Fluor Protector







Fluor Protector

Overview

- Superior protection against dental caries and erosion
- Fluoride Clinically proven
- Fluoride varnish Features and mechanism of action
- <u>Application</u>
- Intensive care gel





Risks to teeth Erosion Caries Acid Acid

Loss of tooth structure due to acid without bacterial involvement Loss of tooth structure due to acid with bacterial involvement

(Pictures: Prof. Dr A. Lussi, Dr C. Stecksén-Blicks)





Fluoride – Mechanism of action



Fluoride

- Stimulates remineralization
- Inhibits demineralization
- Reduces plaque activity and plaque growth





Fluoride – Clinically proven

Indications

- Strengthening of enamel resistance
- Treatment of hypersensitive teeth
- Caries-long-term prophylaxis
- Protection against erosion
- Remineralization of initial lesions





Fluoride varnish – Accepted worldwide

- WHO: There is no doubt that fluoride varnish has a significant caries-reducing potential. (Fluoride varnish for community-based caries prevention in children, 1997)
- FDI: Professional topcial application of fluoride has been shown to be a safe and effective procedure to reduce dental caries. (FDI policy statement of fluorides and fluoridation for the prevention of dental caries, 1993)
- ADA: Evidence-based clinical recommendations for the professional application of fluoride varnish. (ADA Council on Scientific Affairs, 2006)





Fluoride varnish – The method of choice



Advantages of varnish delivery form

- Local protection against caries
- Prolonged adhesion to tooth surfaces
- Improved incorporation of fluoride into the tooth structure
- Proven caries-preventive effect
- Easy, fast application
- Compared to gels, lower risk of swallowing in young children
- Limited systemic exposure
- Safe, comfortable application

(Zero 1992; Zimmer 1993; Beltrán-Aguilar et al. 2000)





Fluoride varnishes – Fluor Protector and Fluor Protector S







Fluoride varnishes – Flow and wetting properties



High-viscous fluoride varnish stands on the enamel surface.

Low-viscous fluoride varnish e.g. Fluor Protector S or Fluor Protector has optimum flow and wetting properties.





Fluoride varnishes – Homogeneity



Suspension A

Suspension B

Fluor Protector S

In contrast to other commercially available fluoride varnishes, Fluor Protector S and Fluor Protector are supplied as a homogeneous solution. The fluoride component is completely dissolved. As a result, the fluoride dosage can be controlled and its availability ensured.





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Fluoride varnish – Mechanism of action



The tooth structure demineralizes if fluoride is not present.

A protective calcium-fluoride layer forms if fluoride is present.



Fluor Protector S – Fluoride layer



Demineralized enamel



CaF₂-like precipitates

Calcium fluoride-like layer on demineralized enamel after the application of Fluor Protector S; SEM photos, magnification: 30000x

(R&D Ivoclar Vivadent, Schaan, 2012)





Comparison of fluoride varnishes – Fluoridation



Alkali-soluble fluoride on the enamel surface measured one hour after the application of various varnishes

(R&D Ivoclar Vivadent AG, Schaan, 2012)



More information



Fluor Protector S – Step-by-step procedure



Clean







Establish a relatively dry working field



Apply Fluor Protector S



Leave to dry for 60s



More information



Fluor Protector S – Step-by-step procedure



Tips for patients after the application of Fluor Protector S



Do not rinse immediately after the application









Fluoride varnish – Targeted protection of at-risk areas







Fluoride treatment – Intensive care gel



Dentists recommend Fluor Protector Gel, because it benefits their patients:

The protective formula of "calcium + 1450 ppm fluoride + phosphate" strengthens the teeth against acid attacks.



More information



Intensive care gel to strengthen the teeth



Special care for special needs

- Sensitive teeth
- Exposed cervicals
- Consumption of acidic food
- Dry mouth
- During orthodontic treatment
- High caries risk
- After professional tooth cleaning
- Sensitive peri-implant tissue
- Within tooth whitening



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