



## DISCIPLINE GRID

### 1. Program data

1.1.	"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY, BUCHAREST
1.2.	FACULTY OF DENTISTRY / DEPARTMENT II
1.3.	Discipline: <b>OBSTETRICS-GYNECOLOGY</b>
1.4.	Field of study: <b>Health - Sectorally regulated within the European Union</b>
1.5.	Study cycle: <b>LICENSE</b>
1.6.	Study program: <b>DENTISTRY</b>

### 2. Discipline data

2.1.	Name of the discipline: <b>MULTIDISCIPLINARY APPROACH TO CRANIO-FACIAL CONGENITAL ANOMALIES AND ITS IMPACT ON DENTAL PRACTICE</b>						
2.2.	Discipline location: <b>Filantropia Clinical Hospital - Department of Obstetrics-Gynecology within the Faculty of Dentistry</b>						
2.3.	Holders of course activities: <b>Lecturer Varlas Valentin, M.D., Ph.D.</b>						
2.4.	Holders of practical work activities: <b>Lecturer Varlas Valentin, Assistant Professor Albu Dragos</b>						
2.5.	III	2.6.	V	2.7.	Colloquium, Exam	2.8.	ED
Year of Study		Semester		Type of evaluation		Discipline regime	

### 3. Estimated total time (hours/semester of teaching activity)

No. hours per week	2	from which	Course: 1	Practical works: 1
Total hours out of the learning schedule	28	from which	Course: 14	Practical works: 14

Distribution of the time fund	hours
Study by textbook, course support, bibliography, and notes	6
Additional documentation in the library, on specialist electronic platforms, and in the field	6
Preparation of seminars/laboratories, assignments, reports, portfolios, and essays tutorial	6
Examination	1
Other activities	1
<b>Total hours of individual study</b>	<b>1</b>
<b>Total hours per semester</b>	<b>21</b>
<b>Number of credits</b>	<b>2</b>

## 4. Preconditions

4.1. of Curriculum	
4.2. of skills	

## 5. Conditions

5.1. of conducting the course	Filantropia Clinical Hospital – Amphitheater
5.2. of carrying out practical works	Department of Obstetrics and Gynecology of the Filantropia Clinical Hospital

## 6. Specific skills accumulated

Professional skills	<p><b>I. <u>Knowledge (cognitive dimension)</u></b></p> <p><b>II.</b> At the end of the internship, the student must know:</p> <ul style="list-style-type: none"> <li>• The main congenital anomalies with craniofacial determinism</li> <li>• Embryological bases of craniofacial defects</li> <li>• The principles of diagnosis and treatment of these malformations with or without a genetic component</li> <li>• Correct interpretation of the results of clinical, biological, and imaging examinations to personalize the therapeutic strategy of these cases</li> <li>• Investigations and oral treatments allowed during pregnancy depending on the gestational age</li> <li>• Stages of craniofacial development</li> <li>• The role of orthodontic treatment, in pediatric dentistry</li> <li>• The principles of plastic, oro-maxillo-facial surgery</li> </ul>
Transversal skills	<p><b>III. <u>Role skills</u></b></p> <ul style="list-style-type: none"> <li>• The ability to work in a multidisciplinary team of these cases</li> <li>• Communicating with patients and counseling their families</li> </ul> <p><b>IV. <u>Professional, personal development skills</u></b></p> <ul style="list-style-type: none"> <li>• To respect professional ethics</li> <li>• To show empathy with patients with craniofacial conditions</li> </ul>

## 7. The objectives of the discipline (resulting from the grid of specific skills acquired)

7.1. General objectives	<p>At the end of the internship, the student must know:</p> <ul style="list-style-type: none"> <li>• The main congenital conditions with craniofacial interest;</li> <li>• The principles of diagnosis and treatment of this type of dental pathology. <ul style="list-style-type: none"> <li>- They will acquire general notions related to the correct management of congenital dental anomalies encountered during pregnancy;</li> <li>- They will perfect the skills necessary to examine these patients, to establish a correct diagnosis;</li> <li>- They can design the best treatment plan for various clinical forms of congenital dental diseases.</li> </ul> </li> </ul>
7.2. Specific objectives	<p>At the end of the internship, the student must know:</p> <ul style="list-style-type: none"> <li>• To examine patients with congenital dental anomalies;</li> <li>• Interpretation of the results of clinical, biological, and imaging examinations;</li> <li>• To recommend investigations and treatments allowed in pregnancy.</li> </ul>

