IADR GENERAL SESSION

BARCELONA, SPAIN • JULY 14-17, 2010

PROGRAM BOOK

88th General Session & Exhibition of the IADR
5th General Session of the Pan European Region of the IADR

Location: Centre Convencions Internacional Barcelona (CCIB)

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New Exhibit Hall Hours!

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1240 Immunohistochemical Localization of HtrA1 During Mouse Tooth Development. Q. ZHANG*, X. LI, R. LI, W. CHANG, and M. ZHOU *(Hubei-MOST KLOS & KLOBM, School of Stomatology, Wuhan University, China)*

S1241 Functional Implication of Thymosin Beta 4 in the Tooth Development. Y. OOKUMA*, I. KOBAYASHI, T. KIYOSHIMA, K. NAGATA, H. FUJIWARA, H. YAMAZA, K. NONAKA, and H. SAKAI *(Kyushu University, Fukuoka, Japan)*

1242 Dental Age Estimation in Croatian Children Aged 5–14 Years. I. GALIC, M. VODANOVIC*, E. GALIC, S. JANKOVIC, M. PETROVECKI, and H. BRKIć *(University of Zagreb School of Dental Medicine, Croatia)*

1243 Smad4 Mediated Signaling is Essential for Dentin Formation. S.-O. KO, J.-Y. LEE, C.-Y. YOON, Y. CHAI, and E.-S. CHO* *(Chonbuk National University, Jeonju, South Korea)*

1244 Third Molar Development in Croatian Children and Young Adults. Z. LOVRIC*, M. VODANOVIC, J. DUMANCIC, I. CUKOVIC-BAGIC, M. PETROVECKI, and H. BRKIC *(Private Dental Clinic, Zagreb, Croatia)*

S1245 Clinico-statistical Analysis of Congenitally Missing Permanent Teeth in CLP. M. SATO*, Y. BABA, T. INOKUCHI, A. HONDA, K. KATAOKA, M. TSUJI, S. SUZUKI, and K. MORIYAMA *(Maxillofacial Orthognathics, Tokyo Medical and Dental University Graduate School, Japan)*

1246 Association Between SNPs in 17 Genes and Non-syndromic Hypodontia. J. ZHANG, S. SONG, and H. FENG* *(Peking University, Beijing, China)*

S1247 BRAK as a Candidate for Tooth Eruption Molecule. J.-H. KANG*, N.-R. JUNG, J.-H. YONG, S.Y. YANG, Y.-H. MOON, H.-I. YOO, H.-M. KO, M.-S. KIM, and S.-H. KIM *(Chonnam National University, Gwangju, South Korea)*

S1248 Differential Expression of Cyp-A in Developing Molars in Rats. N.-R. JUNG*, J.-H. KANG, H.-J. KIM, J.-D. BYUN, S.Y. YANG, Y.-H. MOON, H.-I. YOO, H.-M. KO, M.-S. KIM, and S.-H. KIM *(Chonnam National University, Gwangju, South Korea)*

1249 Expressions of Inhibitors of Differentiation in the Developing Tooth Germ. H.-Y. SUH, J.-H. KANG, S.Y. YANG, N.-R. JUNG, Y.-H. MOON, H.-I. YOO, H.-M. KO*, M.-S. KIM, and S.-H. KIM *(Chonnam National University, Gwangju, South Korea)*

S1250 Hypodontia Associated with Fgfr1 and Pax9 Polymorphisms in Hungarian Population. P. STIEDL*, D. HONTVÁRI, G. JOBBÁGY-OVÁRI, B. SOÓS, P. HERMANN, Z. TÓTH, B. KEREKES-MÁTHÉ, M. MARTONOSI, K. NAGY, I. SZÁNTÓ, Á. NAGY, M. MADLÉNA, I. TARJÁN, and G. VARGA *(Semmelweis University of Medicine, Budapest, Hungary)*

1251 Melnick-needles Syndrome is Associated with Hypodontia and Mandibular Dysmorphology. L. KJÖLLER, K. BRÖNDUM-NIELSEN, J. DAUGAARD-JENSEN, P. LARSEN, and S. KREIBORG* *(University of Copenhagen, Denmark)*

1252 3D-analysis of Tooth Dimensions in MSX1-missense Mutation: a Pilot Study. M. CRÉTON*, M.J. BOOGAARD, L. VERHAMME, T. MAAL, F. WILLEM, A. KUIJPERS-JAGTMAN, and M. CUNE *(Department of Oral and Maxillofacial Surgery, Prosthodontics and Special Dental Care, University Medical Centre, Utrecht, Netherlands)*

S1253 Topography of the Pulp Chamber in the Upper Primary Molars. C. BACCOUCHE-BELHADJ*, F. SAID, and S. GHOUL-MAZGAR *(Faculty of Dental Medicine, Monastir, Tunisia)*

1254 2 Pax9 Polymorphisms in Tooth Agenesis Patients in Eastern-Turkish Population. E. ISMAN*, O. SOKUCU, S. NERGIZ, and S. KUL *(Gaziantep Universitesi, Turkey)*

1255 Root-Form and Morphology of Human Permanent Mandibular First Molars. J.V. KARUNAKARAN* *(J K K Natarajah Dental College, Komarapalayam, Tamilnadu, India)*

S1256 Temporal Topographic Features of Lower Permanent Molar Eruption. Y. HAMADA*, M. YAGI, and K. TAKADA *(Osaka University, Kochi, Japan)*

