The esthetic and functional rehabilitation

3-series Master program in fixed prosthodontics

2019
The application of a tried and tested system, experimented for 30 years, represents, especially for complex rehabilitations, an indispensable means of achieving optimal final results, from the esthetic as well as biological and functional viewpoints. The prosthetic treatment plan must allow an ideal integration of esthetics, biological and functional requirements on natural teeth and on implants. The esthetic analysis, thanks to a simple and systematic approach to assessing facial, dento-labial, phonetic, dental and gingival factors, will allow to optimize the prosthetic treatment plan.

To this end, after filling in the esthetic checklist, the laboratory checklist is employed, a device as functional as it is indispensable for communicating with the dental technician in an exhaustive and effective manner. The scrupulous compilation of this checklist will allow the clinician to specify clearly any request and modification, in order to create an ideal diagnostic wax-up. Containing all the variations necessary for optimizing the results of the rehabilitation, the laboratory checklist will consequently ensure the development of a provisional restoration that can be fitted into the mouth in the same position as the technician intended it in the articulator. Biofunctional provisionals serve as blueprint for the definite prosthesis providing all information about shape, position, emergence profiles, arrangement of teeth and non-destructive occlusion especially in challenging clinical situations. Material selection with the dental ceramist is fundamental in management of complex rehabilitation cases with porcelain crowns, bridges, implant abutments and veneers. The use of metal-free ceramic materials allows to achieve excellent esthetic results in the anterior area for crowns and veneers fabrication. Nowadays an innovative operative protocol allows to face highly compromised clinical situations, with a minimally invasive prosthetic procedure (MIPP) that guarantees an excellent, long lasting esthetic result and a better acceptance of the treatment by the patient. Clinical and technical suggestions for obtaining esthetic and durable results will be supplied.
The ACE Institute, Advanced Continuing Education Centre, was created in 2000 by Mauro Fradeani with the aim of expanding clinical knowledge and sharing professional skills and scientific update in esthetic dentistry. The course facility is located in a 17th century building, in the historical center of Pesaro, Italy and it can accommodate up to 30 participants. A professional Full-HD audio-visual equipment allows easy connection with the conference room for an optimal interface with the course participants during live-treatments. The second floor offers 14 lab stations for hands-on courses. Free wi-fi connection is available in all the rooms. Simultaneous translation set-up can be organized upon request.
Dr. Mauro Fradeani

After graduating in medicine and surgery in 1979, Mauro Fradeani completed a specialization in dentistry at the University of Ancona, Italy in 1983. Past President of EAED European Academy of Esthetic Dentistry (biennial 2003/2004) and Past President of AIOP Accademia Italiana di Odontoiatria Protesica (biennial 1999/2000), he has served as Visiting Associate Professor in Prosthetics at Louisiana State University New Orleans (USA) from 1999 until 2008. Active Member of The American Academy of Esthetic Dentistry, he maintains membership in The American Academy of Fixed Prosthodontics. He is Founder and Director of ACE Institute, Advanced Continuing Education center in Pesaro, Italy. He is Founder and Director of Fradeani Education, an educational project developed together with a group of expert speakers with the goal to promote worldwide an Italian model of excellence in dentistry. Associate Editor of The International Journal of Esthetic Dentistry (EJED), Member of the Editorial Board of Practical Periodontics & Aesthetic Dentistry (PPAD) and of the Journal of Esthetic and Restorative Dentistry (JERD), he is the author of the two-volume series Esthetic Rehabilitation in Fixed Prosthodontics translated in 11 languages (Quintessence International, 2004,2008). He runs a private practice limited solely to prosthetics on natural dentition and implants in Pesaro (Italy).

Dr. Leonardo Bacherini

He received his dental technology certificate in 1988 at Istituto Tecnico Leonardo da Vinci in Florence, and after graduating in Dentistry at the University of Florence in 1995, he followed several annual and biennial postgraduate programs with highly qualified Italian lecturers such as Dr. M. De Sanctis, Dr. M. Fradeani, Dr. M. Molina and Dr. M. Simion.

He has been a member of the Nobel Biocare Mentor Project performing live surgery courses, he lectures nationally and internationally on prosthodontics and implants and he has been appointed Master Tutor of the ACE Institute, Dr. Mauro Fradeani’s Educational Center.

