

9. Literaturverzeichnis

Acker L, Schormüller J: Kohlenhydratreiche Lebensmittel. Springer, Berlin-München, 1967

Amaechi BT, Higham SM: In vitro remineralisation of eroded enamel lesions by saliva. *J Dent*, 2001; 29: 371-376

Amaechi BT, Higham SM, Edgar WM: Factors influencing the development of dental erosion in vitro: enamel type, temperature and exposure time. *J Oral Rehabil*, 1999; 26: 624-630

Arends J, Christoffersen J: The nature of early caries lesions in enamel. *J Dent Res*, 1986; 65: 2-11

Arends J, Christoffersen J, Christoffersen MR, Schuthof J: Influence of fluoride concentration on the progress of demineralization in bovine enamel at pH 4.5. *Caries Res*, 1983; 17: 455-457

Arends J, Christofferson J, Schuthof J, Smits MT: Influence of xylitol on demineralization of enamel. *Caries Res*, 1984; 18: 296-301

Arends J, Jongebloed WL: Crystallites dimensions of enamel. *J Biol Buccale*, 1978; 6: 161-171

Arends J, Jongebloed WL: Ultrastructural studies of synthetic apatite crystals. *J Dent Res*, 1979; 58: 837-843

Arends J, ten Bosch JJ: Demineralization and remineralization evaluation techniques. *J Dent Res*, 1992; 71 Spec No: 924-928

Ben-Aryeh H, Gutman D, Szargel R, Laufer D: Effects of irradiation on saliva in cancer patients. *Int J Oral Surg*, 1975; 4: 205-210

Berkovitz BKB, Holland GR, Moxham BJ: Oral Anatomy. Mosby-Wolfe, London, 1992

Bork K, Hoede G, Korting G, Burgdorf W, Yong S: Diseases of the oral mucosa and the lips. Saunders, Philadelphia, 1996

Bornstein M, Filippi A., Buser D: Früh- und Spätfolgen im intraoralen Bereich nach Strahlentherapie. *Schweiz Monatsschr Zahnmed*, 2001; 111: 61-68

Borsboom P, Arends J, van der Mei HC: Enamel lesion formation with and without fluorid in solution. *Caries Res*, 1985; 19: 396-402

Brown LR, Dreizen S, Handler S, Johnstone D: The effect of irradiation induced xerostomia on human oral microflora. *J Dent Res*, 1975; 11: 50-54

- Brown LR, Dreizen S, Rider LJ, Johnston DA: The effect of radiation-induced xerostomia on saliva and serum lysozyme and immunoglobulin levels. *Oral Surg Oral Med Oral Pathol*, 1976; 41: 83-92
- Brudevold F, Gron P, McCann H: Physico-chemical aspects of the enamel-saliva system. *Adv Fluorine Res*, 1965; 21: 63-78
- Buskes JAKM, Christofferson J, Arends J: Lesion formation and lesion remineralization in enamel under constant composition conditions. A new technique with application. *Caries Res*, 1985; 19: 490-496
- Cate JM, Arends J: Remineralization of artificial enamel lesions in vitro. *Caries Res*, 1977; 11: 277-286
- Chow LC: Solubility of calcium phosphates. *Monogr Oral Sci*, 2001; 18: 94-111
- Christersson CE, Lindh L, Arnebrant T: Film-forming properties and viscosities of saliva substitutes and human whole saliva. *Eur J Oral Sci*, 2000; 108: 418-425
- Davidson CL, Boom G, Arends J: Calcium distribution in human and bovine surface enamel. *Caries Res*, 1973; 7: 349-359
- Davies A: The management of xerostomia: a review. *Eur J Cancer Care*, 1997; 6: 209-214
- Davies AN: A comparison of artificial saliva and chewing gum in the management of xerostomia in patients with advanced cancer. *Palliat Med*, 2000; 14: 197-203
- Davies AN, Daniels C, Pugh R, Sharma K: A comparison of artificial saliva and pilocarpine in the management of xerostomia in patients with advanced cancer. *Palliat Med*, 1998; 12: 105-111
- de Vries HC, Ruiken HM, Konig KG, van 't Hof MA: Radiographic versus clinical diagnosis of approximal carious lesions. *Caries Res*, 1990; 24: 364-370
- Deetjen P, Speckmann E: *Physiologie*. Urban & Schwarzenberg, München-Wien-Baltimore, 1996
- Dibdin GH: The stability of water in human dental enamel studied by proton nuclear magnetic resonance. *Arch Oral Biol*, 1972; 17: 433-437
- Dreizen S, Brown LR, Handler S, Levy BM: Radiation-induced xerostomia in cancer patients. Effect on salivary and serum electrolytes. *Cancer*, 1976; 38: 273-278
- Edmunds DH, Whittaker DK, Green RM: Suitability of human, bovine, equine, and ovine tooth enamel for studies of artificial bacterial carious lesions. *Caries Res*, 1988; 22: 327-336
- Epstein JB, Stevenson-Moore P: A clinical comparative trial of saliva substitutes in radiation-induced salivary gland hypofunction. *Spec Care Dentist*, 1992; 12: 21-23

