

**COURSE DATA****Data Subject**

Code	34497
Name	Maxillofacial plastic surgery
Cycle	Grade
ECTS Credits	4.5
Academic year	2022 - 2023

Study (s)

Degree	Center	Acad. year	Period
1204 - Degree in Medicine	Faculty of Medicine and Odontology	4	First term

Subject-matter

Degree	Subject-matter	Character
1204 - Degree in Medicine	18 - Optional subjects	Optional

Coordination

Name	Department
MARÍN BERTOLIN, SEVERIANO	40 - Surgery

SUMMARY

Maxillofacial Surgery is the medical-surgical specialty that deals with the prevention, study, diagnosis, treatment and rehabilitation of the pathology of the oral cavity and the face, as well as cervical structures, directly or indirectly related to them.

Plastic Surgery is the specialty that deals with the surgical correction of any congenital, acquired, tumoral or simply involutive process, that requires repair or replacement of surface structures that affect body form and function, being its techniques based on transplantation and tissue mobilization.

The subject aims to offer a more in-depth view of the indicated specialties regarding the knowledge acquired in previous years, so that the student can know, and, where appropriate, plan, the diagnosis and treatment of the most relevant pathologies in both Specialties. This vision will be offered in its broadest sense without going to delve into the controversies of each one.



PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.

Other requirements

It is highly recommended to have approved the main subject of 3rd year: Surgical Diagnostic and Therapeutic Procedures.

COMPETENCES (RD 1393/2007) // LEARNING OUTCOMES (RD 822/2021)

1204 - Degree in Medicine

- Students must be able to apply their knowledge to their work or vocation in a professional manner and have acquired the competences required for the preparation and defence of arguments and for problem solving in their field of study.
- Students must have the ability to gather and interpret relevant data (usually in their field of study) to make judgements that take relevant social, scientific or ethical issues into consideration.
- Understand the foundations of action, indications and efficacy of therapeutic interventions, based on available scientific evidence.
- Proper organisation and planning of the workload and timing in professional activities.
- Team-working skills and engaging with other people in the same line of work or different.
- Criticism and self-criticism skills.
- Capacity for communicating with professional circles from other domains.
- Acknowledge diversity and multiculturality.
- Consideration of ethics as a fundamental value in the professional practise.
- Working capacity to function in an international context.

LEARNING OUTCOMES (RD 1393/2007) // NO CONTENT (RD 822/2021)

- To be able to apply the theoretical knowledge received in exploration, diagnosis and treatment in order to solve the clinical cases raised.
- Obtaining and preparing a medical history containing all relevant information.
- Performing a physical examination on the healthy individual and the patient. Applying theoretical knowledge to the physical examination of the pathological patient.



- Having the ability to develop an initial diagnostic judgment and establish a reasoned diagnostic strategy.
- You should understand the concept of efficiency in the diagnosis and treatment of cases.
- You will know the most appropriate therapeutic of the most prevalent and chronic acute processes.
- Recognizing the pathologies and the severity of them to establish a correct response time of the treatment.
- It will be essential that you acquire knowledge and protocols in the prevention of diseases to be described.
- Acquiring knowledge in the area of pathology of salivary glands, in the areas of craniofacial and craniomandibular, and in terms of facial function and aesthetics.
- Expanding knowledge, diagnostic capacity and treatment in the area of oral surgery, maxillofacial traumatology and maxillofacial oncology.
- Knowing the different useful complementary explorations in maxillofacial territory.
- Performing an examination in a pathological patient in the field of healing, either by excess (hypertrophic and keloid scars) or by default (loss of substance).
- Having the ability to differentiate surgical and non-surgical indications in each case.
- Developing an opinion of its own on the two aspects of Plastic Surgery, namely the repairer and aesthetics.

DESCRIPTION OF CONTENTS

1. 1. Basic topics of plastic surgery.

1. Plastic surgery. Definition and history. Plastic surgery and cosmetic surgery. Pathological scarring. Substance losses: closure by second intent vs. hedges.
- Coverages I: skin grafts. Others Grafts.
2. Coverages II: vascular territories. Flaps: concept and types.
3. Coverages III: pressure ulcers (UPP).
4. Microsurgery. Basic principles. Planning. Indications.
5. Tissue expansion. Basic principles. Planning. Indications.
6. Breast reconstruction. Basic principles. Planning. Indications.
7. Burns.
8. Sex reassignment surgery.



2. 2. Basic themes of maxillofacial surgery.

9. Cystic pathology of the jaws. Epithelial cysts. Non-epithelial cysts. Treatment.
10. Conservative treatment of retained teeth.
11. Periapical surgical treatment.
12. Dental restoration. Dental implantology.
13. Jaws tumors.
14. Chronic dental and non-dental cervical infections. Osteomyelitis. Osteonecrosis.
15. Congenital cervico-facial pathology.
16. Maxillofacial traumatology. Middle and upper third fractures. Panfacial fractures. Gunshot wounds.
17. Reconstructive facial surgery.

3. 3. Practical teaching thematic area PLASTIC AND MAXILLOFACIAL SURGERY

Prior to its implementation requires availability of Classroom-Workshop, Instrumental-Practice Material and optionally access to surgical area on a scheduled basis.

