

International Master's Degree in Oral Surgery (IMOS)

International Master's Degree in Oral Surgery (IMOS) 2019-2022

Introduction

The IMOS focuses on oral surgery techniques and provides students with basic and advanced oral surgery skills. The aim of this programme is to be a comprehensive complement for dentists focused on oral surgery. After graduating from the IMOS, students should be able to manage complex oral surgery and implantology clinical cases. IMOS students will, during three consecutive years, receive a high level of theoretical and practical training in the diagnosis, treatment planning and surgical management of oral surgical pathology. They will also achieve advanced research skills. In the field of implant dentistry, the IMOS will not only cover surgical aspects, but also pre-surgical planning, prosthetic guided surgery and rehabilitation.

Organising Department

Department of Oral and Maxillofacial surgery
Faculty of Dentistry

Chairman

Dr Federico Hernández Alfaro

Programme Directors

Dr Jordi Gargallo-Albiol
Dr Samir Aboul-Hosn

Coordinator

Dr Jorge Bertos Quilez

Academic Board

Dr Samir Aboul-Hosn, Dra Sandra Barrio, Dr Albert Barroso, Dr Jorge Bertos, Dr Oriol Cantó, Dr Basel Elnayef, Dra Elvira Ferrés, Dra Susana García, Dr Jordi Gargallo Albiol, Dra Maria Giral, Dr Federico Hernández Alfaro, Dra Aida Lázaro, Dra Naroa Lozano, Dr Ernest Lucas, Dr Jordi Marqués, Dr Javier Molina, Dr Jorge Ortega, Dr Octavi Ortiz, Dr Andrés Pascual, Dra Silvia Pérez, Dr Manuel Piñera, Dra Cristina Porta, Dr Marc Quevedo, Dr Gian Maria Ragucci, Dr Dani de Ribot, Dra Vanessa Ruiz, Dr Oscar Salomó, Dr Antonio Santos, Dra Marta Satorres, Dra Marta Serrat, Dr Oriol Torres, Dra Cristina Vallés, Dr Juan Zanón.

Universitat Internacional de Catalunya
Faculty of Dentistry



International Master's Degree in Oral Surgery (IMOS)

Guest Faculty

Dr Josep Arnabat (Barcelona), Dr Joao Carames (Lisbon), Dr Alberto Sicilia (Oviedo), Dr Pablo Galindo (Granada), Dr Miguel Peñarrocha (Valencia), Dr Hom-Lay Wang (Michigan), Dr Pietro Felice (Bologna), Dr Istvan Urban (Hungary).

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Course Programme

The programme of the International Master in Oral surgery is divided into three parts: theoretical, practical and research.

The theoretical program is divided into different transversal subjects, master classes of oral and maxillofacial surgery, literature review sessions, clinical sessions, seminars and conferences of experts.

The practical program is focused to prepare the students to achieve high-level skills in oral surgery, dental implant surgery and implant restoration. Our program offers daily clinical practices over patients, making the difference among other formative options. The practices take place at the dental surgery of the Clínica Odontológica Universitaria, at prosthetic surgery of Clínica Odontológica Universitaria. Also, students will have extraoral practices at Hospital General de Catalunya, Centro Medico Teknon and Hospital Platón.

This Master is oriented on investigation and research program run simultaneously with the theoretical and practical program. Students are immersed in research subjects during the three years of the Master, and a final research project has to be presented before the end of the program.

Theoretical program

Oral Surgery and Maxillofacial Basics

Introduction to oral and maxillofacial surgical pathology.

Medical history in oral surgery.

Preoperative studies.

Local anaesthesia, sedation and general anaesthesia.

Disinfection and sterilisation.

Surgical field preparation.

Instruments and materials in oral surgery.

Postoperative care and medication.

Basic surgical technique: Incisions and flaps.

Dental Eruption Alterations: Complex Dental Extractions

Introduction to eruption alterations.

Third molar eruption pathology.

Canine eruption pathology.

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Other dental inclusions.
Supernumerary teeth.
Complex dental extractions.
Dental extraction complications.

