Environmental assessment and exposure reduction of rodents: a practice parameter

International consensus on hereditary and acquired angioedema

Relationship between childhood body mass index and young adult asthma

Safe administration of the seasonal trivalent influenza vaccine to children with severe egg allergy
CME Review Article

365  CRTH2 antagonists in the treatment of allergic responses involving Th2 cells, basophils, and eosinophils
Robert G. Townley, MD, and Swati Agrawal, MBBS

Practice Parameter

375  Environmental assessment and exposure reduction of rodents: a practice parameter
Wanda Phipatanakul, MD, MS; Elizabeth Matsui, MD, MHS; Jay Portnoy, MD; P. Brock Williams, PhD; Charles Barnes, PhD; Kevin Kennedy, MPH; David Bernstein, MD; Joann Blessing-Moore, MD; Linda Cox, MD; David Khan, MD; David Lang, MD; Richard Nicklas, MD; John Oppenheimer, MD; Christopher Randolph, MD; Diane Schuller, MD; Sheldon Spector, MD; Stephen A. Tiltes, MD; Dana Wallace, MD; James Sublett, MD; Jonathan Bernstein, MD; Carl Grimes; J. David Miller, PhD and James Seltzer, MD

Perspectives

388  Asthma maintenance and reliever therapy
Nizar Naji, MB, MRCPI and Paul M. O’Byrne, MB, FRCP(C)

392  Immunotherapy in polysensitized patients: new chances for the allergists?
Giorgio Ciprandi, MD; Giovanni Melioli, MD; Giovanni Passalacqua, MD and Giorgio Walter Canonica, MD

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395  International consensus on hereditary and acquired angioedema
David M. Lang, MD; Werner Aberer, MD; Jonathan A. Bernstein, MD; Hock Hee Chng, MD; Anete Sevcicovic Grumach, MD, PhD; Michihiro Hide, MD, PhD; Marcus Maurer, MD; Richard Weber, MD and Bruce Zuraw, MD

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Asthma, Lower Airway Diseases

403 Short-acting β-agonist use and its ability to predict future asthma-related outcomes
Richard H. Stanford, PharmD, MS; Manan B. Shah, PharmD, PhD; Anna O. D’Souza, BPharm, PhD; Amol D. Chhamane, BPharm, MS and Michael Schatz, MD, MS

408 Relationship between childhood body mass index and young adult asthma
Minto Porter, MD, Ganesa Wegienka, PhD; Suzanne Havstad, MA; Christian G. Nageotte, MD; Christine Cole Johnson, PhD; Dennis R. Ownby, MD and Edward M. Zoratti, MD

412 Sensitivity of impulse oscillometry and spirometry in beta-blocker induced bronchoconstriction and beta-agonist bronchodilatation in asthma
Philip M. Short, MRCP; Peter A. Williamson, MRCP and Brian J. Lipworth, MD

416 Inappropriate home albuterol use during an acute asthma exacerbation
Kelly Clayton, MD; Kathy Monroe, MD; Teresa Magruder, MD; William King, DrPH, MPH, RPh and Kathy Harrington, PhD, MPH

Systemic Allergic Disorders

Elena Jerschow, MD; Aileen P. McGinn, PhD; Gabriele de Vos, MD, MSc; Natalia Vernon, MD; Sunit Jariwala, MD; Golda Hudes, MD, PhD and David Rosenstreich, MD

426 Safe administration of the seasonal trivalent influenza vaccine to children with severe egg allergy
Matthew J. Greenhawt, MD, MBA, MSc; Jonathan M. Spergel, MD, PhD; Matthew A. Rank, MD; Todd D. Green, MD; Darlene Masnour, MD; Hemant Sharma, MD, MS; J. Andrew Bird, MD; Jinny E. Chang, MD; Diya Sinh, BS; Esther Teich, BS; John M. Kelso, MD and Georgiana M. Sanders, MD, MS

431 The prevalence and characteristics of food allergy in urban minority children
Sarah Taylor-Black, MD and Julie Wang, MD

438 Evaluation and validation of a bee venom sting challenge performed by a micro-syringe
Gabriele Cortellini, MD; Maurizio Severino, MD; Elisabetta Francescato, BS; Stefano Turillazzi, BS; Iginio Spadolini, MD; Anthi Rogakou, MD and Giovanni Passalacqua, MD

