

- [1] Arends J, Christoffersen J: The nature of early caries lesions in enamel. *J Dent Res* 65, 2–11 (1986).
- [2] Attin T, Hartmann O, Hilgers RD, Hellwig E: Fluoride retention of incipient enamel lesions after treatment with a calcium fluoride varnish in vivo. *Archs Oral Biol* 40, 169–174 (1995).
- [3] Balzar Ekenbäck S, Linder LE, Sund ML, Lönnis H: Effect of fluoride on glucose incorporation and metabolism in biofilm cells of streptococcus mutans. *Eur J Oral Sci* 109, 182–186 (2001).
- [4] Baysan A, Lynch E, Ellwood R, Davies R, Petersson L, Borsbomm P: Reversal of primary root caries using dentifrices containing 5000 and 1100 ppm fluoride. *Caries Res* 35, 41–46 (2001).
- [5] Bruun C, Givskov H: Formation of CaF_2 on sound enamel and in caries-like lesions after different forms of fluoride application in vitro. *Caries Res* 25, 96–100 (1991).
- [6] Buchalla W, Attin T, Schulte-Mönting J, Hellwig E: Fluoride uptake, retention, and remineralization efficacy of highly concentrated fluoride solution on enamel lesions in situ. *J Dent Res* 81, 329–333 (2002).
- [7] Caslavská V, Moreno EC, Brudevold F: Determination of the calcium fluoride formed from in vitro exposure of human enamel to fluoride solutions. *Arch Oral Biol* 20, 333–339 (1975).
- [8] Caslavská V, Gron P, Kent RL, Joshipura K, Depaola PF: CaF_2 in enamel biopsies 6 weeks and 18 months after fluoride treatment. *Caries Res* 25, 21–26 (1991).
- [9] Chesters RK, Huntington E, Burchell CJ, Stephen KW: Effect of oral care habits on caries in adolescents. *Caries Res* 26, 299–304 (1992).
- [10] Dawes C: What is the critical pH and why does a tooth dissolve in acid? *J Can Dent Assoc* 69, 722–724 (2003).
- [11] Featherstone JDB: The science and practice of caries prevention. *JADA* 131, 887–889 (2000).
- [12] Fejerskov O, Thylstrup A, Larsen MJ: Rational use of fluorides in caries prevention. A concept based on the possible cariostatic mechanisms. *Acta Odontol Scand* 39, 241–249 (1981).
- [13] Hallsworth AS, Weatherell JA, Robinson C: Fluoride uptake and distribution in human enamel during caries attack. *Caries Res* 9, 294–299 (1975).
- [14] Hedman J, Sjöman R, Sjöström I, Twetman S: Fluoride concentration in saliva after consumption of a dinner meal prepared with fluoridated salt. *Caries Res* 40, 158–162 (2006).
- [15] Hellwig E, Klimek J, Wagner H: The influence of plaque reaction mechanism of MFP and NaF in vivo. *J Dent Res* 66, 46–49 (1987).
- [16] Hellwig E, Klimek J, Albert G: In-vivo Retention angelagerten und festgebundenen Fluorids in demineralisiertem Zahnschmelz. *Dtsch Zahnärztl Z* 44, 173–176 (1989).
- [17] Hellwig E, Klimek J, Höhne E: In-situ Fluoridaufnahme initialer Kariesläsionen nach Applikation zweier Kinderzahnpasten. *Oralprophylaxe* 12, 65–71 (1990).
- [18] Issa AI, Toumba KJ: Oral fluoride retention in saliva following toothbrushing with and without water rising. *Caries Res* 38, 9–15 (2004).
- [19] Kilian M, Thylstrup A, Fejerskov O: Predominant plaque flora of Tanzanian children exposed to high and low water fluoride concentrations. *Caries Res* 13, 330–343 (1979).
- [20] Klimek J, Ganss C, Schwan P, Schmidt R: Fluoridaufnahme im Zahnschmelz nach Anwendung von NaF- und AmF-Zahnpasten. *Oralprophylaxe* 20, 192–196 (1998).
