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# TREATMENT OF MALPOSITIONED IMPLANTS IN THE ESTHETIC ZONE

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# Treatment of malpositioned implants in the esthetic zone

by Prof. Carlo Monaco & Prof. Giovanni Zucchelli

Prof. Carlo Monaco and Prof. Giovanni Zucchelli welcome you to this innovative online course dedicated to **prosthetic retreatment techniques in implant malpositioning in the aesthetic area.**

The course aims to provide an in-depth analysis on the results of the twenty-year collaboration between the two speakers, proposing the **techniques and protocols** perfected and describing the **state of the art in pre and post-surgical prosthetic management** in cases correction of fixtures positioned too buccally and / or with non-optimal inclinations.

When the removal of the osseointegrated implant is not an option, the **synergy between the prosthetic and surgical treatment** phases plays a fundamental role both in resolving the imperfections related to the emergence of **unsuitable abutments** and **mispositioned fixtures**, as well as in guaranteeing **predictability and stability** over time to the result.

In addition to the 3 lectures by Prof. Carlo Monaco, the course includes a case of combined surgical-prosthetic treatment **commented on in collaboration with Prof. Giovanni Zucchelli**, aimed at highlighting the synergies between the different treatment phases.

**<u>Thanks to this course the learner will deepen:</u>**

- The **decision-making criteria that guide prosthetic retreatment**, with particular reference to the analysis of risk factors;
- the **pre and post-surgical operative protocol** for soft tissue management, how to **modulate the shape and conditioning** of the tissues and manage the **provisional restorations**;
- how to **manage the most extreme cases** thanks to the **Welded Angulated Abutment technique** developed with the team of the School of Bologna, exploiting digital technologies, and ensuring the success of the treatment.

**Who the course is for:**
Specialists in prosthetics and periodontology of all levels of experience, with particular utility for professionals sensitive to innovation and included in multi-specialist teams.

**The course includes:**

- 3 lectures by Prof. Carlo Monaco
- 1 video case of combined treatment carried out and commented on with Prof. Giovanni Zucchelli

**List of contents:**

Lecture 1

**Decision criteria**

Author: Prof. Carlo Monaco

In this first lesson, Prof. Carlo Monaco describes the decision-making criteria that guide the prosthetic retreatment of improperly positioned implants, with reference to the analysis of the risk factors that guide the choice of treatment. The contents that are offered to the learner concern:

- Evaluation of implant biological aspects
- Evaluation of the prosthetic aspects
- Soft tissue management before and after tissue augmentation surgery
- Modulation of thickness and shape of the peri-implant tissues by means of provisional artifacts
- Choice of analog or digital workflow.

Lecture 2

**Soft tissue management**

Author: Prof. Carlo Monaco

In this second video lesson, Prof. Carlo Monaco illustrates the pre and post-surguery soft tissue management protocol. Through the critical description of a detailed clinical case, the following aspects are discussed:

- considerations on the immediate reduction of the abutment volumes
- timing of pre-surgical treatment
- management of the volumes of the provisional and timing
- tissue reconditioning by means of provisional
- fabrication of the final abutment
- tips on managing cemented crowns and removing excess cement.

Lecture 3

**Abutment design and prosthetic procedures**

Author: Prof. Carlo Monaco

The third lesson of the course on prosthetic retreatment in implant malpositioning is dedicated to the design, optimization and rationalization of the abutment.

The discussion allows the author to describe the concept of the Welded Angulated Abutment, an innovative technique for the correction of extreme cases with severe buccal displacement. The contents of the lesson concern:

- digital technologies in the improvement of prosthetic procedures and in the maintenance / correction of malpositioned fixtures
- evaluation of the abutment angulation and its relationship with the implant angulation
- wax-up planning
- identification of the future gingival margin
- timing of use of the definitive abutment in relation to the entire treatment plan
- “Welded Angulated Abutment” technique for “extreme” corrections and its use in various cases
- indications regarding the precautions for hygienic maintenance.

Lecture 4

**Combined treatment of peri-implant soft tissue dehiscence and altered passive eruption of the adjacent elements**

Author: Prof. Giovanni Zucchelli, Prof. Carlo Monaco

This "four-handed" video commentary, conducted by Prof. Carlo Monaco and Giovanni Zucchelli, shows a case of surgical-prosthetic resolution of implant malposition on element 11. The analysis carried out by the 2 speakers allows to deepen the viewpoints of the periodontist and of the prosthodontist, and highlight the synergies between the 2 visions that allow to pursue a result of absolute excellence.



**Prof. Carlo Monaco**

Graduated in 1992 in Dentistry and Dental Prosthetics at the University of Bologna, Prof. Carlo Monaco attended the Conservative Department of the Dental Clinic of Bologna directed by Prof. G. Dondi dall'Orologio from 1992 to 1997 he. Between 1995 and 1997 he held a scholarship on composite resins and their correlation with adhesive systems. Since 1998 he has been attending, as a fellow, the Oral and Maxillofacial Prosthesis department of the Department of Odontostomatological Sciences of the University of Bologna directed by prof. Scotti where he mainly deals with indirect aesthetic restorations and fixed prostheses. In the years 2002-04 he held the position of Adjunct Professor of Dental Prosthesis at the University of Bologna. In 2002 he attended the karyology department of the University of Geneva directed by prof. I. Krejci with whom he carries out research on adhesive bridges. Since 2003 he has been Visiting Research at the Department of Karyology of the University of Geneva. In 2003 he obtained the Master in Science and in 2005 the PhD in dental materials at the University of Siena with Prof. M. Ferrari. In 2005 and 2008 he won the first prize for the **best prosthetic research** awarded by the Italian Academy of Prosthetics (AIOP). In 2006 he obtained 2 **first prizes at the CONSEURO international conference** for the best research in the dental materials session and for the best poster of all sessions. Since 2006 he has been a **Researcher at the University of Bologna**. Speaker at national and international conferences, he has published scientific articles concerning the applications of composite and ceramic materials in the dental field. In 2017 he obtained the National qualification. Prof. Carlo Monaco is the **director of the Master in Prosthetics and Implant Prosthetics** with advanced technologies.

**Prof. Giovanni Zucchelli**

Prof. Giovanni Zucchelli, DDS, PHD graduated in 1988 from the University of Bologna, Italy with a degree in dentistry. He is **Professor of Periodontology and Implantology** at the University of Bologna, Italy since 2000.

Prof. Giovanni Zucchelli received **many awards for clinical research in periodontology** in Europe and the United States. **Innovator of several soft tissue plastic surgical techniques**, Prof Giovanni Zucchelli is also author of more than 100 publications in Pubmed.

He was speaker at major international conferences on periodontology and has taught theoretical and practical (with live surgery) courses in numerous countries. Prof. Zucchelli is the author of the book titled, 'Mucogingival Esthetic Surgery' best seller from Quintessence Publishing which is published in 10 different languages and co-author of two illustrated textbooks on periodontal plastic surgery (Ed. Martina) and of the chapter "Mucogingival Therapy-Periodontal Plastic Surgery" in Clinical Periodontology and Implant Dentistry (Lindhe J, Lang NP, Karring T [eds], Wiley-Blackwell).


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