

MATTHEW J. MADSEN, D.M.D., M.D
CURRICULUM VITAE

I. Biographical Data

Practice Address: North County Oral and Facial Surgery Center
839 E. Grand Ave
Escondido, CA 92025
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Phone: (760)432-8888

11777 Bernardo Plaza Court
Suite 207
San Diego, CA 92128

Married: Michaun Jensen-Madsen, J.D.

Children: Maylee Ida Madsen
Makelle Leann Madsen
Mirabel Charlene Madsen

II. Education

2007-2013 University of Louisville
Oral and Maxillofacial Surgery Residency
Division of Hospital and Surgical Dentistry
Louisville, KY
Certificate of Oral and Maxillofacial Surgery

2010-2011 University of Louisville
General Surgery Intern
Department of Surgery
Louisville, KY

2008-2010 M.D. University of Louisville School of Medicine
University Hospital
Louisville, KY
Degree awarded: Doctor of Medicine (MD)

2003-2007 D.M.D University of Kentucky College of Dentistry
Chandler Medical Center
Lexington, KY
Degree Awarded: Doctor of Dental Medicine (DMD)

1996, 1999-2002 B.S Brigham Young University
Provo, UT
Degree Awarded: Bachelor of Science
Emphasis: Human Biology

III. Academic Qualifications

Part 1 National Board Exam: 98 (100th percentile)

Dental School GPA: 4.0

Dental School Graduating Class Rank: 1/52

United States Medical Licensure Exam (USMLE) Step 1: 227 (95th percentile)

Step 2 CK: 216 (89th percentile)

Step 2 CS: Pass

Step 3: Pass

Board Certification:

1. Diplomate, American Board of Oral and Maxillofacial Surgeons (2015)
(ABOMS)

IV. Hospital Appointments

2007-2013: Oral and Maxillofacial Surgery Resident at University (of Louisville Hospital), Kosair Children's Hospital, Jewish Hospital

2013-current: Palomar Hospital, Escondido California
Pomerado Hospital, Poway California

V. Licensure

2007	Kentucky Dental License	#8480	Active
2013	California Medical License	#A125274	Active
2013	California Dental License	#62546	Active
2013	General Anesthesia Permit	#1664	Active

VI. Certifications

Basic Life Support (BLS)	2002-present
Advanced Cardiac Life Support (ACLS)	2007-present
Pediatric Advanced Life Support (PALS)	2011
Advanced Trauma Life Support (ATLS)	2010-present

VII. Subspecialty Training

Basic Microsurgery: Columbia University Medical Center Department of Orthopaedic Surgery	2010
Team Surgeon: Sharing the Journey International. Cleft Lip and Palate Team (Guatemala)	2013, current

VIII. Academic Honors and Awards

Predoctoral

University Scholarship: Brigham Young University	1999-2001
William B. Hebbard Scholarship (BYU)	2001
University of Kentucky Summer Research Fellowship	2003, 2004, 2005
Margaret Neild Jewell Academic Scholarship (UKCD)	2004
NIH/NCRR Mentored Medical Student Award	2004, 2005, 2006
Academic Excellence Scholarship (1 st rank in class)	2005
Kellogg Treadwell travel grant (ADEA)	2005

Basic Science Award (Omicron Kappa Upsilon, Delta Epsilon Chapter)	2005
American Association of Dental Research (AADR) Student Research Fellowship	2005
Thomas P. Hinman Scholar	2006
Academic Excellence Scholarship (1 st rank in class)	2006
AADR NSRG Dentsply/Caulk Clinical Science Award (<i>1st Place Nationally</i>)	2006
William S. Kramer Award of Excellence (Omicron Kappa Upsilon, Delta Upsilon Chapter)	2006
American Association of Oral and Maxillofacial Surgery Dental Student Award	2007
American Academy of Oral and Maxillofacial Pathology Dental Student Award	2007
Quintessence Award for Academic and Research Achievement	2007
Pierre Fauchard Academy Award for leadership	2007
Alpha Omega International Dental Fraternity (<i>Valedictorian of Graduating Class of 2007</i>)	2007
Omicron Kappa Upsilon Honorary Dental Society	2007
Summa Cum Laude Dental School Graduate, with Highest Honors (1 in class)	2007

Residency

University of Louisville OMS Resident Scholarship (fully funded medical school tuition)	2008, 2009
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Oral and Maxillofacial Surgery Foundation (OMSF) Resident Research Summit Scholarship Award	2011
Geistlich Award (2012 AAOMS meeting)	2012

IX. Research Activity

*Denotes monetary value of funds/equipment granted

A Study of the Nutritional Role in Patient Recovery from Severe Odontogenic Infection

IRB # 04-0250-FIV

Principle Investigator: Larry Cunningham, DDS, MD

Co-Investigators: **Matthew Madsen**; Joseph Van Sickels, DDS; Richard Haug, DDS.

