UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Elementi Base di Fotografia Digitale e Presentazione Power Point

2627-2-H4602D041

Aims

The course aims to provide participants with basic knowledge and practical skills for the correct use of photography in dentistry, with particular attention to clinical documentation, patient communication, treatment planning, interdisciplinary discussion and medico-legal aspects.
At the end of the course, students should be able to understand the fundamental principles of digital photography applied to dentistry, identify the main photographic equipment used in clinical practice, perform basic intraoral and extraoral photographic documentation, correctly use mirrors, retractors and lighting systems, understand the potential and limitations of smartphone photography, and appreciate the importance of image standardization in dental records.

Contents

The course covers the essential principles of digital photography in dentistry, including the use of cameras, macro lenses, flashes, intraoral mirrors and lip retractors. The main extraoral and intraoral photographs used in dental practice and dental hygiene will be presented. The course will also address smartphone photography, patient management during image acquisition, image standardization, archiving, clinical communication and the documentary and medico-legal value of dental photography.

Detailed program

The course is divided into a theoretical and a practical part.
The theoretical part will introduce the fundamentals of digital photography: exposure, aperture, shutter speed, ISO sensitivity, depth of field, focusing, white balance, image format and basic

principles of composition. These concepts will be applied to the dental setting, with particular emphasis on the need to obtain sharp, reproducible, comparable and clinically meaningful images. The course will then present the equipment most commonly used in dentistry: DSLR or mirrorless cameras, macro lenses, ring flashes, twin flashes, lighting systems, intraoral mirrors, lip retractors and accessories for smile and facial photography. The operational differences between extraoral photography, intraoral photography, smile photography, arch photography, occlusal photography and close-up detail photography will be explained.
A specific section will be devoted to smartphone photography, highlighting its advantages, limitations, minimum requirements and critical issues related to distortion, lighting, focusing and file management. Practical guidance will be provided for a reasoned clinical use of the smartphone, especially when a dedicated camera is not available.

The course will also address clinical and medico-legal documentation: consent and confidentiality, inclusion of images in dental records, traceability, archiving, pre- and post-treatment comparison, communication with patients, dental laboratories and other healthcare professionals. Particular

attention will be paid to the concept of photography as a clinical document rather than merely an aesthetic image.
The practical part includes guided observation and use of cameras, flashes, intraoral mirrors and lip retractors, with demonstration of the main standard dental views. Frequent errors will be shown and discussed, including blurred images, overexposure, underexposure, poor framing, lack of reproducibility, inadequate lighting and incorrect archiving.

Prerequisites

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Advanced photography skills are not required. A basic knowledge of
oral anatomy and the main clinical procedures in dentistry and dental hygiene is helpful. The course is intended for dental students, dental hygienists, dentists, and oral surgery residents

Teaching form

The course lasts 4 hours and combines theoretical and practical teaching. The theoretical part will be delivered through lectures supported by PowerPoint presentations and discussion of clinical examples. The practical part will include guided observation and use of the main photographic tools employed in dentistry: cameras, macro lenses, flashes, intraoral mirrors and lip retractors. The reasoned use of smartphones for basic clinical documentation will also be demonstrated.

Textbook and teaching resource

PowerPoint presentation, clinical photographic examples, summary diagrams of the main dental photographic views, practical guidelines for intraoral and extraoral photography, and practical demonstration of photographic equipment and dental accessories.

Semester

second

Assessment method

Learning will be assessed through active participation in the practical session, guided discussion of clinical examples and evaluation of the understanding of the basic principles of standardization, correct image acquisition and appropriate use of dental photography. A short final test with multiple-choice questions or discussion of clinical images may be included.

Office hours

By appointment, after contacting the lecturer.

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING