

SILVER SULFADIAZENE- silver sulfadiazine cream
Rebel Distributors Corp

Silver Sulfadiazine Cream USP 1%

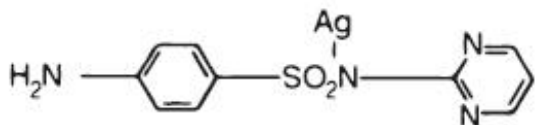
DESCRIPTION

Silver Sulfadiazine Cream is a topical antibacterial preparation which has its active antimicrobial ingredient silver sulfadiazine. The active moiety is contained within an opaque, white, water miscible cream base.

Each 1000 grams of Silver Sulfadiazine Cream contains 10 grams of silver sulfadiazine.

Inactive Ingredients: cetyl alcohol, isopropyl myristate, polyoxyl 40 stearate, propylene glycol, purified water, stearyl alcohol, sodium hydroxide, sorbitan monooleate, white petrolatum; with 0.3% methyl paraben, as a preservative.

Silver sulfadiazine has an empirical formula of $C_{10}H_9AgN_4O_2S$, molecular weight of 357.14 and structural formula as shown:



CLINICAL PHARMACOLOGY

Silver sulfadiazine has broad antimicrobial activity. It is bactericidal for many gram-negative and gram-positive bacteria as well as being effective against yeast. Results from *in vitro* testing are listed below.

Sufficient data have been obtained to demonstrate that silver sulfadiazine will inhibit bacteria that are resistant to other antimicrobial agents and that the compound is superior to sulfadiazine.

Studies utilizing radioactive micronized silver sulfadiazine, electron microscopy, and biochemical techniques have revealed that the mechanism of action of silver sulfadiazine on bacteria differs from silver nitrate and sodium sulfadiazine. Silver sulfadiazine acts only on the cell wall to produce its bactericidal effect.

Results of

In Vitro

Testing With Silver Sulfadiazine Cream, 1% Concentration of Silver Sulfadiazine

Number of Sensitive Strains / Total Number of Strains Tested

Genus and Species	50 μ g/mL	100 μ g/mL
<i>Pseudomonas aeruginosa</i>	130/130	130/130
<i>Pseudomonas maltophilia</i>	7/7	7/7
<i>Enterobacter</i> species	48/50	50/50
<i>Enterobacter cloacae</i>	24/24	24/24
<i>Klebsiella</i> species	53/54	54/54

Escherichia coli	63/63	63/63
Serratia species	27/28	28/28
Proteus mirabilis	53/53	53/53
Morganella morganii	10/10	10/10
Providencia rettgeri	2/2	2/2
Proteus vulgaris	2/2	2/2
Providencia species	1/1	1/1
Citrobacter species	10/10	10/10
Acinetobacter calcoaceticus	10/11	11/11
Stahylococcus aureus	100/101	101/101
Staphylococcus epidermidis	51/51	51/51
β -Hemolytic Streptococcus	4/4	4/4
Enterococcus species	52/53	53/53
Corynebacterium diphtheriae	2/2	2/2
Clostridium perfringens	0/2	2/2
Candida albicans	43/50	50/50

Silver sulfadiazine is not a carbonic anhydrase inhibitor and may be useful in situations where such agents are contraindicated.

INDICATIONS AND USAGE

Silver Sulfadiazine Cream is a topical antimicrobial drug indicated as an adjunct for the prevention and treatment of wound sepsis in patients with second and third degree burns.

CONTRAINDICATIONS

Silver Sulfadiazine Cream is contraindicated in patients who are hypersensitive to silver sulfadiazine or any of the other ingredients in the preparation.

Because sulfonamide therapy is known to increase the possibility of kernicterus, Silver Sulfadiazine Cream should not be used on pregnant women approaching or at term, on premature infants, or on newborn infants during the first 2 months of life.

WARNINGS

There is a potential cross sensitivity between silver sulfadiazine and other sulfonamides. If allergic reactions attributable to treatment with silver sulfadiazine occur, continuation of therapy must be weighed against the potential hazards of the particular allergic reaction.

Fungal proliferation in and below the eschar may occur. However, the incidence of clinically reported fungal superinfection is low.

