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.

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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