



DISCIPLINE SHEET

1. Study programme

1.1.	"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY BUCHAREST				
1.2.	FACULTY OF DENTISTRY				
1.3.	DEPARTMENT 2ndDEPARTMENT				
1.4.	DISCIPLINE Endocrinology				
1.5.	STUDY DOMAIN: Health, sectoral regulated within the European Union				
1.6.	STUDY LEVEL: I (Bachelor's degree) and II (Master's degree)				
1.7.	STUDY PROGRAMME: DENTAL MEDICINE IN ENGLISH				

2. Discipline

2.1.	Discipline name according to the study curriculum: ENDOCRINOLOGY				
2.2.	Discipline code:MD03S13EN				
2.3.	Discipline type (FD/SD/CD): SD				
2.4.	Discipline optionality(COD/ED/FAD): COD				
2.5.	Lectures tenure: Lecturer Dr.IulianaGherlan				
2.6.	Practical classes / seminar tenure: Lecturer Dr. Iuliana Gherlan, Teaching assistant Dr. Roxana Irina Roșca, Teaching assistant Dr.LoretaGuja				
2.7. Year of study	III	2.8. Semester	VI	2.9. Evaluation (E/C/V)	E

3. Estimated total time (hours/semester of teaching and training activity /individual study)

I. University training						
3.1. Number of hours per week	3	from which:	3.2. lecture	1	3.3. practical class/ seminar	2
3.4. Total hours in the study curriculum	42	from which:	3.5. lecture	14	3.6. practical class/ seminar	28
II. Preparation/individual study						
Time distribution						hours
Study of lecture materials, textbooks, books, study of the minimum recommended bibliography						11
Additional documentation activity in the library, on online platforms						10
Specific preparation activities for projects, practical classes, preparation of assignments, reports						10
Preparation for presentations or evaluations, preparation for the final examination						10
Tutoring activity						1
Other activities						6
3.7. Total hours of individual study						48
3.8. Total hours per semester (3.4.+3.7.)						90
3.9. Number of credits						3

4. Prerequisites (where appropriate)

4.1. curriculum	General Anatomy and Physiology
4.2. proficiencies	Role of hormones in human general physiology

5. Conditions (where appropriate)

5.1. for lecture activity	Amphitheatres with audio-video presentation facilities, online education platforms
5.2. for practical class/ seminar activity	Amphitheatre, salons, laboratories, online education platforms

6. Learning outcomes*

Knowledge	Skills	Responsibility and autonomy
<p>At the end of the course and clinical internship, the student will demonstrate solid knowledge of:</p> <ul style="list-style-type: none"> - The main endocrine glands and their role in maintaining body homeostasis; - The physiological mechanisms of hormonal secretion and regulation of endocrine axes; - Correlations between endocrine pathology and oral or maxillofacial manifestations; - Common endocrine diseases encountered with impact on oral health, such as diabetes mellitus, hyperthyroidism, hypothyroidism.● <p>Interactions between dental treatments and endocrine therapy.</p> <ul style="list-style-type: none"> - Oral manifestations of endocrine imbalances and implications for dental treatment planning 	<p>At the end of the course and clinical internship, the student will be able to:</p> <ul style="list-style-type: none"> - Recognize oral clinical signs suggestive of a possible endocrine pathology; - Interpret relevant clinical and paraclinical data from an endocrinological perspective in the context of dental treatment; - Collaborate interdisciplinary with an endocrinologist for optimal patient management; - Assess risks and adapt the dental treatment plan according to the patient's endocrine status; - Communicate effectively with the patient, explaining the relevance of hormonal imbalances on oral health; - Apply pathophysiological principles in developing a correct and safe therapeutic conduct in dental practice. 	<p>At the end of the course and clinical internship, the student will demonstrate the ability to:</p> <ul style="list-style-type: none"> - Take responsibility for identifying and referring patients with suspected endocrine disease to a specialist; - Manage clinical situations in which endocrine pathology can influence the course and prognosis of dental treatment; - Demonstrate autonomy in integrating endocrinological information into current practice, in accordance with deontological and ethical principles; - Demonstrate a professional, empathetic and responsible attitude towards patients with chronic endocrine diseases; - Self-assess and recognize the limits of their competence, requesting specialized support where necessary.