- [21] Larsen MJ, Jensen SJ: Experiments on the initiation of calcium fluoride formation with reference to the solubility of dental enamel and brushite. *Arch Oral Biol* 39, 7–23 (1994).
- [22] Larsen MJ, Richards A: The influence of saliva on the formation of calcium fluoride-like material on human dental enamel. *Caries Res* 35, 57–60 (2001).

- [23] Li YH, Bowden GH: The effect of environmental pH and fluoride from substratum on the development of biofilms of selected oral bacteria. *J Dent Res* 73, 1615–1626 (1994).
- [24] Lima TJ, Ribeiro CC, Tenuta LM, Cury JA: Lowfluoride dentifrice and caries lesion control in children with different caries experience. A randomized clinical trial. *Caries Res* 42, 46–50 (2007).
- [25] Lussi A: Kariostatische Wirkungsmechanismen der Fluoride. In: Lussi A, Schaffner M, (Hrsg.): *Fortschritte der Zahnerhaltung*. Quintessenz Verlag, Berlin, pp 25–32 (2010).
- [26] Machiulskiene V, Richards A, Nyvad B, Baelum V: Prospective study of the effect of post-brushing rinsing behavior on dental caries. *Caries Res* 36, 301–307 (2002).
- [27] Marinho VC, Higgins JP, Logan S, Sheiham A: Fluoride gels for preventing dental caries in children and adolescents. *Cochrane Database Syst Rev*, CD002280 (2002a).
- [28] Marinho VC, Higgins JP, Logan S, Sheiham A: Fluoride varnishes for preventing dental caries in children and adolescents. *Cochrane Database Syst Rev*, CD002279 (2002b).
- [29] Marinho VC, Higgins JP, Sheiham A, Logan S: Fluoride toothpastes for preventing dental caries in children and adolescents. *Cochrane Database Syst Rev*, CD002278 (2003a).
- [30] Marinho VC, Higgins JP, Logan S, Sheiham A: Fluoride mouthrinses for preventing dental caries in children and adolescents. *Cochrane Database Syst Rev*, CD002284 (2003b).
- [31] Marinho VC, Higgins JP, Logan S, Sheiham A: Topical fluoride (toothpastes, mouthrinses, gels or varnishes) for preventing dental caries in children and adolescents. *Cochrane Database Syst Rev*, CD002782 (2003c).
- [32] Marinho VC, Higgins JP, Sheiham A, Logan S: One topical fluoride (toothpastes, or mouthrinses, or gels, or varnishes) versus another for preventing dental caries in children and adolescents. *Cochrane Database Syst Rev*, CD002780 (2004a).
- [33] Marinho VC, Higgins JP, Sheiham A, Logan S: Combinations of topical fluoride (toothpastes, mouthrinses, gels, varnishes) versus single topical fluoride for preventing dental caries in children and adolescents. *Cochrane Database Syst Rev*, CD002781 (2004b).
- [34] Moberg Sköld U, Birkhed D, Borg E, Petersson LG: Approximal caries development in adolescents with low to moderate caries risk after different 3-year school-based supervised fluoride mouth rinsing programmes. *Caries Res* 39, 529–535 (2005).
- [35] Øgaard B, Rölla G, Ruben J, Dijkman T, Arends J: Microradiographic study of demineralization of shark enamel in a human caries model. *Scand J Dent Res* 96, 209–211 (1988).
- [37] Øgaard B, Alm AA, Larsson E, Adolfsson U: A prospective, randomized clinical study on the effects of an amine fluoride/stannous fluoride toothpaste/mouthrinse on plaque, gingivitis and initial caries lesion development in orthodontic patients. *Eur J Orthod* 28, 8–12 (2006).
- [37] O'Mullane DM: The changing patterns of dental caries in Irish schoolchildren between 1961 and 1981. *J Dent Res* 90 (Spec Iss), 1317–1320 (1997).