- Esser M, Tinschert J, Marx R: Materialkennwerte der Zahnhartsubstanz des Rindes im Vergleich zur humanen Zahnhartsubstanz. Dtsch Zahnärztl Z, 1998; 53: 713-717
- Feagin FF, Gonzalez M, Jeansonne BG: Kinetic reactions of calcium, phosphate, and fluoride ions at the enamel surface-solution interface. Calcif Tissue Res, 1972; 10: 113-127
- Featherstone JD: Diffusion phenomena and enamel caries development. Karger, Basel, 1984
- Featherstone JD: Modeling the caries-inhibitory effects of dental materials. Dent Mater, 1996; 12: 194-197
- Featherstone JD, Duncan JF, Cutress TW: A mechanism for dental caries based on chemical processes and diffusion phenomena during in-vitro caries simulation on human tooth enamel. Arch Oral Biol, 1979; 24: 101-112
- Featherstone JD, Mellberg JR: Relative rates of progress of artificial carious lesions in bovine, ovine and human enamel. Caries Res, 1981; 15: 109-114
- Flim GJ, Arends J: Diffusion of ^{45}Ca in bovine enamel. Calcif Tissue Res, 1977; 24: 59-64
- Frank RM, Herdly J, Phillippe E: Acquired dental defects and salivary gland lesions after irradiation for carcinoma. J Am Dent Assoc, 1965; 70: 83
- Gelhard TB, Fidler V, 's-Gravenmade EJ, Vissink A: Remineralization of softened human enamel in mucin- or CMC-containing artificial salivas. J Oral Pathol, 1983; 12: 336-341
- Gente M, Sondermann U, Lehmann KM: Linearer thermischer Ausdehnungskoeffizient von Rinderschmelz und Rinderdentin. Dtsch Zahnärztl Z, 1985; 40: 488-490
- Grötz KA, Riesenbeck D, Brahm R, Seegenschmiedt MH, al-Nawas B, Dorr W, Kutzner J, Willich N, Thelen M, Wagner W: Chronische Strahlenfolgen an den Zahnhartgeweben ("Strahlenkaries"). Klassifikation und Behandlungsansätze. Strahlenther Onkol, 2001; 177: 96-104
- Guchelaar HJ, Vermes A, Meerwaldt JH: Radiation-induced xerostomia: pathophysiology, clinical course and supportive treatment. Support Care Cancer, 1997; 5: 281-288
- Guijarro Guijarro B, Lopez Sanchez AF, Hernandez Vallejo G: Treatment of xerostomia. A review. Med Oral, 2001; 6: 7-18
- Harwood TR, Staley J, Yokoo H: Histopathology of irradiated and obstructed submandibular salivary glands. Arch Pathol, 1973; 96: 189

Hatton MN, Levine MJ, Margarone JE, Aguirre A: Lubrication and viscosity features of human saliva and commercially available saliva substitutes. *J Oral Maxillofac Surg*, 1987; 45: 496-499

Hellwig E, Klimek J, Attin T: Einführung in die Zahnerhaltung. Urban & Fischer, München-Jena, 1999

