29304 - Oral Microbiology

Información del Plan Docente

Academic Year	2016/17
Academic center	229 - Facultad de Ciencias de la Salud y del Deporte
Degree	442 - Degree in Odontology
ECTS	6.0
Course	1
Period	Second semester
Subject Type	Basic Education
Module	---

1.Basic info

1.1.Recommendations to take this course

1.2.Activities and key dates for the course

2.Initiation

2.1.Learning outcomes that define the subject

2.2.Introduction

3.Context and competences

3.1.Goals

3.2.Context and meaning of the subject in the degree

3.3.Competences

3.4.Importance of learning outcomes

4.Evaluation

5.Activities and resources

5.1.General methodological presentation

5.2.Learning activities

5.Activities and resources

5.1.Presentación overall methodological

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

The course is structured in 30 lessons magisterial participative, 10 hours of problems and cases in sessions of approximately 2 hours, 20 hours of laboratory practice and 14 hours practical work (portfolio).

Learning 5.2.Actividades

The program that the student is offered to help you achieve the expected results includes the following activities ...

PRACTICAL PROGRAM

Laboratory classes. Will take place in the Microbiology Laboratory, in 3 groups of students. These practices consist of:

Preparation of culture media.

Staining and observation of microorganisms.

Identification of microorganisms. biochemical tests.

Study of antimicrobial susceptibility testing.

PROBLEMS AND CASES

Presential 10 hours. Will take place in the classroom assigned in 2 groups. In these practices, students, working in groups or individually, resolve issues related to the agenda of the subject.

PRACTICAL WORK SUPERVISED.

No presential. 20 hours. Students, individually or in groups, develop a paper on a topic related to the subject (portfolio). Tutored by the teacher.

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THEORY

The lectures will take place in classroom planned for this purpose and the content is distributed in the following blocks:

Introduction to Oral Microbiology. Overview of microorganisms

Etiologic agents of oropharyngeal infections

Dental microbiology

5.3.Program

1. Introduction to Microbiology.

PART I: OVERVIEW OF MICROORGANISMS

2. Methodology, morphological observation and study of the utilization of microorganismos.

3. Morphology of bacteria.

4. Bacterial physiology. Metabolism.

5. Bacterial genetics.

6 Control of bacterial growth.

7. Antimicrobials.

8. Guest-parasite relation.

9. General characteristics of the immune response.

10. Microbiological diagnosis.

11. Epidemiology and prophylaxis.

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12. General characteristics of virus.

13. General characteristics of fungi.

14. General characteristics of parasites.

15. Laboratory diagnosis of infectious diseases.

PART II: INFECTIONS

16. Staphylococcus.

17 Streptococcus.

18. Anaerobic bacteria I.

19. Anaerobic bacteria II.

20. Gram-positive facultative anaerobes of oral interest.

21. Gram-negative facultative anaerobes of oral interest.

22. Acid-fast bacteria.

23. Spirochetes.

24. Candida and other fungi of dental interest.

25. Human parasitosis. Parasites of dental interest.

26. RNA virus of oral interest.

27. DNA virus of oral interest.

28. Hepatitis.

29. HIV.

PART III : DENTAL MICROBIOLOGY

30. Composition and ecology of the oral microbial flora.

31. Microbiology of dental plaque.

32. Microbiology of tooth decay.

33. Periodontal and peri-implant microbiology .

34 Systemic implications of oral infections.

5.4.Planning and scheduling

5.5.Bibliography and recomended resources