

PRODUCT MONOGRAPH
INCLUDING PATIENT MEDICATION INFORMATION

PrFUCIDIN® H

Fusidic acid and Hydrocortisone acetate

2% / 1% Cream

Topical Antibiotic / Corticosteroid

LEO Pharma Inc.
Toronto, ON
M2H 3S8
www.leo-pharma.com/canada

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PART I: HEALTH PROFESSIONAL INFORMATION

1 INDICATIONS

FUCIDIN H (fusidic acid and hydrocortisone acetate) is indicated for the treatment of mild to moderately severe atopic dermatitis where *Staphylococcus aureus* is suspected as a contributing factor. The presence of Staph. aureus may be associated with crusting of lesions and/or erythema. FUCIDIN H has antibacterial activity which results in the eradication of Staph. aureus from the skin lesions of atopic dermatitis. In addition, FUCIDIN H also has anti-inflammatory activity.

To reduce the development of drug-resistant bacteria and maintain the effectiveness of FUCIDIN® H Cream and other antibacterial drugs, FUCIDIN® H Cream should be used only to treat infections that are proven or strongly suspected to be caused by bacteria.

2 CONTRAINDICATIONS

Fusidic acid and Hydrocortisone acetate 2% / 1% Cream is contraindicated in patients who are hypersensitive to this drug or to any ingredient in the formulation, including non-medicinal ingredient, or component of the container. For a complete listing, see Dosage Forms, Strengths, Composition and Packaging.

Due to the content of corticosteroid, FUCIDIN H is contraindicated in the following conditions:

- Primary skin infections caused by fungi, virus or bacteria, either untreated or uncontrolled by appropriate treatment (see Special Warnings and Precautions for Use section).
- Skin manifestations in relation to tuberculosis, either untreated or uncontrolled by appropriate therapy.
- Eruptions following vaccinations
- Perioral dermatitis and rosacea

3 DOSAGE AND ADMINISTRATION

3.1 Dosing considerations

There are no data from randomized, controlled clinical trials on use of FUCIDIN H in children under 3 years of age (see WARNINGS AND PRECAUTIONS section).

3.2 Administration

FUCIDIN H should be applied 3 times daily and gently massaged into the affected areas. In clinical trials the treatment period was 14 days. A shorter course should be considered if symptoms improve.

4 OVERDOSAGE

For topically applied fusidic acid, no information concerning potential symptoms and signs due to overdose administration is available. Cushing's syndrome and adrenocortical insufficiency may develop following topical application of corticosteroids in large amounts and for more than three weeks.

Systemic consequences of an overdose of the active substances after accidental oral intake are unlikely to occur. The amount of fusidic acid in one tube of FUCIDIN H does not exceed the oral daily dose of systemic treatment. A single oral overdose of corticosteroids is rarely a clinical problem.

For management of a suspected drug overdose, contact your regional Poison Control Centre.

5 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING

Route of Administration	Dosage Form / Strength/Composition	Non-medicinal Ingredients
topical	Fusidic acid 2% and Hydrocortisone acetate 1% Cream: white cream	Butylated hydroxyanisol, cetyl alcohol, glycerol (85%), liquid paraffin, potassium sorbate, polysorbate 60, white soft paraffin and purified water

Packaging

FUCIDIN H Cream: Available in aluminium tubes of 30 g covered with internal epoxyphenol lacquer. The tube has re-closable high density polyethylene screw cap.

6 WARNINGS AND PRECAUTIONS

When used under occlusive dressing, over extensive areas, or on the face, scalp, axillae and scrotum, sufficient absorption may occur giving rise to adrenal suppression and other systemic effects.

General

Long-term continuous topical therapy for more than 14 days with FUCIDIN H should be avoided.

Depending on the application site, possible systemic absorption of hydrocortisone acetate should always be considered during treatment with FUCIDIN H.

Endocrine and Metabolism

Reversible hypothalamic-pituitary-adrenal (HPA) axis suppression may occur following systemic absorption of topical corticosteroids. Application to extensive areas, too frequent application, or application under occlusive dressings may result in systemic absorption with symptoms of adrenal suppression.

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FUCIDIN H should be used with care in children as paediatric patients may be more susceptible to topical corticosteroid-induced HPA axis suppression and Cushing's syndrome than adult patients (see Adverse Reactions section).