\$12,041.32 (University of Kentucky General Clinical Research Center)*

A Biomechanical Comparison of Two Techniques for Reconstructing Atrophic Edentulous Mandible Fractures

Principle Investigator: **Matthew Madsen**

Co-Investigator: Richard H. Haug DDS

\$39,845.00 (Synthes Maxillofacial 04/05/04)*

Inflammatory Mediator Levels in Patients with Advanced Periodontal Disease Before and After Full-Mouth Extractions

IRB#03-0324-P1B

Principle Investigator: Larry Cunningham, DDS, MD

Co-Investigators: **Matthew Madsen**, Craig L. Miller DMD, Jeffrey Ebersole, PhD, Michael John Novak BDS PhD, Behruz J. Abadi, DMD

\$6,571.88 (K-30 grant for career training in therapeutics and translational research)*

The Effect of Intravenous Antibiotics on Health Related Quality of Life Outcomes and Recovery after Third Molar Surgery in Smoking Patients

IRB#04-0871-F3R

Principle Investigator: Larry L. Cunningham DDS, MD

Co-Investigators: **Matthew Madsen**, Joseph E. Van Sickels DDS.

\$1020.00 (Department of Oral Health Sciences, University of Kentucky)*

Using Prealbumin as an Inflammatory Marker in Patients with Deep Space Infections of Odontogenic Origin

IRB#04-0486-P2G

Principle Investigator: **Matthew Madsen**

Co-Investigators: Larry L. Cunningham DDS, MD, Joseph E. Van Sickels, DDS

The Long Term Stability of Open Bite Closure using LeFort I Osteotomy versus Sagittal Split Osteotomy

IRB#05-06669-P2G

Principle Investigator: **Matthew Madsen**

Co-Investigators: Larry L. Cunningham DDS, MD, Thomas Kluemper, DMD, Myron Tucker, DDS

A Biomechanical Evaluation of the Plating Techniques Used for Reconstructing Mandibular Symphysis/Parasymphysis Fractures

Principle Investigator: **Matthew Madsen**

Co-Investigators: Richard Haug DDS, Christopher A. McDaniel

\$97,230 (Synthes Maxillofacial 01/05/06)*

Trends of Oral Medicine Education in U.S. Dental Schools: A Pilot Survey

Principle Investigator: Juan F. Yepes DDS, MD

Co-Investigators: **Matthew Madsen**, Thomas P. Sollicito DMD

Immediate Bone Grafting in the Presence of Infected Mandibular Fractures: An Update.

Principle Investigator: **Matthew Madsen**

Co-Investigators: George M. Kushner DMD, MD, Brian Alpert DDS

Bone Graft Harvest Sites Options in Orthopaedic Trauma, a Prospective In Vivo Quantification Analysis.

Principle Investigator: Cyril Mauffrey MD, FRCS

Co-Investigators: **Matthew Madsen DMD, MD**, Mutannah Al-Rayyan MD, David Seligson MD

X. Scholarly Publications

Peer-reviewed publications

1. Cunningham LL, **Madsen MJ**, Peterson G: Stereoisometric Modeling Technology Applied to Tumor Resection. *J Oral Maxillofac Surg*, 63:873-878, 2005
2. **Madsen MJ**, Haug RH: A Biomechanical Comparison of Two Techniques for Reconstructing Atrophic Edentulous Mandible Fractures *J Oral Maxillofac Surg*, 64(3):457-465, 2006
3. Holm, S, Cunningham LL, Bensadoun, E, **Madsen MJ**: Hypertension: Classification, Pathophysiology and Management During Outpatient Sedations and Local Anesthesia. *J Oral Maxillofac Surg*, 64:111-121, 2006
4. Cunningham LL, **Madsen MJ**, Van Sickels, J: Using Prealbumin as an Inflammatory Marker in Patients with Deep Space Infections of Odontogenic Origin. *J Oral Maxillofac Surg*, 64(3):375-378, 2006
5. **Madsen MJ**, Yepes, JF, Cunningham LL: Osteochondroma of the Left Mandibular Condyle. Case report and discussion of Diagnostic Points. *Nevada Dental Association Journal*. Spring 2010, 12(1): 32-34
6. OA Arosarena, **Madsen MJ**, Haug RH: Special Considerations with Floor of the Mouth and Tongue Cancer. *Oral and Maxillofacial Clinics of North America* November 2006, 18(4): 521-532
7. Van Sickels J, **Madsen MJ**, Cunningham LL, Bird D: The Use of Internal Maxillary Distraction in Treatment of Maxillary Hypoplasia. *J Oral Maxillofac Surg*, 64(12):_1715-1720, 2006
8. **Madsen MJ**, Haug RH, McDaniel CA: A Biomechanical Evaluation of the Plating Techniques Used for Reconstructing Mandibular Symphysis/Parasymphysis Fractures. *J Oral Maxillofac Surg* 66 (10):2012-2019, 2008
9. **Madsen MJ**, Haug RH, Christensen BS, Aldridge E: Management of Atrophic Mandible Fractures. *Oral and Maxillofacial Clinics of North America*. 21 (2): 175-183, May 2009

