Study	Study Design	Subjects	Methods	Results	Comments	
Rundegren et al., 1980 (Ref. 36)	In situ study to evaluate S substitutes	Group 1: 4 male students	Intraoral devices with bovine enamel mounted on acrylic blocks were used	A comparison of enamel hardness with	Small number of subjects; the mean of the results was not given	
	for their contribution	Group 2: 4 Ss (ages 56 to	with Group 1. Partial dentures with	higher values for demineralization		
		59 years with dentures)	ename! slabs were used in Group 7. All devices were placed in the buccal	with NaCl.	Comparison to NaC! did not	
			region of the first molars,	Results with HSH vs S and MALT vs S	contribute to enamel softening and	
			Sweeteners: 10% (w/v) of S. MALT,	showed greater demineralization of	measured changes in microhardness	
		-	HSH. Each was tested for 4 weeks. S	ename! with S. The differences were	reflects background intake of	
			was used as a positive control for	significant at 1% level (Student's t	fermentation of dietary	
			demineralization. A 0.9% sodium	test). Demineralization in MALT and	carbohydrates.	
			chloride (NaCl) soin was a negative	HSH groups was associated with		
			control during 2-week test.	dietary effects. S showed an effect	Authors state that elderly Ss showed	
			Ss immersed experimental sites of	on demineralization above that of the	a higher degree of demineralization	
			their appliances 4 times daily, 10	diet.	than the adolescents.	
			min each, in cups containing soln.			
			After immersion, appliances were			
			returned to the mouth.			
			At end test week, plaque was			
		-	collected and plated. Samples were		-	
		-	examined for S. mutans. Degree of			
	-		demineralization was also measured		-	
	-		before and after each test week.			