Member for more than ten years of the Italian Society of Prosthetic Dentistry, he is an Active Member of the Italian Academy of Esthetic Dentistry. He is the author of scientific articles published in Italian and international magazines and he focuses his professional activity mainly on Prosthodontics and Implants in his private practice in Florence.

Other speakers:
- Dr. Tiziano BOMBARDELLI
- Dr. Stefano GORI
- Dr. Roberto TURRINI
3-Series Master program in fixed prosthodontics

**The esthetic and functional rehabilitation**

**MODULE 1**  19 - 22 June  ________________  pag 6
a comprehensive treatment plan for extensive rehabilitations: esthetic and functional evaluation

**MODULE 2**  24 - 27 July  ________________  pag 8
esthetic, functional and biologic integration of the prosthetic rehabilitation on natural dentition and implants

**MODULE 3**  11 - 14 September  ____________  pag 10
ceramic material selection from single restoration to full-mouth rehabilitation
A comprehensive treatment plan for extensive rehabilitations: esthetic and functional evaluation

The ideal treatment plan must be drawn up following careful esthetic, functional, and structural analysis and with the aid of radiographic examinations and stone casts mounted on the articulator by means of correct use of the facebow.

The variations necessary for optimizing the case must be transferred to the technician by carefully filling in the laboratory checklist, to create the diagnostic wax-up that will have to incorporate all of the modifications requested by the clinician.

Fabricating the provisional restoration by the MIT technique, aside from ensuring a correct fit in the oral cavity, will give the clinician the opportunity to evaluate the effectiveness and the validity of the variations made, making it possible to achieve adequate esthetic and functional integration.
1 ESTHETIC ANALYSIS

- Facial analysis
  - Frontal view: interpupillary line, commissural line, midline related to the horizon
  - Lateral view: profile, nasolabial angle, e-line

- Dentalabial analysis
  - Tooth exposure at rest, incisal edge, smile line, smile width, labial corridor, interincisal vs facial midline, occlusal plane vs horizon

- Phonetic analysis
  - Pronunciation of M-F-S-E sounds
  - Incisal edge position, tooth length, vertical dimension

- Direct and indirect mock-up
  - Reversible additive technique
  - Treatment preview for the patient
  - Diagnostic confirmation for the clinician

- Dental analysis
  - Key factors for the treatment plan and for anterior restorations: how to detect and overcome possible obstacles for the achievement of optimal esthetics
  - Tooth shape, proportions, position, arrangement and colour
  - Transition line angles: how to give the impression of length and width variation

- Gingival analysis
  - Gingival margin outline
  - Parallelism and symmetry
  - Gingival zenith
  - Interdental papillae

- Esthetic checklist
  - Indispensable tool for the clinician
  - Simple, predictable and efficient method
  - Systematic approach to collect all the necessary data

2 FUNCTIONAL ANALYSIS

- Occlusal planes
- Occlusal relationships (MI – CO – CR)
- Vertical dimension
- Anterior guidance
- Parafunctional activities
- Temporomandibular Joint Disorders (TMJ): anatomy and physiology of TMJ, clinical examination, masticatory muscles disorders and articular disorders, diagnosis and treatment, the bites, indications and clinical management
- Occlusal trauma
- Occlusal adjustment
- Facebow taking
- Occlusal records
- Stone models analysis
- Mounting in the articulator
- Adjusting the articulator

3 LIVE DEMONSTRATION BY DR. FRADEANI

- Working postures
- Centric relation records
- Protrusive records
- Facebow taking
- Compilation of the esthetic checklist
- Compilation of the laboratory chart
- A systematic approach to the esthetic analysis: data collection and formulation of an ideal treatment plan by using digital systems

4 HANDS-ON TRAINING BY THE COURSE PARTICIPANTS

- Occlusal records and facebow records on patient
- Centric relation records
- Protrusive records
- Facebow taking
- Data collection and formulation of an ideal treatment plan by using digital systems

NEW TRENDS

- The use of digital systems for an ideal treatment planning

DIAGNOSTIC WAX-UP

- Occlusal adjustments of stone casts
- Additive diagnostic wax-up
- Technical and clinical suggestions
- Wax-up as prototype for provisional

