Silver Diamine Fluoride

ADA Symposium on Early Childhood Caries in American Indian and Alaska Native Children

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Disclaimers

• This is not “the” truth
• This is how I see it
• You need to decide for yourself
Silver Diamine Fluoride: A Caries “Silver-Fluoride Bullet”

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Brief History

1000 BC  Silver bowls for potable water
1890    Silver sutures + silver nitrate: prevent infections (Halsted)
1920    Silver nitrate: caries prevention (Howe)
1960    Silver diamine fluoride: caries prevention
         Yamaga Japan, Aron Mexico, Gotjamanos Australia
Current FDA Approved Uses

• Silver topical ointments for burns
• Slow release silver wound dressing
• Colloidal silver water purification
• Silver fabric surgical gowns and drapes
• Silver sutures
Mechanism of Action

A
- Sodium Fluoride
- Calcium Fluoride
- Sodium Oxide
- Sodium Hydroxide

B
- Silver Nitrate
- Nitrate

Sound Tooth
- Hydroxyapatite
- Fluorapatite

Bacteria
- Thiol Amino Acid
- Thiol Nucleic Acid
- Silver Amino Acid
- Silver Nucleic Acid
Silver Diamine Fluoride Application
ForsythKids Argentina, Brazil, Colombia
Typical Findings
Thank you