

## Education Track content - Basics

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IADMFR AD HOC EDUCATION COMMITTEE

<https://iadmfr.one/ad-hoc-com.html>

### Program description

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The IADMFR Education track provides participants with general knowledge and understanding of radiology foundations and techniques including radiation physics, radiation protection, intraoral and panoramic radiographies, advanced imaging (with focus on cone-beam CT), anatomy on radiographs, and radiographic interpretation. In a more advanced level and as part of the Education track, students have the opportunity to prepare their cases and actively participate in the radiology grand rounds where some of the most frequent and classic pathologies are discussed.

### Course Goals

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To raise standards across Dentomaxillofacial Radiology (DMFR) field and to build capacity in regions that lack post-graduate programs in this area. Obtaining such acknowledgment from IADMFR is a prestigious achievement that demonstrates competency regarding basic and advanced diagnostics and imaging planning. This certificate is not equivalent to a successful completion of a specialization program in DMFR.

### Specific Goals

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- Students will be able to demonstrate adequate knowledge of radiation safety.
- Students will be able to describe the effect of the x-ray unit settings on 2D and 3D image production and list the major methods of reducing the radiation dose to the patient.
- Students will be able to list and describe the different types of intraoral and extraoral radiographs, its indications, and limitations.
- Students will be able to describe the cone-beam computed tomography, its indications and limitations.
- Students will be able to evaluate the upper respiratory tract
- Students will be able to evaluate the temporomandibular joint region
- Students will be able to demonstrate knowledge of the radiographic appearance of normal anatomy and pathologic changes by describing the radiologic appearances of the more common dental developmental anomalies and pathologies.

**Method of delivery:** live web session, webinars, PowerPoint presentations with voice records and other type e-learnings courses.

**Total didactic hours per topic:** 2

## Recommended materials

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### TEXTBOOKS – Essentials

Whaites E, Drage N. Essentials of Dental Radiography and Radiology. 6th ed. Elsevier: 2021

Mallya SM, Lam EWN. White and Pharoah's Oral radiology - Principles and interpretation. 8th ed. Elsevier: St. Louis, 2019.

Koenig LJ, et al. Diagnostic Imaging – Oral and Maxillofacial. 2nd ed. Elsevier: Philadelphia, 2017.

### TEXTBOOKS – Complementary

Agur AMR, Dalley AF. Grant's Atlas of Anatomy. 13th ed. Lippincott, Williams & Wilkins: Baltimore, 2012.

Neville BW, Damm DD, Allen CM, Chi AC. Oral and maxillofacial pathology. 4th ed. Elsevier: St. Louis, 2016.

Scarfe & Angelopoulos. Eds. Maxillofacial Cone Beam Computed Tomography. Springer Nature 2018. Print ISBN 978-3-319-62059-6 & eBook ISBN 978-3-319-62061-9.

### EDUCATIONAL LINKS – Essentials

<https://iadmfr.one/education/educational-links.html>

<https://iadmfr.one/iadmfrlinks/radiology%20mailing%20lists.html> (**Oradlist**)

### EDUCATIONAL COURSES – Essentials

<https://iadmfr.one/education/iadmfr-courses.html>

<https://iadmfr.one/education/iaea.html>

### EDUCATIONAL COURSES – Complementary

Other webinars

## Assessment of learning

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### Portfolio requirements

This document must contain name of student, name of the mentor, list of required IADMFR Educational track webinars attended, **certificate** of radiation protection course in dental radiology (<https://iadmfr.one/education/iaea.html>), and other list of courses, e-learnings and meetings related to DMFR.

## **To earn the Educational Track certificate, the student must:**

1. Successfully completed part A (10 cases + portfolio)
2. Earn 70% or higher on the multiple-choice exam (part B)
3. Earn 70% or higher on the oral examination (part B)

## **Assignments of a mentor to a student**

A student must select a mentor who will guide during the Education track program. A mentor can guide more than one student. The mentor's role is to assist the student with advice on the Education track course material, other IADMFR and dentomaxillofacial activities and case selection. The mentoring includes advice with selection of 10 cases (one of the program requirements) and approving them. The mentor needs to verify if the cases are well documented considering the technical aspects of imaging and the quality of the case description. Communication between mentors and students will be carried out through a platform that follows the General Data Protection Regulation (DGPR). All patient data must be anonymous. Registration of each party on this platform will be provided by the IADMFR Education Track manager. The student is primarily responsible for selecting the cases and providing the informed consent forms for the cases deposited on the platform.