

Dental Radiology

1. IMPRINT

Academic Year	2022/2023
Department	Faculty of Dental Medicine
Field of study	English Dentistry Division
Main scientific discipline (in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)	Medical sciences
Study Profile (general academic / practical)	General academic
Level of studies (1 st level /2 nd level/ uniform MSc)	Uniform MSc
Form of studies	Full-time program
Type of module / course (obligatory / non-compulsory)	Obligatory
Form of verification of learning outcomes (exam / completion)	Completion
Educational Unit / Educational Units (and address / addresses of unit / units)	Department of Dental and Maxillofacial Radiology Medical University of Warsaw ul. Binieckiego 6, 02-097 Warszawa, tel. 22 116 64 10 e-mail: zrs@wum.edu.pl

Head of Educational Unit / Heads of Educational Units	prof. dr hab. n. med. Kazimierz Szopiński	
Course coordinator (title, First Name, Last Name, contact)	Anna Pogorzelska DMD, PhD, anna.pogorzelska@wum.edu.pl	
Person responsible for syllabus (First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported)	Piotr Regulski DMD, PhD, piotr.regulski@wum.edu.pl	
Teachers	Professor Kazimierz Szopiński MD, PhD, kazimierz.szopinski@wum.edu.pl Piotr Regulski DMD, PhD, piotr.regulski@wum.edu.pl Anna Pogorzelska DMD, PhD, anna.pogorzelska@wum.edu.pl Lek. stom. Stanisław Jalowski DMD, stanislaw.jalowski@wum.edu.pl Lek. Dominika Piątek MD, dominika.piatek@wum.edu.pl Lek. dent. Monika Syczewska DMD, monika.syczewska@wum.edu.pl	

2. BASIC INFORMATION				
Year and semester of studies	4 th year, 7 th semester		Number of ECTS credits	3,5
		Number of hours	ECTS credits calculation	
Seminar (S)		8	0,	32
Discussions (D)		42	1,	68
e-learning (e-L)				
Practical classes (PC)				
Work placement (WP)				
Unassisted student's work				
Preparation for classes and completions		38	1,5	

3.	COURSE OBJECTIVES
01	To acquire the ability to write radiological reports and documentation of basic intra- and extraoral examinations.
02	To acquire practical skills in radiological and differential diagnosis of the teeth, alveoli and facial pathologies.
03	To acquire knowledge in the field of CBCT diagnostics.

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING (concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study)

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Knowledge – Graduate* knows and understands:		
A.W1.	structures of the human body: cells, tissues, organs and systems, with particular emphasis on the dental system	
B.W9.	methods of imaging tissues and organs and the principles of operation of diagnostic devices used for this purpose	
E.W20.	conditions, when the patient should be referred to hospital.	
F.W18.	principles of radiological diagnostics	
G.W34.	rules for keeping, storing and sharing medical records and personal data protection	

Skills- Graduate* is able to:

A.U1.	interpret anatomical relations illustrated with the basic methods of diagnostic tests in the field of radiology (overview and contrast agent radiographs)
E.U1.	carry out differential diagnosis of the most common diseases
E.U3.	plan diagnostic and therapeutic procedures in the most common diseases
E.U5.	identify normal and pathological structures and organs in additional imaging examinations (X-ray, ultrasound, computed tomography - CT)
F.U11.	keep current patient records, prescribe referrals for tests or for a specialized dental and medical treatment
F.U18.	diagnose, differentiate and classify malocclusion
G.U26.	keep medical records