The use of Silver Sulfadiazine Cream in some cases of glucose-6-phosphate dehydrogenase-deficient individuals may be hazardous, as hemolysis may occur.

PRECAUTION

General

If hepatic and renal functions become impaired and elimination of the drug decreases, accumulation may occur and discontinuation of Silver Sulfadiazine Cream should be weighed against the therapeutic benefit being achieved.

In considering the use of topical proteolytic enzymes in conjunction with Silver Sulfadiazine Cream, the possibility should be noted that silver may inactivate such enzymes.

Laboratory Tests

In the treatment of burn wounds involving extensive areas of the body, the serum sulfa concentrations may approach adult therapeutic levels (8 to 12 mg %). Therefore, in these patients it would be advisable to monitor serum sulfa concentrations. Renal function should be carefully monitored and the urine should be checked for sulfa crystals.

Absorption of the propylene glycol vehicle has been reported to affect serum osmolality, which may affect the interpretation of laboratory tests.

Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term dermal toxicity studies of 24 months duration in rats and 18 months in mice with concentrations of silver sulfadiazine three to ten times the concentration in Silver Sulfadiazine Cream revealed no evidence of carcinogenicity.

Pregnancy

Pregnancy category B. A reproductive study has been performed in rabbits at doses up to three to ten times the concentration of silver sulfadiazine in Silver Sulfadiazine Cream and has revealed no evidence of harm to the fetus due to silver sulfadiazine. There are, however, no adequate and well controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly justified, especially in pregnant women approaching or at term (See **CONTRAINDICATIONS**).

Nursing Mothers

It is not known whether Silver Sulfadiazine Cream is excreted in human milk. However, sulfonamides are known to be excreted in human milk and all sulfonamides derivatives are known to increase the possibility of kernicterus. Because of the potential for serious adverse reactions in nursing infants from sulfonamides, 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.

Pediatric Use

Safety and effectiveness in children have not been established (See **CONTRAINDICATIONS**).

ADVERSE REACTIONS

Several cases of transient leucopenia have been reported in patients receiving silver sulfadiazine therapy. Leucopenia associated with silver sulfadiazine administration is primarily characterized by decreased neutrophil count. Maximal white blood cell depression occurs within two to four days of initiation of therapy. Rebound to normal leukocyte levels follows onset within two to three days. Recovery is not influenced by continuation of silver sulfadiazine therapy. The incidence of leucopenia in various reports averages about 20%. A higher incidence has been seen in patients treated concurrently with cimetidine.

Other infrequently occurring events include skin necrosis, erythema multiforme, skin discoloration, burning sensation, rashes, and interstitial nephritis. Reduction in bacterial growth after application of topical antibacterial agents has been reported to permit spontaneous healing of deep partial-thickness burns by preventing conversion of the partial thickness to full thickness by sepsis. However, reduction in bacterial colonization has caused delayed separation, in some cases necessitating escharotomy in order to prevent contracture.

Absorption of silver sulfadiazine varies depending upon the percent of body surface area and the extent

of the tissue damage. Although few have been reported, it is possible that any adverse reaction associated with sulfonamides may occur. Some of the reactions which have been associated with sulfonamides are as follows: blood dyscrasias, including agranulocytosis, aplastic anemia, thrombocytopenia, leucopenia, hemolytic anemia; dermatologic and allergic reactions, Stevens-Johnson syndrome and exfoliative dermatitis; gastrointestinal reactions; hepatitis and hepatocellular necrosis; CNS reactions; and toxic nephrosis.

DOSAGE AND ADMINISTRATION

FOR TOPICAL USE ONLY - NOT FOR OPHTHALMIC USE: Prompt institution of appropriate regimens for care of the burned patient is of prime importance and includes the control of shock and pain. The burn wounds are then cleansed and debrided and Silver Sulfadiazine Cream is applied under sterile conditions. The burn areas should be covered with Silver Sulfadiazine Cream at all times. The cream should be applied once to twice daily to a thickness of approximately 1/16 inch. Whenever necessary, the cream should be reapplied to any areas from which it has been removed due to patient activity. Administration may be accomplished in minimal time because dressings are not required. However, if individual patient requirements make dressings necessary, they may be used.

