ERYTHROMYCIN- erythromycin ointment Fera Pharmaceuticals, LLC

Disclaimer: This drug has not been found by FDA to be safe and effective, and this labeling has not been approved by FDA. For further information about unapproved drugs, click here.

January 9, 2024

IMPORTANT PRESCRIBING INFORMATION

Subject:

Temporary Importation of Steri-Med Pharma, Inc.'s Erythromycin Ophthalmic Ointment 5mg/g to Address Drug Shortage

Dear Healthcare Provider,

In order to address the current drug shortage of Erythromycin Ophthalmic Ointment, Fera Pharmaceuticals, LLC (Fera), in conjunction with Steri-Med Pharma, Inc. (Steri-Med), is coordinating with the U.S. FDA Drug Shortage Staff to increase its availability in the U.S. market by temporary importation of non-FDA approved product from Canada. Effective immediately and during this temporary period, Fera will distribute the following product:

Product Name and Drug Identification National Drug Code (NDC) Size Description Number (DIN) Erythromycin 1 g Tube 02326663 48102-057-11 Ophthalmic Ointment USP, 5 mg/g The linear barcode on the imported product may not register accurately on U.S. scanning systems. A linear NDC barcode is provided

Table 1: Imported Product Information

This supply of Erythromycin Ophthalmic Ointment is approved and marketed in Canada, under DIN 02326663, and manufactured by Steri-Med (previously known as Sterigen), a facility licensed by Health Canada. At this time, no other entity except Steri-Med or its distributor Fera is authorized by the FDA to import or distribute Steri-Med's Erythromycin Ophthalmic Ointment in the U.S.

above to assist with input by U.S.

scanning system.

It is important to note the following:

- The strength and qualitative composition of the imported drug product are the same as the FDA- approved drug product. Both also meet the USP monograph specification.
- The linear barcode on the imported product label may not register

accurately on U.S. scanning systems. Institutions should manually input the product information into their systems to confirm that barcode systems do not provide incorrect information when the product is scanned. Alternative procedures should be followed to assure that the correct drug product is being used and administered to individual patients. The linear barcode is provided in the Table 1 above and Appendix 1 to assist with input of product information in the institutional setting.

In addition, the carton of the imported product does not include a product identifier as required under the Drug Supply Chain Security Act (DSCSA). Specifically, each package does not include the NDC, unique serial number, lot number, and expiration date in both human-readable and a two-dimensional data matrix barcode. Additionally, the imported product may not be accompanied with DSCSA product tracing documentation (transaction information, transaction history, and transaction statement).

• The drug product being distributed by Fera Pharmaceuticals, LLC is approved in Canada. The Prescribing Information (PI) and Patient Medication Information (Medication Guide) reviewed and approved by Health Canada differ from the full prescribing information for the current U.S. FDA Reference Standard (RS). The U.S. FDA label does not contain a Medication Guide.

In particular, the FDA label provides more detailed information regarding DESCRIPTION, CLINICAL PHARMACOLOGY, USAGE during pregnancy and in infants, and in PRECAUTIONS.

Please refer to the package insert for the U.S. FDA-approved Erythromycin Ophthalmic Ointment USP, 5 mg/g for full prescribing information.

Table 2. Comparison Between the FDA-approved vs. Steri-Med Carton and Tube Labels





Table 3. Comparison Between the FDA-approved vs. Steri-Med Prescribing Information

PACKAGE INSERT SECTION	FDA-Approved RS Label	Steri-Med Label
DESCRIPTION	Erythromycin Ophthalmic Ointment belongs to the macrolide group of antibiotics. It is basic and readily forms a salt when combined with an acid.	THERAPEUTIC CLASSIFICATION
	The base, as crystals or powder, is slightly soluble in water, moderately soluble in ether, and readily soluble in alcohol or chloroform. Erythromycin ((3R*,4S*,5S*,6R*,7R*,9R*,11R*,12R*,13S*,14R*)-4-[(2,6-dideoxy-3-C-methyl-3-0-methyl-α-L-ribo-hexopyranosyl)oxy]-14-ethyl-7,12,13-trihydroxy-3,5,7,9,11,13-hexamethyl-6-[[3,4,6-trideoxy-3-(dimethylamino)-β-D-xylo-hexopyranosyl]oxy]oxacyclotetradecane-2,10-dione) is antibiotic produced from a strain of Streptomyces erythraeus. It has the following structural formula:	
	Each gram contains Erythromycin USP 5 mg in a	

