Oral Presentations

Oral Presentations (continued)

Robert Appel - Class of 2014

Fauclty Mentor: Dr. Catherine Demko Department of Community Dentistry & Dr. Jean lannadrea Department of Comprehensive Care

Patient Recall of Oral Cancer Screening Examinations

I examined patient recall of oral cancer screening examinations (OCS) compared to chart review during admitting visits to a dental school clinic. Compared to other procedures during the admit visit, the concordance between patient recall and charting for OCS was lowest.

2. Nate Buckner and Brian Cope - Class of 2012

Special Presentation: International Outreach by CWRU Dental Students

We traveled to Peru with in a group of thirteen students and four faculty and were able to treat 300 people in four days. We plan to improve our program and return annually to continue offering dental care to people in severe need.

3. Michael Davis - Class of 2014

Faculty Mentor: Dr Lance Vernon - Biological Sciences

Examining Barriers to Use of Dental Services in HIV-Infected Adults in Cleveland, Ohio - A Quantitative Study

This project examined barrier to oral health care that HIV+ patients face while seeking care. These included discrimination, transportation, finances and others. Overall we found that patients did have barriers that hindered their care, such as transportation and locating dentists who accept their insurance.

4. Chris Fraccaro - Class of 2014

Faculty Mentor: Dr. Leena Palomo - Department of Periodontics

Periodontal Benefits of Supplementation and Exercise in Post-Menopausal Women

Are the outcomes of non-surgical periodontal therapy better in postmenopausal women who use bone sparing supplements and exercise versus those who do not. Healthier groups prior to treatment had a clinically better oral health status, however, the non-healthy contro group showed the greatest improvement in periodontal health.

5. Janice Jun - Class of 2014

Faculty Mentor: Dr. Ge Jin - Biological Sciences

NOS2 induction by human beta defensin-3 (hBD3) in macrophages

This project explores the induction of NOS2 in THP-I macrophages by hBD3. This implicates a mechanism by which hBD3 may induce a protumorigenic environment via tumor macrophages, a key inflammatory modulator in the pathogenesis of cancer.

Oral Presentations (continued)

Graduate Students Poster Presentations

6. Adam Kennedy - Class of 2014

Faculty Mentor: Dr. Santosh Ghosh - Biological Sciences

Ontogeny of salivary human beta defensin-1 and lactoferin

Objective: to explore the association of salivary AMPs, hBD-1 and lactoferrin with age in a cross-sectional study.

7. Velizar Petrov - Class of 2014

Faculty Mentor: Dr. Scott Sieg and Dr. Aaron Weinberg -Department of Biological Sciences

Beta-defensin 3 and Cathelicidin-mediated Chemokine Induction in Monocytes and Macrophages

I investigated the ability of two antimicrobial peptides to modulate molecule expression and chemokine production by monocytes and macrophages in vitro. Results support a role for both hBD-3 and, to a lesser extent LL-37, influencing expression of peptides that regulate immune function.

Ahmed Alzahrani, DDS, MSD - Periodontics Class of 2012

Changes in Systemic Inflammatory Markers After Treatment of Chronic Gingivitis

This study evaluates changes in the levels of the tumor necrosis factor α (TNF- α) and C- reactive protein (CRP) in gingival crevicular fluid (GCF) after treatment of chronic givgivitis, in otherwise healthy subjects.

2. Thomas R. Bigelow D.M.D - Endodontics Class of 2013 Faculty Mentor: Dr. Andre Mickel, DDS, M.S.D. - Department of Endodontics

Influencing Factors in Endodontic and Implant Litigation: A Descriptive Study

This project utilizes the Westlaw Database to analyze lawsuits regarding dental implants and endodontics. This information was used to determine if dentist's are at a greater legal risk by placing dental implants vs. performing root canal therapy.

3. Kari A. Cunningham, DMD

Faculty Mentor: Dr. Gerald Ferretti - Department of Pediatric Dentistry

Oral Rehabilitation Under General Anesthesia – A Review of 50 Cases

A retrospective review of 100 charts of patients who received oral rehabilitation under general anesthesia in 2010 was done. Data describing patient characteristics including gender, age, behavior rating and ASA physical status was analyzed. Patient compliance with post-operative follow-up, recall appointments and additional dental intervention was also assessed.