10. **Madsen MJ**, Tiwana PS: Hypotensive Anesthesia Monitoring Using a Non-Invasive Arterial Line During Orthognathic Surgery. *J Oral Maxillofac Surg* 68:702-704, 2010
11. **Madsen MJ**. Case Report: Central Ossifying Fibroma. *Nevada Dental Association Journal*. Nevada Dental Association Journal. Summer 2010, 12(2): 22-23.
12. **Madsen MJ**, Mauffrey C, Bowles N, Seligson D. Using the Proximal Ulna as a Novel Site for Autogenous Bone Graft Harvesting. *Journal Oral Maxillofac Surg* 69:1930-1933, 2011
13. **Madsen MJ**, Alpert B, Kushner GM,. Failed Fixation in Atrophic Mandibular Fractures-The Case Against Miniplates. *Journal of Craniomaxillofacial Trauma and Reconstruction* 4(3):145-151, 2011
14. Mauffrey C, **Madsen MJ**, Bowles R, Seligson D. Bone Graft Harvest Sites Options in Orthopaedic Trauma: a Prospective In Vivo Quantification Study. *Injury* 43(3): 323-326, 2012
15. Mauffrey C, **Madsen MJ**. The Proximal Tibia as an Alternative Site for Bone Graft Harvest: Surgical Technique. *Orthopaedics Today* 35(3). 2012
16. **Madsen MJ**, Tiwana PS, Alpert B. The Use of Risdon Cables in Pediatric Maxillofacial Trauma: a technique revisited. *Journal of Craniomaxillofacial Trauma and Reconstruction* 5(2): 107-110, 2012
17. Mauffrey C, **Madsen MJ**, Bowles R, Seligson. Using the Proximal Ulna as a Novel Site for Bone Graft Harvesting: Surgical Technique. *Current Orthopaedic Practice*. 23(4): 386-389, 2012
18. Cunningham, LL. Novak, MJ, **Madsen MJ**, Abadi B, Ebersole JL. A bidirectional relationship of oral-systemic responses: observations of systemic host responses in patients after full-mouth extractions, *Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology*, 2014, 117, 4, 435

XI. Chapters in Books

1. Tiwana P, **Madsen MJ**. Cleft Lip and Palate: Primary Cleft Palate Repair. *Current Therapy in Oral and Maxillofacial Surgery*. St. Louis, 2012, Elsevier Saunders. pp 764-771

- 2 Alpert B, **Madsen MJ**, Kushner GM. Atrophic Edentulous Mandible Fractures. *Atlas of Oral and Maxillofacial Surgery. Eds: Kademani and Tiwana.* St. Louis, Elsevier Saunders (Textbook available 6/2015)