Infection Pathology

Focal infections.
Systemic infections: Local infections.

Soft Tissue Pathology

Oral mucosa pathologies: Classification, diagnosis and treatment.
Soft tissue surgery.
Biopsy.
Buccal frenulum surgery.

Cyst and Tumour Pathology

Maxillary cysts: Classification, diagnosis and treatment.
Periapical surgery.
Benign tumours of the oral cavity.
Malignant tumours of the oral cavity.
Squamous carcinoma of the oral cavity and pharynx.
Oral surgery in the irradiated patient.

Endodontic Essentials

Pulp anatomy and physiopathology.
Endodontic treatment basics.
Endodontic treatment in necrotic teeth.
Endodontic treatment in periapical lesions.
Endodontic treatment planning. Case discussion.

Laser Application in Oral Surgery

Physical basics of laser technology.
Safety and protection rules in laser therapy.
Characteristics and principles of different types of lasers.

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Diode laser application in oral surgery.
CO2 laser application in oral surgery.
Erbium laser application in oral surgery.
Low power laser application in oral surgery.
Biostimulation.
Case presentation and discussion of laser therapy cases.
Research protocols in oral surgery laser therapy.

Dental Implants

Introduction and principles of dental implants.
Dental implant surface, design and biomechanics, bone anatomy and histology.
Osseointegration: Image diagnosis in dental implantology.
Surgical technique in dental implants.
Oral pathology and dental implants in paediatric patients.
Guided surgery.
Guided bone regeneration.
Bone regeneration with extraoral autogenous grafts.
Dental implants and bisphosphonates.
Short implants.
Post extraction implants.
Maxillary sinus lift: Lateral and crestal approach, split crest technique in horizontal bone atrophy.
Dental implants in anatomic arbotants: Zygomatic implants and pterygoid implants.
Dental implant complications.
New paradigms in reconstructive and preprosthetic surgery.

Salivary Glands Pathology

Salivary gland non-tumoural pathology.
Salivary gland tumoural pathology.
Clinical-pathological correlation in salivary gland pathology.

Buccofacial Traumatology

Osteosynthesis and fracture repair.
Management of the trauma patient.

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Dental and dentoalveolar traumatology.
Lower and mid facial third traumatology.
Buccofacial traumatology, osteosynthesis and fracture repair.
Management of the trauma patient.
Dental and dentoalveolar traumatology.
Lower and mid facial third traumatology.

Craneo-Facial Developmental Pathologies

Head and neck embryology.
Labial fissures.
Facial fissures.
Craneofacial malformations.
Cervical pathology.

Temporomandibular Joint Dysfunction

TMJ physiology and biomechanics.
TMJ dysfunction pathology and treatment.
Research.

Practical Programme

Our learning model is based on rigorous academic training. Clinical practice on patients is therefore essential for developing highly qualified professionals, which is exactly what sets our postgraduate courses apart: surgical and prosthodontics practicums in the CUO (University Dental Clinic) and prosthodontics laboratory, hospital placements and placements at other universities.

The practical part of this course includes work in the Oral Surgery Department, Prosthodontics Department and Periodontic Department in the University Clinic, as well prosthodontic laboratory work on Mondays. Finally, participants will take part in practicums in external medical centres on Monday and Tuesday mornings during the first and second year of the master's degree, and also on Tuesday during the third year. Thanks to the agreements UIC Barcelona holds with European and American universities, second and third year students will have the option to visit other departments at national and international universities.

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Surgical practicums will take place in the University Clinic on Tuesday, Wednesday and Thursday afternoons, for the duration of the programme. Postgraduate students will perform all oral surgical treatments and surgical implant treatments under the supervision of a teacher. During the first year of the programme, students will help and assist second and third year students. They will subsequently move on to performing simple surgical treatments, with the help of a more experienced student and always under the supervision of the teacher. Students will be allowed to treat more advanced cases in line with their individual learning curve.

Prosthodontic practicums will be carried out on Friday mornings during the third year of the programme, in order to use it for pre-surgical planning in all implant cases and therefore become familiar with prosthodontic rehabilitation in dental implant treatments.