CLINICAL PHARMACOLOGY	sterile ophthalmic base of mineral oil and white petrolatum. Microbiology Erythromycin inhibits protein synthesis without affecting nucleic acid synthesis. Erythromycin is usually active against the following organisms in vitro and in clinical infections: Streptococcus pyogenes (group A ß-hemolytic) Alpha-hemolytic streptococci (viridans group) Staphylococcus aureus, including penicillinase-producing strains (methicillin-resistant staphylococci are uniformly resistant to erythromycin) Streptococcus pneumonia Mycoplasma pneumoniae (Eaton Agent, PPLO) Haemophilus influenzae (not all strains of this organism are susceptible at the erythromycin concentrations ordinarily achieved) Treponema pallidum Corynebacterium diphtheriae	Erythromycin inhibits protein synthesis by binding to the 50S ribosomal subunit within the microorganism. It is usually bacteriostatic but may be bactericidal depending on the sensitivity and number of organisms and the concentrations of the drug. Its spectrum of activity is similar to that of penicillin G. Resistance to erythromycin of some strains of H. influenza and Staphylococci has been demonstrated.
	Neisseria gonorrhoeae Chlamydia trachomatis	
INDICATIONS AND	For the treatment of superficial ocular infections	For the treatment of
USAGE	organisms susceptible to erythromycin. For prophylaxis of ophthalmia neonatorum due to <i>N. gonorrhoeae</i> or <i>C. trachomatis</i> . The	trachomatis. The Canadian Pediatric Society, the Centers for Diseases

Erythromycin ophthalmic

ointment has also been effective for prevention of neonatal conjunctivitis due

condition that may develop

to C. trachomatis, a

one to several weeks after delivery in infants of mothers whose birth canal harbor the organism.

To reduce the development of drug-resistant bacteria and maintain the effectiveness of **ERYTHROMYCIN** ophthalmic ointment and other antibacterial drugs, ERYTHROMYCIN ophthalmic ointment should be used only to treat infections that are proven or strongly suspected to be caused by susceptible bacteria. When culture and susceptibility information are available. they should be considered in selecting or modifying antibacterial therapy. In the absence of such data, local epidemiology and susceptibility patterns may contribute to the empiric selection of therapy.

CONTRAINDICATIONS: This drug is contraindicated in patients with a history of hypersensitivity to erythromycin.

Erythromycin and its derivatives should not be used in patients with known hypersensitivity to these drugs or any ingredient in the formulations or with infections that are resistant to the drug (primarily certain Staphylococci organisms).

PRECAUTIONS

General:

The use of antimicrobial agents may be associated **PRECAUTIONS** with the overgrowth of nonsusceptible organisms including fungi; in such a case, antibiotic administration should be stopped and appropriate ophthalmic ointment in the measures taken.

Information for Patients:

Avoid contaminating the applicator tip with material patient and risks the from the eye, fingers, or other source.

Carcinogenesis, Mutagenesis, Impairment of Fertility:

Two year oral studies conducted in rats with erythromycin did not provide evidence of tumorigenicity. Mutagenicity studies have not been susceptible bacteria or fungi conducted.

No evidence of impaired fertility that appeared related to erythromycin was reported in animal

WARNINGS AND

Susceptibility/Resistance Prescribing ERYTHROMYCIN absence of a proven or strongly suspected bacterial infection is unlikely to provide benefit to the development of drugresistant bacteria.

The rare possibility of superinfection caused by overgrowth of nonshould be kept in mind during prolonged or repeated therapy, especially studies.

Pregnancy:

Teratogenic effects

Pregnancy Category B.

