

## 29321 - Preventive and Community Odontology

### Syllabus Information

**Academic Year:** 2019/20

**Subject:** 29321 - Preventive and Community Odontology

**Faculty / School:** 229 - Facultad de Ciencias de la Salud y del Deporte

**Degree:** 442 - Degree in Odontology

**ECTS:** 6.0

**Year:** 2

**Semester:** Second semester

**Subject Type:** Compulsory

**Module:** ---

### 1.General information

#### 1.1.Aims of the course

#### 1.2.Context and importance of this course in the degree

#### 1.3.Recommendations to take this course

### 2.Learning goals

#### 2.1.Competences

#### 2.2.Learning goals

#### 2.3.Importance of learning goals

### 3.Assessment (1st and 2nd call)

#### 3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

### 4.Methodology, learning tasks, syllabus and resources

#### 4.1.Methodological overview

The learning process that is designed for this subject is based on the following:

- Participative master class in the classroom
- Pre-clinical and clinical practices that evoke or reproduce key aspects of the clinical reality
- Seminars and work aimed to provide the student subjects of analysis or approach to specific problems to be carried out individually or in groups.
- work autonomous: information search, job preparation, information search, using ADD, study and exam preparation

#### 4.2.Learning tasks

The student programming is available to help you achieve the expected results v includes the following activities:

Lectures classroom

- Major Topic Objectives will be presented and developed in detail the contents required for a proper understanding of Knowledge.

Seminars and directed Jobs

- These seminars provide Topics Analysis or pose specific problems Students will develop the group or individually. This content includes Therefore any activity performed Students UN-face mode, including evaluation processes.

## Practices

-Pre-Clinical Practices simulation evoke or replicate Fundamental Aspects of Clinical Reality and Clinical Practice in Patients.

## Self-Employment (homework BOLONIA)

- Indicating time student non-attendance, including information search, job preparation, or proposed exercises, study and preparation of exams.

These activities description will be developed in the second half, according to previously established Schedule

## 4.3.Syllabus

Planning sessions and presentation of works:

Planning sessions and presentation of papers is designed according to the academic calendar of the corresponding course. The days and hours to provide activities will be determined at the beginning of the semester.

### PROGRAM SUBJECT TO DEVELOP

UNIT : What is preventive and community dentistry?

1 : Concept of OPC . Natural history of disease. Prevention levels . Determinants of health .

UNIT : Oral environment.

2 : Ecosystem and oral microbiota. Characteristics. oral ecological niches. Oral ecological determinants . Classification of oral microorganisms.

3 : Bacterial plate ( I ) .Película acquired . Formation and metabolism of plaque. Composition. Plaque as an etiologic factor of caries.

4: plaque ( II ) . Types and location. Microbial and Biochemical of different types of dental plaque composition. Identification of bacterial plaque : Revealing plate .

5: Saliva: formation and composition . Salivary flow. Functions of saliva . Xerostomia.

UNIT : Control methods plaque.

6: Mechanical control of the plate. toothbrushing . Brushing techniques . dental floss. Other oral hygiene procedures .

7: Chemical control of bacterial plaque . Mechanisms of action and characteristics of the chemicals. Chlorhexidine. Other antiplaque products . Management systems antiplaque agents .

8: Calcification of the plaque: supra and subgingival calculation. Scaling and. Tartar removal: indications and contraindications. Stages.

9: Plaque Control Program. Definition. Components of a program. Plaque scores and bleeding.

UNIT: Dental Caries

10: Concept and evolution of dental caries. Etiology. Keyes scheme. Classification of risk factors. Diagnosis of caries. Stages of injury. Predicting the risk of caries.

11: Testing caries activity. Treatment: NTP and NTR. Special cases of dental caries: recurrent, baby bottle, root, rampant radiation.

UNIT: Fluoride

12: Relationship of fluoride to dental caries. Bioavailability. Metabolism. Fundamentals and concept of fluoride. Limitation on the use of fluoride: toxicity and fluorosis. Protocol use of fluorides in clinic.

13: Rational use of fluoride. systemic fluoride: fluoride tablets and drops. Methods of self-application of fluoride: fluoride supplements, toothpaste, fluoride mouthwashes, gels. Fluorine professional application.

UNIT: toothpastes and mouthwashes.

14: Concept of dentifrice. Composition. Types of dentifrices. Mouthwashes: Definition and functions. therapeutic mouthwashes.

UNIT: pit and fissure sealants.

15: Concept. Features sealant. Mechanism of action. Indications. Application technique. Dental Public Health sealing.

UNIT: Diet, Nutrition and caries.

16: Composition of food. Nutrition and oral health. Evaluation of cariogenic power of the diet. . Epidemiological evidence. Vipeholm study.

17: Program control diet. Objectives and components. Sweeteners and sugar substitutes. dietary recommendations to

prevent tooth decay.

UNIT: Prevention of oral diseases.

18: Periodontal Disease. Concept and classification. Risk factors for periodontal diseases. Diagnosis of periodontal risk. Prevention and control of periodontal diseases

19: Control of malocclusions. Risk factors. Space maintainers. Prevention in patients with orthodontic treatment.

20: dental trauma: etiology and risk factors. mouthguards. Attrition, abrasion and erosion.

21: Oral Cancer: Epidemiology and risk factors. Prevention levels. Prevention of oral complications due to radiotherapy treatments and / or chemotherapy.

THEMATIC UNIT: Prevention in the dental clinic.

22: Prevention of disease transmission by organic fluids. Methods of sterilization and disinfection. biological accidents.

23: Program preventive dental clinic. Evaluation of preventive needs.

24: Motivation and patient education. Importance of support staff.

COMMUNITY DENTISTRY

UNIT: Epidemiology in dentistry

25: General principles and concepts of dental epidemiology. Study methods.

26: Measurement of the disease in Community Dentistry. Evaluation of dental problems in epidemiology: indices.

27: Epidemiological studies: oral health surveys. Demand for dental care. Dental services in Spain.

28: Primary Health Care and Dentistry. Service portfolio. Dental care models.

29: oral preventive programs for specific groups: school children, pregnant and elderly.

#### 4.4.Course planning and calendar

Schedule sessions and presentation of works

Planning sessions and presentation of works is designed according to the academic calendar of

The days established to provide activities will be determined at the beginning of the semester

#### 4.5.Bibliography and recommended resources

BASIC BIBLIOGRAPHY

- Rioboo García, Rafael.. Odontología preventiva y odontología comunitaria / Rafael Rioboo García. . - 1ª ed. Madrid : Avances Médico-Dentales, 2002.
- Cuenca Sala, Emilio. Odontología preventiva y comunitaria : principios, métodos y aplicaciones / Emili Cuenca Sala, Pilar Baca García . - 3ª ed., reimp. Barcelona : Masson, 2005

RECOMMENDED RESOURCES

- Katz, Simon. Odontología preventiva en acción / Simon Katz, James L. McDonald, George K. Stookey México ; Madrid [etc.] : Editorial Médica Panamericana, cop. 1972
- Jiménez Romera, María Amelia. Odontopediatría en atención primaria Málaga : Vértice, [2008]
- Medicina preventiva y salud pública / G. Piédrola Gil... [et al.] . - 8ª ed., [reimp.] Barcelona ; Madrid [etc.] : Salvat, 1988
- Medicina preventiva y salud pública / directores, Antonio Sierra López ... [et al.] ; directores asociados, Fernando Rodríguez Artalejo ... [et al.]. - 11ª ed. Ámsterdam ; Barcelona ; Madrid [etc.] : Masson, 2008