**Program Information:**

<table>
<thead>
<tr>
<th>Program Assessed</th>
<th>Advanced Education in Orthodontics and Dentofacial Orthopedics (Certificate with a Master’s Program)</th>
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</thead>
<tbody>
<tr>
<td>Department</td>
<td>Orthodontics</td>
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<tr>
<td>School</td>
<td>School of Dental Medicine</td>
</tr>
<tr>
<td>Department Chair</td>
<td>James Mah, Program Director</td>
</tr>
<tr>
<td>Assessment Coordinator</td>
<td>Marcia Ditmyer, PhD, 702-774-2646, <a href="mailto:Marcia.ditmyer@unlv.edu">Marcia.ditmyer@unlv.edu</a></td>
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<tr>
<td>Date Submitted</td>
<td>December 21, 2016</td>
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</tbody>
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**Contact Person for This Report**

<table>
<thead>
<tr>
<th>Name</th>
<th>Dr. Marcia Ditmyer</th>
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<tbody>
<tr>
<td>Phone</td>
<td>774-2646</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:marcia.ditmyer@unlv.edu">marcia.ditmyer@unlv.edu</a></td>
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</table>

**Narrative:** The UNLV School of Dental Medicine, Advanced Education in Orthodontics and Dentofacial Orthopedics offers a 34-month combined Master’s Degree and Certificate residency program. The class size is six residents per year and will begin in late June or early July of each year. The program is designed to offer a broad spectrum of didactic, clinical, research and teaching experience in the field of orthodontics and dentofacial orthopedics. The emphasis of the program is to prepare the graduate for successful completion of all examinations and case presentations required for board certification and to become a Diplomate of the American Board of Orthodontics. The program trains the resident to have a broad knowledge and understanding of growth and development, diagnosis and treatment planning, biomechanics, craniofacial anomalies, interdisciplinary dentistry, surgical orthodontics, research methodology, classic and current review of the literature and teaching experiences. Patient care is conducted in a state of the art orthodontic clinic and technology is available for complete electronic patient records, as well as the latest in radiographic and diagnostic digital imaging. Patients are screened and accepted for treatment based on the level of treatment difficulty, educational benefit and needs of the orthodontic residents. These treatment cases represent a cross-section of the cases encountered in private practice to ensure the residents preparedness to practice orthodontics in a diverse population. The program begins with an introduction to orthodontic techniques and clinical procedures with patients assigned to each resident upon matriculation. The curriculum includes; clinical seminars, clinical orthodontics, diagnosis, treatment planning and case presentations, biomedical sciences, clinical sciences and practice management, research and classic literature reviews. Patient assignments throughout the residency will be adjusted to meet the educational needs of each resident. Proficiency evaluations will be given semi-annually to ensure each resident is progressing in the program and to provide constructive feedback. Case presentations by the residents, in the same format recommended by the American Board of Orthodontics, which allow in-depth review of treatment and outcomes provided to the patient population. Practice management courses examine aspects of traditional private practice and other options available upon completion of their training. The orthodontic residents also gain valuable educational experience by teaching the pre-doctoral students as well as mentoring and providing consultation in the clinic. The vision of the Advanced Education in Orthodontics and Dentofacial Orthopedics Residency Program is “Leading orthodontics by integrating innovation and tradition.”
The UNLV, School of Dental Medicine, Advanced Education in Orthodontics and Dentofacial Orthopedics Residency Program, strives to mentor each postgraduate student to be a "life-long learner," progressive orthodontic clinician and a thoughtful evaluator of evidence-based research. The mission of the orthodontic program is to prepare proficient graduates who have the knowledge, skills, and values to provide contemporary assessment, treatment and management of complex facial, skeletal, and dental mal-relationships in the child, adolescent, or adult. The program values include: 1) people; 2) diversity in faculty, residents, and staff; 3) Education and continuous learning; 4) collegiality; 5) altruism, service to the community, and care for the welfare of patients and the public at large; 6) interdisciplinary; 7) teamwork; 8) integrity; 9) the application of science and information technology; and future development.

Program Level Student Learning Objectives [SLOs] (Table 1):
1. Develop outstanding clinical skills to allow quality patient care and service.
2. Achieve competencies required for Board Certification.
3. Demonstrate competence in the provision of didactic and clinical instruction for educational purposes.
4. Develop, present, and defend thesis for Master’s degree.
5. Demonstrate cultural sensitivity when serving underserved populations in the state of Nevada.

Results and Recommendations:
1. **Clinical Evaluations:** All residents must receive satisfactory bi-annual clinical written evaluation scores on several clinical skills (excellent, very good, good, satisfactory, unsatisfactory). Faculty will submit a comprehensive evaluation of each resident that is summarized and reviewed with each resident. Residents will provide a self-evaluation on the same criteria and the results will be compared with faculty evaluations and reviewed with each resident. Only faculty and administrative support staff will see the data. The data will not be shared. Individual success will be indicated by scores that are satisfactory or better. An unsatisfactory score will require remediation and/or other corrective actions. Program success will be 90% satisfactory or higher scores.

