

## Eine interdisziplinäre Herausforderung – Teil 1

### Überzählige Zähne im Ober- und Unterkiefer

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#### Literatur

- ALQERBAN A, JACOBS R, FIEUWS S, WILLEMS G: Comparison of two cone beam computed tomographic systems versus panoramic imaging for localization of impacted maxillary canines and detection of root resorption. *Eur J Orthod* 33: 93–102 (2011a)
- ARSLAN A, OZEL E, ALTUNDAL H: Various root abnormalities. Report of three cases. *N Y State Dent J* 74:41–43 (2008)
- BABU V, NAGESH K S, DIWAKAR N R: A rare case of hereditary multiple impacted normal and supernumerary teeth. *J Clin Pediatr Dent* 23: 59–61 (1998)
- BÄCKMAN B, WAHLIN Y B: Variations in number and morphology of permanent teeth in 7-year-old Swedish children. *Int J of Paediatr Dent* 11:11–17 (2001)
- PRAETORIUS F, PIATELLI A: Odontoma, complex type / compound type. In: BARNES L, EVESON JW, REICHART P, SIDRANSKY D (Eds): *World Health Organization Classification of Tumours. Pathology and Genetics of Head and Neck Tumours*. IARC Press: Lyon, pp 310–311 (2005)
- BATRA P, DUGGAL R, PARKASH H: Non-syndromic multiple supernumerary teeth transmitted as an autosomal dominant trait. *J Oral Pathol Med* 34: 621–625 (2005)
- BETTS A, CAMILLERI G E: A review of 47 cases of unerupted maxillary incisors. *Int J Paediatr Dent* 9: 285–292 (1999)
- BOLK L: Die überzähligen oberen Incisivi des Menschen. *Dtsch. Mschr. Zahnheilk.* 35: 185–228 (1917)
- BOTTICELLI S, VERNA C, CATTANEO P M, HEIDMANN J, MELSEN B: Two- versus three-dimensional imaging in subjects with unerupted maxillary canines. *Eur J Orthod* 33: 344–349 (2011)
- BROOK A H: A unifying aetiological explanation for anomalies of human tooth number and size. *Arch Oral Biol* 29: 373–378 (1984)

- CADENAT H, COMBELLES R, FABERT G, CLOUET M: Mesiodens and heredity. *Rev Stomatol Chir Maxillofac* 78: 341–346 (1977)
- CASSETTA M, ALTIERI F, GIANANTI M, DI-GIORGIO R, CALASSO S: Morphological and topographical characteristics of posterior supernumerary molar teeth: An epidemiological study on 25,186 subjects. *Med Oral Patol Oral Cir Bucal* 19: 545–549 (2014)
- CHEN Y H, CHENG N C, WANG Y B, YANG C Y: Prevalence of congenital dental anomalies in the primary dentition in Taiwan. *Pediatr Dent* 32: 525–529 (2010)
- CLEMENTINI M, MORLUPI A, AGRESTINI C, DI GIROLAMO M, DI GIROLAMO S, OTTRIA L: Endoscopic removal of supernumerary tooth from the nasal cavity of a child: a case report. *Oral Implantol (Rome)* 5: 21–25 (2012)
- ERICSON S, KUROL J: Radiographic examination of ectopically erupting maxillary canines. *Am J Orthod Dentofacial Orthop* 91: 483–492 (1987)
- FARIDI A, KONDYLIDOU-SIDIRA A, BACHOUR Z, PARISIS N, TSIRLIS A: Incidence of impacted and supernumerary teeth—a radiographic study in a North Greek population. *Med Oral Patol Oral Cir Bucal* 16: e56–61 (2011)
- FERNÁNDEZ MONTENEGRO P, VALMASEDA CASTELLON E, BERINI AYTÉS L, GAY ESCODA C: Retrospective study of 145 supernumerary teeth. *Med Oral Patol Oral Cir Buca* 11: 339–344 (2006)
- FERRÉS-PADRÓ E, PRATS-ARMENGOL J, FERRES-AMAT E: A descriptive study of 113 unerupted supernumerary teeth in 79 pediatric patients in Barcelona. *Med Oral Patol Oral Cir Buca* 14: 146–152 (2009)
- GALLAS M M, GARCIA A: Retention of permanent incisors by mesiodens: A family affair. *Br Dent J* 188: 63–64 (2000)
- GARVEY M T, BARRY H J, BLAKE M: Supernumerary teeth – An overview of classification, diagnosis and management. *J Can Dent Assoc* 65: 612–616 (1999)
- GÜNDÜZ K, CELENK P, ZENGİN Z, SÜMER P: Mesiodens : a radiographic study in children. *J Oral Sci* 50: 287–291 (2008)
- HANSEN L, KJAER I: A premaxilla with a supernumerary tooth indicating a developmental region with a variety of dental abnormalities: a report of nine cases. *Acta Odontol Scand* 62: 30–6 (2004)
- HEIMISDOTTIR K, BOSSHARDT D, RUF S: Can the severity of root resorption be accurately judged by means of radiographs? A case report with histology. *Am J Orthod Dentofacial Orthop* 128: 106–109 (2005)
- HUMERFELT D, HURLEN B, HUMERFELT S: Hyperdontia in children below four years of age: a radiographic study. *ASDC J Dent Child* 52: 121–124 (1985)