Imfeld T: Oligosialie und Xerostomie I: Basis, Beispiele, Epidemiologie, Ätiologie, Pathologie. *Schweiz Monatsschr Zahnmed*, 1984a; 94: 741-754

Imfeld T: Oligosialie und Xerostomie II: Diagnose, Prophylaxe und Behandlung. *Schweiz Monatsschr Zahnmed*, 1984b; 94: 1083-1096

Itthagarun A, Wei SH: Chewing gum and saliva in oral health. *J Clin Dent*, 1997; 8: 159-162

Jongebloed WL, 's-Gravenmade EJ, Retief DH: Radiation caries: a review and SEM study. *Am J Dent*, 1988; 1: 139-146

Joyston-Bechal S, Kidd EA: The effect of three commercially available saliva substitutes on enamel in vitro. *Br Dent J*, 1987; 163: 187-190

Keene HJ, Daly T, Brown LR, Dreizen Sr, Drane JB, Horton IM: Dental caries and streptococcus mutans prevalence in cancer patients with irradiation-induced xerostomia: 1-13 years after radiotherapy. *Caries Res*, 1981; 15: 27

Kidd EAM, Mejare I, Nyvad B: Clinical and radiographic diagnosis. Dental caries: The disease and its clinical management. Blackwell Munksgaard, 2003

Kielbassa AM, Hellwig E, Meyer-Lueckel H: Effects of irradiation on in situ remineralization of human and bovine enamel demineralized in vitro. *Caries Res*, 2006a; 40: 130-135

Kielbassa AM, Hinkelbein W, Hellwig E, Meyer-Lueckel H: Radiation-related damage to dentition. *Lancet Oncol*, 2006b; 7: 326-335

Kielbassa AM, Meyer-Lueckel H: Die Auswirkungen von Speichelersatzmitteln und Mundspüllösungen auf Dentin. *Schweiz Monatsschr Zahnmed*, 2001; 111: 1060-1066

Kielbassa AM, Schendera A, Schulte-Monting J: Microradiographic and microscopic studies on in situ induced initial caries in irradiated and nonirradiated dental enamel. *Caries Res*, 2000; 34: 41-47.

Kielbassa AM, Schilli K: Betreuung des tumortherapeutisch bestrahlten Patienten aus Sicht der Zahnerhaltung. *Zahnärztl. Mitteilungen*, 1997; 21: 2636-2646

Kielbassa AM, Shohadai SP: Die Auswirkungen von Speichelersatzmitteln auf die Läsionstiefe von demineralisiertem Schmelz. *Dtsch Zahnärztl Z*, 1999; 54: 757-763

- Kielbassa AM, Shohadai SP, Schulte-Monting J: Effect of saliva substitutes on mineral content of demineralized and sound dental enamel. *Support Care Cancer*, 2001; 9: 40-47
- Klimm W: Kariologie. Carl Hanser Verlag, München Wien, 1997
- Lagerlof F, Oliveby A: Caries-protective factors in saliva. *Adv Dent Res*, 1994; 8: 229-238
- Lammers PC, Borggreven JM, Driessens FC: Acid-susceptibility of lesions in bovine enamel after remineralization at different pH values and in the presence of different fluoride concentrations. *J Dent Res*, 1991; 70: 1486-1490
- Larsen MJ: An investigation of the theoretical background for the stability of the calcium-phosphate salts and their mutual conversion in aqueous solutions. *Arch Oral Biol*, 1986; 31: 757-761
- Larsen MJ, Jensen SJ: Solubility study of the initial formation of calcium orthophosphates from aqueous solutions at pH 5-10. *Arch Oral Biol*, 1986; 31: 565-572
- Larsen MJ, Pearce EI: Saturation of human saliva with respect to calcium salts. *Arch Oral Biol*, 2003; 48: 317-322
- Larson MJ, Bruun C: Caries chemistry and fluoride mechanism of action. Munksgaard, Kopenhagen, 1994
- Levine MJ, Aguirre A, Hatton MN, Tabak LA: Artificial salivas: present and future. *J Dent Res*, 1987; 66: 693-698
- Marks NJ, Roberts B: A proposed new method for the treatment of dry mouth. *Ann R Coll Surg Engl*, 1983; 65: 191-193
- Matzker J, Schreiber J: Synthetischer Speichel zur Therapie der Hyposalivation, insbesondere der radiogenen Sialadenitis. *Z Laryngol Rhinol Otol*, 1972; 51: 422-428
- Mellberg JR: Hard-tissue substrates for evaluation of cariogenic and anti-cariogenic activity in situ. *J Dent Res*, 1992; 71: 913-919.
- Menaker L: The biologic basis of dental caries. Harper & Row, Hagerstown, 1980
- Meurman JH, Rytömaa I, Kari K, Laakso T, Murtomaa H: Salivary pH and glucose after consuming various beverages, including sugar-containing drinks. *Caries Res*, 1987; 21: 353-359
- Meyer-Lueckel H, Hopfenmueller W, von Klinggraeff D, Kielbassa AM: Microradiographic study on the effects of mucin-based solutions used as saliva substitutes on demineralised bovine enamel in vitro. *Arch Oral Biol*, 2006a; Jul 51
- Meyer-Lueckel H, Kielbassa AM: Influence of calcium phosphates added to mucin-based saliva substitutes on bovine dentin. *Quintessence Int*, 2006; 37: 537-544