THEORETICAL SESSION

HANDS-ON TRAINING

LIVE DEMONSTRATION
A perfect state of health of gingival tissues is a pre-requisite condition before taking the final impressions as this will allow the clinician to better detect the prosthetic margins. The soft tissues conditioning around natural abutments and implants represents a challenging procedure for the clinician who has to achieve a perfect gingival outline for esthetic purposes as well as an appropriate biological integration of the prosthetic restoration respecting the soft tissues health. The final impressions, the impressions of the provisional restorations, all the occlusal registrations and facebow record will enable the technician to finalize the prosthetic rehabilitation correctly. Cross mounting the casts, creating the silicone indices and the preventive simulation (PS) of the definitive result will make it possible to faithfully replicate all of the characteristics of the functionalized provisional restoration, regardless of the type of restorative material selected.
1 CREATING AND INTEGRATING THE PROVISIONAL RESTORATION

Provisional fabrication and integration
- Requisites and materials
- Modified indirect technique (MIT)
- How to idealize the insertion of the shell before relining
- Direct technique
- Indirect technique
- Fitting, insertion
- Reinforced provisional
- Relining, re-margining and finishing
- Coloring, glazing and cementation

Centering device
- Facilitated insertion guide of the acrylic shell before provisional relining

Anterior rehabilitation
- PSM fabrication technique
- Positioning in the oral cavity

1 arch and 2 arches rehabilitation
- PSC fabrication technique
- Positioning in the oral cavity

The provisional as prototype for the final restoration

TOOTH PREPARATION

- Abutments selection
- Bio-mechanic principles of tooth preparation
- Necessary instruments and burs selection
- Instruments selection and use
- Esthetic tooth preparation in the anterior area
- Step-by-step procedures of different tooth preparation techniques
- Light chamfer, deep chamfer, 50-degree shoulder, 135-degree shoulder, bevel, knife edge
- Differentiated tooth preparation
- Margins: supragingival, juxtagingival, intrasulcular, subgingival
- Minimally invasive tooth preparation (MIPP): new trends
- Maintenance of periodontal tissue health during all the preparation steps

IMPRESSION MATERIALS AND TECHNIQUES

- Impression techniques on teeth and on pontic areas
- Treatment of edentulous areas
- Gingival displacement
- Use of retraction cords or alternative techniques
- Management of soft tissues for intrasulcular preparations
- Step-by-step fabrication of a customized tray
- Selection of the impression materials: Alginites, polysulfides, Polyvinyl, Siloxanes, Polyethers
- Taking the impression with digital scanners - traditional vs digital techniques

2 HANDS-ON TRAINING

Tooth preparation on dental models by the participants
- Clinical and practical evaluation of the working posture
- Direct and indirect view during the preparation steps
- Correction of the preparation works fabricated
- Movies showing all the step-by-step procedures

LIVE DEMONSTRATION ON PATIENT BY DR. FRADEANI

- Final tooth preparation
- Final impressions
- Provisional relining, refining, finishing
- Colour detection and transmission to the dental lab
- Discussion

3 MANAGEMENT OF SOFT TISSUES ON NATURAL DENTITION AND IMPLANTS

Esthetic and biological integration on natural dentition
- Pre-prosthetic surgery
  - Pre-prosthetic periodontal surgery for the esthetic optimization in the anterior sector
  - Minimally invasive surgical procedures: gingivectomy, attachment removal, buccal resective surgery
- Periodontal surgery
  - Furcation treatments: etiology, pathogenesis, differential diagnosis and therapeutic options
  - Preservative, resective, reconstructive therapies: indications and techniques

Esthetic and biological integration on implants
- Implant placement: immediate, delayed, early. Advantages and disadvantages
- Importance of the integrity of the cortical buccal bone
- Soft tissues grafts: how, when and why
- Delayed loading, immediate loading
- Impression techniques and fabrication of provisional restorations
- Tissue conditioning with the provisional in the anterior area
- Alteration of the gingival levels and papilla through the modification of the provisional contour
- Titanium and ceramic abutments
- Replica of the transmucosal path
- Use of “gingival” pink ceramic
- Screwed and cemented prosthesis: advantages and disadvantages
- Single implant in the anterior sector
- Fixed rehabilitation on implants: step-by-step demonstration of clinical and laboratory phases
- 3-D planning – update in implantology

FROM THE PROVISIONAL RESTORATION TO THE DEFINITIVE PROSTHESIS: DATA TRANSFER

- Verifying the integration of the provisional
- Impression of the provisional restoration
- Protrusive – interocclusal records – facebow
- Final impressions
- Visualizing the finishing line
- Occlusal registrations – anterior rehabilitations
- Occlusal registrations – rehabilitation of 1 arch
- Occlusal registrations – rehabilitation of 2 arches
- Recording and transmitting the colour