Immune

Due to the immunosuppressant effect of corticosteroids, FUCIDIN H may be associated with increased susceptibility to infection, aggravation of existing infection, and activation of latent infection. It is advised to switch to systemic therapy if infection cannot be controlled with topical treatment (see Contraindications section).

This also prevents the risk that the immunosuppressive action of corticosteroid might mask any potential symptoms of infections due to antibiotic-resistant bacteria. Similarly, steroids also mask hypersensitivity reactions.

Susceptibility/Resistance

Development of Drug Resistant Bacteria

Prescribing FUCIDIN® H Cream in the absence of a proven or strongly suspected bacterial infection is unlikely to provide benefit to the patient and risks the development of resistant organisms.

Potential for Microbial Overgrowth

Bacterial resistance has been reported to occur with the topical use of fusidic acid. As with all antibiotics, extended or recurrent use of fusidic acid may increase the risk of developing antibiotic resistance. Limiting therapy with topical fusidic acid and hydrocortisone acetate to no more than 14 days at a time will minimise the risk of developing resistance.

Fertility

There are no clinical studies with topical FUCIDIN H regarding fertility.

Skin

FUCIDIN H cream contains butyl hydroxyanisole, cetyl alcohol and potassium sorbate. These excipients may cause local skin reactions (e.g. contact dermatitis). Butyl hydroxyl-anisole may also cause irritation to the eyes and mucous membranes. Due to content of corticosteroid, FUCIDIN H should be used with care near the eyes. Avoid getting FUCIDIN H into the eyes. Application of topical corticosteroids near the eye can potentially cause increased intraocular pressure, glaucoma, or cataracts. (see Adverse Reactions section).

Sensitization and irritation due to dermal applications of topical corticosteroids have been noted in rare instances.

Localized atrophy and striae, particularly on the flexor surfaces and on the face, may also develop.

6.1 Special Populations

6.1.1 Pregnant Women

The safety of fusidic acid and/or topical hydrocortisone during pregnancy has not been established. The use of FUCIDIN H during pregnancy requires that the potential benefits be

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weighed against the risks to the foetus.

Fusidic acid

Following systemic administration fusidic acid has been shown to penetrate the placental barrier. Animal studies have not demonstrated teratogenicity with fusidic acid.

Hydrocortisone acetate

Topical administration of corticosteroids to pregnant animals can cause abnormalities of foetal development, including cleft palate and intra-uterine growth retardation. There may, therefore, be a risk of such effects to the human foetus.

6.1.2 Breast-feeding

The safety of fusidic acid and/or topical hydrocortisone during lactation has not been established.

Following systemic administration Fusidic acid has been detected in the milk of nursing mothers.

The use of FUCIDIN H during lactation requires that the potential benefits be weighed against the risks to the nursing infant.

It is recommended to avoid applying FUCIDIN H on the breast to protect the nursing infant from unintentional oral drug uptake.

6.1.3 Pediatrics

Clinical trials with FUCIDIN H have not demonstrated any increased incidence of adverse effects in children 3 years and over. Paediatric patients may, however, demonstrate greater susceptibility to topical corticosteroid-induced hypothalamic-pituitary-adrenal axis suppression and to exogenous corticosteroid effects than mature patients because of greater absorption due to a larger skin surface area to body weight ratio. Therefore, excessive and prolonged use of FUCIDIN H, especially under occlusive conditions, should be avoided. There are no data from randomized, controlled clinical trials on the safety and efficacy of FUCIDIN H in children under 3 years of age.

7 ADVERSE REACTIONS

7.1 Adverse Reaction Overview

Clinical trials demonstrated that FUCIDIN H (fusidic acid and hydrocortisone acetate) is well tolerated and associated with few adverse effects. In clinical trials, only 3.2% of patients experienced adverse effects. Adverse effects were not serious, consisting of irritation at the application site (1.6%) and flare up of dermatitis (1.6%).

Fusidic acid has been reported to cause mild irritation at the application site, but did not usually require discontinuation of therapy. Reports of hypersensitivity reactions have been rare.

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Adverse effects are generally local and include: dryness, itching, burning, local irritation, striae, skin atrophy, atrophy of subcutaneous tissues, telangiectasia, hypertrichosis, change in pigmentation and secondary infection. If applied to the face, acne rosacea or perioral dermatitis can occur.

