

**\*\*\*Handout\*\*\***  
**Silver Diamine Fluoride Use**  
**Harald O. Heymann, DDS MEd**

**Material**

Product: Advantage Arrest by Elevate Oral Care



Composition: 38% SDF contains 24-28% Ag & 5-6% Fluoride

Clinical Appearance: Arrested decay appears very dark in appearance (Figures 1 and 2).

**Clinical Indications?**

“Real World” situations that may be indicated for the use of silver diamine fluoride:

- Rampant caries patients.
- Older patients or indigent patients where a more extensive or expensive procedure is precluded (salvaging existing restorations, for example).
- Medically compromised patients where a more involved procedure is precluded.



Figure 1



Figure 2

**Clinical Technique (Please note that tx options are evolving, and may change based on future research)**

- Protect counter and patient with plastic lined bib.
- Dispense 1 drop (max dose) in plastic dappen dish.
- Isolate and dry lesion.
- Place petroleum jelly on gingiva (SDF has pH of 10).
- Bend microbrush, moisten with SDF; no dripping!

- **Apply to carious lesion with microbrush.**

### **Clinical Technique (Continued)**

- **Allow 1 minute absorption time per application.**
- **Remove excess with gauze or cotton roll. Apply 1-3x.**
- **Rinse with water.**

### **Factoids**

- **SDF is FDA approved for desensitization; using as a caries arresting agent is an off-branded application!**
- **SDF will turn carious lesions dark brown or black.**
- **Do not use in patients with silver sensitivity.**
- **Do not use in pregnant patients.**
- **Do not use in breast feeding mothers.**
- **Re-application 2x per year is currently recommended, although no clinical trials have affirmed best intervals.**
- **A caries control GIC restoration can be placed over SDF (best to add mechanical retention).**

### **Speaker Information**

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Vers. 11-18