Graduate Students Poster Presentations

Graduate Students Poster Presentations

4. Tracey E. Davies, DDS - Pediatric Dentistry 2012

Faculty Mentor: Dr. Gerald Ferretti - Department of Pediatric Dentistry

Achieving a Predictable Result Through Diagnostic Wax-Up for an Orthodontic Patient with Congenitally Missing Teeth

This is a case report of a 19 year old male patient with clinically and radiographically missing and malformed teeth. Using a pre-orthodontic diagnostic wax-up technique will provide proper guidance for restoring form and function in a patient with congenitally missing and malformed teeth.

Mark W. Galsterer, DMD - Endodontics Class of 2012

Faculty Mentor: Andre K. Mickel, DDS, M.S.D. - Department of Endodontics

Extraction of Salvageable Teeth Without Endodontic Consultation: An Alarming Trend

This project examined teeth that were extracted within the dental school and replaced with implants/ FPD's/RPD's and looked for endodontics role in consulting and treatment planning.

6. John Gerstenmaler, DMD

Faculty Mentor: Dr. Gerald Ferretti - Department of Pediatric Dentistry

Enhancing Esthetics and Reversing White Spot Lesions with a Non-Invasive MI Paste Protocol

The purpose of this study was to improve the esthetics of young permanent teeth that had been altered by fluorosis and other white spot lesions.

7. Haley Goldberg

Faculty Mentor: Dr. Gerald Ferretti - Department of Pediatric Dentistry

Age Appropriate Dental Prosthesis in a Child with Ectodermal Dysplsia

To restore the esthetic appearance and function of a 10 year-old female who presents with multiple congenitally missing and malformed teeth, and a bilateral posterior open bite.

8. Masahiro Heima, DDS, PhD - Class of 2012

Faculty Mentor: Dr. Gerald Ferretti - Department of Pediatric Dentistry

Are Parents Struggling or coping with their Children's Dental Fear? Orthognathic and Facial Cosmetic Surgery from Oral and Maxillofacial Surgeons

This research is a cross-sectional survey study about how low income African-American parents struggle with dental fear in their children.

9. Neema Jahdi, DMD - AEGD Class of 2012

Faculty Mentor: Dr. Fady Faddoul - AEGD

Case Western Reserve University

A Review of Impression Techniques for Crown and Bridge

This project sought to review some of the major impresson techniques for the final fixed restorations reported by two surveyed sample groups of practitioners (new graduates vs. practitioners with greater than five years in practice). Overall, packing cord was the most favorable method reported by both groups though new graduates utilized more options available to them.

Graduate Students Poster Presentations

Graduate Students Poster Presentations

10. Sheetal S. Kalokhe, BDS - Endodontics Class of 2012

Faculty Mentor: Andre K. Mickel, DDS, M.S.D. - Department of Endodontics

Pain and Infection Management Regimens for Patients Receiving Dental Implants by Different Specialties: A descriptive Cross- sectional study

The purpose of this study was to evaluate the preferences of postdoctoral program directors (PD's) from different specialties for prescribing analgesics and antibiotics in management of post-operative pain and infection in patients receiving implants. The results of this study revealed that in patients receiving implants, OMFS PD's routinely used NSAIDs + opioids for pain management while others routinely used NSAIDs. In case of postoperative swelling more than 60% of the pDs prescribed antibiotics and performed surgical drainage.

II. Ryan L. Reese, DMD - Endodontics Class of 2012

Faculty Mentor: Andre K. Mickel, DDS, M.S.D. - Department of Endodontics

Endodontist's Recognition of the Influence of Demographics and its Effects on Patient Selection of Endodontic Therapy Versus Implant Placement

This project examined the role of patient demographics on their decision to select endodontic therapy, or implant therapy. Overall, a patient's decision to select endodontics or implants was affected by their demographics.