The prosthodontic laboratory: during the first year of the programme, students will go to the lab on Mondays to learn the basic procedure for creating an implant retained denture.

Hospital Practicums

Students in the first, second and third year of the programme will go to external medical centres on Monday and Tuesday mornings and Tuesday afternoons. This activity will provide students with hospital experience and the chance to learn about oral surgery from a hospital perspective. They will also be able to follow research lines in situ.

Placements at other universities

During the second and third year of the programme, the best students, according to strict criteria, will be offered a placement in the Oral Surgery Department at another national or international university.

Research program

Scientific papers publications

Narrative reviews, systematic reviews, in vitro studies, experimental studies, clinical studies, finite elements studies.

Final Master Work (TFM)

Anatomical Dissection Seminar

Anatomical dissection practicum for the oral cavity and its related anatomical structures will be organised in coordination with the Surgical and Functional Anatomy Unit.

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Theoretical classes on surgical anatomy, with an explanation of the dissection objectives of the practicum, will be organised into groups of two participants per dissection specimen during the first and second year.

Objectives of the Anatomical Dissection Seminar:

To introduce the topographic and surgical anatomy of the oral cavity. The most important anatomical structures relating to the upper maxilla and the mandible, as well as the related muscle-tendinous, vascular, nerve and glandular structures will be reviewed.

On a practical level, an upper maxillae approach will be performed to review the standard oral, dentoalveolar and prosthesis procedures, such as the sinus floor and bottom of the nostril approach, as well as the dissection of the Bichat fat-pad.

In addition, an intraoral approach to the mandible will be performed to identify the structures of the mental nerve, the inferior alveolar nerve and the lingual nerve.

In the event the anatomical preparations present dental pieces, classic dental extraction techniques will be performed.

The Department will establish the dates of the practical training at the beginning of the academic year, in accordance with the dates proposed by the Faculty of Medicine's Anatomy Unit.

Anaesthesia Seminar on Special Needs Patients Management

This practicum will be led by a physician specialised in Anaesthesiology and Recovery, and will take place during the hours of the Clinical Internships in Surgical Techniques, basic Cardiopulmonary Resuscitation (CPR) seminar, and is coordinated with the Anaesthesia Department of the Hospital General of Catalonia.

CPR Course

Cardiovascular diseases are a major public health problem. Most unnecessary deaths are caused by coronary diseases and often occur in out-of-hospital settings. For this reason, training of the general public is encouraged and should not be limited to just professionals directly related to the field of healthcare, as everyone can play a crucial role as a primary health aid.

The training session will be run by an instructor from the Catalan Resuscitation Council (CCR) and will include the content established by the official BLS-AED training.

Students that successfully pass the course will receive an official BLS-AED certificate issued by the Catalan Resuscitation Council (CCR).

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Nitrous Oxide Course

The programme offers insight into nitrous oxide sedation dentistry methods and cardiopulmonary resuscitation. Here we will take a look at clinical pharmacology concepts of medical gases, as well as cardiopulmonary resuscitation, the use of defibrillators and conscious nitrous oxide sedation equipment management. The aim of the course on nitrous oxide is to help students take significant steps towards improving treatment quality and to do so with confidence.

Learning Outcomes

- Surgical techniques for extractions: roots, wisdom teeth, unerupted teeth.
- Diagnosis, planning and treatment of edentulism with dental implants.
- To become familiar with oral rehabilitation treatments with dental implants. To know how to diagnose and plan clinical cases from surgery to prosthetics.
- Preprosthetics and periodontics advanced surgery techniques.
- To know how to perform differential diagnosis of intraoral lesions.
- To know how to perform biopsies in intraoral lesions.
- To learn how to perform a differential diagnosis of X-ray images in conventional radiology, CT scans and cone beam CT scans.
- Treatment of maxillary cystic pathologies.
- Surgical treatment of periapical lesions.
- Frenulum surgical treatment (labial and lingual).
- Salivary lithiasis treatment in the Wharton conduct.
- Treatment and diagnosis of dentoalveolar fractures.
- To learn to present and debate clinical cases.
- To improve public speaking skills
- To know the steps to correctly present a doctoral thesis.
- To present a Final Master's Degree project (TFM).

