



**“CAROL DAVILA” UNIVERSITY
OF MEDICINE AND PHARMACY BUCHAREST**
Faculty of Dentistry
Dental Medicine in English



DISCIPLINE GRID

1. Programme:

1.1.	CAROL DAVILA UNIVERSITY OF MEDICINE AND PHARMACY BUCHAREST
1.2.	FACULTY OF DENTISTRY/ 2nd DEPARTMENT
1.3.	DISCIPLINE: SURGICAL SEMIOLOGY. GENERAL SURGERY. ANESTHESIA AND INTENSIVE CARE
1.4.	STUDY DOMAIN: Health, sectoral regulated within European Union
1.5.	STUDY LEVEL: LICENCE
1.6.	STUDY PROGRAMME: DENTAL MEDICINE IN ENGLISH

2. Discipline:

2.1.	DISCIPLINE NAME: Surgical Semiology. General surgery. Anesthesia and Intensive Care						
2.2.	LOCATION: Emergency Clinical Hospital “Saint John” / “Prof. Dr. Al. Trestioreanu” Institute of Oncology Bucharest						
2.3.	Lectures tenure : Prof. Dr. Nicolae Iordache, Prof. Dr. Octav Ginghină, Assoc. Prof. Dr. Mircea Lițescu						
2.4.	Practical classes tenure: Teaching assistant Dr. Alina IORGULESCU Teaching assistant Dr. Dan MITOIU Teaching assistant Dr. Razvan IOSIFESCU Teaching assistant Dr. Andrei STOICA Teaching assistant Dr. Liviu DRAGHICI Teaching assistant Dr. Claudiu UNGUREANU Teaching assistant Dr. Iulia BISTRICEANU						
2.5. Study year	III	2.6. Semester	VI (3 series)	2.7. Evaluation	Exam	2.8. Type of discipline	CD/DD

3. Estimated total time (hours/semester)

No. hours/week	6	out of which	Lectures: 3 <i>Surgical Semiology :1</i> <i>General surgery. Anesthesia and Intensive Care: 2</i>	Laboratory session: 3 <i>Surgical Semiology :1</i> <i>General surgery. Anesthesia and Intensive Care: 2</i>
Total hours out of learning schedule	84	out of which	Lectures: 42 <i>Surgical Semiology :14</i> <i>General surgery. Anesthesia and Intensive Care: 28</i>	Laboratory sessions: 42 <i>Surgical Semiology: 14</i> <i>General surgery. Anesthesia and Intensive Care: 28</i>

Time distribution	hours
Textbook study, lecture support, bibliography and notes	6
Supplementary documentation activity in the library, on online platforms	6
Practical activity support material, homework, portfolio and essays	6
Tutorial activity	5

Examinations	12
Other activities	6
Total hours of individual study	41
Total hours per semester	125
Credits	5

4. Preconditions

4.1. curriculum	Knowledge of: Normal anatomy and pathological anatomy Normal physiology and pathophysiology Medical semiology
4.2. proficiencies	To know - location of the topographic regions of the body - the location of the organs corresponding to the topographic regions - the technique of examining the patient (inspection, auscultation, percussion, palpation)

5. Conditions

5.1. for lecture activity	Amphitheatre minimum 70 seats, computer, video projector Students will have their mobile phones turned off Consumption of food and drink during the course is not allowed Delay in class will not be tolerated
5.2. for laboratory activity	Facilities of a general surgery department The student will complete his individual portfolio and the internship notebook Students will be equipped with gowns according to the section standard. Students will have their mobile phones turned off Consumption of food and drink during the internship is not allowed Delay of students at the internship will not be tolerated