PRODUCING AND FINALIZING THE PROSTHETIC REHABILITATION

- Master casts (MC)
- Secondary casts (SC)
- Cross-mounting technique – anterior rehabilitation
- Cross-mounting technique – single arch rehabilitation
- Cross-mounting technique – two arches rehabilitation
- Customized anterior guidance
- Silicone indices
- Substructure try-in
- Preventive simulation (PS)
- Delivering the definitive restoration
- The use of digital techniques in prosthetic rehabilitation
The use of all-ceramic partial restorations represents a valid alternative to complete crown restorations. Nowadays, a new clinical approach based on an innovative Minimally Invasive Prosthetic Procedure (MIPP), allows the maximum preservation of healthy tooth structure thus guaranteeing tooth vitality and a higher overall resistance of the restoration also thanks to the undeniable advantages offered by the adhesive cementation technique.

The availability of a wide range of ceramic materials (glass ceramic, alumina and zirconia) permits the achievement of an excellent, long lasting esthetic result. Indications, advantages and disadvantages of every type of ceramic material available in the market will be illustrated and discussed during this Module as well as their use for the fabrication of bridges, crowns, veneers, full veneers, buccal and occlusal veneers, table tops and implant abutments. Long term data will be provided.
1 PORCELAIN FUSED TO METAL
   › Myth or reality?
   › When is it possible to use PFM today?
   › When is it advisable to use PFM today?

   ALL-CERAMICS
   › The development of all-ceramics during the last decade

   CERAMIC CROWNS
   › Indications, possibilities and limits
   › Clinical parameters for long-term success
   › Glass-ceramics: Empress, e.max
   › Alumina ceramics
   › Zirconia-based ceramics
   › 5 rules to avoid fractures
   › Cementation techniques: conventional cements, adhesive cements
   › 30-year clinical follow-up with different ceramic materials

   MIPP - MINIMALLY INVASIVE PROSTHETIC PROCEDURE
   › New trends in restorative dentistry
   › Procedure, principles and advantages

   PARTIAL RESTORATIONS FOR POSTERIORS
   › Onlays - overlays
   › Table tops
   › Full veneers
   › Buccal occlusal veneers

   ADHESIVE CEMENTATION
   › Try-in on patient with different translucency and coloured pastes
   › Tooth surface and ceramic conditioning
   › Correct use of dentine adhesive
   › Bonding, refining and polishing

   CERAMIC BRIDGES
   › Ceramic bridges: new developments
     • Zirconia, alumina and glass-ceramic bridges: reality or illusion?
     • Possibilities and limits

   CERAMIC ABUTMENTS ON IMPLANTS
   › Reliability
   › When should we use titanium abutments?

2 CERAMIC VENEERS
   › The use of veneers to optimize esthetics and function
   › Direct mock-up, indirect mock-up: diagnostic use
   › Tooth preparation
     • Tooth preparation design variability in accordance with the clinical case
     • Tooth preparations: incisal shoulder, overlapped
     • Maintenance of enamel or deepening in dentin
     • Supragingival and intrasulcular tooth preparation
     • Step-by-step procedure

   Provisional restorations
   › Fabrication techniques, refining, refining and polishing
   › How to maintain the provisional restorations in site until final bonding
   › Spot etching technique
   › Use of "natural Die material" posts
   › Step-by-step preparation
   › Step-by-step cementation

   CERAMIC MATERIALS
   › Feldspathic porcelain
   › Glass ceramics
   › Alumina ceramic
   › Colour evaluation of the abutment and appropriate selection of ceramic ingots
   › Contemporaneous finalization of crown and veneer in the anterior sector on the same patient

3 HANDS-ON TRAINING BY THE COURSE PARTICIPANTS
   Step-by-step tooth preparation for veneers and crowns on dental models
   › Veneers:
     • Buccal preparation
     • Incisal shoulder
     • Palatal extension
     • Interproximal preparation
   › Crowns:
     • Traditional preparations
     • Preparations for full veneers
     • Evaluation of marginal fit of the restorations
     • Try-in paste procedure

   Full HD movies
   › Step-by-step tooth preparations
   › Provisionals
   › Final impressions
   › Provisional fitting
   › Provisional relining and finishing
   › Bonding procedures

4 LIVE DEMONSTRATION ON PATIENT BY DR. FRADEANI
   Full HD movies
   › Step-by-step tooth preparations
   › Final impressions
   › Provisional and final tooth impressions

   Finalization of the prosthetic work
   › Organization of the staff
   › Preparation of all the necessary materials and instruments for a fast and efficient finalization

   Biscuit try-in
   › Interdental contact areas
   › Colour evaluation
   › Occlusal check

   Bonding procedures
   › Use of the dental dam?
   › Tooth surface management
   › Restoration surface management
Thank you for sending copy of bank transfer together with your registration form.