7.2 Post-Market Adverse Reactions

The following post-market adverse drug reactions have been reported from world wide experience with FUCIDIN H:

Immune system disorders: Hypersensitivity

Skin and subcutaneous tissue disorders: Dermatitis contact, Eczema, Rash

General disorders and administration site conditions: Application site reaction (incl. pruritus, burning and irritation)

Systemic undesirable class effects of mild corticosteroids, like hydrocortisone, include adrenal suppression especially during prolonged topical administration (see Special Warnings and Precautions for Use section).

Raised intra-ocular pressure and glaucoma may also occur after topical use of corticosteroids near the eyes, particularly with prolonged use and in patients predisposed to developing glaucoma (see Special Warnings and Precautions for Use section).

Dermatological class adverse reactions of mild corticosteroids like hydrocortisone include: Atrophy, dermatitis (incl. dermatitis contact, dermatitis acneiform and perioral dermatitis), skin striae, telangiectasia, rosacea, erythema, depigmentation, hypertrichosis and hyperhidrosis. Ecchymosis may also occur with prolonged use of topical corticosteroids.

8 DRUG INTERACTIONS

8.1 Overview

No interaction studies have been performed. Interactions with systemically administered medicinal products are considered minimal.

9 ACTION AND CLINICAL PHARMACOLOGY

9.1 Mechanism of Action

FUCIDIN H combines the antibacterial activity of fusidic acid with the anti-inflammatory activity of the mild potency corticosteroid hydrocortisone acetate.

The antibacterial action of fusidic acid results from inhibition of bacterial protein synthesis. The drug interferes with amino acid transfer from aminoacyl-tRNA to protein on the ribosomes. The spectrum of antibacterial activity of fusidic acid is primarily toward Gram positive organisms, demonstrating particularly high activity against Staph. aureus. Hydrocortisone acetate has anti-inflammatory, anti-pruritic, and vasoconstrictive properties. The mechanism of the anti-inflammatory activity of topical corticosteroids is generally unclear. However, corticosteroids are thought to induce phospholipase A₂ inhibitor proteins, preventing arachidonic acid release and the biosynthesis of potent mediators of inflammation.

Skin penetration by fusidic acid is comparable to that of glucocorticoids. As much as 2% of the amount of topically applied fusidic acid penetrates intact skin. Dermal absorption of hydrocortisone is considered to be approximately 1-5% of the administered dose. Absorption of hydrocortisone may be higher in certain body areas such as the face, groin, axilla, when the skin barrier is defective or on inflamed skin such as the lesions of atopic dermatitis.

The efficacy of FUCIDIN H in the treatment of mild to moderately severe atopic dermatitis has been compared with that of its' individual components, fusidic acid and hydrocortisone in clinical studies. For patients with Staph. aureus present on the lesions, FUCIDIN H was more effective than either hydrocortisone or fucidic acid based on a single efficacy criterion for alleviation of classical symptoms (erythema, scaling, oedema, itch, serous discharge, and crusting) and bacteriological eradication at completion of 14 days of treatment. There is no data available regarding relapse rate.

10 STORAGE AND STABILITY

Store below 30 °C. Use within 3 months of first opening the tube.

PART II: HEALTH PROFESSIONAL INFORMATION

11 PHARMACEUTICAL INFORMATION

Drug Substance

Proper name: fusidic acid / hydrocortisone acetate

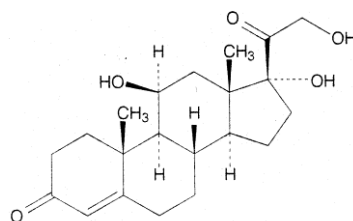
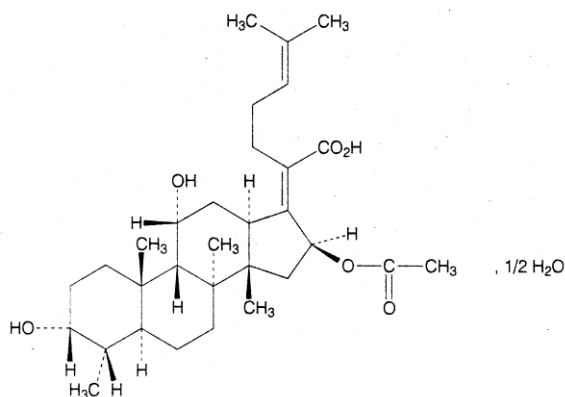
Chemical name: **Fusidic acid**
ent-(17*Z*)-16 α -(Acetyloxy)-3 β ,11 β -
dihydroxy-4 β ,8,14-trimethyl-18-nor-
5 β ,10 α -cholesta-17(20),24-dien-21-
oic acid hemihydrateMolecular formula: C₃₁H₄₈O₆, ½ H₂O