12. Madhavi Setty DDS - Endodontics Class of 2013

Faculty Mentor: Andre K. Mickel, DDS, M.S.D. - Department of Endodontics

Decision Making By Patients Regarding Endodontics Versus Implants: A University Based Retrospective Observational Cohort Study

This study focused on how patient's previous dental treatment affected their decision making on future treatment options. Our results indicated that regardless of the initial treatment chosen, patients were more likely to choose the same treatment in the future therefore it is incumbent upon the practitioner to make the initial experience as pleasant as possible.

13. Amberlee Taylor, DMD

Faculty Mentor: Dr. Gerald Ferretti - Department of Pediatric Dentistry

E-Gasket Partial Overdenture Fabrication for a Patient with Ectodermal Dysplasia

The purpose of this project was to fabricate a prosthesis for an 8 year old child with ectodermal dysplasia that provided better retention than his previous conventional overdenture.

14. Brandon J. Webb, DDS - Endodontics Class of 2012

Faculty Mentor: Andre K. Mickel, DDS, M.S.D. - Department of Endodontics

A Five-Year Retrospective Analysis of Dental School Implant Placement: Location, Type and Department Preference

With the continual surge of dental implant placement in undergraduate and graduate programs patients are readily seeking implants. The advances in implantology have led to implant placement by most dental departments at the School of Dental Medicine.

School of Dental Medicin

Graduate Students Poster Presentations

Undergraduate Students Poster Presentations

15. O. Jeremy Wilde, DMD- Endodontics Class of 2012

Faculty Mentor: Andre K. Mickel, DDS, M.S.D. - Department of Endodontics

Incidence of Ailing, Failing and Failed Implants in a University Setting: A Five Year Retrospective Study

The project involved the survival and failure rates for dental implants placed in a University, and describe the systemic conditions, and demographics associated with implant failure.

Shweta Ujoaney, MDS; Meeyoung Rhee, DMD; Neema Jahdi, DMD; Mahmoud Qabazawd, DDS; Mohamed Othman, BDS

Sleep Dentistry

This presentation with illustrate the dental treatments and Appliances for patients with sleep apnea.

I. Noor Almudilal - Class of 2014

Faculty Mentor: Dr. Leena Palomo - Department of Periodontics

Does a woman's periodontium respond to exercise like a man's

This projects objective was to research if post-menopausal women who exercise respond to non-surgical periodontal therapy differently than agematched men who exercise. Although non-aurgical periodontal therapy is beneficial for both post-menopausal women who exercise and men who exercise, there was no significant difference between men and women.

2. Robert Appel - Class of 2014

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Undergraduate Students Poster Presentations

Undergraduate Students Poster Presentations

Paul Bermudez - Class of 2015

Faculty Mentors: Zhimin Feng - Senior Instructor in Biological Sciences and Aaron Weinberg - Associate Dean for Research

Using WHIM syndrome-like cells to study hBD3 induced CXCR4 internalization

Our objective was to determine the effect of hBD-3 on the internalization of WHIM syndrome-like CXCR4 mutants. Results suggest that hBD-3 induced internalization of CXCR4 may occur via a similar mechanism as seen with SDF-1, and that an intact CXCR4 cytoplasmic tail is important in this event.

4. Nicole Apollon Chirouze - Class of 2014

Faculty Mentor: Dr. Lance Vernon, Department of Biological Sciences

Receiving Dental Care: A Qualitative Assessment by HIV + Adults

The project examined HIV + adults past and future expectations concerning dental care utilization in order to identify internal and external barriers that may prevent oral health care seeking behaviors among this population. Overal HIV + patients desired more effective communication by dentists.

Michael Davis - Class of 2014

Faculty Mentor: Dr. Lance Vernon - Biological Sciences

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Undergraduate Students Poster Presentations

Undergraduate Students Poster Presentations

7. Ying-Hsien Huang - Class of 2014

Faculty Mentor: Dr. Russell Wang - Department of Comprehensive Care

Quantification of edentulous jaw bones using cone-beam computed tomography (CBCT) images

The purpose of this study was to quantitatively evaluate jaw bone quality by CBCT images. Twenty completely edentulous patients were selected; among them, cortical bone thickness, cortical and trabecular bone mineral density using Hounsfield unit were measured.

8. Janice Jun - Class of 2014

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School of Dental Medicine