Mechanisms of Allergic and Immune Diseases

442 Correlation of Der p 2 T-cell responses with clinical characteristics of children allergic to house dust mite
Valentina Pacciani, PhD; Stefania Corrente, MD; Silvia Gregori, PhD; Andrea Pierantozzi, PhD; Romina Silenzi, MD; Marco Chianca, MD; Viviana Moschese, MD, PhD; Loredana Chini, MD and Federica Angelini, MD, PhD

448 Clarifying the transmission route of Staphylococcus aureus colonizing the skin in early childhood atopic dermatitis
Bysung Soo Kim, MD; Jee Young Park, MD; Chang Hyun Song, MD; Jun Young Kim, MD; Hyun Jung Lim, MD; Hee Sook Lee, PhD; Weon Ju Lee, MD; Seok-Jong Lee, MD; Hee Young Kang, PhD; Jung Min Kim, PhD; Won Jeong Kim, MD and Do Won Kim, MD

Interventions

454 Salbutamol tolerance to bronchoprotection: course of onset
Sarah L. Stewart, BSc; Alexandra L. Martin, BSc; Beth E. Davis, BSc, PhD and Donald W. Cockcroft, BSc, MD, FRCP(C)

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Original Articles (continued)

458 Early interventional treatment with intranasal corticosteroids compared with postonset treatment in pollinosis
Takaya Higaki, MD; Mitsuhiro Okano, MD; Seiichiro Makihara, MD; Tazuko Fujiwara, BS; Takenori Haruna, MD; Yohei Noda, MD; Shin Kanya, MD and Kazunori Nishizaki, MD

465 Fear of repeated injections in children younger than 4 years receiving subcutaneous allergy immunotherapy
Gabriele de Vos, MD; Viswanathan Shankar, DrPH; Ramin Nazari, MD; Shravan Koogavalu, MD; Mitchell Smith, Andrew Wiznia, MD and David Rosenstreicht, MD

Letters

470 Tree nut- and sesame-specific IgE do not decrease from baseline with peanut oral immunotherapy (OIT)
J. Andrew Bird, MD; Michael Kulis, PhD; Caitlin M. Burk, BA; Brian P. Vickery, MD; Stacie M. Jones, MD and Wesley Burks, MD

471 Anaphylaxis following cilantro ingestion
David W. Unkla, MSN, APN, FCCM; Anthony J. Ricketti, MD, FCCP; Peter A. Ricketti, DO; Dennis J. Cleri, MD, FACF and John R. Vennello, MD

472 Food protein-induced enterocolitis syndrome triggered by orange juice
Tara J. Federty, MD; Pam Ryan, LPN, AE-C and Chitra Dinakar, MD

473 Prolonged hypogammaglobulinemia after adjuvant rituximab for Hodgkin’s lymphoma presenting with refractory urticaria
Wayne Wolverton, DO and Bruce McClanathan, MD

474 A case report of bell pepper anaphylaxis: Could 1, 3-β-glucanase be the culprit allergen?
Ariel Callero, MD; Eva Perez, MD; Amalia Ledesma, PhD; Juan Antonio Martinez-Tadeo, MD; Guacimara Hernandez, MD; Elena Rodriguez-Plata, MD and Jose Carlos Garcia-Robaina, MD, PhD

Correction

476 Correction
Clinical Articles

1  Allotransplantation of Tooth: A Case Report
   Revathy V / Suryakanth M / Poornima P / Subba Reddy VV

5  Esthetic Smile Rehabilitation through Autogenous Bonding of Dental Fragment: A Case Report
   Gonçalves-Sena L / Guimarães Rosa Dutra AC / Corrêa-Faria P / Botelho AM / Ramos-Jorge ML / Aguilar Tavano KT

9  Evaluating the Effect of Probiotic Containing Milk on Salivary mutans streptococci Levels
   Juneja A / Kakade A

15 Effectiveness of Two Flavored Topical Anesthetic Agents in Reducing Injection Pain in Children: A Comparative Study
   Deepika A / Chandrasekhar Rao R / Vinay C / Uloopi KS / Rao VV

19 Esthetic splint - A Novel Concept for the Management of Bilateral Condylar Fracture
   Haritharan VS / Nandial B

Clinical Research For Better Practice

25 Salivary Ferritin as a Predictive Marker of Iron Deficiency Anemia in Children
   Jagannathan N / Thiruvengadam C / Ramani P / Premkumar P / Natesan A / Sherlin HJ

