

# Community, Access, Reach, & Education in Pediatric Dentistry

## DISEASE MANAGEMENT & RISK ASSESSMENT

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### Disease Management & Risk Assessment Course Syllabus

**Course Title:** Disease Management/Risk Assessment – DS307.40

**Course Enrollment:** Pediatric Dental Residents & Advanced Clinical Trainees (ACTs)

### Course Chair



#### Francisco Ramos-Gomez, DDS, MS, MPH

Francisco J. Ramos-Gomez is a Professor of Pediatric Dentistry at UCLA, Executive Director for the UCLA Center for Children’s Oral Health, and Director of the Community Access Reach Education in Pediatric Dentistry (CARE-PD) Program. In over thirty years as a pediatric dentist, his research has focused on Early Childhood Caries (ECC) prevention, oral disease risk assessment, and community health with an emphasis on underserved populations. In addition to clinically based interventions, Dr. Ramos-Gomez has pioneered protocols in early detection, intervention and prevention of ECC. He co-founded the Center to Address Disparities in Children’s Oral Health to identify the cultural, environmental, workforce, behavioral, and biologic factors associated with health disparities among ethnic/racial groups in order to enhance health professionals’ ability to target children likely to be at risk for dental caries. Currently, Dr. Ramos-Gomez is a Diplomate of the American Board of Pediatric Dentistry and a board member of the AAPD Government Council, the Perinatal and Infant Oral Health Council, the Oral Health Action Coalition (OHAC), and the California State Dental Health Alliance.

Email: [frg@dentistry.ucla.edu](mailto:frg@dentistry.ucla.edu)

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## Course Description

In this course residents learn the fundamental concepts of health promotion and disease prevention. Emphasis is on assessment, health promotion, and risk reduction/prevention related to oral health. The American Academy of Pediatric Dentistry and the American Association of Pediatrics currently recommend that children receive their first dental evaluation within the first year of life. In general, there is an increasing trend toward providing dental care to children before the age of three. The reasons for early dental intervention with pregnant women, infants and parents are to determine the risk status based on the information from the parents and to perform a screening risk assessment and examination of infants' mouths. This early care provides an opportunity to educate and inform parents about their children's oral health. Anticipatory guidance/counseling for children's dental health is an important part of preventive care, and may be the most effective way to prevent problems (such as early childhood caries (ECC)) that traditional infectious-disease models have failed to address.

In addition to didactic session, under the leadership of Dr. Ramos-Gomez the pediatric dental residents participate in teaching and mentoring pre-doctoral students as a part of the Infant Oral Care Program (IOCP), a 10 week course in which students learn to identify white spot lesions, understand social determinants of health and how to assist families in overcoming barriers, understand the role public health plays in pediatric dentistry, and appreciate the ethical responsibility of dental professionals for the oral health of the whole community.

## Course Competencies

- Describe caries development, progression, and pathophysiology
- Learn the fundamental concepts of oral health promotion and disease prevention at the individual and at the community level.
- Describe access to care issues and develop strategies for oral disease prevention at the individual and at the community level.
- Apply risk-based diagnosis and treatment planning
- Teach and mentor younger dental students in the areas of disease management & risk assessment through IOCP

## Course Objectives

On successful completion of this course, residents will be able to:

- Understand why pregnancy provides a unique opportunity to provide oral health interventions for women and their infants.
- Realize the impact of maternal oral health on long-term oral disease status in families.
- Know the background and clinical evidence in support of perinatal and infant oral care.
- Be able to perform a caries risk assessment through the use of the CAMBRA tool for 0-5 and clinical exam results in a private practice or in a community based clinical environment.
- Identify dental products available for patient interventions and develop a treatment path to manage dental caries a patient based upon CAMBRA risk assessment protocols.
- Understand the benefits and challenges in creating buy-in from dental team members, and the influence of third-party payers on patient acceptance.
- Examine, diagnose, and treat very young children using an Infant Oral Care model.
- Effectively utilize Motivational Interviewing skills to elicit positive behavior change.

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- Comprehend the barriers to access in care for lower income families,
- Deliver perinatal and infant/toddler oral health prevention and education, and
- Be able to offer dental practitioners information on a dental practice model in working with the youngest population of pediatric patients and to gain more in depth pediatric dental experience.
- Provide education and mentorship to pre-doctoral students in each of the following areas:
  - Assessing caries risk through the use of the CAMBRA tool and clinical exam results;
  - Examining, diagnosing, and treating young children;
  - Working in a community-based clinical environment;
  - Understanding the barriers to access in care for lower income families;
  - Delivering perinatal and infant/toddler oral health education, and
  - Understanding how to integrate infant oral care into standard care delivered by pediatricians.