6. Accumulated skills

6.1. Proficiencies <i>(knowledge and abilities)</i>	<p><u>Knowledge (cognitive dimension):</u></p> <p>Knowledge of surgical semiology with an emphasis on recognizing emergencies that require immediate referral to a surgical service, recognizing clinical warning signs in the case of malignant pathology. Acquisition of notions related to asepsis and antisepsis, haemorrhage and haemostasis, treatment of wounds and surgical infections, clinical examination and first-line therapeutic measures in trauma, including cardiorespiratory resuscitation measures.</p> <p>Knowledge of the basic notions of local, regional and general anaesthesia. Knowledge of surgical pathology with an emphasis on recognizing emergencies that require immediate referral to a surgical service, recognition of clinical warning signs in case of malignant pathology, first aid measures and therapeutic gestures needed in an emergency.</p> <p>Knowledge and practice of small surgery procedures in compliance with the rules of asepsis and antisepsis (injections, dressings, bandages).</p> <p>Knowledge and practice of first aid manoeuvres in fractures, burns, surgical infections, temporary haemostasis in external haemorrhages, suturing of superficial wounds.</p> <p>Examination of a surgical patient, collection and transport of biological samples, interpretation of laboratory analyzes and imaging investigations, formulation of a diagnosis, presentation of a clinical case.</p> <p><u>II. Abilities (functional dimension):</u></p> <p>Knowledge and practice of small surgery procedures in compliance with the rules of asepsis and antisepsis (injections, dressings, bandages).</p>
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	<p>Knowledge and practice of first aid manoeuvres in fractures, burns, surgical infections, temporary haemostasis in external haemorrhages, suturing of superficial wounds.</p> <p>Examination of a surgical patient, collection and transport of biological samples, interpretation of laboratory analyses and imaging investigations, formulation of a diagnosis, presentation of a clinical case.</p>
<p>6.2. Transversal skills <i>(role, professional and personal development)</i></p>	<p>III. Role skills: The use of assimilated knowledge in new contexts (maxillofacial surgery, anesthesiology, internal medicine) with the establishment of interdisciplinary correlations. Application of theoretical knowledge in practical activity.</p> <p>IV. Professional and personal development skills: Acquiring effective communication skills with the patient. Involvement in research activities Development of critical thinking skills. Develop the capacity to use digital media for medical information.</p>

7. Objectives (based on the grid of acquired specific skills)

<p>7.1. General Objective</p>	<ul style="list-style-type: none"> - Knowledge of surgical semiology and pathology with emphasis on first aid measures in surgical emergencies, cardiorespiratory resuscitation manoeuvres, recognition of emergencies to be referred to surgery. - Knowledge of surgical semiology with emphasis on first aid measures in surgical emergencies - Acquiring the most effective means of communication with the patient and improving the skills needed to examine patients in order to stabilize a correct clinical diagnosis; - Acquiring the skills to design a paraclinical investment plan; - Proper behaviour in the operating room.
<p>7.2. Specific Objectives</p>	<p>To know the notions of propaedeutics and surgical semiology:</p> <ul style="list-style-type: none"> - asepsis and antisepsis, haemorrhage and haemostasis, treatment of wounds and surgical infections; - clinical examination and first-line therapeutic measures in trauma, including measures for cardiorespiratory resuscitation; - the basics of local, regional and general anesthesia. <p>Knowledge of the main surgical diseases of the digestive system, vascular system, endocrine system, breast with emphasis on:</p> <ul style="list-style-type: none"> - their recognition based on clinical signs - immediate referral to an emergency department - recognition of clinical warning signs in case of malignant pathology, - methods of diagnosis and surgical treatment, - urgently needed first aid measures and therapeutic gestures. <p>Knowledge and practice:</p> <ul style="list-style-type: none"> - small surgical procedures in compliance with the rules of asepsis and antisepsis (injections, dressings, bandages). - first aid manoeuvres in tailcoats, burns, surgical infections, temporary haemostasis in external haemorrhages, suturing of superficial wounds. - examination of a surgical patient, collection and transport of biological samples, interpretation of laboratory analyzes and imaging investigations, formulation of a diagnosis, - appropriate behaviour in the operating room.