Reapply immediately after hydrotherapy.

Treatment with Silver Sulfadiazine Cream should be continued until satisfactory healing has occurred or until the burn site is ready for grafting. The drug should not be withdrawn from the therapeutic regimen while there remains the possibility of infection except if a significant adverse reaction occurs.

HOW SUPPLIED

Silver Sulfadiazine Cream USP 1%: white to off-white cream.

25 gram tube

Store at controlled room temperature 15°-30°C (59°-86°F).

Manufactured for
Watson Laboratories, Inc.
Corona, CA 92880 USA

Manufactured by
Dr. Reddy's Laboratories Louisiana, LLC
Shreveport, LA 71106
R05/08 110960-02

Repackaged by:
Rebel Distributors Corp
Thousand Oaks, CA 91320


PRINCIPAL DISPLAY PANEL

Peel

Silver Sulfadiazine 1%
25gm Cream
Lot #:000000 Exp. Date: 00/00/00
NDC 42254-118-25 AWP:\$25.20

Peel

Silver Sulfadiazine 1%
25gm Cream
Lot #:000000 Exp. Date: 00/00/00
NDC 42254-118-25 AWP:\$25.20



PHYSICIAN PARTNER
A DIVISION OF BEEL DISTRIBUTORS CORP.

NDC 42254-118-25

Silver Sulfadiazine 1% 25gm Cream

Each gram contains: 10mg of Silver Sulfadiazine

Hydrophilic base consisting of cetyl alcohol, isopropyl myristate, polyoxyl 40 stearate, propylene glycol, purified water, stearyl alcohol, sodium hydroxide, sorbitan monooleate, white petrolatum; with 0.3% methylparaben as a preservative.

Lot #:000000
Exp. 00/00/00

SS011825

Peel

Silver Sulfadiazine 1%
25gm Cream
Lot #:000000 Exp. Date: 00/00/00
NDC 42254-118-25 AWP:\$25.20

Peel

Silver Sulfadiazine 1%
25gm Cream
Lot #:000000 Exp. Date: 00/00/00
NDC 42254-118-25 AWP:\$25.20

Product ID: SS011825

Mfr. By: Dr. Reddy's Laboratories Louisiana, LLC Shreveport, LA 71106

Distributed by: Physician Partner, Thousand Oaks, CA 91320 www.physicianpartner.com
 Store at controlled room temperature 15°-30° C (59°-86°F) Keep medication out of the reach of children.

SILVER SULFADIAZINE			
silver sulfadiazine cream			
Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:42254-118 (NDC:0591-0810)
Route of Administration	TOPICAL		
Active Ingredient/Active Moiety			
Ingredient Name		Basis of Strength	Strength
SILVER SULFADIAZINE (UNII: W46JY43EJR) (SILVER SULFADIAZINE - UNII:W46JY43EJR)		SILVER SULFADIAZINE	10 g in 1000 g
Inactive Ingredients			
Ingredient Name			Strength
WATER (UNII: 059QF0KO0R)			
CETYL ALCOHOL (UNII: 936JST6JCN)			
STEARYL ALCOHOL (UNII: 2KR89I4H1Y)			
PETROLATUM (UNII: 4T6H12BN9U)			
POLYOXYL 40 STEARATE (UNII: 13A4J4NH9I)			

PROPYLENE GLYCOL (UNII: 6DC9Q167V3)	
ISOPROPYL MYRISTATE (UNII: 0RE8K4LNJS)	
SORBITAN MONOOLEATE (UNII: 06XEA2VD56)	
METHYL PARABEN (UNII: A2I8C7HI9T)	
SODIUM HYDROXIDE (UNII: 55X04QC32I)	

Product Characteristics

Color	WHITE (white to off-white)	Score	
Shape		Size	
Flavor		Imprint Code	
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:42254-118-25	25 g in 1 TUBE		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA018578	02/25/1982	

Labeler - Rebel Distributors Corp (118802834)

Establishment

Name	Address	ID/FEI	Business Operations
Rebel Distributors Corp		118802834	RELABEL, REPACK