- HYUN H K, LEE S J, LEE S H, HAHN S H, KIM J W: Clinical characteristics and complications associated with mesiodentes. *J Oral Maxillofac Surg* 67: 2639–2643 (2009)
- JÄRVINEN S, LEHTINEN L: Supernumerary and congenitally missing primary teeth in Finnish children. An epidemiologic study. *Acta Odontol Scand* 39: 83–86 (1981)
- KAYA E, GÜNGÖR K, DEMIREL O, OZÜTÜRK O: Prevalence and characteristics of non-syndromic distomolars: a retrospective study. *J Investig Clin Dent* doi:10.1111/jicd.12108 (2014; e-pub ahead of print)
- KOCH H, SCHWARTZ O, KLAUSEN B: Indications for surgical removal of supernumerary teeth in the premaxilla. *Int J Oral Maxillofac Surg* 15: 273–281 (1986)
- KRISHNAN B, PARIDA P K, GOPALAKRISHNAN S, SATYPARAKASH M V: An unusual cause of epistaxis in a young patient: the supernumerary nasal tooth. *Oral Maxillofac Surg* 17: 315–317 (2013)
- LECO BERROCAL M I, MARTÍN MORALES J F, MARTÍNEZ GONZÁLEZ J M: An observational study of the frequency of supernumerary teeth in a population of 2000 patients. *Med Oral Patol Oral Cir Buca* 12: E134–138 (2007)
- LIU D G, ZHANG W L, ZHANG Z Y, WU Y T, MA X C: Three-dimensional evaluations of supernumerary teeth using cone-beam computed tomography for 487 cases. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod* 103: 403–411 (2007)
- LIU J F: Characteristics of premaxillary supernumerary teeth: a survey of 112 cases. *ASDC J Dent Child* 62: 262–265 (1995)
- LUTEN J R JR: The prevalence of supernumerary teeth in primary and mixed dentitions. *J Dent Child* 34: 346–353 (1967)
- MAGNUSSON T E: Hypodontia, hyperodontia, and double formation of primary teeth in Iceland. An epidemiological study. *Acta Odontol Scand* 42:137–139 (1984)
- MASON C, AZAM N, HOLT R D, RULE D C: A retrospective study of unerupted maxillary incisors associated with supernumerary teeth. *Br J Oral Maxillofac Surg* 38: 62–65 (2000)
- MÍNGUEZ-MARTINEZ I, ATA-ALI J, BONET-COLOMA C, PEÑARROCHA-OLTRA D, PEÑARROCHA-DIAGO M A, MINGUEZ-SANZ J M: Management and outcome following extraction of 303 supernumerary teeth in pediatric patients. *Pediatr Dent* 34:136–139 (2012)
- MOHEBBI S, SALEHI O, EBRAHIMPOOR S: Ectopic supernumerary tooth in nasal septum: a case study. *Iran J Otorhinolaryngol* 25: 183–186 (2013)
- MOSSAZ J, KLOUKOS D, PANDIS N, SUTER V G, KATSAROS C, BORNSTEIN M M: Morphologic characteristics, location, and associated complications of maxillary and mandibular supernumerary teeth as evaluated using cone beam computed tomography. *Eur J Orthod* 36: 708–718 (2014)