- Meyer-Lueckel H, Kielbassa AM: Die Verwendung von Speichelersatzmitteln bei Patienten mit Xerostomie. *Schweiz Monatsschr Zahnmed*, 2002; 112: 1037-1058
- Meyer-Lueckel H, Schulte-Moenting J, Kielbassa AM: The effect of commercially available saliva substitutes on predemineralized bovine dentin in vitro. *Oral Diseases*, 2002; 8: 192-198
- Meyer-Lueckel H, Tschoppe P, Hopfenmueller W, Stenzel WR, Kielbassa AM: Effect of polymers used in saliva substitutes on demineralized bovine enamel and dentin. *Am J Dent*, 2006b; 19: 308-312
- Meyer-Lueckel H, Tschoppe P, Kielbassa AM: Effect of various Ca(2+)/PO concentrations of linseed-based saliva substitutes on enamel in vitro. *J Oral Rehabil*, 2006c; 33: 760-766
- Meyer-Lueckel H, Tschoppe P, Kielbassa AM: Linseed based saliva substitutes and their effect on mineral dissolution of predemineralized bovine dentin in vitro. *J Dent*, 2006d; 34: 751-756
- Meyer JL, Nancollas GH: The effect of pH and temperature on the crystal growth of hydroxyapatite. *Arch Oral Biol*, 1972; 17: 1623-1627
- Micheelis W, Reich E: Dritte Deutsche Mundgesundheitsstudie (DMS III). Deutscher Ärzteverlag, Köln, 1999
- Mira J, Wescott WB, Starke EN, Shannon IL: Some factors influencing salivary function when treating with radiotherapy. *Int J Radiat Oncol Biol Phys*, 1981; 71: 41
- Münzel M: Die Biochemie der menschlichen Speicheldrüsensekrete. *European Archives of Oto-Rhino-Laryngology* 1976; 213: 209-285
- Nancollas GH, Mohan MS: The growth of hydroxyapatite crystals. *Arch Oral Biol*, 1970; 15: 731-745
- Nancollas GH, Tomazic B: Growth of calcium phosphate on hydroxyapatite crystals. Effect of supersaturation and ionic medium. *J Phys Chem*, 1974; 78: 2218-2225
- Nolden R, Sauerwein E: *Zahnerhaltungskunde*. Thieme, Stuttgart, 1994
- Oesterle LJ, Shellhart WC, Belanger GK: The use of bovine enamel in bonding studies. *Am J Orthod Dentofacial Orthop*, 1998; 114: 514-519
- Olsson H, Axell T, Carlsson A, Bogentoft C: Objective and subjective efficacy evaluation of various polymer-based saliva substitutes. *Scand J Dent Res*, 1993; 101: 37-39
- Osborn JW: The cross-sectional outlines of human enamel prisms. *Acta Anat (Basel)*, 1968a; 70: 493-508
- Osborn JW: Directions and interrelationship of prisms in cuspal and cervical enamel of human teeth. *J Dent Res*, 1968b; 47: 395-402

