gram contains 10 mg micronized metronidazole USP, in a base of purified water USP, stearic acid NF, glyceryl monostearate NF, glycerin USP, methylparaben NF, trolamine NF and propylparaben NF.

CLINICAL PHARMACOLOGY

Pharmacokinetics: When one gram dose of NORITATE cream, 1%, was applied in a single application to the face of 16 healthy volunteers, low concentrations of metronidazole were detected in the plasma of 7 of the volunteers. The mean ± SD

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C_{max} of metronidazole was 27.6 ± 7.3 ng/mL, which is about 1% of the value reported for a single 250 mg oral dose of metronidazole. The time to maximum plasma concentration (T_{max}) in the volunteers with detectable metronidazole was 8–12 hours after topical application.

Pharmacodynamics: The mechanisms by which metronidazole acts in reducing inflammatory lesions of rosacea are unknown. **Clinical Studies:** Safety and efficacy of NORITATE were evaluated in two randomized vehicle-controlled clinical studies for the treatment of rosacea, which excluded patients who had nodules, moderate or severe rhinophyma, dense telangiectases, plaque-like facial edema or ocular involvement and those who had a history of not responding to metronidazole therapy for rosacea. Of the patients included in the efficacy database (n=416), there were 142 men and 274 women. Endpoint efficacy data comparisons for patients treated with daily NORITATE or vehicle applications are listed below.

Inflammatory Lesion Counts and Erythema Severity Scores in Two Clinical Trials for Rosacea									
	Noritate				Vehicle				
	Study 1		Study 2		Study 1		Study 2		
	N	Result	N	Result	N	Result	N	Result	
Papules + Pustules									
Count									
Baseline	89	15	92	19	50	18	49	17	
Week-10	80	7*	82	8	45	15	41	12	
Reduction		49%*		58%*		17%		30%	
Papules Count									
Baseline	89	13	92	17	50	15	49	15	
Week-10	80	7*	82	7	45	12	41	11	
Reduction		41%*		55%*		14%		28%	
Erythema Score									

Baseline	89	2.2	92	2.3	50	2.2	49	2.2
Week-10	80	1.3*	82	1.4*	45	1.7	40	1.8
Reduction		42%		40%		25%		19%

*Statistically significant differences between NORITATE and vehicle groups with p < 0.05. Erythema scores: 0=none, 1=mild, 2=moderate and 3=severe.

Safety Studies: Studies of contact sensitization (n=258), phototoxicity (n=21), and photocontact sensitization (n=29) of NORITATE were conducted. No evidence of sensitization or phototoxicity was seen in these studies.

INDICATIONS AND USAGE

NORITATE is indicated for the topical treatment of inflammatory lesions and erythema of rosacea.

CONTRAINDICATIONS

NORITATE is contraindicated in those patients with a history of hypersensitivity to metronidazole or to any other ingredient in this formulation.

PRECAUTIONS

General: If a reaction suggesting local skin irritation occurs, patients should be directed to discontinue use of the medication. Conjunctivitis associated with topical use of metronidazole on the face has been reported. Contact with the eyes should be avoided. Metronidazole is a nitroimidazole and should be used with care in patients with evidence of, or history of, blood dyscrasia.

Information for Patients: Patients using NORITATE should receive the following information and instructions:

1. This medication is to be used as directed.
2. It is for external use only.
3. Avoid contact with the eyes.
4. Cleanse affected area(s) before applying NORITATE.
5. This medication should not be used for any disorder other than that for which it is prescribed.
6. Patients should report any adverse reaction to their physician.

Drug Interactions: Oral metronidazole has been reported to potentiate the anticoagulant effect of coumarin and warfarin resulting in a prolongation of

prothrombin time. Drug interactions should be kept in mind when NORITATE is prescribed for patients who are receiving anticoagulant treatment, although they are less likely to occur with topical metronidazole administration because of low absorption. (See CLINICAL PHARMACOLOGY, Pharmacokinetics section)

Carcinogenesis, Mutagenesis and Impairment of Fertility: Metronidazole has shown evidence of carcinogenic activity in a number of studies involving chronic, oral administration in mice and rats but not in studies involving hamsters. In several long term studies in mice, oral doses of approximately 225 mg/m²/day or greater (approximately 37 times the human topical dose on a mg/m² basis) were associated with an increase in pulmonary tumors and lymphomas. Several long term oral studies in the rat have shown statistically significant increases in mammary and hepatic tumors at doses >885 mg/m²/day (144 times the topical human dose).

Metronidazole has shown evidence of mutagenic activity in several in vitro bacterial assay systems. In addition, a dose-related increase in the frequency of micronuclei was observed in mice after intraperitoneal injections. An increase in chromosomal aberrations in peripheral blood lymphocytes was reported in patients with Crohn's disease who were treated with 200 to 1200 mg/day of metronidazole for 1 to 24 months. However, in another study, no increase in chromosomal aberrations in circulating lymphocytes was observed in patients with Crohn's disease treated with the drug for 8 months.

In one published study, using albino hairless mice, intraperitoneal administration of metronidazole at a dose of 45 mg/m²/day (approximately 7 times the human topical dose on a mg/m² basis) was associated with an increase in ultraviolet radiation-induced skin carcinogenesis. Neither dermal carcinogenicity nor photocarcinogenicity studies have been performed with NORITATE or any marketed metronidazole formulations.

Pregnancy: Teratogenic Effects: Pregnancy Category B. There are no adequate and well controlled studies with the use of NORITATE in pregnant women. Metronidazole crosses the placental barrier and enters the fetal circulation rapidly. No fetotoxicity was observed after oral administration of metronidazole to rats or mice at 200 and 20 times, respectively, the expected clinical dose. However, oral metronidazole has shown carcinogenic activity in rodents. Because animal reproduction studies are not always predictive of human response, NORITATE should be used during pregnancy only if clearly needed. **Nursing Mothers:** After oral administration, metronidazole is secreted in breast milk in concentrations similar to those found in the plasma. Even though blood levels taken after topical metronidazole application are significantly lower than those achieved after oral metronidazole, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the

importance of the drug to the mother and the risk to the infant.

Pediatric Use: Safety and effectiveness in pediatric patients have not been established.

ADVERSE REACTIONS

Safety data from 302 patients who used NORITATE (n=200) or vehicle control (n=102) once daily in clinical trials and experienced an adverse event considered to be treatment-related include: application site reaction (NORITATE 1, vehicle 1), condition aggravated (NORITATE 1, vehicle 0), paresthesia (NORITATE 0, vehicle 1), acne (NORITATE 1, vehicle 0), dry skin (NORITATE 0, vehicle 2). The majority of adverse reactions were mild to moderate in severity.

Two patients treated with NORITATE once daily discontinued treatment because of adverse events: one for a severe flare of comedonal acne and one for rosacea aggravated.

DOSAGE AND ADMINISTRATION

Areas to be treated should be cleansed before application of NORITATE. Apply and rub in a thin film of NORITATE once daily to entire affected area(s). Patients may use cosmetics after application of NORITATE.

HOW SUPPLIED

Cream – 30 gram aluminum tube NDC 0066-9850-30.
Keep out of the reach of children.

Storage Conditions: Store at controlled room temperature: 20 to 25° C (68 to 77° F).

Rx Only

Manufactured by:

PanGeo Quebec Pharma Inc.

Montreal, Quebec, Canada

Marketed by:

Dermik Laboratories, Inc.

Berwyn, PA 19312 USA

Made in Canada

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