Molecular mass: 525.7

Hydrocortisone acetate11 β ,17-dihydroxy-3,20-dioxopregn-4-
en-21-yl acetateC₂₃H₃₂O₆

404.5

Structural formula:

Physicochemical
Properties:White or almost white crystalline
powder.
Insoluble in water. Freely soluble
in alcohol or chloroform.White or almost white crystalline
powder.
Slightly soluble in ethanol or
chloroform

12 PHARMACOLOGY

Vickers (1969), using excised human skin, demonstrated that fusidic acid is able to penetrate intact skin at a rate similar to that achieved by glucocorticoids. As much as 2.2% of fusidic acid penetrates intact skin. These results were confirmed by Knight (1969). Using radiolabeled commercial preparations of fusidic acid, Stuttgen and Bauer (1988) demonstrated that penetration of the entire skin thickness occurs in damaged skin. The concentration of sodium fusidate achieved in the subcutaneous tissue 30 minutes after an initial application of FUCIDIN 2% cream to excised skin with the horny layer artificially damaged by Telsafilm stripping was 2.6 µg/ml, which is 43 times the MIC90 for methicillin-susceptible *Staph. aureus*. Dermal absorption of hydrocortisone is considered to be approximately 1-5% of the administered dose. Absorption of both fusidic acid and hydrocortisone may be higher on injured skin.

13 MICROBIOLOGY

The microbiological effect of FUCIDIN H (fusidic acid and hydrocortisone acetate) is attributed to fusidic acid.

In Vitro Studies with Fusidic Acid

Fusidic acid has potent antibacterial activity toward Gram-positive bacteria and *Neisseria* species. Fusidic acid is most notable for its activity against *Staphylococci*, whether coagulase-positive or negative, and regardless of resistance to methicillin and related penicillins. It is also active against *Corynebacteria* and against many genera of strict anaerobes and microaerophiles. The efficacy of fusidic acid against different microorganisms is outlined in Table 1. However, fusidic acid has almost no antibacterial activity against Gram-negative organisms such as *E. Coli*, *Proteus*, *Klebsiella* and *Salmonella*. Fungi are also insensitive to fusidic acid.

Table 1. Antimicrobial Spectrum of Fusidic Acid

Microorganisms	MIC90%*	MIC-range*	MBC-range*
<i>SENSITIVE</i>			
<i>Gram-positive</i>			
<i>Staph. aureus</i> (methicillin-susceptible)	0.06	0.007-0.195	0.097-25.0
<i>Staph. aureus</i> (methicillin-resistant)	0.12	0.015-8.0	0.040-12.5
<i>Staph. epi.</i> (methicillin-susceptible)	0.25	0.024-8.0	0.024-12.5
<i>Staph. epi.</i> (methicillin-resistant)	0.50	0.03-≥32	ND
<i>Corynebacterium diphtheriae</i>	0.0044 (a)	ND	ND
<i>Clostridium tetani</i>	0.05 (a)	ND	ND
<i>Clostridium perfringens</i>	0.5	0.06- 1.0	ND
<i>Propionibacterium acnes</i>	1.0	≤0.06- 2.0	ND
Other <i>Corynebacterium</i> spp.	2.0	≤0.04- 12.5	ND
<i>Clostridium difficile</i>	2.0	≤0.25- 64	ND
Other <i>Clostridium</i> spp.	≤1.0	≤0.06- 1.0	ND
<i>Staphylococcus saprophyticus</i>	3.12	0.048-6.25	0.097-12.5
<i>Streptococcus faecalis</i>	6.25	1.56- 6.25	1.56 -50.0
<i>Streptococcus pyogenes</i>	12.5	<1.6 - 50	ND
<i>Streptococcus pneumoniae</i>	25.0	<0.25->64	ND