XII. Editorial Positions

1. Editorial Panel: *Oral and Craniofacial Tissue Engineering (OCTE) Ed. Ole Jensen*

XIII. Abstracts

1. **Madsen, MJ**, Cunningham, LL, Johnson, J: An Evaluation of the Care of Pediatric and Special Needs Patients by Recent Dental School Graduates. *Journal of Dental Education* 69:1 2005 (Abstract #1, p. 109)
2. **Madsen MJ**, Cunningham LL, Van Sickels J: Using Prealbumin as an Inflammatory Marker in Patients with Deep Space Infections of Odontogenic Origin. Hinman Student Research Symposium 2004, Memphis, Tennessee.
3. Yepes JF, Challman S, **Madsen MJ**, Sollecito TP: Trends in Oral Medicine Education in U.S. Dental Schools: A Pilot Survey. *OOOOE (99)4: 2005 (Abstract on p. 431)*
4. **Madsen MJ**, Cunningham LL, Ebersole JL, MJ Novak: Inflammatory mediator levels in patients with advanced periodontal disease before and after full-mouth extractions. Hinman Student Research Symposium 2005, Memphis, Tennessee
5. **Madsen MJ**, Cunningham LL, Ebersole JL, MJ Novak, Abadi B: Periodontal inflammatory mediators before and after full mouth extraction. *Journal of Dental Research*, Vol. 85, Special Issue A. Abstract #1782
6. Bird D, **Madsen MJ**, Van Sickels J, Cunningham LL: The Use of Internal Maxillary Distraction in Treatment of Maxillary Hypoplasia. AAOMS Annual Meeting 2006, San Diego
7. **Madsen MJ**, Kushner GM, Alpert B: Immediate Bone Grafting in the Presence of Infected Mandibular Fractures: An Update. AAOMS Annual Meeting 2011, Philadelphia.
8. Mauffrey C, Al Rayyan M, **Madsen MJ**, Seligson D: Bone graft harvest sites options in orthopaedic trauma, a prospective in vivo quantification analysis. SICOT International Society of Orthopaedic Surgery and Traumatology 2011, Prague.

Literature Reviews

Complications of lower lid blepharoplasty: Matthew J. Madsen, Larry Cunningham DDS, MD 2004

Fatal rhino-orbito-cerebral zygomycosis caused by apophysomyces elegans in a healthy patient. Matthew J. Madsen, submitted by Larry L. Cunningham DDS, MD 2005, published in JOMS

XIV. Scientific Presentations

Peterson GP, Cunningham LC, **Madsen MJ**

Poster Title: "Stereolithography applications in Oral and Maxillofacial Surgery
Kentucky Dental Association
Louisville, Kentucky (April, 2004)
(3rd Place Award in poster presentation

Madsen MJ, Cunningham LC, Van Sickels JE

Oral Presentation: "Using Prealbumin as an Inflammatory Marker in Patients with
Deep Space Infections of Odontogenic Origin."
Hinman Student Research Symposium
Memphis, Tennessee (October 29-31, 2004)

Madsen MJ, Cunningham LC, Johnson J, Potter DH

Poster title: "A Survey of Recent Dental School Graduates regarding Care of
Pediatric and Special Needs Patients."
University of Kentucky College Research Day
Lexington, Kentucky (February 15, 2005)

Madsen MJ, Cunningham LC, Johnson J, Potter DH

Poster title: "A Survey of Recent Dental School Graduates regarding Care of
Pediatric and Special Needs Patients."
ADEA Annual Meeting
Baltimore, Maryland (March 5-9, 2005)

Yepes JF, **Madsen MJ**, Chalman S, Sollecito TP

Poster title: "Trends in Oral Medicine Education in U.S. Dental Schools: A Pilot
Survey"
Joint Oral Medicine (AAOM)/Orofacial Pain (AAOP) Annual Meeting
Phoenix, Arizona (April 2005)

Madsen MJ, Cunningham LL, Ebersole JL, Novak MJ

Poster title: "Inflammatory mediator levels in patients with advanced periodontal disease before and after full-mouth extractions."

Hinman Student Research Symposium 2005,
Memphis, Tennessee

Madsen MJ, Cunningham LL, Novak MJ, Ebersole JE, Abadi B

Poster title: "Inflammatory mediator levels before and after full-mouth extractions."

AADR/IADR Annual Meeting
Orlando, Florida (March 2006)

Madsen MJ, Van Sickels J, Cunningham LL, Bird, JD: The Use of Internal Maxillary Distraction in Treatment of Maxillary Hypoplasia.

AAOMS Annual Meeting 2006, San Diego

Madsen MJ, Van Sickels J, Cunningham LL: The Use of Internal Maxillary Distraction in Treatment of Maxillary Hypoplasia.

Alpha Omega Alpha (AOA) Groves Memorial Student Research Symposium
February 1, 2007, Lexington, KY

*by invitation from UK medical school

Madsen MJ, Vickers A, Shumway B, Kushner GM. An Unusual Progression of Oral Lichen Planus to Multifocal Squamous Cell Carcinoma.

Kentucky Dental Association Annual Meeting. Louisville, KY 2011

(*1st Place)

Oral Presentations

University of Kentucky Chapter of the American Association of Dental Research,
Fall Seminar Series.