31 Effectiveness of Oxidative Potential as an Irritant in Pulpectomized Primary Teeth
   Valdez-Gonzalez C / Mendez-Gonzalez V / Torre-Deigadillo G / Flores-Reyes H / Gaitan-Fonseca G / Pozos-Guillen, AJ

37 Effect of Various Concentrations of Sodium Hypochlorite on Primary Dentin: An in vitro Scanning Electron Microscopic Study
   Gowda L / Mohan Das U

45 Microhardness and Surface Roughness of Glass Ionomer Cements after APF and TiF₄ Applications
   Topaloglu-Ak A / Cogulu D / Kocatas Ersin N / Sen BH

53 Hybrid Layer Width after Conventional Diamond, Carbide and Ultra-Sound CVD Burs
   Pereira Nogueira P / Cavalli V / Suzy Liporoni PCS / do Rego MA

59 An in vitro Evaluation of Antimicrobial Efficacy of Primary Root Canal Filling Materials
   Sapna Hegde / Priti Kamlesh Lala / Dinesh Rao B / Shubha AB

65 Idiopathic Ulcers as an Oral Manifestation in Pediatric Patients with AIDS: Multidisciplinary Management

Oral Pathology

71 Congenital Rubella Syndrome: Dental Manifestations and Management in a 5 year Old Child
   Sarabjit K Bhatia / Ashima Goyal / Mohit Dubey / Aditi Kapur / Priyanshi Ritwik

Hospital Dentistry

77 Effect of Continuous versus Interrupted Administration of Nitrous Oxide-Oxygen Inhalation on Behavior of Anxious Pediatric Dental Patients: A Pilot Study
   Guelmim M / Brackett R / Beavers N / Primosch RE

83 Salivary Cortisol, Alpha-Amylase and Heart Rate Variation in Response to Dental Treatment in Children
   Furlan NF / Gavião MBD / Barbosa TS / Nicolau J / Castelo PM

89 Oral Health Status in Children with Renal Disorders
   Subramaniam P / Gupta M / Mehta A

Growth and Development

95 Evaluation of Facial Anthropometric Parameters in 11-17 Year Old Boys
   Jahanbin A / Mahdavshahri N / Baghayeripour M / Esmaily H / Esfami N

103 Malocclusion: Social, Functional and Emotional Influence on Children
   Martins-Júnior PA / Marques LS / Ramos-Jorge ML

Dentofacial Orthopedics and Orthodontics

109 Modified Thermoplastic Plate: A New Proposal for Correction of Exaggerated Overbite in Mixed Dentition
   Pithon MM / Alves LP / Alves GO / Teixeira NS

Public Health

113 Dentistry and Childhood Poverty in the United States
   Waldman B / Cannella D / Perlman SP
Clinical Articles

1. Allotransplantation of Tooth: A Case Report
   Revathy V / Suryakanth M / Poomima P / Subba Reddy W
   This article shows a tooth allotransplantation as an alternative to other restorative options.

5. Esthetic Smile Rehabilitation through Autogenous Bonding of Dental Fragment: A Case Report
   Gonçalves-Sena L / Guimarães Rosa Dutra AC / Corrêa-Faria P / Botelho AM / Ramos-Jorge ML / Aguiar Tavano KT
   A case is presented of a 14-year-old male patient who suffered an oblique crown fracture and its management.

9. Evaluating the Effect of Probiotic Containing Milk on Salivary mutans streptococci Levels
   Juneja A / Kakade A
   This manuscript evaluates the changes in mutans streptococci counts in saliva after short term probiotic intervention and its delayed effects on salivary mutans streptococci count.

15. Effectiveness of Two Flavored Topical Anesthetic Agents in Reducing Injection Pain in Children: A Comparative Study
    Deepika A / Chandrasekhar Rao R / Vinay C / Ulappi KS / Rao VV
    This manuscript compares the clinical effectiveness of two strawberry flavored topical anesthetics viz. Precaine® (8% Lidocaine + 0.8% Ibucaine) and Precaine® B (20% Benzocaine) in children before intra oral local anesthetic injections and for extraction of mobile primary teeth.

19. Esthetic splint - A Novel concept for the management of Bilateral Condylar fracture
    Hanharan VS / Nandlal B
    The aim of this article is to present a case report of a bilateral sub-condylar injury in a young child with a novel concept - an esthetic splint.

Clinical Research for Better Practice

25. Salivary Ferritin as a Predictive Marker of Iron Deficiency Anemia in Children
    Jagannathan N / Thiruvengadam C / Ramani P / Premkumar P / Natesan A / Sherlin HJ
    The objective of the study was to determine the salivary Ferritin levels in children with iron deficiency anemia and its reliability as a predictive marker of the disease and whether these levels could give a new hypothetical insight on the oral epithelial changes seen in patients with iron deficiency anemia.