Microorganisms	MIC90%*	MIC-range*	MBC-range*
JK diptheroids	32.0		
<i>Gram-negative</i>			
Neisseria meningitidis	0.12	0.015- 0.5	ND
Legionella pneumophila	≤0.25 (a)	ND	ND
Neisseria gonorrhoeae	1.0	≤0.03- 8.0	ND
Bacteroides fragilis	2.0	0.5- 4.0	ND
Other Bacteroides spp.	≤2.0	≤0.06- 8.0	ND
<i>Others</i>			
Mycoplasma spp.	≤0.8 (a)	ND	ND
Mycobacterium tuberculosis	3.0 (a)	ND	ND
Nocardia asteroides	16.0	≤0.5 - 32.0	ND
Other Nocardia spp.	32.0	≤0.5 - >32.0	ND
RESISTANT			
<i>Other Gram-Negative</i>			
E. coli			
Pseudomonas			
Klebsiella			
Proteus			
Salmonella			
Shigella			
Pasteurella			

*ug/mL (a) MIC-value ND - No data

Resistance to Fusidic Acid

During more than 30 years of therapeutic use of fusidic acid, resistance by Staph. aureus has remained extremely low (<2%). An ongoing Canadian program has monitored resistance of clinical isolates of Staph. aureus to fusidic acid since 1986. As of 1994, over 12,500 strains of Staph. aureus have been tested with an overall resistance rate of 1.47%. The annual resistance rate has never exceeded 2%, indicating the stability of the anti-staphylococcal activity of fusidic acid.

Two mechanisms explain emergence of resistance to fusidic acid in Staph. aureus strains. The first one is chromosomal mutation. All populations of Staph. aureus produce resistant variants by chromosomal mutation at a frequency of 1 in 10⁶ to 10⁷. This type of resistance is readily detected *in vitro*, and is due to a modification of elongation factor G, the target at which fusidic acid inhibits bacterial protein synthesis. Such variants appear to be defective in that they grow more slowly than the parent strain, have a lower pathogenicity and subsequently revert to full sensitivity in the absence of fusidic acid. This type of mutation occurs at a high rate *in vitro*, but emergence of resistance in the clinical setting occurs less readily than is indicated by this observation. The second mechanism is plasmid-mediated resistance. These strains have been shown to be distinct from the chromosomal variants, as they do not have a modification of elongation factor G. Protein synthesis of cell free extracts is still inhibited by fusidic acid and there is no evidence of enzyme-mediated inactivation of fusidic acid. However, it has been suggested that there may be a permeability barrier at the cell surface, which reduces entry of

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the antibiotic. This theory is supported by the fact that they grow normally and are pathogenic. However, some plasmids that confer resistance to fusidic acid are unstable, which may make them inefficient at transmitting resistance.

No cross resistance between fusidic acid and other antibiotics has been found.

14 TOXICOLOGY

Acute Toxicity of Fusidic Acid

The following table summarizes the acute toxicity data obtained for mice and rats.

Drug Substance	Species	Route of Administration	LD ₅₀ (mg/kg b.w.)
Na Fusidate	Mice	Oral	860
		Intravenous	180
	Rats	Oral	3000
		Intravenous	140
Fusidic Acid	Mice	Oral	5400
		Intraperitoneal	355
	Rats - Adults	Oral	2263
	- Pups	Oral	443

The signs and symptoms of toxicity of fusidic acid and its salts in mice were decreased activity, ataxia, staggering, tremors, convulsions and increased respiratory rate in a few cases; in rats, the only symptoms preceding death were decreased activity, slight salivation and in some cases coma and increased respiration.

Dogs: Sodium fusidate was administered as a 10% solution by stomach tube to 2 fasted dogs in single doses of 250 and 500 mg/kg, respectively. Two other fasted dogs received the drug in the form of gelatin capsules in doses of 500 and 1500 mg/kg, respectively. No effects were noted in the dog receiving 500 mg/kg by capsules. The remaining 3 dogs vomited within 8 to 60 minutes; the dog given 1500 mg/kg was lethargic for 12 hours, but no other effects were observed during a 7-day observation period. A dose dependent increase in BSP retention times was observed.

Subacute Toxicity of Sodium Fusidate

Rats: Sodium fusidate was administered in the diet of 2 groups composed of 5 male and 5 female rats at doses of 0 or 270 mg/kg/day for 4 weeks. A similar group received 500 mg/kg/day for 1 week and subsequently 1200 mg/kg/day for 3 weeks. None of the animals died during testing and no significant lesions attributable to the drug were found. Except for a slight to moderate weight retardation in males in the high dose group, the average rates of growth of

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the treated animals were comparable to that of the controls.

