Barcelona University | Faculty of Dentistry

HANDS-ON ADVANCED COMPREHENSIVE PAEDIATRIC DENTISTRY



ADA C·E·R·P® | Continuing Education Recognition Program

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Universitat Internacional de Catalunya

Campus

UIC Barcelona, CampusSant Cugat

Tuition Fee

1.995€

Calendar and Schedule

From 28 June to 2 July, 2027

10.00 to 13.00 and from 15.00 to 19.00

Language

English

Mode of delivery

On-Site

Credits

3

Information and admission

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Designed for dental graduates looking to advance their expertise in paediatric dentistry, this programme offers an excellent opportunity to update their knowledge of the latest treatment approaches and strengthen their clinical skills in the care of paediatric patients.

Through an intensive, hands-on practical week, participants will develop their manual skills, refine their diagnostic abilities and gain greater confidence in planning and delivering appropriate treatments. The programme combines up-to-date theoretical knowledge with supervised practical training, providing an enriching learning experience focused on the real clinical challenges of paediatric dentistry.

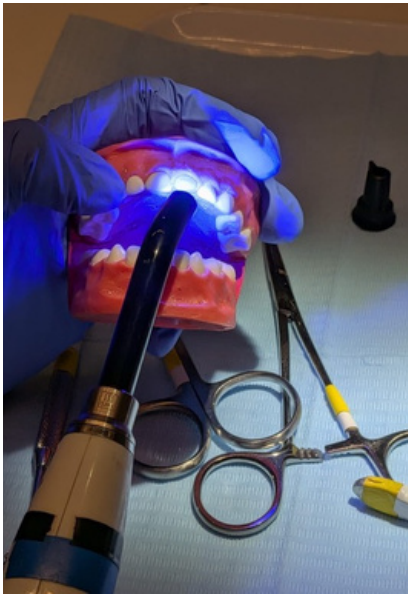
By the end of the programme, participants will have enhanced their clinical competencies and acquired practical insights that they can directly apply to their professional practice.

- To provide all the necessary tools to educate families starting from pregnancy and to establish appropriate dietary and oral hygiene habits from conception.
- To explain different strategies for managing the behaviour of patients under 3 years of age, as well as performing accurate diagnoses, treatment planning, and age-appropriate restorative options.
- To establish key concepts for the diagnosis and treatment of young permanent teeth.
- To analyse the potential and mechanisms of pulpal repair and regeneration, as well as the disinfection techniques required to optimise these processes.
- To evaluate the indications for direct and indirect restorations in permanent teeth.
- To incorporate anterior tooth stratification techniques.
- To establish a protocol for placing aesthetic crowns on primary teeth.
- To define the principles of Neuro-Occlusal Rehabilitation (NOR).

*La Facultad de Odontología de UIC Barcelona es la **primera y única universidad española** acreditada por la American Dental Association para la Formación Continua:*

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TARGET

This programme is designed for dental graduates (Dentists) seeking to expand and update their knowledge, enhance their clinical skills and gain advanced practical training in paediatric dentistry.

MODE OF DELIVERY

On-campus, face-to-face training combining theoretical lectures, clinical case discussions, demonstrations and supervised hands-on practical sessions.

ASSESSMENT METHOD

An online self-assessment test will be carried out at the end of the course so that students can assess the achievement of their personal goals and their knowledge of the content of the course.

Responsible Department

Paediatric dentistry
Faculty of Dentistry

Course Coordinators

Dr Francisco Guinot
Dr. Maria Chiara Cappiello

Instructors

Dr. Maria Chiara Cappiello,
Dr. Maria Carmela Giovannelli,
Dr. Karem Marfisi,
Dr. Javier
Roldán,
Dr. Silvia Yuste,
Dr. Gema Redondo.i



*The coordinators and lecturers have no financial ties to any companies that would pose a conflict of interest with the course.

COURSE PROGRAMME:

The programme is structured into five specialised modules, combining advanced theoretical knowledge, clinical case discussions and intensive hands-on practical sessions.

MODULE 1. INFANT DENTISTRY

- Prenatal dentistry: oral health during pregnancy, hygiene and dietary guidelines.
- Oral health prevention and guidance: toothbrushing, oral hygiene according to caries risk, pacifier and bottle use, and breastfeeding.
- Infant oral development: oral examination, dental structures, tooth eruption, anomalies and common pathologies.
- Clinical management of infants: behaviour management, instrumentation and working positions.
- Early Childhood Caries (ECC): aetiology, clinical characteristics, diagnosis and treatment.
- Clinical observation of treatments in children under 3 years of age.
- Clinical case presentations.

