



# *The Hebrew University of Jerusalem*

## *Syllabus*

### *Practice in Clinical Radiologic Interpretation - Part 1 - 97756*

*Last update 20-09-2023*

*HU Credits: 3*

*Degree/Cycle: 2nd degree (Master)*

*Responsible Department: Dental Medicine*

*Academic year: 0*

*Semester: 1st Semester*

*Teaching Languages: Hebrew*

*Campus: Ein Karem*

*Course/Module Coordinator: Dr Nadler Chen*

*Coordinator Email: [Nadler@hadassah.org.il](mailto:Nadler@hadassah.org.il)*

*Coordinator Office Hours: One week + Home teaching - Hours would be set between the lecturer and the school VAAD*

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Teaching Staff:

Dr. Chen Nadler,  
Ms. ,  
Dr. Tevel Amiel,  
Dr. ANYA NOVIKOV,  
Dr. Amina Massarwa,  
Dr. Robert Borgos,  
Ms. Anna Hefetz-Sadchikov

Course/Module description:

The course will provide the student with oro-maxillofacial imaging skills for producing intra-oral common radiographs including bitewings and periapicals. Interpretation of maxillofacial pathology and underlying altered systemic conditions based on a systematic approach for radiograph review. During this course the student will learn how to elaborate a differential diagnosis for findings in various dental imaging techniques. The students are required to interpret FMX, Orthopantomograms (PAN), elaborate treatment planning for patients considering correlation of clinical data and present a short seminar on the differential diagnosis of a radiographic finding they encountered during the rotation. Practice the use of software for digital radiology, exercise the use of film based radiology, exposure to advanced imaging techniques used for dental and maxillofacial diagnosis CBCT, and sialography The students participate in outpatient consultations; they collect the primary data and present the patient to the instructors

Course/Module aims:

The purpose of this course is to provide the student the opportunity to interpret radiographs, report radiographic findings, correlate the findings with clinical and pathological data and elaborate self skills for quality control  
Train the students how to distinguish normal anatomy from pathological findings, their presence in consultations with other colleagues will demonstrate how to properly communicate with colleagues in and out of dental school, show them how to elaborate a differential diagnosis based on the radiological findings and clinical data, and how to report the findings. To develop the students' self criticism and quality control. Improve students' skills in using imaging software. Expose the students to advanced imaging modalities available for dental practice. The student will be able to decide when to refer the patient for further imaging studies

Learning outcomes - On successful completion of this module, students should be able to:

produce and interpret intra-oral radiographs and elaborate a treatment plan based

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on the clinical data correlated to the radiographic findings.

- Distinguish, describe and report pathologies in dental intraoral and extraoral radiographs.
- Elaborate a differential diagnosis for the finding, decide how to manage the patient, refer for additional evaluation or refer to a specialist or follow-up if needed.
- Interpret a radiological finding and assess based on clinical radiology and pathology correlations what is the most accurate diagnosis.
- Decide and select the appropriate imaging modality for a specific clinical or radiological finding in question

This course supports the following HUHSDM Professional Practice Competencies: 1.4, 2.4, 2.5, 2.6, 2.10., 3.10, 3.11, 3.12

Attendance requirements(%):

100%

Teaching arrangement and method of instruction: Producing radiographs on manikins, watching extra-oral radiographs, Seminars of radiographic interpretations of anatomy, dental and jaw pathologies

Course/Module Content:

Intra-oral radiographs production  
Anatomy quiz,  
Radiological reporting - FMS + PANORAMIC  
Description and differential diagnosis of radiological image

Required Reading:

White SC, Pharoah MJ. ; Oral Radiology: Principles and Interpretation. St. Louis; Mosby-Year Book, 6th edition; 2009. (International edition)  
2. Whaites E.; Essentials of Dental Radiography and Radiology. Churchill-livingstone, 4th edition, 2007

Additional Reading Material:

previous courses 97878,

Grading Scheme:

Mid-terms exams 5 %

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*Clinical Work / Lab Work / Practical Work / Workshops 30 %*  
*Personal Guide / Tutor / Team Evaluation 60 %*  
*Presentation / Poster Presentation / Lecture 5 %*

*Additional information:*

*Students who wish to change dates must bring the person to change and show the agreement to Harpaz*

*Anatomy quiz will be open on Wednesday*

*Student must arrive on first day at 0815, with white coat after they had watches FMS report*

*Intra-oral radiographs production (30%)*

*Anatomy quiz, (5%)*

*Radiological reporting (60%)*

*Presenting 1 xray for concluding seminar(5%)*