

A. INGREDIENT NAME:

SILVER PROTEIN MILD NF

B. Chemical Name:

C. Common Name:

Argentum Crede, Collargol (9CI), Colloidal Silver, Stillargol, Vitargénol, Aust.:
Coldargan, Fr.: Pastaba, Ger.: Coldargan, Ital.: Arscolloid, Bio-Arscolloid, Corti-
Ascolloid, Rikosilver, Rinatipiol, Rinovit Nube.

D. Chemical grade or description of the strength, quality, and purity of the ingredient:

	<i>(Specifications)</i>	<i>(Results)</i>
Assay: (after ignition)	19.0-23.0%	19.74%

E. Information about how the ingredient is supplied:

Brown, Dark-Brown, or almost black, odorless, lustrous scales or granules, somewhat hygroscopic, and is affected by light.

F. Information about recognition of the substance in foreign pharmacopeias:

Aust., Belg., Cz., Fr., Hung., It., and Jpn.

G. Bibliography of available safety and efficacy data including peer reviewed medical literature:

Isenberg, S., Apt, L., and Yoshimuri. Chemical preparation of the eye in ophthalmic surgery. II. Effectiveness of mild silver protein solution. *Archives of Ophthalmology*, 1983; 101(5): 764-765.

Apt, L. and Isenberg, S. Chemical preparation of skin and eye in ophthalmic surgery: an international survey. *Ophthalmic Surgery*, 1982; 13(12): 1026-1029.

H. Information about dosage forms used:

Liquid

I. Information about strength:

1-20%

J. Information about route of administration:

Nasal

Ophthalmic

K. Stability data:

L. Formulations:

M. Miscellaneous Information:

Database: Medline <1966 to present>

<1>

Unique Identifier

83203583

Authors

Isenberg S. Apt L. Yoshimuri R.

Title

Chemical preparation of the eye in ophthalmic surgery. II.
Effectiveness of mild silver protein solution.

Source

Archives of Ophthalmology. 101(5):764-5, 1983 May.

Abstract

Although a mild silver protein solution (Argyrol) has been used for a number of years and is still used by many ophthalmic surgeons, its efficiency as an antibacterial agent on the conjunctiva has not been scientifically evaluated as part of the preoperative chemical preparation of the eye. We studied the effectiveness of a mild silver protein solution on the conjunctival flora of 32 patients in a masked fashion. By bacteriologic analysis, the mild silver protein solution was found to be no more effective in reducing the number of species and colonies in the treated eye than in the untreated eye. While the mild silver protein solution does stain mucus and other debris on the eye to facilitate irrigation, this study did not demonstrate a significant bactericidal effect.

<2>

Unique Identifier

83142687

Authors

Apt L. Isenberg S.

Title

Chemical preparation of skin and eye in ophthalmic surgery:
an international survey.

Source

Ophthalmic Surgery. 13(12):1026-9, 1982 Dec.

Abstract

We surveyed 214 ophthalmologists worldwide to learn their methods of preoperative chemical preparation of eye and skin. A 96.8% return rate was achieved. While a wide diversity of agents was reported, povidone-iodine was the most popular agent applied to the skin. The conjunctiva usually was either ignored or rinsed with a saline solution by the respondents. Almost a quarter used mild silver

protein (Argyrol) on the conjunctiva. Most of the preparation is performed by the physician rather than the nurse. Review of the advantages and pitfalls of the agents reported should cause the ophthalmologist to reconsider these agents for their effectiveness, spectrum, and duration of action.

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TITLE: Antimicrobial preparation of the eye for surgery.

AUTHOR: Apt L; Isenberg SJ; Yoshimori R

SOURCE: J Hosp Infect 1985 Mar;6 Suppl A:163-72

NLM CIT. ID: 85209109

ABSTRACT: An important source of postoperative eye infection is the indigenous flora in and around the eye. Therefore, proper preparation of the operative field is crucial. Through an international survey we determined that ophthalmic surgeons used widely varying techniques in the pre-operative antimicrobial preparation of the eye. On the basis of these survey responses we have studied to date the effect on the bacterial flora of the conjunctiva of three regimens. Irrigation of the conjunctiva with saline tended to increase the ocular flora; instillation of silver protein solution had no significant effect. Povidone-iodine drops (5%) significantly reduced both colony and species counts.