Hands-on training: Knee-to-knee examination, recognition of normal oral anatomy, identification of eruption stages and early carious lesions, ergonomic positioning, minimally invasive treatments, silver diamine fluoride application, glass ionomer restorations, isolation techniques and behaviour management.

MODULE 2. PULP TREATMENTS IN YOUNG PERMANENT TEETH

- Anatomical and physiological characteristics of young permanent teeth and root development.
- Aetiology of pulpal involvement: dental trauma, caries, malformations, hypoplasia and corono-radicular grooves.
- Diagnosis in young primary dentition: clinical history, clinical and complementary tests, radiographic assessment and pulp exposure and bleeding.
- Treatment objectives and factors influencing treatment decisions.
- Vital pulp therapies: direct pulp protection, superficial partial pulpotomy (Cvek pulpotomy) and cervical partial biopulpectomy.
- Non-vital pulp therapies: revascularisation and apexification.
- Bioceramic cements: MTA and Biodentine, including properties, composition and clinical indications.
- Clinical case presentations and discussion.

Hands-on training: Direct pulp capping, superficial partial biopulpectomy/Cervical partial biopulpectomy, and apexification using bioceramic materials.

COURSE PROGRAMME:

MODULE 3. STRATIFIED AESTHETIC RESTORATIONS

- Optical phenomena and colour characteristics of enamel and dentin.
- Influence of age on tooth colour.
- Anatomical composite layering techniques.
- Class IV composite restorations.
- Management of hypoplastic stains.
- Diastema closure using composite.
- Selection criteria between direct composite resin reconstruction and inlays
- Factors related to the teeth and the restoration
- Principles of cavity preparation for inlays
- Build-up concept
- Cementation of posterior indirect restoration

Hands-on training: Hands-on Inlays. Laboratory.

MODULE 4. AESTHETIC CROWNS IN PRIMARY TEETH

- Importance of aesthetic restorations in paediatric dentistry.
- Biological principles of zirconia restorations.
- Biocompatibility and periodontal health.
- Tooth preparation principles and crown selection.
- Bioactive cements and cementation.
- Clinical follow-up and review of zirconia crown cases.

Hands-on training: Hands-on aesthetic crowns NuSmile in primary teeth.

MODULE 5. NEURO-OCCLUSAL REHABILITATION (NOR)

- Fundamental principles of Neuro-Occlusal Rehabilitation.
- Development and natural evolution of the stomatognathic system.
- Planas' Law of Minimum Vertical Dimension, Functional Masticatory Angle and Law of Development of the Stomatognathic System.
- Principles of functional diagnosis: functional envelopes, CPP, DCM and parafunctional syndrome.
- Balanced occlusion and Hanau's laws.
- Selective in primary dentition: objectives, indications, technique.
- Kois deprogrammers and differentiation of contacts in centric relation (CR) and maximum intercuspation (MIP).
- Direct tracks for crossbites and Class II and Class III malocclusions.

Hands-on training: Mounting models on a semi-adjustable articulator, practical exercises involving Class I, Class II, Class III and crossbite malocclusions, performance of direct tracks in each mounted case, adjustementadjustment to equilibrium, and selective grinding , adjustment of appliances for correction of Class II in permanent dentition, performance of occlusal adjustments in primary dentition through selective grinding on models mounted on an articulator.

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STUDY IN BARCELONA

Experience the most important formative stage of your life in one of the leading European cities. Barcelona is known for its cultural and economic prominence, providing various professional opportunities.



CAMPUSES OF UIC BARCELONA

The teaching activities of the Faculty of Dentistry are conducted at the Sant Cugat campus, encompassing over 24,000 m² . Our facilities are equipped with the latest state-of-the-art equipment, supporting both theory and practical classes.

THE PURSUIT OF EXCELLENCE IS IN OUR DNA, AND EFFORT AND PERSEVERANCE ARE OUR DRIVERS FOR CHANGE

RANKINGS

Key rankings for the Universitat Internacional de Catalunya.

Find out about all our rankings here

RANKING CYD 1st position nationally in the field of Dentistry	EL MUNDO 2nd position nationally
SHANGHAI RANKING =4th position nationally	QS WORLD UNIVERSITY RANKINGS 2nd position nationally in the field of Dentistry

Universitat Internacional de Catalunya

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