SILVER DIAMINE FLUORIDE (SDF) BY MAY BOSCO, RDHAP

Contents

- ➤ What is SDF?
- > Why use SDF?
- > How to apply SDF?
- > Who can apply SDF?
- > Effectiveness of SDF?
- Contraindication of SDF

What is SDF?

- A topical clear or tinted blue liquid.
- 38% SDF 25% SILVER, 8% AMMONIA, 5% FLUORIDE (44,800 PPM), AND 62% WATER.
- A combination of antibacterial effects of silver and re-mineralizing effects of fluoride
- PPM = Parts Per Million



Why use SDF?

Arrest the dental caries

Non-surgical caries restoration

38% SDF inhibits cariogenic biofilm formation and prevents further tooth demineralization

Helps prevent emergency visits in children with Early Childhood

Caries (ECC)



How to apply SDF?

https://www.youtube.com/watch?v=a OHH7GifdM4



Who can apply SDF?

- Dentist
- Dental Hygienist
- Physicians
- Nurses
- Possible medical assistant

Varies depending on the state.

Effectiveness of SDF

Clinical Studies have shown that

- 38% SDF can arrest dental caries and stop further progression of the disease
- Significantly more effective for caries prevention in primary teeth and first molars

Contraindication for SDF

- Allergy to Silver
- Gingiva Stomatitis
- Teeth with evidence of pulpitis or pulpal necrosis
- Teeth with deep caries lesions
- During the first six months of breast feeding
- Recommend pregnancy test prior to using SDF for women of childbearing age due to uncertainty

Additional information

- Not a MediCal benefit for the medical settings
- A MediCal benefit for dental settings in California
- SDF 38% was cleared for use by the Food and Drug Administration in August 2014 to use for dentinal sensitivity.
- Dental professionals outside of the U.S have been used it for both dentinal hypersensitivity and as a caries therapy for more than 45 years.

References

- 1. https://www.ada.org/en/publications/ada-news/2020-archive/october/ada-supports-silver-diamine-fluoride-for-caries-management
- 2. https://health.mo.gov/living/families/oralhealth/pdf/silver-diamine-fluoride.pdf
- 3. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6500430/
- 4. https://www.oralhealthgroup.com/features/silver-diamine-fluoride-new-treatment-caries-management/
- 5. https://www.aapd.org/media/Policies Guidelines/R ChairsideGuide.pdf
- 6. https://www.youtube.com/watch?v=a0HH7GifdM4
- 7. https://www.adha.org/resources-docs/Silver Diamine Fluoride State by State Information.pdf
- 8. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5535266/#:~:text=SDF%20was%20more%20effective%20for%25)

 %20than%20a%20control%20group.&text=After%203%20and%206%20months,and%20GIC%20for%20arresting%20caries.
- 9. https://www.astdd.org/www/docs/sdf-fact-sheet-09-07-2017.pdf
- 10. https://www.cda.org/portals/0/journal/journal 012016.pdf