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Courses and conferences

Students must attend and present at least three papers. They will be able to choose from the following congresses during the three years of the master's degree: SECIB, SECOM, SEPA, SEPES.

During the master's programmes, students must also present a paper at one of the following international congresses: EAO, Europerio and EFOSS.

Methodology and evaluation

- Continuous evaluation of the practical and theoretical modules, scientific papers and research projects.
- In order to graduate, students must have passed all theoretical exams. At the end of the programme, all students must present and defend five clinical cases.

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Material

Instrumental to be provided by the student. To access the Master students must bring:

1. General Instrumental:

- 1.1. SLR digital camera with flash override
- 1.2. Game of mirrors and contrastador (black background) for intraoral photography.
- 1.3. Laptop.
- 1.4. Safety glasses.
- 1.5. Optional: Magnification.

2. Surgical Instruments:

- 2.1. Scalpel handle No. 7 (16cm) for 10 to 15 sheets
- 2.2. Clips gillis (1 with teeth, 1 without teeth)
- 2.3. Adson Forceps (1 with teeth, 1 without teeth)
- 2.4. Separators Farabeuf
- 2.5. 1 Langenbeck separator
- 2.6. 1 Separator minesota
- 2.7. Abrebocas rubber wedges (medium and large)
- 2.8. Periosteal howard (one wide and one narrow)
- 2.9. Needle Holder 15cm tungsten tip
- 2.10. Mosquito Forceps (with teeth and toothless)
- 2.11. Curved Mayo scissors 1
- 2.12. 1 dissecting scissors 14cm Metzembraum
- 2.13. 1 legra two small sides
- 2.14. One middle two sides curette
- 2.15. 1 straight punch small
- 2.16. 1 straight punch medium
- 2.17. 1 set of winters pointy
- 2.18. 1 set of lifters pott
- 2.19. Field clamps 4
- 2.20. Allis forceps 1
- 2.21. 1 dental mirror
- 2.22. 1 syringe of anesthesia Uniject
- 2.23. 1 tongue depressor
- 2.24. 1 clamp gouge angled 15 cm
- 2.25. 1 periodontal probe
- 2.26. Surgical cassette

3. Instrumental Prostheses:

- 3.1. Lecron.
- 3.2. Electric wax spatula.
- 3.3. Great appetizer.
- 3.4. Small appetizer.
- 3.5. 6 or more complete sets of natural teeth (incisors, canines, premolars and molar).
- 3.6. 3 Sets exploration: 2 mirrors, 1 clamp, 1 exploration and periodontal probe.
- 3.7. Hammer sacapuentes Antoghyr manually.
- 3.8. Cement spatula.

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- 3.9. Spatula retraction cord, Brand ROEKO, Ref. 520 001.
- 3.10. Spatula composite.
- 3.11. Spatula wax.
- 3.12. Glass tile.
- 3.13. Alginate cup and spatula.
- 3.14. Cup and spatula plaster.
- 3.15. Cup of gum resin.
- 3.16. Caliper.
- 3.17. 2 Syringes of anesthesia (Uniject).
- 3.18. Pliers Angle.
- 3.19. 2 Mosquitos.
- 3.20. 1 Koher.
- 3.21. Straight scissors.
- 3.22. Miller clamp.
- 3.23. Semi-adjustable articulator mark ARTEX (Option to purchase at the UIC Barcelona).
- 3.24. Rotary Material: Turbine, adapter, handpiece, handpiece, micromotor, instrument box (Hu - Friendly DIN IMDIN Ref. 13).
- 3.25. Modeling wax.
- 3.26. Metal thickness meter (Ninstrom).
- 3.27. Set for waxed PK (Pk 1, 2, 3, 4 and 5).
- 3.28. Cutter.