- [38] Petzold M: The influence of different fluoride compounds and treatment conditions on dental enamel: a descriptive in vitro study of the CaF₂ precipitation and microstructure. In: *Caries Res* 35, 45–51 (2001).
- [39] Rölla G, Saxegaard E: Critical evaluation of composition and use of topical fluorides with special emphasis on the role of calcium fluoride in caries inhibition. *J Dent Res* 69 (Spec Iss), 780–785 (1990).
- [40] Rölla G, Øgaard B, Cruz R: Topical application of fluorides on teeth. New concepts of mechanisms of interaction. *J Clin Periodontol* 20, 105–108 (1993).
- [41] Rölla G, Ekstrand J: Fluoride in oral fluids and dental plaque. In: Fejerskov O, Ekstrand J, Burt BA (Hrsg.): *Fluoride in dentistry*. Munksgaard, Copenhagen, pp 215–229 (1996).
- [42] Rozier RG, Adair S, Graham F, Iafolla GT, Kingman A, Kohn W, Krol D, Levy S, Pollick H, Whitford G, Strock S, Frantsve-Hawley J, Aravamudhan K, Meyer DM: Evidence-based clinical recommendations on the prescription of dietary fluoride supplements for caries preventin: A report of the American Dental Association Council on Scientific Affairs. *J Am Dent Assoc* 141, 1480–1489 (2010).

- [43] Saxegaard E, Rölla G: Fluoride acquisition on and in human enamel during topical application in vitro. *Scand J Dent Res* 96, 523–535 (1988).
- [44] Saxegaard E, Rölla G: Kinetics of acquisition and loss of calcium fluoride by enamel in vivo. *Caries Res* 23, 406–411 (1989).
- [45] Sjögren K, Birkhed D: Factors related to fluoride retention after tooth-brushing and possible connection to caries activity. *Caries Res* 27, 474–477 (1993).
- [46] Steiner M, Menghini G, Marthaler TH, Imfeld T: Kariesverlauf über 45 Jahre bei Zürcher Schülern. *Schweiz Monatsschr Zahnmed* 120, 1095–1104 (2010).
- [47] Stokey GK, Mau MS, Isaars RL, Gonzalez-Gurbolini C, Bartizek RD, Biesbrock AR: The relative anticaries effectiveness of three fluoridecontaining dentifrices in Puerto Rico. *Caries Res* 38, 542–550 (2004).
- [48] Sutton SV, Bender GR, Marquis RE: Fluoride inhibition of proton-translocating ATPase of oral bacteria. *Infect Immun* 55, 2597–2603 (1987).
- [49] Ten Cate JM, Duijsters PPE: Influence of fluoride in solution on tooth demineralization. I. Chemical data. *Caries Res* 17, 193–199 (1983).
- [50] Ten Cate JM, Von Loveren C: Fluoride mechanism. *Dent Clin North Am*, 43: 713–742 (1999).
- [51] Tenuta LMA, Cerezetti RV, Del Bel Cury AA, Tabchoury CPM, Cury JA: Fluoride Release from CaF₂ and Enamel Demineralization. *J Dent Res* 87, 1032–1036 (2008).
- [52] Van der Mei HC, Engels E, De Vries J, Busscher HJ: Effects of amine fluoride on biofilm growth and salivary pellicles. *Caries Res* 42, 19–27 (2008).
- [53] Walsh T, Worthington HV, Glenny AM, Applebe P, Marinho VC, Shi X: Fluoride toothpastes of different concentrations for preventing dental caries in children and adolescents. *Cochrane Database Syst Rev*, CD007868 (2010).
- [54] Weatherell JA, Deutsch D, Robinson C, Hallsworth AS: Assimilation of fluoride by enamel throughout the life of the tooth. *Caries Res* 11 (suppl 1), 85–115 (1977).
- [55] Yengopal V, Chikte UM, Mickenautsch S, Oliveira LB, Bhayat A: Salt fluoridation: a metaanalysis of its efficacy for caries prevention. *SADJ* 65 sutton: 60–64, 66–67 (2010).