

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

<b>Code</b>	34497
<b>Name</b>	Maxillofacial plastic surgery
<b>Cycle</b>	Grade
<b>ECTS Credits</b>	4.5
<b>Academic year</b>	2023 - 2024

**Study (s)**

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

**Subject-matter**

<b>Degree</b>	<b>Subject-matter</b>	<b>Character</b>
1204 - Degree in Medicine	18 - Optional subjects	Optional

**Coordination**

<b>Name</b>	<b>Department</b>
MARIN BERTOLIN, SEVERIANO	40 - Surgery
MARQUES MATEO, MARIANO SALVADOR	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.

## OUTCOMES

### 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

- 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**

### **4. Seminars**

The seminars will take place in a seminar room, with the active and dynamic participation of the student, and where the teacher acts as an introducer and moderator of thematic discussions proposed by the students themselves.

- 1.- Seminar on clinical cases of reconstructive surgery. Non-microsurgical coverage.
- 2.- Seminar on microsurgery clinical cases. Reimplantation.
- 3.- Seminar on clinical cases of burns.
- 4.- Seminar on clinical cases of breast reconstruction.
- 5.- Medical Student Forum. Aesthetic Surgery
- 6.- 6 A Oral surgery seminar. Teeth included. Concept, complications, risks, 6B surgical treatment. Oral cancer and its extension routes. Adjuvant treatment.
- 7.- Temporomandibular seminar. Pathophysiology of mastication and dental occlusion. Surgical treatment of the TMJ.
- 8.- Seminar on salivary glands ; pathophysiology of salivary glands. Non tumoral pathology. treatment. Tumoral pathology.
- 9.- Seminar on facial aesthetic: Deformities of the teeth.
- 10.- Seminar on maxillofacial surgery clinical cases.
- 11.- Maxillofacial traumatology. Technology in direct fixation
- 12.- Aesthetic and function of the teeth. Implantology

**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
<b>TOTAL</b>	<b>112,50</b>	

**TEACHING METHODOLOGY**

Syllax se intrinsically dividido en tres elementos, oro básico, partes que permiten acercarse a la idea de la especialidad:

General, Repair Plastic Surgery and Aesthetic Plastic Surgery.

General, Oral Surgery y Maxillofacial Surgery.

**PRACTICAL CONTENT**

:

Practical contenido requerimientos, esencialmente, la posibilidad de developing instrumentales workshops and/ or approaching students to a surgical area.

**CONTENTO SEMINARES**

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Theoretical tópicos se basa en un elemento de awareness and discussion, por lo que se debe a seminars y está desarrollado por la activa participación de los estudiantes y por lo que las temáticas actúan como introductory y moderador de "temática discusiones" proponen a los estudiantes de los mismos. Seminar can, and should, apoyo el practical contenido que viewed and/or made by the student during internships.

El estudiante debe proveer desde virtual classroom con todas las informaciones mediante filas, artículos y audiovisuales para apoyar las clases, y que se pueden preparar en advance.





Será también disponible en el virtual classroom, en las preguntas secundarias, en el interactivo test sobre el que el alumno puede continuar para demostrar y lear conceptos en el territorio máximo.

Individualized tutoring que se carga en persona u online mediante mecanismos ofrecidos por la Virtual Classroom de la Universidad de Valencia.

Teaching se puede producir following sustainability criteria and from the appropriate gender perspective.

## EVALUATION

*Inglés*

### Evaluación

Attendance at practices/seminars will be mandatory. Unjustified no-attendance to more than 20% of the sesiones will make it imposible to pass the course. Pasando el sujeto, el estudiante enrolló para el tiempo de tiempo que atenta al 80% de las practicas actividades. Para ordenar la teoretical examen, se debe ser esencial a la práctica evaluativa.

- Practical evaluation: 50% of the final rating

En maxilofacial surgery, la valoración se carga entre pruebas de seminars (60% de la práctica nota) en el que la firma se debe pasar; and through the continuous evaluation of student participation, which consiste en short test-type exercises with multiple response, without penalization, and a clinic case (40% remaining).

In plastic surgery, this evaluation will be carried out with an application, such as Kahoot! or similar, through which one or more questions about its content will be interspersed during the development of each class. The combination of class attendance, accuracy and speed when responding will allow a ranking of scores to be established. Two points of the final mark will correspond to the maximum score, while the rest will be ordered proportionally. The signature of the assistance to the Forum will provide the other 0.5 points of the note.

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 part 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.

Es necesario para la aplicación de cada 2 partes de los sujetos como mínimo de 50% de los punts que es requerida en cada una de ellas, <sup>st</sup> bota en teórica y en práctica. V případě <sup>nd</sup> no exceeding one of parts of the subject in the 1<sup>st</sup> call, note of the approved block for the 2<sup>nd</sup> call will be saved exclusivamente.

Es necesario para ordenar la posibilidad de acceder a la avanza de la calle para este sujeto que el estudiante ha completado todas las prácticas.

Students recuerdan la importancia de la carga de las evaluaciones surveys en el teaching staff of degree subjects.

## REFERENCES

### Basic

- En cirugía plastica
  - McGregor A, McGregor A, McGregor I. Fundamental techniques of plastic surgery. 10th ed. Churchill Livingstone; 2000.

En maxilofacial:

- NETTER. ANATOMÍA DE CABEZA Y CUELLO PARA ODONTÓLOGOS". Neil S. Norton. 2007. Ed. Elsevier Masson. ISBN:844581785X.

- "TRATADO DE CIRUGÍA ORAL Y MAXILOFACIAL", 3 Vol. Navarro Vila, Carlos. Ed. Aran. 2009. ISBN: 84.95913.33"



- ATLAS DE CIRUGÍA ORAL". H. SAILER. 1999. Ed. Masson. ISBN: 9788445804940.
- "ORAL AND MAXILLOFACIAL DISEASES". Scully C, JV. Bagán. 2010. ISBN: 9780415414944
- Recursos-e Salut: ClinicalKey Student. Elsevier (Scopus, ScienceDirect):  
[uv-es.libguides.com/RecursosSalut/BibliotecaSalut](http://uv-es.libguides.com/RecursosSalut/BibliotecaSalut)

#### **Additional**

- Cirugía plastica:
  - Thorne CH, editor-in-chief. Grabb and Smiths plastic surgery. 7th ed. Lippincott Williams &Wilkins, a WoltersKluwer business; 2014.
  - Nelligan PC, editor-in-chief. Plastic surgery: 6-volume set. 4th ed. Elsevier; 2017.
  - Wei F, Mardini S, editors. Flaps and reconstructive surgery. 2nd ed. Elsevier; 2016.
- Cirugía maxilofacial:
  - CIRUGÍA ORAL Y MAXILOFACIAL CONTEMPORÁNEA. 6th Edition. Authors: James Hupp Edward Ellis Myron Tucker. Editorial Elsevier. 2014. eBook ISBN: 9788490225967. Hardcover ISBN: 9788490224984
  - "HEAD AND NECK SURGERY AND ONCOLOGY". Jatin Shah. 2012. Ed .Elsevier Mosby. ISBN:9780323055895.
- Recursos-e Salut: ClinicalKey Student. Elsevier (Scopus, ScienceDirect): [uv-es.libguides.com/RecursosSalut/BibliotecaSalut](http://uv-es.libguides.com/RecursosSalut/BibliotecaSalut)