Plastic SURGERY thematic area

1. Medical Student Forum. Aesthetic Surgery

MAXILLOFACIAL SURGERY thematic area

- 2- Maxillofacial traumatology. Direct fixing techniques and systems.
- 3.- Function and dental aesthetics. Implantology techniques and systems.

4.

Los seminarios se desarrollan en un aula de seminarios, con participación activa y dinámica del alumno, y donde el profesor actúa como introductor y moderador de discusiones temáticas propuestas por el propio alumnado.

- 1.- Seminario sobre casos clínicos de cirugía reparadora. Coberturas.
- 2.- Seminario sobre casos clínicos de microcirugía. Reimplante y miembro inferior.
- 3.- Seminario sobre casos clínicos de microcirugía. Cabeza y cuello.
- 4.- Seminario sobre casos clínicos de reconstrucción mamaria.
5. 5A. Seminario sobre CIRUGÍA ORAL: dientes incluidos. Concepto. Complicaciones. Riesgos.
- 5B. Tratamiento quirúrgico. Cáncer oral y sus vías de extensión. Tratamiento. Tratamiento adyuvante.
- 6.- Seminario sobre ARTICULACIÓN TEMPORO-MANDIBULAR: fisiopatología de la masticación y oclusión dentaria. Tratamiento quirúrgico de la ATM.
- 7.- Seminario sobre GLÁNDULAS SALIVALES: fisiopatología de las glándulas salivales. Patología no tumoral y tumoral. Tratamiento.
- 8.- Seminario sobre FUNCIÓN Y ESTÉTICA FACIAL: cirugía de las deformidades dento-faciales.
- 9.- Seminario sobre CASOS CLÍNICOS en cirugía maxilofacial.

**WORKLOAD**

ACTIVITY	Hours	% To be attended
Seminars	26,00	100
Theory classes	19,00	100
Study and independent work	27,00	0
Readings supplementary material	12,00	0
Preparing lectures	22,00	0
Resolution of case studies	4,00	0
Resolution of online questionnaires	2,50	0
TOTAL	112,50	

TEACHING METHODOLOGY

The syllax is intrinsically divided into three elementary, or basic, parts that allow you to approach the knowledge of the specialty:

General, Repair Plastic Surgery and Aesthetic Plastic Surgery.

General, Oral Surgery and Maxillofacial Surgery.

PRACTICAL CONTENT

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Practical content requires, essentially, the possibility of developing instrumental workshops and/ or approaching students to a surgical area.

CONTENT SEMINARS

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The theoretical topics are based on an element of awareness and discussion, which would be the seminars and are developed with the active participation of the student and where the teacher acts as an introductory and moderator of "thematic discussions" proposed by the students the same. The seminar can, and should, support the practical content viewed and/or made by the student during internships.

The student will be provided through the virtual classroom with all the information through files, articles and audiovisual support of the classes, so that they can prepare in advance.



It will also be available in the virtual classroom, in the questionnaires section, of an interactive test so that the student can continue to demonstrate and learn concepts in maxillofacial territory.

Individualized tutoring that will be carried out in person or online through the mechanisms offered by the Virtual Classroom of the University of Valencia.

EVALUATION

Attendance at practices/seminars will be mandatory. Unjustified non-attendance to more than 20% of the sessions will make it impossible to pass the course. To pass the subject, the student enrolled for the first time must attend at least 80% of the practical activities. In order to take the theoretical exam, it will be essential to have approved the practical evaluation.

- Practical evaluation: 50% of the final rating.

In the area of knowledge of C. Maxillofacial the evaluation will be carried out through attendance at the seminars (60% of the practice note) in which the signature sheet will be passed; and through the continuous evaluation of student participation, which will consist of short test-type exercises with multiple response, without penalization, and a clinical case (40% remaining).

In the area of knowledge of C. Plastic the evaluation will be carried out by attending the seminars and Forum (50% of the note) in which the signature sheet will be passed.

In the event that, due reason, the student has not been able to complete the minimum of practices required to take the theoretical examination, an oral examination will be carried out before the teachers of the subject on the content of the internship.

- Theoretical evaluation: 50% of the final rating.

50 multiple-answer questions. (25 questions corresponding to each area of knowledge of the subject). You will have 4 options of which only one will be the right one. Each answer answered and not correct will have a penalty of a quarter point.

It will be necessary to approve each of the 2 areas of knowledge of the subject so a minimum of 50% of points will be required in each of them, both in the theoretical evaluation and in practice. In case of not exceeding one of the areas of knowledge in the 1st call, the note of the approved block for the 2nd call will be saved exclusively.



It is necessary in order to be able to access to the advance of the call for this subject that the student has completed all of their practices.

Students are reminded of the importance of carrying out evaluation surveys on all the teaching staff of the degree subjects.

REFERENCES

Basic

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- Wei F, Mardini S, editors. FLAPS AND RECONSTRUCTIVE SURGERY. 2nd ed. Elsevier; 2016.
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- "ATLAS DE CIRUGÍA ORAL". H. SAILER. 1999. Ed. Masson. ISBN: 9788445804940.
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