- MUNNE P M, FELSZEGHY S, JUSSILA M, SUOMALAINEN M, THESLEFF I, JERNVALL J: Splitting placodes: effects of bone morphogenetic protein and Activin on the patterning and identity of mouse incisors. *Evol Dev* 12: 383–392 (2010)
- PRIMOSCH R E: Anterior supernumerary teeth--assessment and surgical intervention in children. *Pediatr Dent* 3: 204–215 (1981)
- RAJAB L D, HAMDAN M A: Supernumerary teeth: Review of the literature and a survey of 152 cases. *Int J of Pediatr Dent* 12: 244–254 (2002)
- RAVN J J: Aplasia, supernumerary teeth and fused teeth in the primary dentition. An epidemiologic study. *Scand J Dent Res* 79: 1–6 (1971)
- RUSSELL K A, FOLWARCZNA M A: Mesiodens--diagnosis and management of a common supernumerary tooth. *J Can Dent Assoc* 69: 362–366 (2003)
- SALCIDO-GARCIA J F, LEDESMA-MONTES C, HERNANDEZ-FLORES F, PEREZ D, GARCES-ORTIZ M: Frequency of supernumerary teeth in Mexican population. *Med Oral Patol Oral Cir Buca* 9: 407–409 (2004)
- SCHMUCKLI R, LIPOWSKY C, PELTOMÄKI T: Prevalence and morphology of supernumerary teeth in the population of a Swiss community. Short communication. *Schweiz Monatsschr Zahnmed* 120: 987–993 (2010)
- SEDANO H O, GORLIN R J: Familial occurrence of mesiodens. *Oral Surg Oral Med Oral Pathol* 27: 360–362 (1969)
- SKRINJARIC I, BARAC-FURTINOVIC V: Anomalies of deciduous teeth and findings in permanent dentition. *Acta Stomatol Croat* 25: 151–156 (1991)
- STELLZIG A, BASDRA E K, KOMPOSCH G: Mesiodentes: incidence, morphology, etiology. *J Orofac Orthop* 58: 144–153 (1997)
- TAY F, PANG A, YUEN S: Unerupted maxillary anterior supernumerary teeth: report of 204 cases. *ASDC J Dent Child* 51: 289–294 (1984)
- TYROLOGOU S, KOCH G, KUROL J: Location, complications and treatment of mesiodentes--a retrospective study in children. *Swed Dent J* 29: 1–9 (2005)
- VILLALBA L, STOLBIZER F, BLASCO F, MAURIÑO NR, PILONI MJ, KESZLER A: Pericoronal Follicles of Asymptomatic Impacted Teeth: A Radiographic, Histomorphologic, and Immunohistochemical Study. *Int J Dent*: 1–6 (2012)
- VON ARX T: Mesiodens. The clinical, radiological and surgical therapeutic aspects. *Schweiz Monatsschr Zahnmed* 100: 433–445 (1990)
- WANG X P, FAN J: Molecular Genetics of Supernumerary tooth formation. *Genesis* 49: 261–277 (2011)

- YAGÜE-GARCÍA J, BERINI-AYTÉS L, GAY-ESCODA C: Multiple supernumerary teeth not associated with complex syndromes: a retrospective study. *Med Oral Patol Oral Cir Buca* 14: E331–6 (2009)
- YEUNG K H, CHEUNG R C, TSANG M M: Compound odontoma associated with an unerupted and dilacerated maxillary primary central incisor in a young patient. *Int J Paediatr Dent* 13: 208–212 (2003)
- YONEZU T, HAYASHI Y, SASAKI J, MACHIDA Y: Prevalence of congenital dental anomalies of the deciduous dentition in Japanese children. *Bull Tokyo Dent Coll* 38: 27–32 (1997)
- YUSOF WZ: Non-syndrome multiple supernumerary teeth: literature review. *J Can Dent Assoc* 56: 147–149 (1990)

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