

SUMMER RESEARCH PROJECTS: 2014

Dahye Joo Aurelio A. Alonso, Comp/ Andres Pinto DMD, MPH, FDS RCSEd

TMD and Pain Related Conditions in an Urban Dental School The prevalence of TMD has been conservatively estimated between 5% and 12% in different populations, and is the third major cause of orofacial pain. This study describes the proportion of patients who have TMD in an urban dental educational setting, evaluates the association of TMD to subject demographics (RDC/TMD criteria), and reports the presence of comorbid pain conditions and their association to TMD symptoms.

Emily Pham Dr. Catherine Demko, Community Dentistry

Use of a dietary screener in safety net clinics The aim of this project was to examine the general dietary habits of dental and medical patients attending a community health clinic (CHC) and dental school clinic through the use of a rapid dietary screener. The simple and efficient dietary screener revealed poor dietary habits among medical and dental patients attending these community-based clinics, but interest/intentions to make changes exist.

John Selph Jean Iannadrea, Department of Comprehensive Care and OMMDS & T. Roma
Jasinevicius, Department of Comprehensive Care

Survey of Flipped Classrooms at North American Dental Schools The project examined: (1) the level of implementation of flipped classrooms (FC) at North American dental schools, (2) whether FCs are valued by students and faculty, (3) whether FC effectiveness has been assessed at North American dental schools, and (4) if there is a need for a teaching module to help faculty implement FCs.

Andrew Wirtz Dr. Catherine Demko, Community Dentistry

Adolescent and young adult intake and attitudes concerning sugared beverages The objective of this study was to examine intake patterns and beliefs about sugared beverage among a group of adolescents and young adults attending private dental offices.

Christine DeBaz Leena Palomo, Periodontics

Postmenopausal Women with Periodontitis Have Poorer Quality of Life The goal of this project was to compare the quality of life of healthy post menopausal women to those with periodontitis. Surveying these patients revealed that periodontitis was associated with a poorer overall quality of life.

Yaelim Angela Park Masahiro Heima, Pediatric Dentistry

Parental Self-Efficacy and Locus of Control Associated with Early Childhood Caries and Oral Health

Taking into account the various literacy levels, this study created and tested a simplified version of the multidimensional locus of control questionnaire and self-efficacy questionnaire for reliability and validity in order to measure the psychosocial causality of child's oral health. These questions were targeted to determine locus of control and self efficacy of parents in a medical history chart for pediatric patients.

Christian Nguyen Dr. Russell Wang, Comprehensive Care

New Protocol of Hounsfield Unit Measurement for Primary Implant Stability This project sought to correlate the Hounsfield Unit to primary implant stability in bovine mandible and sawbone via cone beam computerized tomography and max insertion torque values. A series of formulas were generated and analyzed to measure the importance of the average hounsfield unit of cortical and trabecular layer, thickness, and real density, and max insertion torque.

Nicholas Nutile Dr. Sena Narendran, Community Dentistry

Strength Training and Occupational Pain in Dentists We investigated the association between physical exercise, including strength training, and the incidence of occupational pain in dentists.

Samuel Cohen Dr. Pandiyan, Biological Sciences

Identification of Innate Receptor Proteins in Regulatory T Cells of Oral Mucosa In this study, qPCR and ELISA techniques were used to analyze the gene expression and surface receptor protein profile of regulatory T cells in the oral mucosa of mice in health and disease.

Andleeb Qureshi Dr. Catherine Demko, PhD, Dept. of Community Dentistry; Dr. Jean Iannadrea, DDS, Depts of Oral Diagnosis & Comprehensive Care

Services delivered during inter-professional dental-nursing visits CHOMP is an inter-professional educational experience that pairs dental and nurse practitioner(NP) students and faculty during new-admit visits in the dental clinic. We reviewed charts from CHOMP and non-CHOMP visits to compare the provision of medical and health promotion services. Ninety percent of CHOMP patients received direct services or health promotion during the joint NP-dental student admit visit.