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Cover: On the cover this month, Dr. Jill Bolte Taylor works to finish the prototype brain for the “Brain Extravaganz!” (a public health art project promoting brain health and brain awareness). The finished exhibit, featuring 22 larger than life brains decorated by local artists, is on display around Bloomington, Indiana, until October 2012. For more information, kindly visit http://www.jbtbrains.org. Dr. Taylor is the living embodiment of the strengths of an aging society, the theme of this issue of the Journal.

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Annals of Allergy, Asthma & Immunology

Contribution of stress to asthma worsening through mast cell activation

Identifying uncontrolled asthma in children with the childhood asthma control test or exhaled nitric oxide measurement

Missed sleep and asthma morbidity in urban children

Impact of omalizumab on emergency-department visits, hospitalizations, and corticosteroid use among patients with uncontrolled asthma

Official Publication of ACAAI
American College of Allergy, Asthma & Immunology
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Dental Adhesion: Mechanism, Techniques and Durability
Manuja N / Naggal R / Pandit IK
This thorough review discusses the fundamental process of adhesion to enamel and dentin with different adhesive techniques, factors affecting the long term bonding performance of modern adhesives and addresses the current perspectives for improving bond durability.

A Delayed Hypersensitivity Reaction to a Stainless Steel Crown: A Case Report
Yilmaz A / Ozdemir CE / Yılmaz Y
The authors present a case of a delayed hypersensitivity reaction, which manifested itself as periarticular skin eruptions, after restoring the decayed first permanent molar tooth of a 13-year-old Caucasian girl with a preformed stainless steel crown.

Comparison of the Antibacterial Effect of Modified 3-mix Paste versus Ultrapex over Anaerobic Microorganisms from Infected Root Canals of Primary Teeth: An in vitro Study
Velasco-Loera N / De Alba-Vazquez Y / Garrocho-Rangel A / Gonzalez-Amaro AM / Flores-Reyes H / Pozos-Guillén AJ
The aim of this study was to evaluate in vitro the antimicrobial efficacy of a modified 3-mix paste and to compare it with an iodoform paste (Ultrapex) against anaerobic microorganisms isolated from root canals of infected or necrotic primary teeth.

Mandibular Block or Maxillary Infiltration: Does it Influence Children's Opposition to a Subsequent Dental Visit?
Ram D / Amir E / Keren R / Shapira J / Davidovich E
The purpose of this study was to investigate whether children would be more opposed to attending a dental treatment following anesthesia by mandibular block than by maxillary infiltration.

Validity and Reliability of Oral Impacts on Daily Performances Frequency Scale: A Cross-Sectional Survey among Adolescents
Usha GV / Thippeswamy HM / Nagesh L
This manuscript examines the reliability and validity of an abbreviated version of the oral impact of daily performance (OIDP) questionnaire and to analyze the interrelationship among OIDP scores, socio-demographic characteristics and oral health status among 12-15 year old adolescents.

Analysis of Root Canal Treated Primary Incisor After Trauma: Two Year Outcome
Tannure PN / Fidalgo TKS / Barcelos R / Primo LG / Maia LC
This study evaluates the outcomes of root canal treatment (RCT) in traumatized primary incisors and identifies the predisposing factors associated with therapy success.

Apexification of Anterior Teeth: A Comparative Evaluation of Mineral Trioxide Aggregate and Calcium Hydroxide Paste
Damble SG / Bhattat H / Loomba A
This study was undertaken to compare the clinical and radiographic effectiveness of Mineral Trioxide Aggregate (MTA) and Calcium Hydroxide in apexification of 30 traumatized young permanent incisors with open apices.

In vitro Biocompatibility Tests of Glass Ionomer Cements Impregnated with Collagen or Bioactive Glass to Fibroblasts
Subbarao C / Neelakantan P / Subbarao CV
This paper evaluates the biocompatibility of glass ionomer cement (GIC) impregnated with collagen or bioactive glass to BHK-21 fibroblasts in vitro.
Evaluation of Short Term Fluoride Release from Fluoride Varnishes
Ritwik P / Aubel JD / Xu X / Fan Y / Hagan J
The aim of this study was to compare the rate of fluoride release from fluoride varnishes over a 48-hour period and ascertain the time at which a plateau occurred. This data provides clinically relevant time points to resume tooth brushing after fluoride varnish application.

The Effects of Surface Pretreatment on the Microleakage of Resin-Modified Glass-Ionomer Cement Restorations
Bayrak S / Sen Tunc E / Tuloglu N
This manuscript evaluates the effect of different surface pretreatments on the marginal microleakage of Vitremer restorations.

Pathology

Salivary Parameters and Caries Indices in Children with Black Tooth Stains
Aysun Garan / Serap Akyüz / Leyla Koç Öztürk / Ay en Yarat
The present study aimed to investigate the relationship between caries related salivary factors and caries indices in children with and without black staining. DMFT and dft indices were evaluated. Salivary flow rate, pH, buffering capacity, total calcium and phosphorus were determined. Calcium and phosphorus levels were assayed by Inductive Coupled Plasma with Atomic Emission Spectrometry.

Extensive Idiopathic External Apical Root Resorption on a 13 Year Old Child
Hegde S / Shubha AB / Kakti A / Rao BD
This article describes a rare case of extensive external apical root resorption affecting multiple teeth and occurring concomitantly with localized periodontitis in a 13 year-old child. No significant systemic, local or familial findings could be identified.

Hospital Dentistry

Salivary Sialic Acid Levels and Dental Health in Children with Congenital Heart Disease
Hegde AM / Kavita Rai / Sushma KS / Suchetha Shetty
Sialic acids are terminal sugar components and marker of chronic inflammatory response present at higher levels in children with poor oral health status. So the present study aimed to evaluate the oral health status and salivary sialic acid levels among the children with congenital heart disease and normal healthy siblings.

Zimmermann-Laband Syndrome: A Case Report
Sawaki K / Mishima K / Sato A / Goda Y / Osugi A / Nakano M
This paper describes a newborn patient with Zimmermann-Laband syndrome.

Periodontal Condition and Orofacial Changes in Patients with Thalassemia Major: A Clinical and Radiographic Overview
Hattab FN
This manuscript assesses the prevalence of periodontal disease, orofacial changes and craniofacial abnormalities in 54 patients with thalassemia major (TM). Dental management is discussed.

Growth and Development

Correlation of Dental Maturity with Skeletal Maturity from Radiographic Assessment: A Review
John M Morris / Jae Hyun Park
This study reviewed articles pertinent to the relationship between developing teeth and skeletal maturity and remaining growth, and a system is proposed to give practitioners an additional assessment for growth and development.

Public Health

Well-being of Hispanic Children in the United States
Waldman HB / Perlman SP
This manuscript compiles available general information about the economic, health and social well-being of Hispanic children in the United States to develop an increased awareness of the different factors which affect these children in general.

Risk Factors Associated with Caries Experience in Children and Adolescents with Intellectual Disabilities
Bakry NS / Alaki SM
The purpose of this study was to examine caries experience and associated risk factors in children and adolescents with intellectual disability.
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