- Reeh ES, Douglas WH, Levine MJ: Lubrication of human and bovine enamel compared in an artificial mouth. *Arch Oral Biol*, 1995; 40: 1063-1072.
- Reeh ES, Douglas WH, Levine MJ: Lubrication of saliva substitutes at enamel-to-enamel contacts in an artificial mouth. *J Prosthet Dent*, 1996; 75: 649-656
- Remick R, Blasberg B, Patterson B, Carmichael R, Miles J: Clinical aspects of xerostomia. *J Clin Psychiatry*, 1983; 44: 63-65
- Roberts B: A study of the viscosity of saliva at different shear rates in dentate and edentulous patients. *J Dent*, 1977; 5: 303-309
- Roberts B: Help for the dry mouth patient. *J Dent*, 1982; 10: 226-231
- Robinson C, Weatherell JA, Hallsworth AS: Distribution of magnesium in mature human enamel. *Caries Res*, 1981; 15: 70-77
- Schmidt RF, Thews G: *Physiologie des Menschen*. Springer Verlag, Berlin-Heidelberg-New York, 1995
- Schroeder HE: *Orale Strukturbilogie*. Thieme, Stuttgart-New York, 1992
- Seifert G, Miehlke A, Haubrich J, Chilla R: *Speicheldrüsenkrankheiten*. Thieme, Stuttgart-New York, 1984
- Shannon IL, Edmonds EJ: Effect of fluoride concentration on rehardening of enamel by a saliva substitute. *Int Dent J*, 1978; 28: 421-426
- Shannon IL, McCrary BR, Starcke EN: A saliva substitute for use by xerostomic patients undergoing radiotherapy to the head and neck. *Oral Surg Oral Med Oral Pathol*, 1977; 44: 656-661
- Shannon IL, Trodahl JN, Starcke EN: Remineralization of enamel by a saliva substitute designed for use by irradiated patients. *Cancer*, 1978; 41: 1746-1750
- Shellis RP: A microcomputer program to evaluate the saturation of complex solutions with respect to biominerals. *Comput Appl Biosci*, 1988; 4: 373-379
- Shellis RP, Hallsworth AS: The use of scanning electron microscopy in studying enamel caries. *Scanning Microsc*, 1987; 1: 1109-1123
- Silverstone LM, Hicks MJ, Featherstone MJ: Dynamic factors affecting lesion initiation and progression in human dental enamel. Part I. The dynamic nature of enamel caries. *Quintessence Int*, 1988; 19: 683-711
- Silverstone LM, Wefel JS, Zimmerman BF, Clarkson BH, Featherstone MJ: Remineralization of natural and artificial lesions in human dental enamel in vitro. Effect of calcium concentration of the calcifying fluid. *Caries Res*, 1981; 15: 138-157

