**Course Title: Oral and Maxillofacial Radiology Interpretation**

**Course Synopsis:** This course provides maxillofacial radiology residents with learning experiences that will help them develop proficiency in OMR image analysis and interpretation. The course is conducted over multiple semesters and meets in two-hour sessions with a seminar or grand rounds format. Each week, residents receive cases and are requested to generate a written report and present the case to other students and faculty. Cases include a variety of diagnoses that comprise the field of oral and maxillofacial radiology including both typical and unusual examples. Additionally, high quality properly exposed images are supplied. Many examples include plain film, CT and MR for the same case. Additional cases include other imaging modalities such contrast studies and nuclear scans. Imaging particular to salivary gland disease and TMJ disorders will also be emphasized. Residents will record these cases and may copy them for future reference or teaching.

## GOALS AND OBJECTIVES

**GOAL 1:** Enhance the residents' ability to write and present accurate case reports.

**Specific Learning Objectives:**

Residents will be able to:

1. Demonstrate knowledge of image interpretation and analysis.
2. Recognize the value of colleague input
3. Identify inaccuracies or deficiencies in their case reports.
4. Create succinct and accurate case reports that provide useful information for the practitioner.

**GOAL 2:** Enhance the residents' ability to best plan a case and interact with the referring practitioner.

**Specific Learning Objectives:**

Residents will be able to:

1. Using preliminary images, make suggestions as to the utility of further studies.
2. Explain the need for added or altered studies to the referring practitioner.
3. Describe the nature of their involvement with specialized protocols if the patient is referred for advanced image acquisition.

**GOAL 3:** Enhance the residents' ability to recognize the imaging characteristics of a disease or condition.

**Specific Learning Objectives:**

Residents will be able to:

1. Describe the imaging characteristics of a particular disorder in conjunction with a current case or several similar cases.
2. Present researched findings or evidence in support of specific claims regarding a case or to settle a dispute or disagreement.

**EVALUATION:**
1. Attendance and participation as evaluated by faculty and course director.
2. Course director's evaluation

## Goals and Objectives

**GOAL 4:** Residents enhance their proficiency in OMR interpretation by developing reports on a progressive series of cases.

**Specific Learning Objectives:**

Residents will be able to:
1. Identify diagnostic features on plain film cases.
2. Describe how to achieve more specific and accurate diagnostic information using advanced imaging.
3. Analyze advanced images for adjunctive information such as size, location, nature of the border and relationship to adjacent structures.

**GOAL 5:** Residents learn how to design specific imaging studies and make recommendations to referring practitioners.

**Specific Learning Objectives:**

Residents will be able to:
1. Critique assigned cases and describe how further studies could affect the outcome or the diagnostic impression.
2. Identify cases that have been over-planned and describe how advanced imaging or special procedure added little to the diagnosis or to the outcome.

**EVALUATION:**

1. Write accurate reports on assigned cases
2. Compile and categorize cases in the Student Logbook
3. Performs the following tasks in a mock board examination

   - Identify and describe imaging features
   - Distinguish signs particular to one or more disorders
   - Explain basis for diagnostic decisions

**LEARNING OUTCOMES:**
Develop proficiency in recognizing conventional and advanced imaging techniques, modalities and different settings
Develop proficiency in reading and interpreting conventional and advanced techniques images

Develop proficiency in establishing a differential diagnosis.
Develop proficiency in establishing a management approach.