8. Content

8.1. Lectures	No. hrs/topic	Teaching method	Obs.
1. Intensive Care and Anesthesiology	2	Lecture, systematized presentation, interactive, case studies	Oral presentations doubled by powerpoint presentations
2. Pathology of the mammary gland	2	Lecture, systematized presentation, interactive, case studies	Oral presentations doubled by powerpoint presentations
3. Pathology of the small intestine and the cecal appendix	2	Lecture, systematized presentation, interactive, case studies	Oral presentations doubled by powerpoint presentations
4. Pathology of the colon, rectum and anus	2	Lecture, systematized presentation, interactive, case studies	Oral presentations doubled by powerpoint presentations
5. Acute non-traumatic surgical abdomen	2	Lecture, systematized presentation, interactive, case studies	Oral presentations doubled by powerpoint presentations
6. Pathology of the liver, bile ducts, and pancreas	2	Lecture, systematized presentation, interactive, case studies	Oral presentations doubled by powerpoint presentations
7. Pathology of the thorax, pathology of the esophagus	2	Lecture, systematized presentation, interactive, case studies	Oral presentations doubled by powerpoint presentations
8. Pathology of the abdominal wall	2	Lecture, systematized presentation, interactive, case studies	Oral presentations doubled by powerpoint presentations
9. Pathology of the stomach and duodenum	2	Lecture, systematized presentation, interactive, case studies	Oral presentations doubled by powerpoint presentations
10. Pathology of the male urinary and genital tract	2	Lecture, systematized presentation, interactive, case studies	Oral presentations doubled by powerpoint presentations
11. Pathology of the peripheral venous system	2	Lecture, systematized presentation, interactive, case studies	Oral presentations doubled by powerpoint presentations
12. Pathology of the peripheral arterial system	2	Lecture, systematized presentation, interactive, case studies	Oral presentations doubled by powerpoint presentations
13. Surgical endocrinopathies	2	Lecture, systematized presentation, interactive, case studies	Oral presentations doubled by powerpoint presentations
14. Principles of general oncology	2	Lecture, systematized presentation, interactive, case studies	Oral presentations doubled by powerpoint presentations
15. Semiology of surgical diseases of mammary gland	2	Lecture, systematized presentation, interactive, case studies	Oral presentations doubled by powerpoint presentations
16. Semiology of surgical disorders of the peripheral arterial and venous system	2	Lecture, systematized presentation, interactive, case studies	Oral presentations doubled by powerpoint presentations
17. Semiology of surgical disorders of the abdominal wall	2	Lecture, systematized presentation, interactive, case studies	Oral presentations doubled by powerpoint presentations
18. Semiology of surgical disorders of the colon, rectum and anus	2	Lecture, systematized presentation, interactive, case studies	Oral presentations doubled by powerpoint presentations
19. Semiology of surgical diseases of the liver bile ducts and pancreas	2	Lecture, systematized presentation, interactive, case studies	Oral presentations doubled by powerpoint presentations
20. Semiology of the acute surgical abdomen	2	Lecture, systematized presentation, interactive, case studies	Oral presentations doubled by powerpoint presentations
21. Semiology of surgical diseases of the oncological patients	2	Lecture, systematized presentation, interactive, case studies	Oral presentations doubled by powerpoint presentations

8.2. Laboratory Sessions	No. hrs/topic	Teaching method	Obs.
1. Practical elements and principles of diagnosis and treatment in surgical pathology of the breast	4	Systematic, interactive presentation, demonstrations, Case presentations	Oral presentations
2. Practical elements and principles of diagnosis and treatment in surgical pathology of the stomach and duodenum	4	Systematic, interactive presentation, demonstrations, Case presentations	Oral presentations
3. Practical elements and principles of diagnosis and treatment in surgical pathology of the liver and bile ducts	4	Systematic, interactive presentation, demonstrations, Case presentations	Oral presentations
4. Practical elements and principles of diagnosis and treatment in surgical pathology of the colon, rectum and cecal appendix	4	Systematic, interactive presentation, demonstrations, Case presentations	Oral presentations
5. Practical elements and principles of diagnosis and treatment in surgical pathology of the thorax	4	Systematic, interactive presentation, demonstrations, Case presentations	Oral presentations
6. Practical elements and principles of diagnosis and treatment in oncological surgical pathology	4	Systematic, interactive presentation, demonstrations, Case presentations	Oral presentations
7. ATI (Case presentations) + control test I (24 questions)	4 (2+2)	Systematic, interactive, presentation, demonstrations. Case presentation	Students will make case presentations
8. Clinical / paraclinical examination in surgical pathology of the breast	2	Systematic, interactive presentation, demonstrations, Case presentations	Movies with the clinical surgical examination and from the operating room
9. Clinical / paraclinical examination in surgical pathology of the arterial and venous peripheral system	2	Systematic, interactive presentation, demonstrations, Case presentations	Movies with the clinical surgical examination and from the operating room
10. Clinical / paraclinical examination in surgical pathology of the abdominal wall	2	Systematic, interactive presentation, demonstrations, Case presentations	Movies with the clinical surgical examination and from the operating room
11. Clinical / paraclinical examination in surgical pathology of the colon, rectum and cecal appendix	2	Systematic, interactive presentation, demonstrations, Case presentations	Movies with the clinical surgical examination and from the operating room
12. Clinical / paraclinical examination in surgical pathology of the liver, pancreas and bile ducts	2	Systematic, interactive presentation, demonstrations, Case presentations	Movies with the clinical surgical examination and from the operating room
13. Clinical / paraclinical examination in surgical pathology of the acute abdomen and the oncological patient	2	Systematic, interactive presentation, demonstrations, Case presentations	Movies with the clinical surgical examination and from the operating room
14. Case presentations + control test II + practical exam	2	Systematic, interactive presentation, demonstrations, Case presentations	Students will make case presentations