## 8. The content

8.2 Courses	No. hours/ theme	Teaching methods	Obs.
1. Classification of craniofacial anomalies. Facial growth and development and relationship to the central nervous system. Prenatal diagnosis of craniofacial anomalies.	2	Interactive exposition of the didactic material according to the analytical program, using multimedia means, PowerPoint presentations, didactic films, and participation in births or operations as observers.	
2. Prenatal consultation in high-risk pregnancy. Chromosomal and monogenic disorders. Birth of females with craniofacial anomalies.	2		
3. Diagnostic and therapeutic management of craniosynostosis.	2		
4. Diagnostic and therapeutic management of lip and palate defects.	2		
5. Diagnostic and therapeutic management of brachial arch disorders.	2		
6. Craniofacial changes at the level of soft tissues. Respiratory and breastfeeding disorders of newborns with craniofacial anomalies. Therapeutic implications in malformative syndromes and conjoined twins with craniofacial anomalies.	2		
7. Peculiarities regarding the genetic, imaging, neuro-surgical, and maxillofacial evaluation of craniofacial anomalies. Prognosis and morphofunctional recovery of these patients. Cognitive, psychosocial status, and quality of life of these patients.	2		

8.1. Practical works	No. hours/ theme	Teaching methods	Obs.
1. Anatomy and physiology of the head and neck. Embryogenesis.	2	Interactive exposition of the material according to the analytical program, using multimedia means, PowerPoint presentations, didactic films, online	
2. Adaptive changes in the maternal organism during pregnancy have implications in the dental sphere. Oral and vaginal microbiota. Maternal and newborn nutrition during pregnancy and lactation.	2		
3. Pregnancy monitoring of women with craniofacial anomalies. Modes of birth of females with congenital craniofacial anomalies. Follow-up of newborns in the first 1000 days of life.	2		
4. Principles of orthodontic treatment of congenital craniofacial anomalies. The influence of various pregnancy-specific pathologies on the evolution and prognosis of these conditions (prematurity, hypertension, diabetes, intrauterine growth restriction).	2		
5. The multidisciplinary approach of these cases improves the prognosis and increases the quality of life of these patients.	2		
6. Pre- and postnatal diagnosis of syndromic and non-syndromic fetal craniofacial anomalies.	2		
7. Complex surgical treatment of these cases. Long-term follow-up and prognosis of these patients.	2		

### 8.3. Course bibliography and practical papers

- Varlas Valentin. Monograph Obstetrics Course for students of the Faculty of Dental Medicine, Carol Davila University Publishing House, 2021, ISBN: 978-606-011-192-4.
- Cunningham F, Leveno KJ, Dashe JS, Hoffman BL, Spong CY, Casey BM. eds. *Williams Obstetrics, 26e*. McGraw Hill; 2022.

## 9. Corroboration of the contents of the discipline with the expectations of representatives of the epistemic community, professional associations, and representative employers in the field related to the program

The appropriate preparation at the end of this optional course contributes to the completion of medical knowledge in successfully dealing with cases with craniofacial anomalies. The ability to interpret the acquired information in the context of general dental diagnosis.

## 10. Evaluation

10.1. Evaluation			
Type of Activity	Evaluation criteria	Evaluation methods	Weight of the final grade
Course	<b>Requirements for grade 5:</b> Basic knowledge in the management of craniofacial conditions <b>Requirements for grade 10:</b> Knowledge of the concepts learned during the courses	<b>Grid-type exam 50 questions</b> from all chapters of the analytical program, <b>1 hour</b>	<b>80%</b>
Practical works	<b>Requirements for grade 5:</b> Taking the anamnesis and performing the clinical examination. Prenatal consultation in normal and high-risk pregnancy. Principles of diagnosis and screening in Obstetrics. <b>Requirements for grade 10:</b> Recognizing the clinical signs of the craniofacial condition and identifying the therapeutic scheme related to each case.	<b>Practical assessment</b> Colloquium	<b>20%</b>
<b>Minimum performance standard</b>			
1. Medical history. 2. Clinical and paraclinical examination. 3. Making a personalized approach to each case according to the guidelines. 4. Investigations permitted during pregnancy and postpartum. 5. Diagnosis and treatment of craniofacial conditions.			

**Date of completion:**  
25.06.2024

**Course owner's signature**

**Date of approval in the  
Department Council:**

**Head of the department  
Prof. Dr. Bucur Alexandru**