31. Effectiveness of Oxidative Potential Water as an Irrigant in Pulpectomized Primary Teeth
    Valdez-González C / Mendez-González V / Torre-Delgadillo G / Flores-Reyes H / Gaitan Fonseca G / Pozos-Guillén, AJ
    The aim of this study was to evaluate the effectiveness of oxidative potential water (OPW) as an irrigating solution in reducing bacterial loading in necrotic pulpectomized primary teeth.

37. Effect of Various Concentrations of Sodium Hypochlorite on Primary Dentin: An in vitro Scanning Electron Microscopic Study
    Gowda L / Mohan Das U
    The aim of this in vitro study was undertaken to assess and compare the efficacies of 1%, 2.5%, 5% and 10% NaOCl at 30, 60 and 120s on etched primary dentin.

45. Microhardness and Surface Roughness of Glass Ionomer Cements after APF and TiF₄ Applications
    Topaloglu-Ak A / Cogulu D / Kocatas Ersin N / Sen BH
    This manuscript evaluates whether TiF₄ solution and APF gel had any adverse effects on the surface morphology of newly developed glass ionomers.

53. Hybrid Layer Width after Conventional Diamond, Carbide and Ultra-Sound CVD Burs
    Pereira Nogueira P / Cavalli V / Suzy Liporoni PCS / do Rego MA
    The aim of the present study was to evaluate hybrid layer thickness of primary molars sectioned with diamond, carbide and ultrasonic CVD burs.
An *in vitro* Evaluation of Antimicrobial Efficacy of Primary Root Canal Filling Materials
Sapna Hegde / Priti Kamlesh Lala / Dinesh Rao B / Shubha AB
The present study aimed to evaluate and compare six different materials commonly used for filling the root canals of primary teeth for antimicrobial efficacy against some of the microorganisms commonly found in infected root canals.

Idiopathic Ulcers as an Oral Manifestation in Pediatric Patients with AIDS: Multidisciplinary Management
Martínez-Sandoval B / Ceballos-Hernández H / Téllez-Rodríguez J / Xochihua-Díaz L / Durán-Ibarra G / Pozos-Guillén, AJ
The aim of this report is to describe the clinical manifestations and their multidisciplinary management, in a 6-year-old girl with AIDS.

Oral Pathology

71 Congenital Rubella Syndrome: Dental Manifestations and Management in a 5 year Old Child
Sarabjot K Bhatia / Ashima Goyal / Mohit Dubey / Aditi Kapur / Priyanshi Rithwik
This case report highlights the presence of dental defects in the primary dentition and erupting permanent molars and describes management of the defects in a 5-year-old child who presented with Congenital Rubella.

Hospital Dentistry

77 Effect of Continuous versus Interrupted Administration of Nitrous Oxide-Oxygen Inhalation on Behavior of Anxious Pediatric Dental Patients: A Pilot Study
Guelmann M / Brackett R / Beavers N / Primosch RE
The purpose of this study was to determine the effect of interrupted administration of nitrous oxide (N₂O) inhalation, after obtaining profound local anesthesia, on the behavior of mildly to moderately anxious pediatric patients during routine restorative dentistry.

83 Salivary Cortisol, Alpha-Amylase and Heart Rate Variation in Response to Dental Treatment in Children
Furlan NF / Gavião MBD / Barbosa TS / Nicolau J / Castelo PM
Anxiety and stress are usually related to the dental treatment situation. The objective was to investigate salivary cortisol and alpha-amylase levels (salivary biomarkers) and heart rate in children undergoing a minor dental procedure (dental prophylaxis).

89 Oral Health Status in Children with Renal Disorders
Subramaniam P / Gupta M / Mehta A
The aim of this study was to assess the oral health status of children with renal disorders in Jaipur city, India.

Growth and Development

95 Evaluation of Facial Anthropometric Parameters in 11–17 Year Old Boys
Jahanbin A / Mahdavishahri N / Baghayeripour M / Esmailly H / Esfami N
The aim of the present study was to determine anthropometric parameters of 11–17 year old boys of northeast Iran.

103 Malocclusion: Social, Functional and Emotional Influence on Children
Martins-Júnior PA / Marques LS / Ramos-Jorge ML
This manuscript determines the association between types of malocclusion and quality of life in children between 8–10 years of age and establish correlations between the severity of the malocclusion and particular bio-psychosocial variables.