8.3. Bibliography for lectures and laboratory/practical sessions

Schwartz – Principles of Surgery – Tenth Edition – F.Charles Brunicardi

9. Corroborating the contents of the discipline with the expectations of epistemic community representatives, professional associations and employers in the fields representative for the program

In order to delineate the contents, to choose the teaching-learning methods, the holder of the discipline maintains a permanent and constructive dialogue with:

- Representatives of the specialized departments of the Faculty of Dentistry (oral surgery, oral-maxillofacial surgery, anaesthesiology), to adapt the theoretical and practical content of the discipline to the subsequent needs of specialties specific to dentistry.
- With other teachers in the area, from other university centres, to identify the needs and expectations of employers in the area.
- With representatives of the dentist community, to adapt the analytical program to the needs of the current practical activity.

The studied concepts are in accordance with the regulations in force, and are compatible with the activities carried out at national level within the faculties of dentistry.

10. Evaluation

Activity type	Evaluation Criteria	Methods of evaluation	% out of final grade
Lecture	<p>Knowledge for 5 grade – to know the definitions of the studied diseases, to know the main signs of surgical emergencies, to know what he is not allowed to do as first aid and what are the first aid manoeuvres in acute surgical diseases, to know the alarm signs of diseases neoplastic, knowledge of the basic notions of semiology and surgical pathology. Answers should not contain serious errors.</p> <p>Knowledge for 10 grade – In-depth knowledge of the notions of semiology and surgical pathology of the entire recommended bibliography. Correct answers to all questions.</p> <p>In accordance with the educational objectives of the course. We evaluate the coverage area and the correctness of the accumulated knowledge, the logical coherence.</p>	Exam (grids) – 50 questions	60%
	<p>Periodic check Control tests</p>	<p>Control test I (grids) – 24 questions Control test II (grids) – 24 questions</p>	20%
Laboratory Sessions	<p>Knowledge for 5 grade Presenting and performing a small surgical procedure. Examination of a surgical patient. Wording of a clinical diagnosis</p>	Practical exam (oral)	20%

	<p>Knowledge for 10 grade Formulation of a clinical diagnosis. Request of appropriate explorations and tests. Wording of a final diagnosis and an operative indication.</p> <p>In accordance with the educational objectives of the course. We evaluate the coverage area and the correctness of the accumulated knowledge, the logical coherence, the fluency in expression, the capacity to understand the problems.</p> <p>Periodic check Practical exam</p>		
<p>Minimum performance standards</p>			
<p>Knowledge of the fundamental notions of semiology and surgical pathology. Knowledge of the manoeuvres demonstrated and performed during the training and of the examination of the surgical patient with the wording of a diagnosis and an operative indication. The practical exam is eliminatory; not obtaining a 5 grade for the practical exam leads to the loss of the exam.</p>			

Date:
16.09.2024

Chair of GENERAL SURGERY Division,
Prof. Dr. Nicolae Iordache

Prof. Dr. Octav Ginghină

Date of the approval in
Department Board:

Department director,
Prof. Emeritus Dr. Alexandru Bucur