

Effectiveness of SDF in arresting root caries in different fluoridated areas

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On June 24, 2016, at the 94th General Session & Exhibition of the International Association for Dental Research, researcher Edward Lo, University of Hong Kong, SAR, China, will present a study titled "Effectiveness of SDF in Arresting Root Caries in Different Fluoridated Areas." The IADR General Session is being held in conjunction with the 3rd Meeting of the IADR Asia Pacific Region and the 35th Annual Meeting of the IADR Korean Division.

The objective of this research study was to compare the effectiveness of annual application of silver diammine fluoride (SDF) solution on arresting root caries in community-dwelling elders living in water fluoridated and non-fluoridated areas. This study was conducted in a water fluoridated area (Hong Kong) and also in a non-fluoridated area (Guangzhou). Healthy community-dwelling elders who had at least five teeth with exposed root surfaces and not indicated for extraction were recruited and randomly allocated into one of two groups: Gp1 (placebo control) - annually application of soda water; Gp2 (test) - annual application of a 38% SDF solution. Individual oral hygiene instruction and fluoridated toothpaste was provided to all subjects. The status of dental root surfaces were clinically examined by calibrated examiners at baseline and every six months.

A total of 533 elders with 138 root surfaces with active caries lesion were recruited at baseline, 260 elders with 84 active root caries lesions in HK and 273 elders with 54 active root caries lesions in GZ, respectively. After 18-months, 75 (54%) of these lesions were reviewed, 51 and 24 in

HK and GZ, respectively. The proportions of active [lesions](#) that had become arrested were 32% and 75% in Gp1 and Gp2 in HK (X2 test, P

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