"Using Prealbumin as an Inflammatory Marker in Patients with Deep Space Infections of Odontogenic Origin."

(December 8, 2004)

University of Kentucky College of Dentistry Research Day.

"A Biomechanical Comparison of Two Methods of Atrophic Mandibular Fracture Repair."

(February 15, 2005)

Madsen MJ, Kushner GM, Alpert B: Immediate Bone Grafting in the Presence of Infected Mandibular Fractures: An Update. AAOMS Annual Meeting 2011, Philadelphia.

Madsen MJ, Barnett DW, Kushner GM, Alpert B: Experience with Immediate Reconstruction of Segmental Mandibular Defects with Non-vascularized Bone Grafts. AO North America: "2012 Challenges in Fracture Care Across Disciplines" 2012, Orlando

Matthew Madsen: Cirugia Ortonagtica y La Reconstruccion Alveolar. CONGRESO MULTIDISCIPLINARIO ESTOMATOLOGICO OCTUBRE 2013, Puebla, Mexico (2 day presentation given in Spanish)

XV. Meetings Attended

Clinical Investigator Student Trainee Forum II (CIST)
National Institute of Health (NIH) Campus
Bethesda, Maryland (November 11-12, 2004)

Annual Winter Dental Anesthesia Review Course
Univeristy of Pittsburg College of Dentistry
Park City, Utah (February 2007)

AO/ASIF Basic CMF Principles Trauma and Reconstruction
Louisville, KY
(April 2009)

Utah Facial Surgery Meeting
Park City, Utah (February 2010)

1- William Bell Northeast Orthognathic Symposium: Basic Principles in Orthognathic Surgery
New York, New York
(May 2010)

AO/ASIF CMF Advanced Course: Orbital Trauma and Reconstruction
Chicago, IL (February 2010)

OMSF Young Investigator Meeting/Resident Research Summit
Chicago, IL (May 2011)

LSU Facial Cosmetic Surgery Review. New Orleans, LA (Oct 2011)

AAOMS Annual Dental Implant Meeting. Chicago, IL (Dec 2011)

AO North America: “2012 Challenges in Fracture Care Across Disciplines” 2012, Orlando

AAOMS Annual Meeting. San Diego, CA (Sep 2012)

Oral and Maxillofacial Surgery Board Review Course. University of Colorado, Denver Colorado (Oct 2012)

All-on-4 Concepts and Treatment Protocols. Dallas, TX (Dec 2012)

AO Advanced Symposium: “Refinements in Facial Trauma and Reconstruction.” Vail, CO (Feb 2013)

XVI. Memberships in Learned Societies

*(indicated by start date)

American Association of Oral and Maxillofacial Surgeons (AAOMS)	2007-present
American Dental Association (ADA)	2003-present
American Medical Association (AMA)	2009-present
American Academy of Cosmetic Surgery (AACCS)	2009-present
American College of Surgeons (ACS)	2012-present

Elected Committees

Test Liaison Committee for UKCD class of 2007	2003,2004, 2005,2006
Student Advisory Committee (student liaison to course directors for medical microbiology, pharmacology medical physiology, histology, anatomy, biochemistry)	2004. 2005
Academic Performance Council	2004-2005,2005-2006
Vice President: Student Research Group (University of Kentucky)	2004-2005
President: Student Research Group (University of Kentucky)	2005-2006

Appointed Committees

Predocctoral Dental Scholars Program Committee	2004
Student Orientation for 2 nd year dental students	2005
External Advisory Committee	2005, 2006
Dean's Advisory Committee	2006
Search Committee for Oral Health Science Chairman	2006
Dental School Admissions Committee	2006

Teaching Experience:

Kaplan Instructor for the DAT, MCAT, and PCAT	2003,2004
Histology/ Biochemistry Tutor	2004
Human Physiology Tutor	2005
Medical Microbiology/Immunology/Pathology Tutor	2005-2007
Adjunct clinical faculty, University of Louisville School of Dentistry	2007-present

XVII. Extracurricular

Community Service

Spanish Translator for Kentucky Clinic	2003
Chemistry Merit Badge Councilor (Boy Scouts of America)	2002
Volunteer for Saturday Morning Clinic (University of Kentucky College of Dentistry)	2003-2007
Spanish Translator for Maxwell Street Legal Clinic	2004-2005
Stone Ranch Foundation Member (4S ranch)	current

Hobbies

Family, surfing, cars, fitness, cycling/mountain biking, carpentry, art