



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Organizzazione ed Ergonomia della Professione

2223-1-I0301D005-I0301D019M

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#### Aims

Provide the basic tools for the knowledge of the principles of ergonomics, stomatology, operating positions and instruments

#### Contents

Know the notions of anatomy and dental morphology with particular regard to periodontal anatomy; to know the principles of microbiology of the oral cavity, the mechanisms of formation of soft and hard deposits and the mechanisms of periodontal disease associated with plaque;

#### Detailed program

PRINCIPLES OF STOMATOLOGICAL ERGONOMICS: introductory concepts of ergonomics; ergonomics stomatology and the dental team; special and general stomatological ergonomics; concept of operating procedure: preparation, execution and reorganization; principle of the economy of movements; elementary movements; ergonomic approach to the patient; ergonomic support for the patient pedodontics.

OPERATIONAL POSTURE PROTOCOL: visibility of the operative field; type of lighting;

access to the operating field; the work areas; the positions of the body; the positions of the body in relation to the type of patient; relationship between chair and body; the dental environment; types of dental unit; the unit and its parts.

WORKING AREAS AND POSITIONS: clock work positions based on the operating sextant; operator positions; assistant positions; patient positions; operator-assistant position in pediatric dentistry; child parent position; advantages and disadvantages of a correct position.

OPERATIVE POSITIONS: correct work positions; static-dynamic-comfort-zone posture; working position: advantages and disadvantages; sitting position: advantages and disadvantages; working position: direct and indirect vision; exchange of tools; role of hands operator; role of the assistant's hands; Handling of instruments: exchange area, pen handle, palm to palm and thumb; opposite palm and thumb; types of exchange and recovery of the tools; delivery positions; the divarication.

THE INSTRUMENT: recognition of the tools; parts of the instruments; types of tools and their features; principles for the use of tools; preparation of the instruments; available on work tray; ergonomic positioning of the working area; tool kit preparation; the reorganization; disinfection; storage.

INCORRECT POSTURE AND INHERENT PROFESSIONAL PROBLEMS: back pain; problems eye; auditory problems; musculoskeletal diseases with physical agents; the pathology of the rachis from exposure to biomechanical risks; the pathology of the upper limbs from exposure to risks biomechanical; pathology from ionizing and non-ionizing radiations; chemical agents; effects biological drugs from exposure to antineoplastic drugs, anesthetic gases; ethylene oxide, formaldehyde; glutaraldehyde; latex; professional cutaneous pathology.

## **Prerequisites**

## **Teaching form**

Frontal lessons

## **Textbook and teaching resource**

- The dental office operator and assistant, De Fazio P-Tripodi D, ed. Martina
- Elements of practical and professional dental ergonomics, Guastamacchia C, Masson
- Management of dental professional practice, Guastamacchia C, Tosolin F, Masson

## **Semester**

Second semester First year

## **Assessment method**

Written and oral examination

## **Office hours**

Friday 8,30-9,00

## **Sustainable Development Goals**

AFFORDABLE AND CLEAN ENERGY

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