Doctor of Dental Medicine Proposal

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Presented to the Board of Governors Strategic Planning Committee
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Overview

• Vision
• Need and demand
• Proposed program curriculum and facilities
• Operating budget
• Financial model
• Community support
• Capability and benefits
Vision for the UCF Doctor of Dental Medicine Program

- UCF Health Sciences Campus at Lake Nona
- $10 million donor pledge
- Market-rate tuition program
- No cost to the state
UCF Health Sciences Campus Is a Catalyst for the Medical City
Lake Nona Medical City

Orlando International Airport

UF Research Institute

TOWN CENTER

Sanford Burnham Medical Research Institute

University of Central Florida College of Medicine

VA

Nemours
Effective Partnerships

Economic Impact at Year 2017

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual Economic Impact</td>
<td>$7.6 Billion</td>
</tr>
<tr>
<td>ROI per Dollar Invested</td>
<td>$13.50</td>
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<tr>
<td>Number of Jobs</td>
<td>30,260</td>
</tr>
<tr>
<td>Annual Wages</td>
<td>$2.8 Billion</td>
</tr>
<tr>
<td>Annual Tax Revenue</td>
<td>$460 Million</td>
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UCF Health Sciences Campus Plan

Clinical Education & Services 2
Parking Garage
Clinical Education & Services 1
Future Medical Education
Students
Parking Garage
Dentistry
Research
Nursing
Parking Garage
37 Acres
PS
FB

9/14/2011
D.M.D. Program Proposal
Facilities

• New Dental Education Building adjacent to the College of Medicine Medical Education Building
  – 120,000 square feet
  – $42.8 million
  – 200-chair primary dental care clinic

• Leveraged facilities in the Medical Education Building
Is There a Need for Dentists?

- 2008 FDOH *State of Florida’s Oral Health*
  - “The number of dentists is decreasing as more dentists retire than graduate”
  - Growing population requires more dentists

- 2009-10 FDOH *Workforce Survey of Dentists*
  - 89% of dentists with active Florida licenses responded
  - Number of dentists being licensed offsets those retiring

- 2011 UCF Analysis
  - New dentist needs in Florida
  - 355 to 504 per year through 2050
  - UF and NOVA provide 150 per year (out of 180 graduates)

**YES**
Is There a Need for Dental Care in Central Florida?

- Fastest-growing population in the state
- Significant underserved population without dental care
- “the demands for dental care are great and continue to grow” [Leslie Smith, Chief Executive Officer/Chief Medical Officer, Central Florida Family Health Center]
Are There Qualified Students?

- 12,202 national applicants to dental schools in 2009
  - 5,089 accepted (41.7%)
- 612 Florida residents applied to dental schools in 2009
  - 233 accepted (38%)
  - 125 went to UF and NOVA and 108 went out-of-state
- UF and NOVA attract students with DAT and GPA above national average

YES
2009 Non-Resident Tuition
All Dental Schools

2009-10 Non-resident Tuition

UF: $51,004
NOVA: $48,950
UCF: $48,025
Four-Year Total Cost
Tuition and Fees Comparison
Fiscal Year 2009-10 Data
Doctor of Dental Medicine Curriculum

• Four-year Doctor of Dental Medicine Degree
  – Clinically based
  – Independent, entry-level general practitioners
• Initial draft curriculum based on recommendations for new schools and consultations with existing deans
• Four primary themes
  – Biomedical foundations
  – Clinical foundations
  – Dental public health and professional practice
  – Primary dental care
D.M.D. Program Year 1

**Biomedical Sciences:**
- Biochemistry and Nutrition
- Dental Microscopic Anatomy
- Gross Head and Neck Anatomy
- Physiology of Human Organ Systems
- General Pathology
- Microbiology and Immunology of Systemic and Oral Diseases
- National Board Part 1 Review

**Clinical Sciences:**
- Dental Anatomy and Occlusion

**Ethical and Professional Practice:**
- Introduction to Oral Health and the Dental Profession
- Ethical and Professional Practice 1
- Dental Practice Readiness 1 (Practice Management)
- Dental Public Health 1: Oral Health Promotion
D.M.D. Program Year 2

- **Biomedical Sciences:**
  - Pharmacology for General Dentists
  - Pathology of the Head and Neck
  - Oral Pathology

- **Ethical and Professional Practice:**
  - Ethical and Professional Practice 2
  - Evidence-Based Practice of Dentistry
  - Dental Practice Readiness 2
  - Dental Public Health 2-Biostatistics and Epidemiology
  - Community Oral Health SL Project

- **Primary Dental Care:**
  - Clinical Medicine for General Dentists
  - Primary Dental Care Clinic
  - Practice Team Conference 1

