

Course title Experimental methods of determining the effectiveness of the resources for the maintenance of oral hygiene

Department for Paediatric and Preventive Dentistry

Address Gundulićeva 5, 10000 Zagreb, Croatia

Total ECTS points 3

Course leader Associate professor Dubravka Negovetić Vranić

Course associates

Teaching plan

	No. classes
Lecture	
Seminar	8
Practical	7
Total	15

1 class = 45 minutes

Course description

Modern clinical are planning individual therapy based on the use of innovative means used in oral hygiene (toothpaste , toothbrushes , dental floss , mouthwash , nail) , which control the composition and activity of oral microflora in the saliva , and encourage the renewal process (remineralization) of hard dental tissues. The global program for oral health by the World Health Organization (WHO) has provided the initiative of promoting the importance of a new form for the treatment of caries lesions , which is changed from a surgical / restorative model in preventive / minimally invasive model , and the World Dental Federation (FDI) started the Global caries initiative (GCI) , which aims to create a 10 - year plan aimed at achieving optimal oral and systemic health of the general population. The main objective of this postgraduate doctoral study is to evaluate the clinical effectiveness of the product to be used in oral hygiene in the Croatian population (toothpaste , mouthrinse , dental floss , varnish) , and to determine the possibility that low-risk patients maintain motivated in terms of retention of positive food- hygiene practices , while patients of high and medium risk have made low-risk for tooth decay . The aim is to set up guidelines on the basis of the individual planning of preventive therapy. Clinical evaluation will address frequency of usage of innovative resources and their effectiveness in reducing the number and activity of cavity bacteria , input in changing the pH of saliva , and of any changes that cause the caries activity in hard dental tissues and gum disease . The emphasis would be on innovative means , whose concept is based on the use of new compounds with potentially better efficiency. The aim of this postgraduate studies is setting new guidelines in planning individual preventive therapy , and to suppress the formation and progression of caries disease in patients .

Learning outcomes

1. Student will be able to describe, plan and reproduce individual caries prevention therapy.
2. Student will be able to recognize, number and show the number of streptococci in the mouth.

3. Student will be able to recognize, show and identify mechanical properties of dental floss.
4. Student will be able to recognize, show and identify performance of fibers in tooth brush.
5. Student will know how to define, reproduce and repeat remineralization therapy.

Course content

Lecture

	Lecture topics	Number of classes/hours
1.	-	-
2.	-	-
3.	-	-
4.	-	-
5.	-	-
6.	-	-
7.	-	-
8.	-	-
9.	-	-
10.	-	-

1 sat = 45 minuta

Seminari

	Seminar topics	Number of classes/hours
1.	Oral hygiene in regard to oral health	1
2.	Nutrition in caries prevention	1
3.	Mechanisms of plaque control	1
4.	Individual preventive therapy	1
5.	Chemical plaque control	1
6.	Remineralization therapy	1
7.	Innovative resources in preventive therapy	1
8.	-	-
9.	-	-
10.	-	-

1 sat = 45 minuta

Vježbe

	practicals topics	Number of classes/hours
1.	Influence of eating habits on caries activity of the mouth	1
2.	Remineralization therapy	1
3.	Ingredients in tooth paste	1
4.	Analysis of physical and mechanical properties of tooth floss	1
5.	Analysis of physical and mechanical properties of tooth brush	1
6.	Tests for streptococci and lactobacilli	1
7.	Individual caries prevention approach	1
8.	Guidelines for therapy planning	1
9.	-	-
10.	-	-

1 class = 45 minutes

Literature

1. Darby ML, Walsh MM. Dental Hygiene: Theory and Practice. 3rd Ed. Saunders, 2010.
2. Fejerskov O, Kidd E. Zubni karijes. Ur. hrv. izdanja: Ivica Anić. Naklada Slap, 2010.
3. Anderson MH et al. Professional prevention in dentistry. Williams & Wilkins, Baltimore, 1994.
4. Harris NO, Garcia-Godoy F. Primary Preventive Dentistry (5th Edition), Prentice Hall 1999.

CV (curriculum vitae) and bibliography of course leader

Dubravka Negovetić Vranić was born on May 29, 1971. in Zagreb where she finished elementary and the first two grades of high school. She completed the final two grades of high school at the Hawaii Preparatory Academy in the United States where he received a full scholarship. In 1991, she enrolled at the University of Illinois at Chicago, which he attended for a year. She graduated from the Faculty of Dentistry, University of Zagreb on June 29, 1997. She did her internship at the Health Center in 1998. She passed the state exam prescribed for dentists on December 8, 1999 and obtained the Approval for independent work from the Croatian Chamber of Dental Medicine.

She defended her master's thesis entitled "Comparative analysis of dental materials for fillings in children" on February 11, 2004. She passed the specialist exam in pedodontics on June 10, 2005. She defended her doctoral dissertation entitled "Analysis of marginal closure and quality of self-etching adhesive systems" on April 24, 2008.

She was elected a research associate on September 9, 2008 in the field of biomedicine and health-field of dentistry and a senior research associate on October 19, 2016. She signed an employment contract with the Faculty of Dentistry, University of Zagreb 26. 02. 2009. During her

work at the Faculty of Dentistry, University of Zagreb, she actively participated in many domestic and foreign professional and scientific conferences. She has also participated as a researcher in scientific research projects funded by the Ministry of Science, Education and Sports. Participates as a research associate in the project "Evaluation of the effectiveness of innovative oral hygiene products in preventive care planning in dentistry" (project leader Prof. Martina Majstorović, PhD) and in the project Aesthetic analysis of intraoral and extraoral photographs in adolescents in Croatia Assoc. Prof. Andreja Carek, PhD). She participates as a team leader in the EU project "White Teeth" from Ankara, Turkey.

From 2013-2014 participated in the course "Oral Hygiene" in undergraduate teaching. She won an award at the 2007 CED Travel Scholarship from the International Association for Dental Research in Thessaloniki, Greece.

Within the professional activity of Assoc. dr. sc. Dubravka Negovetić Vranić is mainly focused on the field of dental materials and adhesive systems and innovative means for the prevention of caries, as well as on oral microbiology and the possibility of preventing the development of bacterial diseases in the oral cavity. She passed the specialist exam in pedodontics on June 10, 2005, and in 2016 she was employed at the University Hospital Center Zagreb as a pedodontics specialist. School year 1999/2000 enrolls in the Postgraduate Scientific Study at the Faculty of Dentistry, University of Zagreb. She was employed at the Department of Pedodontics of the Faculty of Dentistry in Zagreb on December 1, 1999 as a research fellow in the research project number 065-006 entitled "Dental trauma in children"

Bibliography link at:

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