The University is not responsible for any loss of material, and therefore recommends that mark with Name everything possible.

The model and compatibility of the adaptor must be confirmed.

Admissions process

Personal interview: The personal interview will be carried out with the Coordinator, Director and Professors of the Master's degree. Academic merits will be valued, as will the ability to work in a team and professional experience.

Theoretical test: Theory test of multiple choice answers about oral and maxillofacial surgery.

Psychometric test: The psychometric test will take between 20 and 30 minutes. This test is undertaken to assess the abilities and skills of each candidate.

English test: This involves reading a text in English and then summarizing it. An oral exam (First Certificate level recommended).

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Facilities

UIC Barcelona believes that clinical practice on patients is crucial for training high-level professionals.

The University Dental Clinic is located on university grounds and has:

- 88 booths equipped with state-of-the-art dental technology:
 - 80 general booths.
 - 2 booths for special patient care.
 - 6 surgical booths.

- 5 laboratories:
 - 2 prosthetic dental laboratories with the most up-to-date CAD/CAM units that allow students to apply the latest techniques in all areas of dentistry.
 - 1 dental research laboratory.
 - 1 regenerative medicine laboratory.
 - 1 pre-clinical laboratory with 95 training simulators and digital radiology. This facility allows students to train with augmented reality techniques before treating patients.

- 3 radiology and 3D units for complementary tests with planning programs for both implantology and prosthetics, which give students hands-on experience with the latest technologies.

- Units equipped for live broadcasting of surgical interventions.

- 2 diagnostic imaging rooms for taking panoramic dental X-rays and latero-lateral and posterior-anterior teleradiographies, periapical radiographs and CBCT scans.

- Treatment planning room.

- Smart storage room for delivery and collection of material.

- Sterilisation unit for medical materials and instruments.

- Administrative control software for patients and students.

UIC Barcelona has signed several RDI agreements with manufacturers to strengthen ties between the University and industry.

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Basic information

Calendar

September 2019 to July 2022

Timetable

First year:

Mondays	10 a.m. - 2 p.m.
Tuesdays	8.30 a.m. - 9 p.m.
Wednesdays	8 a.m. - 9 p.m.
Thursdays	8 a.m. - 9 p.m.
Fridays	8 a.m. - 2 p.m.

Second year:

Mondays	8.30 a.m. - 1.30 p.m.
Tuesdays	10 a.m. - 9 p.m.
Wednesdays	8 a.m. - 9 p.m.
Thursdays	8 a.m. - 8 p.m.
Fridays	8 a.m. - 2 p.m.

Third year:

Tuesdays	10 a.m. - 8.30 p.m.
Wednesdays	10 a.m. - 9 p.m.
Thursdays	12 a.m. - 9 p.m.
Fridays	8 a.m. - 2 p.m.

*Hours listed may vary

Pre-registration date

From January 2019

Fees

First year:

€ 27,384*

Second year:

€ 27,344*

Third year:

€ 23,486*

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*Annual registration fees are included (€480/year). The annual registration fees have not yet been approved by the University's Board of Governors.
The price for the second and third years (2020-2021 and 2021-2022) has not yet been approved by the University's Board of governors and is subject to an index-linked increase.

Places available

There are 6 places available

Accreditation

180 ECTS International Master's Degree in Oral Surgery

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Documentation required for pre-registration

- Pre-enrolment form.
- A certified copy of the relevant undergraduate degree*.
- Transcript of grades (original or certified copy) *.
- Photocopy of National Identity Document (DNI) or passport.
- Receipt for payment of €90 by bank transfer**.
- Curriculum vitae.
- Letter/s of recommendation.

*For students from outside the European Union, both the academic record and the degree certificate must be processed through diplomatic channels or bear The Hague Apostille. Candidates in the last year of their degree programme must provide a list of the qualifications they obtained before their registration date.