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 "graduate", not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory)		
Number of effect of learning	Effects of learning in terms of	
Knowledge – Gradu	ate knows and understands:	
К1		
Skills– Graduate is a	able to:	
S1		
Social Competencie	es – Graduate is ready for:	
SC1		

orm of class	Class contents	Effects of Learning
	S1 – Anatomy on panoramic radiographs. Radiological diagnostics - caries, marginal periodontium	F.W18., E.U1, E.U3., F.U18. F.U23.
Seminars	S2- Radiological symptoms of periapical periodontium pathology. PAI index. Radiological diagnosis - focal cyst lesions.	E.W20., F.W18., E.U1., E.U3., F.U11.
	S3 – Radiological diagnosis of trauma of the teeth, alveolar process and other structures of the craniofacial. X-ray symptoms of trauma.	A.W1., F.W18., A.U1., E.W20., E.U1.,E.U3., E.U5., G.U26.
Classes	C1 – Technique of taking panoramic radiographs. The concept of a layer. Discussion of the most common technical errors and the	F.W18., A.U1., E.U1., E.U5., F.U23.
	possibility of their correction. C2- Examination of the patient: technique of taking panoramic radiographs. Discussion of the practical aspects of panoramic radiographs, elimination of errors.	F.W18., G.W34., E.U1., C.U11 F.U23.
	C3- Anatomy of the facial part of the cranium on panoramic radiographs, shadows, anatomical variations	F.U23.
	C4- Dental abnormalities - diagnostics on panoramic radiographs C5 – Radiological symptoms of pathology in the diagnosis of defects in mineralized tooth tissues of carious and non-carious origin in deciduous and permanent teeth, assessment of marginal periodontium on panoramic radiographs	F.W18., E.U1. G.W34., E.U1., E.U3., G.U26., B.W9.
	C6 - Radiological symptoms of periapical periodontium pathology – differentiation	F.W18., A.U1.
	C7, C8 – Radiological diagnosis of trauma within the teeth and the alveolar process	E.U3, E.U5.
	C9 - 10 – Radiological diagnosis - discussing cases on panoramic radiographs. Radiological symptoms of pathology in the field of defects in mineralized tissues of the tooth, marginal periodontium, periapical	F.W18., A.U1., E.U1., G.U26., F.U11.
	periodontium, as well as focal lesions and trauma. C11-12 multimedia classes with the use of e-learning	F.W18., A.U1., E.U1., E.U5., F.U23

7. LITERATURE

Obligatory

- 1. Whaites E., Drage N. Essentials of Dental Radiography and Radiology. Churchill Livingstone Elsevier 2013
- 2. White SC., Pharoah MJ. Oral Radiology principles and interpretation. Elsevier Mosby 2013
- 3. Langlais RP., Miller C. Exercises in Oral Radiology and Interpretation Elsevier 2017

Supplementary

1. Coulthard P, Horner K, Sloan P, Theaker E. Master dentistry, volume one: Oral and maxillofacial surgery, radiology, pathology and oral medicine. Churchill Livingstone Elsevier 2008

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
A.W1.	The Colloquium is organized by the Office of Quality and Innovation.	Colloquium - passing over 60%
B.W9.	The colloquium (for a total of 60 minutes) consists of three parts:	of points
E.W20.	1. Multiple choice test (all combinations possible - from all incorrect to all	Passing all the exercises (if the
F.W18.	correct), 10 questions, 3 distractors, negative points (15 points).	student is unprepared for the
G.W34.	2. Single choice (electronic) test (25 points)	classes, the assistant may fail
A.U1.	One answer scheme for each question:	the classes! - should be passed
E.U1.	a) all;	with another group or in writir
E.U3.	b) II	(paper, test / written test on a
E.U5.	c) III	given issue - the assistant
F.U11.	d) I and II	decides).
F.U18.	e) I and III	Students are obliged to pass al
G.U26.	and short answer questions - anatomy - terminology according to "Exercises	e-learning radiological courses
	in Oral Radiology and Interpretation" Robert P. Langlais, Craig Miller.	as an unassisted student's
	3. Practical part in the field of preparation of the report of intraoral and	work.
	panoramic radiographs. (20 points).	90% attendance is required
	The first and second term of the colloquium has a test form. In the case of	(3 delays are treated as one
	failure, the colloquium can be held only with the consent of the Head of	absence!)
	Department.	

9. ADDITIONAL INFORMATION (information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club)

Classes are held in the classrooms of the Department of Dental and Maxillofacial Radiology MUW and synchronously online via Microsoft Teams.

An apron is required for the practical "patient examination" classes.

Person responsible for didactics: Anna Pogorzelska; anna.pogorzelska@wum.edu.pl

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