- Smith G, Smith AJ, Shaw L, Shaw MJ: Artificial saliva substitutes and mineral dissolution. *J Oral Rehabil*, 2001; 28: 728-731
- Spielman A, Ben-Aryeh H, Gutman D, Szargel R, Deutsch E: Xerostomia - diagnosis and treatment. *Oral Surg Oral Med Oral Pathol*, 1981; 51: 144-147.
- Sreebny LM: Recognition and treatment of salivary induced conditions. *Int Dent J*, 1989; 39: 197-204
- Sreebny LM: Xerostomia: Diagnosis, management and clinical complications. Thanet Press, Margate, 1996
- Sreebny LM, Schwartz SS: A reference guide to drugs and dry mouth. *Gerodontology*, 1986; 5: 75-99
- Takagi S, Chow LC, Shih S, Sieck BA: Effect of a two-solution fluoride mouth rinse on deposition of loosely bound fluoride on sound root tissue and remineralization of root lesions in vitro. *Caries Res*, 1997; 31: 206-211
- Tanaka M, Kadoma Y: Comparative reduction of enamel demineralization by calcium and phosphate in vitro. *Caries Res*, 2000; 34: 241-245
- ten Cate JM, Jongebloed WL, Arends J: Remineralization of artificial enamel lesions in vitro. IV. Influence of fluorides and diphosphonates on short- and long-term remineralization. *Caries Res*, 1981; 15: 60-69
- ten Cate JM, Larsen MJ, Pearce EIF, Fejerskov O: Chemical interactions between the tooth and oral fluids. *Dental Caries*. Blackwell Munksgaard, 2003
- Tenovuo J, Rekola M: Some effects of sugar-flavored acid beverages on the biochemistry of human whole saliva and dental plaque. *Acta Odontol Scand*, 1977; 35: 317-330
- van der Reijden WA, Buijs MJ, Damen JJ, Veerman EC, Ten Cate JM, Nieuw Amerongen AV: Influence of polymers for use in saliva substitutes on de- and remineralization of enamel in vitro. *Caries Res*, 1997; 31: 216-223
- van der Reijden WA, Veerman EC, Nieuw Amerongen AV: Rheological properties of commercially available polysaccharides with potential use in saliva substitutes. *Biorheology*, 1994; 31: 631-642
- van der Reijden WA, Vissink A, Veerman EC, Nieuw Amerongen AV: Treatment of oral dryness related complaints (xerostomia) in Sjogren's syndrome. *Ann Rheum Dis*, 1999; 58: 465-474
- Vissink A, De Jong HP, Busscher HJ, Arends J, 's Gravenmade EJ: Wetting properties of human saliva and saliva substitutes. *J Dent Res*, 1986; 65: 1121-1124
- Vissink A, Jansma J, Spijkervet FK, Burlage FR, Coppes RP: Oral sequelae of head and neck radiotherapy. *Crit Rev Oral Biol Med*, 2003; 14: 199-212

- Vissink A, 's Gravenmade EJ, Gelhard TB, Panders AK, Franken MH: Rehardening properties of mucin- or CMC-containing saliva substitutes on softened human enamel. Effects of sorbitol, xylitol and increasing viscosity. *Caries Res*, 1985; 19: 212-218
- Vissink A, 's Gravenmade EJ, Panders AK, Vermey A: Treatment of hyposalivation. *Ear Nose Throat J*, 1988; 67: 179-185
- Vissink A, Waterman HA, 's Gravenmade EJ, Panders AK, Vermey A: Rheological properties of saliva substitutes containing mucin, carboxymethylcellulose or polyethylenoxide. *J Oral Pathol*, 1984; 13: 22-28
- Weatherell JA, Hallsworth AS, Robinson C: The effect of tooth wear on the distribution of fluoride in the enamel surface of human teeth. *Arch Oral Biol*, 1973; 18: 1175-1189
- Weatherell JA, Weidmann SM, Eyre DR: Histological appearance and chemical composition of enamel proteins from mature human molars. *Caries Res*, 1968; 2: 281-293
- Wescott WB, Starcke EN, Shannon IL: Chemical protection against postirradiation dental caries. *Oral Surg Oral Med Oral Pathol*, 1975; 40: 709-719
- Whitford GM, Birdsong-Whitford NL, Finidori C: Acute oral toxicity of sodium fluoride and monofluorophosphate separately or in combination in rats. *Caries Res*, 1990; 24: 121-126
- Whittaker DK, Edmunds DH, Green RM: Structural characteristics of bovine enamel. *J Dent Res*, 1983; 62: 439
- Willich N, Gundacker K, Zwingers T, Rohloff R: Die Entwicklung von Strahlenkaries nach hochdosis Bestrahlung. *Strahlenther Onkol*, 1988; 164: 466-473
- Zeeck A, Eick S, Krone B, Schröder K: *Chemie für Mediziner*. Urban & Schwarzenberg, München-Wien-Baltimore, 1992
- Zimmermann JS, Wilhelm R, Niehoff P, Schneider R, Kovacs G, Kimmig B: Prophylaxe und Therapie akuter Strahlenfolgen an Haut und Schleimhaut. *Strahlenther Onkol*, 1998; 174: 142-148