Seq#: 159 Thursday, 15 July 2010, 4:45 p.m. - 6 p.m.
Poster Session, Exhibit Hall

Network for Practice-based Research - *Network for Practice-based Research I*

S1257 Re-orientating dental services towards prevention using evidence-based guidelines. C. BRIDGEMAN, R. SINGH*, S. SALEEM, S. TAYLOR, and R. HARRIS *(NHS Salford, United Kingdom)*

S1258 Commissioning Dental Services Under the New Dental Contract in England. R. FREEMAN*, D. PEARSON, and C. PINE *(NHS Salford, United Kingdom)*

1259 Attitude Concordance Between Dental Providers: A CROWN Study. C. DEMKO* and S. WOTMAN *(Case School of Dental Medicine, Cleveland, OH, USA)*

1260 General Dentists' Evaluation of a Clinical Governance Training Pack. G. DARBY* *(Kent Surrey Sussex Postgraduate Dental Deanery, London, United Kingdom)*

1261 Changes in General Dentists' Clinical Governance Compliance after Facilitation. J. ELSDEN*, K. EATON, and C. AREVALO *(South East Coast Health Authority, Horley, Surrey, UK, United Kingdom)*

1262 Analysis of the competency of General Dental Practice Research Facilitators. R. LADWA*, K. EATON, P. BATCHELOR, and A. NARAIN *(Faculty of General Dental Practice (UK), London, United Kingdom)*

1263 Factors used to rate dentists' technical skills: from "The Dental-PBRN". J.L. RILEY, III*, V.V. GORDAN, C.T. AJMO, M.B. JACKSON, G.H. GILBERT, and DPBRN COLLABORATIVE GROUP *(University of Florida, Gainesville, USA)*

1264 Successfully engaging practitioners to present research from The Dental PBRN. P.A. HARRIS*, D.L. MCEDWARD, S.G. BROTMAN, G.M. LEASE, D.B. RINDAL, G.H. GILBERT, V.V. GORDAN, and DPBRN COLLABORATIVE GROUP *(University of Florida, Gainesville, USA)*

1265 Value of in-office audits in The Dental Practice-Based Research Network. D.L. MCEDWARD*, P.A. HARRIS, B. THACKER, M.M. KOYFMAN, G.H. GILBERT, O.D. WILLIAMS, V.V. GORDAN, and DPBRN COLLABORATIVE GROUP *(University of Florida, Gainesville, USA)*

1266 Predictors of Post-operative Pain for Routine Dentistry in Primary Care. V. AGGARWAL*, K. MILSOM, L. MORRIS, F. CRAWFORD, and M. TICKLE *(University of Manchester, United Kingdom)*

S1267 Effectiveness of a self-etch adhesive: a practice-based evaluation. H. FRON*, C. MOUSSALLY, S. CAZIER, G. SAVARD, A.-L. SIMON, J.-B. CHIEZE, G. TIRLET, J.-N. VERGNES, and J.-P. ATTAL *(University Paris Descartes, Montrouge, France)*

1268 A Practice-Based Research Group Evaluation of a Novel Composite Restorative. R. CRISP* and F.J.T. BURKE *(University of Birmingham, United Kingdom)*

Galic I, Vodanovic M, Galic E, Jankovic S, Petrovecki M, Brkic H. Dental Age Estimation in Croatian Children Aged 5–14 Years. 88th IADR General Session & Exhibition, Barcelona, Spain, July 14 – 17, 2010. J Dent Res. 2010;89(Spec ISS B): abstract number 1242.

1242 Dental Age Estimation in Croatian Children Aged 5Â–14 Years

Thursday, July 15, 2010: 3 p.m. - 4:15 p.m.
Location: Exhibit Hall (CCIB)

I. GALIC[1], **M. VODANOVIC**[2], E. GALIC[1], S. JANKOVIC[3], M. PETROVECKI[4], and H. BRKIć[2], [1]Splitsko-dalmatinska county - Public health center, Split, Croatia, [2]University of Zagreb School of Dental Medicine, Zagreb, Croatia, [3]University Of Split, School Of Medicine, Split, Croatia, [4]University of Zagreb Medical School, Zagreb, Croatia

Dental age estimation plays an important role in orthodontics and forensic dentistry. The method employed to assess dental age in this study was developed by Demirjian and his colleagues in 1973 based upon French-Canadian samples. This method is one of the most widely used methods in the world today. Objectives: The aim of this study is to evaluate the applicability of Demirjian's method from 1976 in the dental age assessment Croatian children aged 5-14. Methods: Digitalised panoramic radiographs of 1117 children of Croatian origin, 580 girls and 537 boys whose age ranged from 5 to 14 years old, were assessed using Demirjian's method. The dental ages were compared to the chronological ages through a paired t-test. Results: The results showed that Croatian children demonstrated a more advanced dental age compared to French-Canadian children as previously presented by Demirjian. The overall mean difference between the dental age and chronological age is 1.48 years in girls and 1.84 years in boys. Conclusion: The French-Canadian standards for dental age assessment provided by Demirjian are not suitable for Croatian children. Specifically, a necessity has arisen: locally based standards of dental age assessment should be established for the population of Croatia. This study was supported by the Ministry of Science, Education and Sports of the Republic of Croatia; Grant No. 065-0650445-0423 (Human dentition in forensic and archaeological researches).

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