### **Special Supplement - Motivational Interviewing Part 1 and 2 (2-day intensive training)**

#### **Course Description**

Motivational interviewing (MI) is a collaborative, goal-oriented method of communication with particular attention to the language of change. It is designed to strengthen an individual's motivation for a movement toward a specific goal by eliciting and exploring the person's own arguments for change. In this interactive workshop, specifically tailored towards oral health professionals working with a pediatric population, Dr. Matt Allen helps participants solidify and deepen their MI skillset. This intermediate level training helps participants experience both the spirit and the skills of motivational interviewing, moving from a theoretical framework of MI to a practical working application. With the goal of increasing the level of clinical skillfulness, learning activities will include: real-life demonstrations, videotape examples, real-plays, case studies, small group exercises, and significant participant practice with feedback.

#### **Course Objectives**

After attending the part 1 course session, dental residents will be able to:

- Recognize pain syndromes common to pediatric dental practice and identify the treatments appropriate to these syndromes
- Describe pharmacology of the major categories of analgesics including opioids.
- List effective risk mitigation strategies to minimize aberrant opioid use including utilizing prescription drug monitoring programs
- Employ effective alternatives to opioid analgesics for pediatric patient pain management when opioids are not appropriate

## Infant Oral Care Program

The Infant Oral Care Program (IOCP) is led by pediatric dental residents under the guidance of Dr. Ramos-Gomez as a part of the Disease Management & Risk Assessment Module. Throughout the 10-week selective course, residents guide 3<sup>rd</sup> and 4<sup>th</sup> year dental students through the following learning requirements:

1. Reading of Articles and Papers
  - Pediatric Dental Care: Prevention and Management Protocols Based on Caries Risk Assessment
  - Into the Future: Keeping Healthy Teeth Caries Free: Pediatric CAMBRA Protocols
  - Caries Management by Risk Assessment – A Practitioner’s Guide
  - First Smiles: Dental Health Begins at Birth
  - Oral Health During Pregnancy and Early Childhood: Evidence-Based Guidelines for Health Professionals
  - Social Determinants of Pediatric Oral Health
  - Social Determinants of Health: An Essential Element in Dental Education
  - Policy on Social Determinants of Children’s Oral Health and Health Disparities by the AAPD
  - Beyond Access: The Role of Family and Community in Children's Oral Health
2. Completion of the Smiles for Life online course at: <http://www.smilesforlifeoralhealth.org/>
  - a. Course 1: Relationship of Oral & Systemic Health
  - b. Course 2: Child Oral Health
  - c. Course 4: Acute Dental Problems
  - d. Course 5: Pregnancy & Women Oral Health
  - e. Course 6: Caries Risk Assessment Fluoride Varnish & Counseling
  - f. Course 7: The Oral Exam
3. Completion of the ICDAS Core Training.
 

<https://www.iccms-web.com/content/resources/elearning>

  - a. ICCMS(TM) Core Training – Introduction
  - b. ICCMS(TM) Core Training: Element 1
  - c. ICCMS(TM) Core Training: Element 2
  - d. ICCMS(TM) Core Training: Element 3 and 4
4. Writing of a 1-2-page reflection paper on a case study, including how to assess for caries risk and address the social determinants of health.

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**Instructional Method(s) used in this course (Check all that apply)**

- |                       |                    |
|-----------------------|--------------------|
| ✓ Lecture             | Clinical Rotations |
| Seminar               | Projects           |
| ✓ Literature Review   | Grand Rounds       |
| Resident Presentation | Other: _____       |

**GME Competencies addressed by this course (Check all that apply)**

- |   |                                      |
|---|--------------------------------------|
| ✓ Patient Care                          | Interpersonal & Communication Skills |
| ✓ Medical Knowledge                     | Professionalism                      |
| Practice-based learning and improvement | Systems-based practice               |

**CODA Standards addressed by this course (Check all that apply)**

- |   |  |
|---|--|
| Biomedical sciences                             | Management of a contemporary dental practice |
| ✓ Behavior guidance                             | Patients with special health care needs      |
| Growth and development                          | Hospital dentistry                           |
| Oral facial injury and emergency care           | Pulp therapy                                 |
| Oral diagnosis, oral pathology, & oral medicine | ✓ Pediatric Medicine                         |
| ✓ Prevention and health promotion               | Advocacy                                     |
| ✓ Comprehensive dental care                     | Teaching                                     |

