



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		The Use of Fluoride in Dentistry, Mechanisms and Methods of Application							
Course Code		PED627		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	4	Workload	104 (<i>Hours</i>)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		The aim of this course is to provide information on the importance and use of fluoride on pedodontics and protective dentistry, systemic and topical effect mechanism on teeth and fluorine use methods, and fluorine toxicology.							
Course Content		The importance of fluoride prophylaxis for increasing the resistance of dental tissue for caries prevention , fluoride, positive and negative effects on dental tissues, fluoride areas in dentistry, dental medicine in the areas of fluoride systemic and topical fluoride application methods and include methods such as effect mechanisms.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Individual Study					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Pinkham JR, Casamassimo PS, McTigue DJ, Fields HW, Nowak AJ. 2005, Pediatric Dentistry: Infancy Through Adolescence.
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Week	Weekly Detailed Course Contents	
1	Theoretical	Fluoride use in preventive dentistry, fluoridation in the body from different sources
2	Theoretical	Flour metabolism
3	Theoretical	Enamel and fluorine interactions, fluorine effect on newborn caries
4	Theoretical	Mechanism of action in systemic and topical fluorine dental tissues, updated information
5	Theoretical	Influence of Fluor on oral cavity bacteria
6	Theoretical	Fluorine systemic and topical applications -1
7	Theoretical	Fluorine systemic and topical applications -2
8	Theoretical	Fluoride regimens suitable for caries risk and age groups, use of combined fluoride
9	Theoretical	Information on fluorometric analysis methods in dental tissues
10	Theoretical	Acute and chronic fluorotoxicity, fluorosis treatment and indices
11	Theoretical	Comparison of flour with other anti-caries applications
12	Theoretical	Evaluation of case reports-1
13	Theoretical	Evaluation of case reports-2
14	Theoretical	Seminar
15	Intermediate Exam	Midterm exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	3	20	1	63
Lecture - Practice	1	10	2	12
Individual Work	3	4	2	18
Midterm Examination	1	10	1	11
Total Workload (Hours)				104
[Total Workload (Hours) / 25*] = ECTS				4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To be able to explain the current views on the mechanism of Flour effect.
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2	To be able to analyze systemic and topical applications of flour.
3	Explaining the benefits and harms of using combined fluorine.
4	Knowing the existing fluoride types
5	Understanding the fluorine application techniques that should be selected in different age groups

Programme Outcomes (Pediatric Dentistry Doctorate)

1	Must be able to diagnosis and treatment plan in child patient
2	Must know the preventive dentistry treatments.
3	Must be able to restorative treatments in pediatric patient
4	Must be able to know how to apply space maintenances and their fabrication and their effects.
5	Must be able to clinical approach for dental trauma
6	Must be able to manage the dental treatment of handicapped and uncooperative child patient iunder dental sedation and general anesthesia
7	Must be aware of the new treatment techniques and improvements in pedodontics.

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P2	3	3	3	3	3
P7	3				3