Reproduction studies have been performed in rats, mice, and rabbits using erythromycin and its various salts and esters, at doses that were several multiples of the usual human dose. No evidence of harm to the fetus that appeared related to erythromycin was reported in these studies. There are, however, no adequate and well controlled studies in pregnant women. Because animal reproductive studies are not always predictive of human response, the erythromycins should be used during pregnancy only if clearly needed.

when other antibacterial agents are simultaneously employed. In such instances the drug should be withdrawn and appropriate treatment instituted if necessary.

Nursing Mothers:

Caution should be exercised when erythromycin is administered to a nursing woman.

Pediatric Use:

See INDICATIONS AND USAGE and DOSAGE AND ADMINISTRATION.

ADVERSE REACTIONS

The most frequently reported adverse reactions are minor ocular irritations, redness, and hypersensitivity reactions.

To report SUSPECTED ADVERSE REACTIONS, contact Perrigo at 1-866-634-9120 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

ADVERSE EFFECTS

Serious allergic reactions to erythromycin have been extremely infrequent. Mild allergic reactions, such as urticaria and morbilliform skin rashes have occurred. Should a patient demonstrate signs of hypersensitivity, administer appropriate countermeasures such as epinephrine, corticosteroid and antihistamines, and withdraw the antibiotic.

DOSAGE AND ADMINISTRATION

In the treatment of superficial ocular infections, a ribbon approximately 1 cm in length of Erythromycin Ophthalmic Ointment should be applied directly to the infected structure up to 6 times daily, depending on the severity of the infection.

For prophylaxis of neonatal gonococcal or chlamydial conjunctivitis, a ribbon of ointment approximately 1 cm in length should be instilled into each lower conjunctival sac. The ointment should not be flushed from the eye following instillation. A new tube should be used for each infant.

In the treatment of external ocular infections, apply the ointment directly to the infected structure one or more times daily, depending on the severity of the infection.

For prophylaxis neonatal gonococcal or chlamydial conjunctivitis, a ribbon of ointment approximately 0.5 to 1 cm in length should be instilled into each conjunctival sac. The ointment should not be flushed from the eye following installation. A new tube should be used for each infant. Infants born by cesarean section as well as

those delivered by vaginal route should receive prophylaxis.

To order, please call (414) 434-6604. For additional questions about the information contained in this letter, please contact Fera at (516) 277-1449.

Healthcare providers and patients are encouraged to report adverse events in patients using imported Erythromycin Ophthalmic Ointment to Fera at (414) 434-6604.

Adverse events or quality problems experienced with the use of this product may also be reported to the FDA's MedWatch Adverse Event Reporting Program either online, by regular mail, or by fax:

- Complete and submit the report **Online**: <u>www.fda.gov/medwatch/report.htm</u>
- **Regular mail or Fax:** Download form www.fda.gov/MedWatch/getforms.htm or call 1-800-332-1088 to request a reporting form, then complete and return to the address on the pre-addressed form or submit by fax to 1-800-FDA-0178 (1-800-332-0178).

Sincerely,

Michelle Kim, PharmD.

Sr. Director of Regulatory Affairs

Appendix 1: Linear Barcode for U.S. NDC Scanning

Product Name	Erythromycin Ophthalmic Ointment USP, 5 mg/g		
Manufacturer	Steri-Med Pharma, Inc. (formerly Sterigen)		
Size	1 g Tube		
NDC	48102-057-11		
Linear Barcode	N 48102 05711 0		

Principal Display Panel - 5 mg Carton Label (Steri-Med)