In a more recent study, sodium fusidate was administered intravenously for 2 weeks to 2 groups of rats composed of 10 males and 10 females in a dose of 21.5 mg/kg per day diluted with saline to a concentration of 2.15 mg/mL. There were no mortalities and no changes in appearance or behaviour in any of the animals. No toxic or other adverse effects attributable to the drug were seen.

Dogs: Sodium fusidate was administered in the diet of 3 groups of 2 dogs each. One group served as the control, another group was dosed at 110 mg/kg/day for 4 weeks and the third group at 250 mg/kg/day for 1 week followed by 470 mg/kg/day for the next 3 weeks. None of the dogs showed any significant gross or micropathological alterations which were considered to be drug-related.

During the second and third weeks, the 2 dogs on the low dose showed reductions in appetite which were apparently due to poor palatability of the drug. One of the 2 dogs showed a slight weight loss. In the high dose group reductions in appetite limited drug intake to an average of 470 mg/kg/day. Both these animals had small weight losses, probably associated with reduced food intake.

Sodium fusidate was also administered intravenously to 2 male and 2 female dogs for 2 weeks at a dose of 21.5 mg/kg per day given in two equal doses of 62.5 mL each. Apart from local swelling at the site of catheterization, no changes were seen which were considered to be related to the administration of the sodium fusidate compound by gross or histopathological examination.

In a further study, 2 male dogs received daily, for 2 weeks, 2 infusions of 10.75 mg/kg of sodium fusidate in a volume of 62.5 mL administered by slow infusion over a period of 90 minutes. The infusion of sodium fusidate provoked a local intolerance manifested by a reddening and swelling at the site of cannulation. At the histological level, a venous intolerance reaction was noted.

Chronic Toxicity of Sodium Fusidate

Rats: Sodium fusidate was administered in the diet to 4 groups of 40 rats at doses of 0, 200, 420 or 840 mg/kg daily for 34 weeks. High dose females and to a lesser degree, high dose males showed a small retardation of weight gain. Slight neutrophilia was also noted in both high dose males and females. Ten of the 14 high dose males showed mild fatty metamorphosis of the liver without significant cytopathological change.

In another study, rats received sodium fusidate administered orally at a dose of 200 mg/kg/day for 24 weeks. No influence on growth or haematology and no other toxic effects were observed.

In a final study, fusidic acid was administered orally to a group of 25 male and 25 female rats at a dose of 400 mg/kg/day, 6 days a week for 5 months. No haematological changes or other toxic effects were noted.

Guinea Pigs: No toxic effects were seen when sodium fusidate was administered orally to guinea pigs at doses of 80 mg/kg/day for 50 days.

Dogs: Sodium fusidate was included daily in the diet of 4 groups of 5 dogs in amounts to result in doses of 0, 90, 190 or 300 mg/kg for 26 weeks. Significant changes observed were: i) weight loss with significantly reduced appetite in one animal on the high dose; however, all other test animals maintained or gained weight comparable to the control group in spite of slightly reduced food intake ascribed by the investigator to poor palatability, ii) one dog on the high dose showed definite increases in plasma bilirubin and BSP; one dog on the intermediate dose showed slight to moderate increases in BSP, SGPT and alkaline phosphatase; one dog on the low dose showed a moderate increase in alkaline phosphatase and a slight increase in plasma bilirubin.

In another study, post-mortem examination revealed mild to moderate liver cell damage in one high dose dog (400 mg/kg/day) at 26 weeks, but the other animals showed no morphological changes with this dose attributable to the drug.

Fertility and Reproduction Studies with Sodium Fusidate

Rats: Two groups, each comprised of 20 male and 20 female rats, received either 0 or 400 mg/kg sodium fusidate per day from 2 weeks before mating to weaning. Caesarian sections were performed on half the dams on the 20th day; the remainder were allowed to deliver naturally.

There were no significant differences between the treated and control dams with respect to percent resorptions, the condition of the uteri or the number and weights of the pups. No soft tissue abnormalities were found in the pups of either group but skeletal anomalies (control group 2 pups missing ribs and dosed group 1 pup occipital bone formation incomplete and 1 pup rib deformities) appeared in 4% of the pups in both groups. These rates were similar to that seen in the control group. The viability and lactation indices, reflecting neonatal development, were higher in the treated group than the control group, but all values were within normal limits.