MAIN MESH SUBJECTS: Anti-Infective Agents, Local/*THERAPEUTIC USE
Eye/MICROBIOLOGY/*SURGERY
Povidone/*ANALOGS & DERIVATIVES
Povidone-Iodine/*THERAPEUTIC USE

ADDITIONAL MESH SUBJECTS: Bacterial Infections/PREVENTION & CONTROL
Conjunctiva/MICROBIOLOGY
Eye Diseases/PREVENTION & CONTROL
Human
Microbial Sensitivity Tests
Ophthalmic Solutions
Postoperative Complications
Premedication
Silver Proteins/THERAPEUTIC USE

PUBLICATION TYPES: JOURNAL ARTICLE

LANGUAGE: Eng

REGISTRY NUMBERS: 0 (Anti-Infective Agents, Local)
0 (Ophthalmic Solutions)
0 (Silver Proteins)
25655-41-8 (Povidone-Iodine)
9003-39-8 (Povidone)
9008-39-3 (mild silver protein)



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TITLE: Chemical preparation of the eye in ophthalmic surgery. II. Effectiveness of mild silver protein solution.

AUTHOR: Isenberg S; Apt L; Yoshimuri R

SOURCE: Arch Ophthalmol 1983 May;101(5):764-5

NLM CIT. ID: 83203583

ABSTRACT: Although a mild silver protein solution (Argyrol) has been used for a number of years and is still used by many ophthalmic surgeons, its efficiency as an antibacterial agent on the conjunctiva has not been scientifically evaluated as part of the preoperative chemical preparation of the eye. We studied the effectiveness of a mild silver protein solution on the conjunctival flora of 32 patients in a masked fashion. By bacteriologic analysis, the mild silver protein solution was found to be no more effective in reducing the number of species and colonies in the treated eye than in the untreated eye. While the mild silver protein solution does stain mucus and other debris on the eye to facilitate irrigation, this study did not demonstrate a significant bactericidal effect.

MAIN MESH SUBJECTS: Conjunctiva/*MICROBIOLOGY
Eye/*SURGERY
Silver Proteins/*THERAPEUTIC USE

ADDITIONAL MESH SUBJECTS: Drug Evaluation
Human
Ophthalmic Solutions
Premedication
Random Allocation

PUBLICATION TYPES: JOURNAL ARTICLE

LANGUAGE: Eng

REGISTRY NUMBERS: 0 (Ophthalmic Solutions)
0 (Silver Proteins)



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SILVER PROTEIN MILD NF

Used as a 1-20% solution as an antibacterial for the eyes.

Toxicities seen are eye and skin irritation and may be toxic if inhaled. Toxicities have not been thoroughly investigated but neurological deficits and organ toxicities can occur with long-term systemic exposures.

REFERENCES

1. Apt L, Isenberg SJ, Yoshimori R. Antimicrobial preparation of the eye for surgery 1985; J Hosp Infect 1985; 6 Suppl A:167-72.
2. Warlow RS, Morgan J, Nicola N, et al. A nondenaturing vertical isoelectric focusing polyacrylamide slab gel system suitable for silver staining and electrophoretic blotting. Anal Biochem 1988; 175(2):474-81.
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8. Isenberg S, Apt L, Yoshimori R. Chemical preparation of the eye in ophthalmic surgery. II. Effectiveness of mild silver protein solution. Arch Ophthalmol 1983; 101(5):764-5.
9. Apt L, Isenberg S. Chemical preparation of skin and eye in ophthalmic surgery: an international survey. Ophthalmic Surg 1982; 13(12):1026-9.

Silver Protein