**Management fees are non-refundable.

Send to:

Cristina Junquera
Paola Lago
infodonto@uic.es

Faculty of Dentistry
Universitat Internacional de Catalunya
Hospital General Building
C/ Josep Trueta, s/n
08195 Sant Cugat del Vallès (Barcelona)

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Bank details

The fee can be paid into any of the following bank accounts held by the Universitat Internacional de Catalunya, Fundació Privada. The student's name and the personal code that appears at the top of the enrolment form should be entered in payee details.

- Bank: LA CAIXA
- IBAN code: ES14 2100 0940 8002 0019 1646
- SWIFT/BIC code: CAIXESBBXXX
- Address: Calle Muntaner, 262. - 08021 BARCELONA

- Bank: BANCO BILBAO VIZCAYA ARGENTARIA
- IBAN code: ES88 0182 6035 4400 1150 1145
- SWIFT/BIC code: BBVAESMM
- Address: Plaza Catalunya, 5, 2^a pl. - 08001 BARCELONA

- Bank: BANCO SANTANDER
- IBAN code: ES63 0049 1806 9429 1189 8561
- SWIFT/BIC code: BSCHEMM
- Address: Paseo de Gracia, 5, 4^a pl. - 08007 BARCELONA

- Bank: CATALUNYA CAIXA
- IBAN code: ES22 2013 1356 8402 0001 0806
- SWIFT/BIC code: CESCESBBXXX
- Address: Plaza Antonio Maura, 7 - 08003 BARCELONA

- Bank: BANC DE SABADELL
- IBAN code: ES78 0081 5084 0200 0102 9106
- SWIFT/BIC code: BSABESBB
- Address: Avenida de Sarrià, 17-19 - 08029 BARCELONA

- Bank: BANCO POPULAR
- IBAN code: ES82 0075 1586 9406 0005 8301
- SWIFT/BIC code: POPUESMM
- Address: Paseo de Gracia, 54, entlo. 1^a - 08007 BARCELONA

Personal details

Name					
First Surname			Second Surname		
Date of Birth	/	/	Sex	Male	Female
E-mail			Mobile Number		
Address					
Country			City		
Postal Code			Nationality		
Country of Birth			Place of Birth		
NIF/NIE		Foreign ID*		Passport number	
Usual Language					
What language do you want to receive information in?			English	Spanish	

*Born outside of Spain or non-Spanish nationality

MASTER'S DEGREE/POSTGRADUATE COURSES

MASTER'S DEGREE

Master's Degree in Periodontology
 European Master's Degree in Endodontics
 International Master's Degree in Oral Surgery (IMOS)
 Master's Degree in Advanced Aesthetic Restorative Dentistry
 Máster Universitario en Odontología Restauradora Estética
 Máster en Odontopediatría Integral y Hospitalaria
 Máster en Ortodoncia y Ortopedia Dentofacial
 Máster en Disfunción Craneomandibular y Dolor Orofacial

BLENDED LEARNING MASTER'S DEGREE

Master's Degree in Endodontics Online
 Máster Universitario en Investigación en Odontología
 Máster en Estética Dental Online
 Máster en Odontopediatría Integral y Hospitalaria Online

POSTGRADUATE COURSES

RC en Ortodoncia
 RC en Periodoncia
 RC en Prótesis Bucal
 RC en Implantología Oral
 RC en Odontopediatría
 RC en Técnicas Quirúrgicas aplicadas a la Cavidad Oral
 RC en Gerodontología, Pacientes especiales y con compromiso médico
 Postgrado en Odontología Integrada Avanzada
 Postgrado Avanzado en Radiología Oral y Maxilofacial
 Postgrado en Creación y Gestión de la Clínica Dental

ACADEMIC INFORMATION – Degree from the university of origin

University		Country				
Degree						
Type of degree	Graduate	University Master's degree holder	Master's degree holder	Other		
Year	/	/				
How did you find out about the UIC Barcelona?						
Word of mouth (through friends, school, ...)		Visit to the university	The website	Fairs	Advertising	Other

Send to: infodonto@uic.es

Faculty of Dentistry - Universitat Internacional de Catalunya - Hospital Universitari General de Catalunya Building
 C/ Josep Trueta, s/n 08195 Sant Cugat del Vallès (Barcelona)