**Evaluation Criteria/Methods**

- Written examination (final exam at end of Summer Quarter)
- Completion of Infant Oral Care Program (IOCP) rotation. For details: <http://www.uclaiocp.org/>
- Active participation in class
- Reflection papers
- Course evaluation

**Remediation Policies**

- A customized remediation program will be designed to address areas of deficiency

## Learning Resources & Readings:

All required reading materials are uploaded into UCLA MedHub and available on the UCLA SPICE-PD website at: <http://www.uclachatpd.org/disease-management--risk-assessment.html>. Some are listed below:

### Intro to Disease Management: Contemporary Caries Management (CAMBRA & Infant Oral Care)

- [Policy on Early Childhood Caries \(ECC\) Classification](#)
- [Dental Caries - Nigel B. Pitts.](#)
- [Into the future](#)
- [Pediatric Dental Care: Prevention and Management Protocols Based on Caries Risk Assessment](#)
- [Caries Management by Risk Assessment - A Practitioners Guide](#)
- [First Smiles Dental Health Begins at Birth](#)
- [Breastfeeding and early childhood caries](#)
- [Feeding frequency in infancy and dental caries in childhood: a prospective cohort study](#)

### Cariology & ECC Prevention: Fundamentals of Caries Disease Management (Medical Approach and Microbiology of Dental Caries)

- [Social Determinants of Pediatric Oral Health](#)
- [Social Determinants of Health: An Essential Element in Dental Education](#)
- [Policy on Social Determinants of Children's Oral Health and Health Disparities by the AAPD](#)
- [Beyond Access: The Role of Family and Community in Children's Oral Health](#)
- [Pediatric Framework of Children's Oral Health.](#)
- [Rethinking The Life Course Model Framework](#)
- [Last Surgeon General Report \(Please read the Executive summary\)](#)

### Cases & Policy: Case Discussions on Caries Disease Management (Clinical Cases & Clinical Implementation)

- [Social inequalities in oral health: from evidence to action](#)
- [CPEHN oral health brief](#)
- [Minimal Intervention Dentistry: Parts 1-7 From 'Compulsive' restorative dentistry to rational therapeutic strategies READ ALL](#)
- [Managing ECC with Atraumatic Restorative Treatment and Topical Silver & Fluoride Agents](#)
- [Incidence of ECC: A systematic review and meta-analysis](#)
- [WHO Global Consultation on Public Health Intervention against ECC](#)

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## Course Schedule

### Part A

Offered yearly to 1<sup>st</sup> year residents during the summer quarter.

<b>Title</b>	<b>Lecturer</b>	<b>Hours</b>
Intro to Disease Management & Fundamentals of Caries Disease Management	Dr. Francisco Ramos-Gomez	4
CRAs, CAMBRA & 6 Steps of Infant Oral Care	Dr. Francisco Ramos-Gomez	4
Clinical Cases & MID Implementation I	Dr. Francisco Ramos-Gomez	4
Clinical Cases & MID Implementation II	Dr. Francisco Ramos-Gomez	4
Fluoride & Sealants, EB Usage for Prevention	Dr. Edmond Hewlett	4
Featherstone Prevention Course & Reflection Paper	Dr. John Featherstone	2

### Part B

Offered yearly to 2<sup>nd</sup> year residents during the summer quarter.

<b>Title</b>	<b>Lecturer</b>	<b>Hours</b>
Adverse Childhood Experience	Dr. Ilan Shapiro	2
Minimal Intervention Approaches for Caries Management in Children	Dr. Yasmi Crystal	2
Oral Health Disparities: Trends, Improvements, & Challenges	Dr. Gina Thornton-Evans	2
Who Caries?	Dr. Brian Novy	3
Future Directions in Value-Based Care in Dentistry	Dr. Carolyn Brown	2

### Part C

Offered every other year to both 1<sup>st</sup> & 2<sup>nd</sup> year residents during the spring quarter.

<b>Title</b>	<b>Lecturer</b>	<b>Hours</b>
Motivational Interviewing – Part I	Dr. Matt Allen	8
Motivational Interviewing – Part II	Dr. Matt Allen	4

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