Teratology Studies with Sodium Fusidate

Mice: Pregnant mice were divided into 3 groups of 16-19 animals each and given daily doses of 20, 100 and 200 mg/kg sodium fusidate by gavage from the 6th to 15th day of gestation. Another group of 23 pregnant mice, serving as controls, received just water by gavage. On the 18th day of pregnancy, half the dams were sacrificed. The remainder were allowed to go to term.

Sex distribution of fetuses and young, fetal weight, birth weight and weight increase were normal and similar for all groups. The mean incidence of resorption was 1.2, 1, 0.5 and 0.6 per dam for the 20, 100 and 200 mg/kg groups and control group, respectively. Average litter size in the treated group did not differ significantly from that of the controls. No fetal abnormalities were detected in any of the groups.

Rats: Pregnant rats were divided into 3 groups of 29-31 animals each and given daily doses of 20, 100 or 200 mg/kg sodium fusidate by gavage from the 3rd to the 15th day of gestation. Another group of 59 pregnant rats, serving as controls, received just water by gavage. On the 21st day of pregnancy, half the dams were sacrificed. The remaining dams were allowed to go to term.

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Litter size and sex distribution of the fetuses and young of the dosed animals were comparable to the controls with no dose-related differences. Birth weights and weight gain over a 4-month period were comparable for all groups. No fetal deformities were observed in any group.

Rabbits: Eighteen pregnant rabbits were treated orally with 125 mg sodium fusidate in tablet form once per day from the 6th to the 18th day of pregnancy. Eleven pregnant animals, serving as controls, received a placebo tablet each day. On the 30th day of pregnancy 9 treated animals and 3 controls were sacrificed. The remaining animals were allowed to go to term.

Sex distribution of fetuses and young, fetal and birth weights and weight gain were normal and similar for both groups. Three dead fetuses were found in each of 2 treated animals and in 1 control animal. Average litter size was lower in the treated group (4.8 young per litter) than in the control group (7.6 young per litter). Macroscopic examination of the young failed to reveal any teratogenic or other abnormalities.

Skin Tolerance Studies

Daily application of FUCIDIN (sodium fusidate) ointment to the ears of rabbits for a period of one month evolved neither general intolerance, local irritation to the eye, change in capillary permeability of the treated region, nor sensitization to the irritant effects of locally applied chloroform.

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**READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE
PATIENT MEDICATION INFORMATION**

**FUCIDIN® H
Fusidic acid and Hydrocortisone acetate 2% / 1% Cream**

Read this carefully before you start taking **FUCIDIN® H Cream** and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug. Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about **FUCIDIN® H Cream**.

What is FUCIDIN® H Cream used for?

FUCIDIN® H Cream is used to treat atopic dermatitis (eczema), a condition where the skin is red, swollen, itchy and infected by germs (bacteria).

Antibacterial drugs like FUCIDIN® H Cream treat only bacterial infections. They do not treat viral infections. Although you may feel better early in your treatment, FUCIDIN® H Cream should be used exactly as directed. Misuse or overuse of FUCIDIN® H Cream could lead to the growth of bacteria that will not be killed by FUCIDIN® H Cream (resistance). This means that FUCIDIN® H Cream may not work for you in the future. Do not share your medicine.

How does FUCIDIN® H Cream work?

FUCIDIN® H Cream contains 2 medicines that work together in different ways:

- fusidic acid: an antibiotic that kills bacteria.
- hydrocortisone acetate: a corticosteroid that reduces swelling, redness, pain and itchiness in the skin.

What are the ingredients in FUCIDIN® H Cream?

Medicinal ingredients: 2% fusidic acid (hemihydrate) and 1% hydrocortisone acetate.
Non-medicinal ingredients: butylated hydroxyanisol, cetyl alcohol, glycerol (85%), liquid paraffin, potassium sorbate, polysorbate 60, white soft paraffin and purified water.

FUCIDIN® H Cream comes in the following dosage forms:

FUCIDIN® H is a white cream.

