

Effects of a Gel Containing 0.4% Stannous Fluoride on dentinal Hypersensitivity

MA Blong et. al. 1985. Dental Hygiene, 489-492

ABSTRACT

Eighteen subjects demonstrating noted hypersensitivity to a blast of cold air were divided into two equal groups. After baseline data were collected one group was instructed to apply a gel containing 0.4% stannous fluoride (Gel-Kam) twice a day. The remaining subjects were identically instructed to apply an identical gel minus the stannous fluoride. Both experimenter and subjects were blind to the particular gel applied. Each subject was assessed at two, four, and eight weeks utilizing the "method of limits" with a standardized and repeatable cold thermal and electrical stimulus. The results indicate that those subjects whose solution contained the 0.4% stannous fluoride reported significantly less sensitivity than did those subjects whose solution did not contain 0.4% stannous fluoride at the four and eight week measuring periods for both electrical and thermal stimuli. It was concluded that the fully active 0.4% stannous fluoride gel was an effective agent in the control of dentinal hypersensitivity.