

SILVER DIAMINE FLUORIDE, THE OLD NEW BREAK THROUGH THERAPY - A NARRATIVE REVIEW

NEED FOR THE STUDY

Oral Diseases are the most frequent chronic disease affecting all age groups worldwide. SDF had been used off-label for caries arrest; however, it was recently approved (code D1354)¹ as an interim caries arresting medication. The purpose of this *narrative review* was to evaluate the scientific evidence regarding the effectiveness of SDF in dentistry.

MATERIALS AND METHODS

Source of data

• systematic literature database search

Databases

• PubMed, ScienceDirect, and Scopus

Key words

Silver diamine fluoride” AND “children” OR “primary dentition” AND “tooth decay”

search was conducted from February to March 2019

Topical fluorides” OR “silver diamine fluoride” AND “randomized controlled trial

manuscripts published in English from 2010 to January 2019

A Total of 21 studies were included.

Selection Criteria

Exclusion: Manuscripts published in different languages

CONCLUSION

SDF therapy is painless, simple, and low-cost and it could be widely recommended and promoted as an alternative preventive treatment to conventional invasive caries management, especially among children who are too young for conventional dental care, those with special needs, or those with difficulty accessing and affording basic dental care.

RESULTS

✓ The available literature suggests that **38%** silver diamine fluoride is effective in arresting caries ,

✓ **3.8%** solution is effective as root canal irrigant as well as a desensitizer.

✓ There were no significant complications reported with SDF treatment

PUBLIC HEALTH SIGNIFICANCE

SDF, being a cost-effective material, can be used in preventive community programmes in developing countries where resources are limited.



Reduced hand dexterity



Wasting disease



Dental Caries



SDF - Indications



Dentine hypersensitivity



Older Adults



Specially able Individual

REFERENCES

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2. Fung HT, Wong MC, Lo EC, Chu CH. Arresting early childhood caries with silver diamine fluoride-a literature review. Journal of Oral Hygiene and Health. 2013.
- 3) Shah S, Bhaskar V, Venkatraghavan K, Choudhary P, Trivedi K. Silver diamine fluoride: a review and current applications. Journal of Advanced Oral Research. 2014 Jan;5(1):25-35