2. **Oral Presentations:** Residents will present assignments orally using appropriate audiovisual aids. These presentations are part of didactic instruction, case presentations, and treatment planning courses. All presentations will be evaluated. Clinical presentations will also be evaluated by peer residents (excellent, very good, good, satisfactory, and unsatisfactory). Only faculty and administrative support staff will see the data. The data will not be shared. Individual success will be indicated by scores that are satisfactory or better. An unsatisfactory score will require remediation and/or other corrective actions. Program success will be 90% satisfactory or higher scores.

3. **Participation in Teaching:** Residents will begin teaching roles after the 2nd semester of their first year. The Y2 residents will participate in the Pre-doctoral Orthodontic Dentistry Course in teaching clinical, didactic, and laboratory materials. Y2 and Y3 residents assist in teaching Y1 residents and fellows Intro to Orthodontics during Boot Camp in their first semester. Teaching activities are evaluated as satisfactory or unsatisfactory. Only faculty and administrative support staff will see the data. The data will not be shared. Individual success will be indicated by scores that are satisfactory. An unsatisfactory score will require remediation and/or other corrective actions. Program success will be 90% satisfactory or higher scores.

4. **Project Completion:** All will conduct research, write and defend a thesis. The thesis will be evaluated as complete or incomplete. Only faculty and administrative support staff will see the data. The data will not be shared. Individual success will be indicated completion of the thesis. An incomplete thesis will require corrective actions. Program success will be 90% thesis completions on time. In addition to the thesis, at least 6 case reports will be written up for the American Board of Orthodontics examination. The case reports will be evaluated as
The results were used to help in strategic planning for SDM. The annual retreat was held in January. The strategic plan focused on vision, mission, goals and outcomes. A five year new plan was developed. The use of outcomes assessments help us in ensuring whether we met our objectives. If not what we need to do to improve and if so, what we should be doing in the future to grow SDM. The five year strategic plan was approved by the faculty assembly in Feb 2014. New planning meeting is scheduled for January 2017.

Our plan for program improvement is constantly in place. Results of Planned Assessments (see Section 5.) will be evaluated by the Program Director and appropriate faculty (e.g., Clinical Director, Course Director) to develop a plan for improvement. Input from residents (students) is welcomed. Monthly meetings are currently and will continue to be held with all residents to address ad hoc issues. Depending on the improvement or issue, for example lack of patient treatment diversity or equipment and resources a specific action plan will be created with the intent to have the plan available prior to the next time the course/activity is run. With respect to curricular and/or pedagogical improvements, our analysis of planned assessments will be utilized as a basis for continual feedback and improvement. Depending on the nature of any identified deficiencies, all faculty involved will meet and discuss an actionable plan. Working in this manner, we have been able to improve our program and over the next several years plan to enhance clinical experiences for our residents and provide more research opportunities.

**Unit Leader Approval**

**Director of Outcomes Assessment**

X By checking this box, I certify that I have read and reviewed this assessment document and that it meets the standards for both UNLV and the NWCCU.

Name Dr. Marcia Ditmyer

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**Director of Pediatric Residency Program**

X By checking this box, I certify that I have read and reviewed this assessment document and that it meets the standards for both UNLV and the NWCCU.

Name Dr. James Mah

Phone 702-774-2535

Email james.mah@unlv.edu

**Dean**

X By checking this box, I certify that I have read and reviewed this assessment document and that it meets the standards for both UNLV and the NWCCU.

Name Dr. Karen West

Phone 702-774-2500

Email Karen.west@unlv.edu
<table>
<thead>
<tr>
<th>Assessment Instrument (e.g., survey, exit exam)</th>
<th>Briefly describe the instrument, sampling strategy, and how the results are collected</th>
<th>Learning outcome(s) assessed (list by #)</th>
<th>Expected Measures (results that would indicate success)</th>
</tr>
</thead>
</table>
| Clinical Evaluations (All Levels)             | These provide real-time assessment of the students’ ability to apply the didactic knowledge they have acquired in the provision of orthodontic care. | 1,2,6                                    | >90% satisfactory or higher
- Satisfactory scores from faculty
- Minimum 35 patient starts
- Completion of majority of cases transferred to and/or started
- Treat a diverse range of malocclusions |
| Oral Presentations (All Levels)               | Students are expected to provide oral presentation regarding case studies assigned to help in teaching roles in clinical or didactic training sessions. | 1                                        | >90% satisfactory or higher
- 100% completion of assigned presentations
- Clinical case presentations |
| Participation in Case Conferences (All Levels) | Participation in Craniofacial/Nevada early intervention clinic, clinical conferences, teaching and community service | 3,4,6                                   | >90% satisfactory or higher
- All residents participating in teaching roles in clinical or didactic training sessions
- All residents participating in Craniofacial/Nevada early intervention clinic
- Participation in Community Service Care |
| Project Completion (M,E levels)               | Completion of their thesis project including the oral defense. Requirements outlined in the graduate college are followed | 2,3,5, 6                                | >90% satisfactory or higher
- Completion of Master’s Thesis
- Completion of Practice Management Projects
- Complete at least 6 ABO case reports |

Met Objectives
<table>
<thead>
<tr>
<th>Assessment Instrument (e.g., survey, exit exam)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Board Examinations (E level)</td>
<td>The postgraduate students sit for</td>
<td>3</td>
<td>&gt;90% satisfactory or higher - Pass Part II of the ABO written exam Met Objectives</td>
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