7. Discipline objectives (correlated with learning outcomes)

7.1. General objective	Designing the best dental treatment plan for various manifestations in the oral and maxillofacial area generated by endocrine disorders
7.2. Specific objectives	The course and clinical internship of endocrinology is aimed at the students of the Faculty of Dental Medicine to develop theoretical

	<p>knowledge applicable in clinical practice related to the endocrine system, such as:</p> <ul style="list-style-type: none"> - avoiding prosthetic work in patients with active acromegaly; - the need for premedication with injectable glucocorticoids prior to buco-maxillofacial surgery in patients with primary or secondary adrenal corticosteroid failure; - the risk of prolonged bleeding after tooth extraction in patients with severe untreated hypothyroidism or discontinuous treatment; - periodontal evaluation in patients with diabetes mellitus; - the risk of developing jaw necrosis in patients in bisphosphonate therapy.
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8. Contents

8.1.Lecture	Teachingmethod	Observation
1. Introductory course	Interactive presentation of the material according to the analytical program, using multimedia means, Power-Point presentations.	
2. Pituitary and pituitary pathology		
3. Thyroid and thyroid pathology		
4. Thyroid pathology		
5. Pathology of calcium and phosphorus metabolism. Osteoporosis		
6. Adrenal and pathology of the adrenal glands		
7. Periodontal disease and diabetes mellitus		
8.2 Practical classes/ seminar	Teaching method	Observation
1. Examination of the patient with endocrine disorders. Principle of methods and interpretation of hormonal dosages and imaging methods.	Case presentations, practical demonstrations	4 hours
2. Pituitary pathology		4 hours
3. Thyroid pathology – I		4 hours
4. Thyroid pathology - II		4 hours
5. Pathology of the adrenal glands - I		4 hours
6. Pathology of the adrenal glands - II		4 hours
7. Gonadic pathology		4 hours
Recent bibliography:		
• Greenspan's Basic & Clinical Endocrinology, 10 th Edition, Gardner DG și Shoback D (Eds), 2017.		
• Cushing's Syndrome. In: Harrison's Principles of Internal Medicine, Ediția 19 (2015).		
• Grigore D. Endocrinologie clinică, Editura Universitară Carol Davila, Ediția III, 2015. American Diabetes Association. Standards of Care in Diabetes—2023, <i>Diabetes Care</i> 46[Suppl 1], 2023.		
• Ghid de management al diabetului zaharat. Elaborat de către Societatea Română de Diabet, Nutriție și Boli Metabolice. 2023.		
• Dănciulescu Miulescu RE, Guja L, Socea B, Dumitriu A, Păunică S, Ștefănescu. Oral Pathology induced by excess or deficiency of glucocorticoids in adults. <i>Journal of Mind and Medical Sciences</i> , 7(2): 141-147, 2020.		
• Dănciulescu Miulescu R, Guja L. Oral pathology in overt thyroid diseases. <i>Proceedings of the Romanian Academy Series B: Chemistry, Life Sciences and Geosciences</i> , Series B, ISSN 1454-8267, 21(2): 125-129, 2019.		
• Melmed S, Auchus R, Goldfine A, Rosen C, Kopp P. <i>Williams Textbook of Endocrinology</i> , 15th Ed, Elsevier, 2024.		

9. Assessment

Activity type	9.1 Evaluation Criteria	9.2. Evaluation methods	9.3. Percentage of final grade
9.4 Lecture	<p>A. Knowledge for mark 5: Dental implications in endocrine pathology</p> <p>B. Additional knowledge for mark 10 In-depth knowledge of the information presented in the courses</p>	<p>Final exam The examination consists of a grid test and/or written questions</p>	90%
9.5. Practical classes/ seminar	<p>A. Knowledge for mark 5: Communication, appropriate interaction with the patient with endocrine pathology</p> <p>B. Additional knowledge for mark 10 Correct diagnosis and evaluation of appropriate treatment in the patient with endocrine pathology</p>	<p>Summative evaluation throughout the semester Correct diagnosis and evaluation of appropriate treatment in the patient with endocrine pathology</p>	10%
9.5.1. Individual project (if any)	-	-	-
Minimum performance standards: To identify the major implications for oral health of endocrine pathologies discussed during the lectures.			