- **Clinical Sciences:**
  - Diagnosis and Treatment Planning
  - Fundamentals of Oral Imaging Technique and Interpretation
  - Oral and Maxillofacial Surgery (includes local anesthesia and nitrous oxide)
  - Foundations of Restorative Dentistry 2
  - Clinical Fundamentals 2
  - Behavioral Sciences
  - Pediatric Dentistry
  - Orthodontics
  - Endodontics
  - Periodontal Therapy
  - Advanced Patient Assessment
D.M.D. Program Year 3

• Biomedical Sciences:
  – Biomedical and Clinical Science Integration Seminar
  – Biomedical and Clinical Science Research Practicum

• Ethical and Professional Practice:
  – Ethical and Professional Practice 3
  – Dental Practice Readiness 3
  – Dental Public Health 3-Oral Health Care Systems
  – Special and Vulnerable Patient Populations 1

• Primary Dental Care:
  – Management of Medical Emergencies
  – Integrated Clinical Science Seminar
  – Urgent Care Rotation 1 (Dental Emergency Care)
  – Primary Dental Care Clinic (21-24 hours per week all year)
  – Clinic Practice Team Conference (2 hours per week all year)
D.M.D. Program Year 4

• Clinical Sciences and Primary Dental Care:
  – Integrated Clinical Sciences Seminar 2, including modules on:
    • Pharmacotherapeutics
    • Advanced Imaging and Interpretation
    • Oral Oncology
    • Orofacial Pain
  – Hospital Dentistry Rotation
  – Pediatric Dentistry Rotation
  – Oral Surgery Rotation

• Ethical and Professional Practice:
  – Ethical and Professional Practice 4
  – Dental Practice Readiness 4
  – Special and Vulnerable Patient Populations 2
Accreditation Timetable

- Approval by Board of Governors – November 2011
- Dean and senior administrators hired – July 2012
- Commission on Dental Accreditation initial accreditation – July 2013
- Second stage of accreditation – Fall 2015
- Full accreditation – Fall 2017
Operating Budget Assumptions

- Market-rate tuition
- Operating lease of facility to support curriculum delivery and dental services
- Initial student enrollment of 60
- 57 full-time faculty members
- 54 full-time administration and support staff members
- No cost to the state
Operating Budget Snapshot

[Graph showing changes in operating budget over fiscal years 2012 to 2024, with categories for Total Expenses, Tuition and fees, and Revenue.]

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Operating Budget Gap Funding

[Bar chart showing the increase in Operating Budget Gap Funding from 2012 to 2024. The funds are categorized into Repayment, Total Expenses, Donation, University Funds, and Revenue.]
Financial Support for Facility

- Alternatives
- Process to define plan will be initiated if D.M.D. program is approved by Board of Governors
- Once defined, plan will be presented to UCF Board of Trustees and Board of Governors for approval
Sample Support Statements for Economic Development

• Mayor Buddy Dyer, City of Orlando: “a critical new plank in our efforts to build a prosperous and sustainable economy”

• Mayor Teresa Jacobs, Orange County: “will provide both immediate and long term economic impacts”

• Rick Weddle, President and CEO, Metro Orlando Economic Development Commission: “promote this region worldwide ... and attract more companies in this realm”
Sample Support Statements for the Medical City

- Rasesh Thakkar, Senior Managing Director, Tavistock Group: “one more step on our shared journey”
- Daniel P. Kelly, M.D., Professor and Scientific Director, Sanford-Burnham Medical Research Institute at Lake Nona: “exciting new opportunities for breakthrough basic and clinical research”
- Timothy W. Liezert, Medical Center Director, Orlando VA Medical Center: “Collaboration ... through our large, diverse, and comprehensive practice”
Sample Support Statements from Medical Partners

- Sherrie Sitarek, President/CEO, Orlando Health: “important component of the medical city in Lake Nona, helping to grow the Central Florida economy”
- Roger Oxendale, Chief Executive Officer, Nemours Children’s Hospital: “potential for great synergies with our pediatric dental health program”
- Maria Demas, DDS, Executive Dental Director, Orange County Health Department: “will improve healthcare in the Central Florida area”
Central Florida City-State

- The university anchors the Central Florida city-state in meeting its economic, cultural, intellectual, environmental, and societal needs.
UCF

- Second-largest university in the nation
- Nationally and internationally recognized patents and research
- “Very high research activity,” Carnegie Foundation
- Anchor of regional $5 billion simulation and training industry
- Founding partner of the Lake Nona medical city
Why a Dental Program at UCF?

• No cost to the state
• Critical to medical city vision
• Regional economic impact
• Synergy with the UCF College of Medicine
• Enhances dental care