Sterile Sterile

50 x 1g

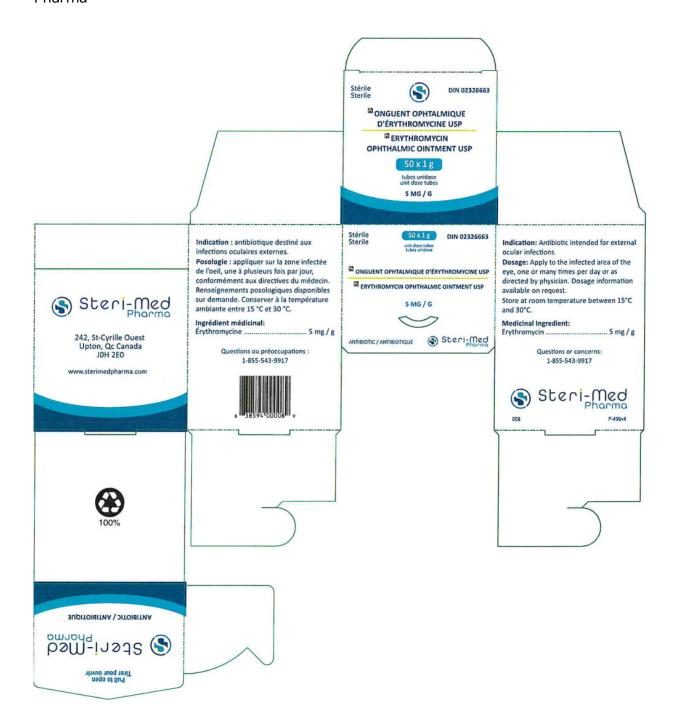
unit dose tubes tubes unidose

DIN 02326663

Pr ONGUENT OPHTALMIQUE D'ERYTHROMYCINE USP Pr ERYTHROMYCIN OPHTHALMIC OINTMENT USP

ANTIBIOTIC / ANTIBIOTIQUE

Steri-Med Pharma



Principal Display Panel - 5 mg Carton Label (Sterigen)

STERILE/STERILE

50 x 1g

unit dose tubes tubes unidose

DIN 02326663

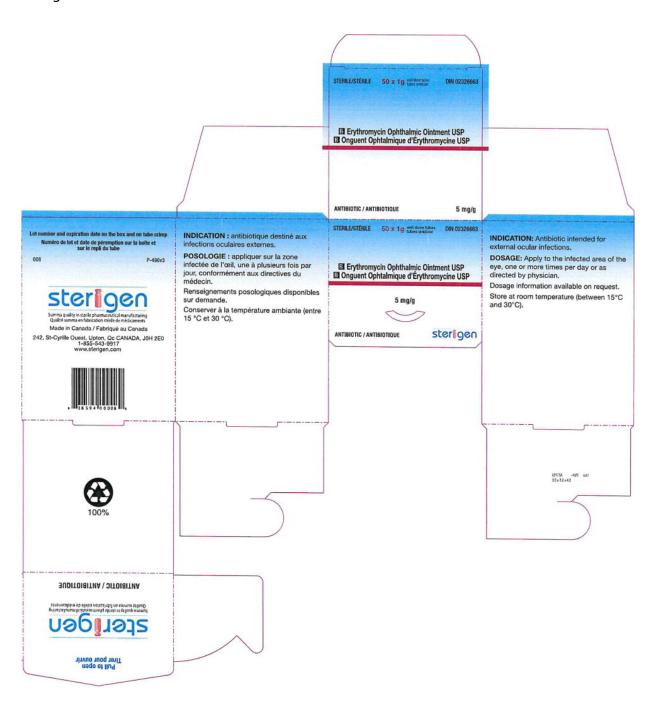
Pr Erythromycin Ophthalmic Ointment USP

Pr Onguent Ophtalmique d'Erythromycine USP

5 mg/g

ANTIBIOTIC / ANTIBIOTIQUE

sterigen



ERYTHROMYCIN erythromycin ointment			
Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:48102-057
Route of Administration	OPHTHALMIC		

Active Ingredient/Active Moiety		
Ingredient Name	Basis of Strength	Strength
ERYTHROMYCIN (UNII: 63937KV33D) (ERYTHROMYCIN - UNII:63937KV33D)	ERYTHROMYCIN	5 ma in 1 a

Inactive Ingredients		
Ingredient Name	Strength	
MINERAL OIL (UNII: T5L8T28FGP)		
PETROLATUM (UNII: 4T6H12BN9U)		

P	Packaging			
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:48102-057- 11	50 in 1 CARTON	09/27/2023	
1		1 g in 1 TUBE; Type 0: Not a Combination Product		

Marketing Information			
Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
	09/27/2023		
	Application Number or	Application Number or Marketing Start Monograph Citation Date	

Labeler - Fera Pharmaceuticals, LLC (831023713)

Revised: 10/2023 Fera Pharmaceuticals, LLC