Dentofacial Orthopedics and Orthodontics

109 Modified Thermoplastic Plate: A New Proposal for Correction of Exaggerated Overbite in Mixed Dentition
Pithon MM / Alves LP / Alves GO / Teixeira NS
The purpose of this paper shows the fabrication of a modified thermoplastic plate (MTP) for correction of exaggerated overbite in mixed dentition and describes a clinical case treated with this device.

Public Health

113 Dentistry and Childhood Poverty in the United States
Waldman B / Cannella D / Perlman SP
The emphasis on unmet dental needs should not overshadow the many other health issues faced by children raised in families faced with economic deficiencies.
An Evidence-Based Meta-analysis of Vascular Endothelial Growth Factor Inhibition in Pediatric Retinal Diseases: Part 1. Retinopathy of Prematurity

A Cloud-Based Electronic Medical Record for Scheduling, Tracking, and Documenting Examinations and Treatment of Retinopathy of Prematurity

Tear Osmolarity in Premature Infants

Direct Costs for Retinoblastoma Treatment During the First Year of Comprehensive Therapy in China

Trabeculectomy Versus Combined Trabeculotomy-Trabeculectomy in Pediatric Glaucoma

Clinical Course and Characteristics of Acute Presentation of Fourth Nerve Paresis
Original Articles

332 An Evidence-Based Meta-analysis of Vascular Endothelial Growth Factor Inhibition in Pediatric Retinal Diseases: Part 1. Retinopathy of Prematurity
Mihai Miteleu, Khurram M. Chaudhary, Ronni M. Lieberman
The authors report on the quality and depth of new evidence concerning use of bevacizumab as either primary or adjunctive treatment for retinopathy of prematurity.

342 A Cloud-Based Electronic Medical Record for Scheduling, Tracking, and Documenting Examinations and Treatment of Retinopathy of Prematurity
Robert W. Arnold, Jack Jacob, Zinnia Matrix
A computer application with a deliberate NICU process improved the proportion of eligible neonates getting their scheduled eye examinations in a timely manner.

348 Tear Osmolarity in Premature Infants
Andrea Ryan, Bernadette Lanigan, Michael O’Keefe
Findings suggested that most preterm infants do not have a dry eye based on assessment of tear osmolarity.

353 Direct Costs for Retinoblastoma Treatment During the First Year of Comprehensive Therapy in China
Xunda Ji, Yi Xuan, Jing Li, Junyang Zhao, Shanglin Lu, Jing Zhang, Hui Yan, Peiquan Zhao
The authors evaluated the direct costs and analyze the potential cost-driving factors in the first year of retinoblastoma treatment in China.

359 Trabeculectomy Versus Combined Trabeculotomy-Trabeculectomy in Pediatric Glaucoma
Scott D. Lawrence, Peter A. Netland
Trabeculectomy and combined trabeculotomy-trabeculectomy with mitomycin C were equally effective at lowering average IOP in children, but combined trabeculotomy-trabeculectomy was associated with greater long-term success.

366 Clinical Course and Characteristics of Acute Presentation of Fourth Nerve Paresis
Aymen Khaier, Emma Dawson, John Lee
The prognosis for complete and spontaneous resolution of microvascular fourth nerve paresis was excellent, with 89% completely resolved within 10 months.
370 A Comparison of Different Autorefractors With Retinoscopy in Children
Yesim Oral, Nesrin Gunaydin, Ozlen Ozgur, Aysu Karatay Arsan, Sibel Oskan
Both videoretinoscopy and hand-held autorefractor can be used in both screening and examination for children as an alternative to cycloplegic retinoscopy and table-mounted autorefractor.

378 Transposition Surgery for Internuclear Ophthalmoplegia
Niraj R. Nathan, Sean P. Donahue
Transposition surgery is an effective option for surgical treatment of patients with internuclear ophthalmoplegia with exodeviation and diplopia when combined with ipsilateral lateral rectus recession.

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327 EYE TO EYE
Management of Recurrent Chalazia
Dawn N. Duss, A. Paula Grigorian, Norman B. Medow

329 WHAT'S YOUR DIAGNOSIS?

330 EDITORIAL
Acute Fourth Nerve Paresis
Leonard B. Nelson

382 LETTERS TO THE EDITORS

384 IMAGES IN PEDIATRIC OPHTHALMOLOGY