



DISCIPLINE GRID

1. Study program

1.1.	"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY BUCHAREST
1.2.	FACULTY OF DENTISTRY
1.3.	DEPARTMENT DENTISTRY I
1.4.	DISCIPLINE Pediatrics "Grigore Alexandrescu" Children's Emergency Clinical Hospital
1.5.	STUDY DOMAIN: Health, sectoral regulated within the European Union
1.6.	STUDY PROGRAM: DENTAL MEDICINE IN ENGLISH

2. Discipline

2.1.	Discipline name according to the study curriculum: ACUTE POISONING AND ADVERSE REACTIONS IN PEDIATRIC PATIENTS IN THE DENTAL PRACTICE				
2.2.	Discipline code: MD04OP19				
2.3.	Discipline type (FD/SD/CD): -				
2.4.	Discipline optionality (COD/ED/FAD): ED				
2.5.	Lectures tenure: Associate Professor Dr. NIȚESCU GABRIELA VIORELA				
2.6.	Practical classes / seminar tenure: -				
2.7. Year of study	IV	2.8. Semester	VII	2.9. Evaluation (E/C/V)	C

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

I. University training						
3.1. Number of hours per week	2	from which:	3.2. lecture	1	3.3. practical class/ seminar	1
3.4. Total hours in the study curriculum	28	from which:	3.5. lecture	14	3.6. practical class/ seminar	14
II. Preparation/ individual study						
Time distribution						hours
Study of lecture materials, textbooks, books, study of the minimum recommended bibliography						10
Additional documentation activity in the library, on online platforms						10
Specific preparation activities for projects, practical classes, preparation of assignments, reports						-
Preparation for presentations or evaluations, preparation for the final examination						2
Tutoring activity						-
Other activities						10
3.7. Total hours of individual study						32
3.8. Total hours per semester (3.4.+3.7.)						60
3.9. Number of credits						2

4. Prerequisites (where appropriate)

4.1. curriculum	Fourth Year Dentistry Student
4.2. proficiencies	Fourth Year Dentistry Student

5. Conditions (where appropriate)

5.1. for lecture activity	The Amphitheater within the "Grigore Alexandrescu" Children's Emergency Clinical Hospital
5.2. for practical class/ seminar activity	Intensive Care-Toxicology Department of the "Grigore Alexandrescu" Children's Emergency Clinical Hospital

6. Learning outcomes*

Knowledge	Skills	Responsibility and autonomy
To acquire basic knowledge regarding the toxic risks of using medicinal and non-medicinal substances in dentistry	To be familiar with the therapeutic doses and toxic doses of the drugs prescribed by the dentist To know the toxic risks of disinfectants used in dentistry and to use them appropriately To know and evaluate the toxic risks of local and general anesthetics used in dentistry	To judiciously administer medications and anesthetics in the dental office To correctly use disinfectants and antiseptics To choose the best treatment alternatives depending on the toxic risks and the patient's particularities To identify, quickly evaluate and take the first measures in case of adverse reactions and acute drug and non-drug poisonings that may occur in dental practice.

7. Discipline objectives (correlated with learning outcomes)

7.1. General objective	Knowledge of the main toxic effects of medicinal and non-medicinal substances used in dentistry
7.2. Specific objectives	Early recognition and implementation of appropriate measures in cases of poisoning or adverse drug reactions

8. Contents

8.1. Lecture	Teaching methods	Observations
1. Definition of poisoning and adverse reactions. Major toxidromes. Particularities of poisonings in children 2. Management of poisoning. Gastrointestinal decontamination protocols. Use of antidotes 3. Anti-inflammatory drugs and analgesics 4. Opioids 5. Antibiotics 6. Local and general anesthetics used in dentistry 7. Disinfectant agents. Occupational hazards in dental practice	Lectures, Interactive communication, Presentation using multimedia tools, PowerPoint presentations	-
Recent bibliography:		

1. Goldfrank, L.R., Flomenbaum, N.E., Lewin, N.A., Howland, M.A., Hoffman, R.S., Nelson, L.S. & Goldfrank, L.R., 2019. *Goldfrank's toxicologic emergencies*. 11th ed. New York: McGraw-Hill Education. ISBN 978-1-25-985961-8.
2. Ulmeanu, C.E., Nițescu, V.G., 2015. *Acute poisonings in children and adolescents*. Oltenița: Tridona Publishing. ISBN 978-973-8981-62-1.

8.2. Practical classes/ seminar	Teaching methods	Observations
1. Recognition of clinical signs in the main toxidromes 2. Gastrointestinal decontamination technique. Indications. Contraindications 3. Management of the patient with acute poisoning with anti-inflammatory and analgesic drugs 4. Management of the patient with acute poisoning with opioids 5. Management of the patient with acute poisoning with antibiotics 6. Management of the patient with acute poisoning with local and general anesthetics 7. Occupational risks associated with the use of disinfectants in the dental office	Video screenings, Practical demonstrations at the ward, Teamwork Questionnaire application, Brainstorming, Role-playing games.	With the legal consent of the child's representative

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1. Goldfrank, L.R., Flomenbaum, N.E., Lewin, N.A., Howland, M.A., Hoffman, R.S., Nelson, L.S. & Goldfrank, L.R., 2019. *Goldfrank's toxicologic emergencies*. 11th ed. New York: McGraw-Hill Education. ISBN 978-1-25-985961-8.
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9. Assessment

Activity type	9.1. Evaluation criteria	9.2. Evaluation methods	9.3. Percent age of final grade
9.4. Lecture	Knowledge of the main clinical manifestations of medicinal and non-medicinal poisonings that may occur in dental practice Knowledge of the decontamination protocol in poisonings and of the first emergency measures In-depth understanding of all the concepts taught during the course	Multiple-choice exam	80%
9.5. Practical classes/ seminar	Definition of the main toxidromes Knowledge of first aid measures in acute poisonings List of antidotes available for the treatment of acute poisonings List of adverse effects of local and general anesthetics	Written essay 4 questions from the practical theme of the internship	20%

	Definition of occupational risks related to the use of disinfectants In-depth knowledge of all concepts taught during the internship		
9.5.1. Individual project (if any)	-	-	-
Minimum performance standard			
1. Knowledge of the main clinical manifestations of poisonings that may occur in dental practice 2. Knowledge with the decontamination protocol in poisonings and the initial emergency measures			