Do not use FUCIDIN® H Cream if:

- you are allergic to any of the ingredients in FUCIDIN H or the container (aluminium).
- you have skin infections caused by a fungus, such as athlete's foot, ringworm.
- you have skin conditions caused by virus such as cold sores or chicken pox.
- you have skin conditions caused by tuberculosis.
- you have skin rashes following vaccinations.
- you have skin condition called perioral dermatitis.
- you have a skin condition called rosacea.

To help avoid side effects and ensure proper use, talk to your healthcare professional before you take FUCIDIN® H Cream. Talk about any health conditions or problems you may have, including if you:

- are pregnant or if you become pregnant during treatment with FUCIDIN® H Cream.
- are breastfeeding or intend to breastfeed.

Other warnings you should know about:

- Do not use Fucidin® H Cream over a long time (more than 14 days).
- Use Fucidin® H Cream exactly as directed. Do not apply more or less of it or apply it more often than prescribed by your doctor. If you misuse or overuse FUCIDIN® H Cream your infection may not be completely cured and the bacteria may become resistant to antibiotics.
- Do not apply it on broken or damaged skin or sensitive skin areas such as lips or genital area, except on the advice of a doctor.
- Do not wrap or bandage the treated area, except on the advice of a doctor.
- If you use Fucidin® H Cream in large amounts, it may make the chance of getting any side effects higher. Also, your skin may get more sensitive to this medicine.
- Do not let FUCIDIN® H get into your eyes. If the cream gets into the eye, this may lead to glaucoma or other eyes conditions.
- Fucidin® H Cream contains butyl hydroxyanisole, cetyl alcohol and potassium sorbate as non-medicinal ingredients. These ingredients may cause a red, itchy rash (Contact dermatitis) on your skin where Fucidin® H Cream is applied. Butyl hydroxyl-anisole may also cause irritation to the eyes and mucous membranes (such as lips or genital area).

Tell your healthcare professional about all the medicines you take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.

The following may interact with FUCIDIN® H Cream:

The use of FUCIDIN® H Cream with other medicines has not been studied. However, since medicines can interact with each other, tell your healthcare professional if you are using other medicines to treat your atopic dermatitis. In particular, tell them if you are using medicines that contain corticosteroids.

How to take FUCIDIN® H Cream:

Adults and children 3 years of age and older:

Apply the cream to the affected areas 3 times per day for a maximum of 2 weeks.

Overdose:

In case of drug overdose or accidental swallowing of FUCIDIN® H Cream, contact your healthcare professional, hospital emergency department or regional Poison Control Centre immediately, even if there are no symptoms.

Missed Dose:

If you forget to use FUCIDIN® H Cream, use it as soon as you remember. Next time, follow your regular application routine.

What are possible side effects from using FUCIDIN® H Cream?

These are not all the possible side effects you may feel when taking FUCIDIN® H Cream. If you experience any side effects not listed here, contact your healthcare professional. Please also see Warnings and Precautions.

Side effects from using FUCIDIN® H Cream may include:

- itching, burning or irritation in the area where the medication is used
- various types of skin rashes (dermatitis) in the area where the medication is used
- thinning skin, stretch marks or surface veins
- skin redness
- lightening of your skin colour
- changes in the growth of your body hair
- excessive sweating

Serious side effects and what to do about them			
Symptom / effect	Talk to your healthcare professional		Stop taking drug and get immediate medical help
	Only if severe	In all cases	
UNCOMMON Allergic reactions: dizziness, itching, severe rash, swelling (mouth, throat, lips, hands), trouble breathing.			✓
Worsening of eczema: increased itching, redness and swelling.		✓	
RARE Adrenal effects: fatigue, increased urination/thirst, problems controlling blood sugar levels, weakness, weight loss, delayed weight gain and slow growth in children.		✓	
Glaucoma: hazy or blurred vision, severe eye and head pain, nausea or vomiting (accompanying severe eye pain), sudden sight loss.		✓	

If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, talk to your healthcare professional.

Reporting Side Effects

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting (<https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada/adverse-reaction-reporting.html>) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

Storage:

Store below 30°C. Use within 3 months of first opening the tube.

Keep out of reach and sight of children and pets.

If you want more information about FUCIDIN® H Cream:

- Talk to your healthcare professional
- Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the Health Canada website (<https://www.canada.ca/en/health-canada/services/drugs-health-products/drug-products/drug-product-database.html>); the manufacturer's website www.leo-pharma.ca, or by calling 1-800-263 4218.

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Last Revised