**Complete 3-series program - Modules 1+2+3**
€ 2,000.00 initial deposit payable upon registration
€ 5,800.00 1st installment payable within April 26, 2019
€ 2,100.00 balance payable within July 12, 2019

**Single program - Modules 1 or 2 or 3**
€ 1,000.00 initial deposit payable upon registration
€ 2,900.00 balance payable
- within April 26, 2019 for Module 1
- within May 17, 2019 for Module 2
- within July 13, 2019 for Module 3

**Bank transfer**
Bank: Banca Intesa San Paolo
Bank address: Corso XI Settembre, 94
61121 Pesaro (PU) - ITALY
Account holder: Mauro Fradeani Education Srl
Account number: 00016870
IBAN: IT69 0030 6913 3041 0000 0016 870
Swift / BIC Code: BCITITMM

The registration is considered complete when the deposit payment is received at Mauro Fradeani Education Srl by bank transfer or credit card.

Cancellation policy: if, for any major reason, the lecturer will not be able to hold the course, the full registration fee will be refunded.

Complete 3-series program: The initial deposit will be refunded only if cancellation is received in writing within March 16, 2019. A € 200,00 fee will be withheld for refund processing. After that date the initial deposit will not be refunded. The first instalment will be refunded only if cancellation is received within May 17, 2019. A € 200,00 fee will be withheld for refund processing. After that date the first instalment will not be refunded. The balance payment will be partially refunded (€ 2’100,00) only if cancellation is received in writing within August 30th, 2018. After that date the balance will not be refunded.

Single course: The initial deposit will be refunded only if cancellation is received in writing 30 days before the deadline of the balance payment. A € 200,00 fee will be withheld for refund processing. After that date the initial deposit will not be refunded. The balance payment will be refunded only if cancellation is received in writing within 60 days before the course starts. A € 200,00 fee will be withheld for refund processing. After that date the initial deposit will not be refunded.

**Course package includes**
- Full day courses
- Personal interaction with the lecturer
- 2 coffee breaks per day
- 4 lunches per Module in typical restaurants at a walking distance from the ACE Institute
- Final dinner in Module 3 for all the course participants and his / her accompanying person
Registration form

3-series Master program in fixed prosthodontics
The esthetic and functional rehabilitation

- COMPLETE 3-SERIES PROGRAM
  € 9,900.00

- SINGLE COURSE
  € 3,900.00
  - Module 1
  - Module 2
  - Module 3

Name and Surname

Office Address

Zip/Postal Code

City

Country

VAT nr. or Tax ID

Place of birth

Date of birth

Tel.

Cell.

email

Speciality

- Periodontist
- Endodontist
- Prosthodontist
- Oral Surgeon
- Orthodontist
- Technician
- General practitioner
- Other

How did you hear about us?

ex. Newsletter, Social Network, Search engines, Conferences, Colleagues, Magazines / Books, Word of mouth...

By signing this form I confirm that I have read and agreed to the term and conditions of Fradeani Education Srl

Date

Signature
Pesaro is a popular seaside resort on Italy’s Adriatic Coast with a population of around 100,000. The ACE Institute is located in the historic centre of the city which is only a few minutes’ walk from the seafront.

The following recommended hotels are located on the seashore and at a walking distance from the ACE Institute. When making your reservation please make sure you refer to Fradeani Education so to get a corporate rate.

**HOTEL EXCELSIOR ★★★★★
Lungomare Nazario Sauro 30/34
61121 Pesaro (PU)
tel. +39 0721 630011
info@excelsiorpesaro.it
www.excelsiorpesaro.it
distance 900 mt.**

**HOTEL VITTORIA ★★★★★
Piazzale della Libertà 2
61121 Pesaro (PU)
tel. +39 0721 34343
vittoria@viphotels.it -
www.viphotels.it
distance 650 mt.**

**MERCURE HOTEL CRUISER ★★★★
Viale Trieste 281
61121 Pesaro (PU)
tel. +39 0721 388100
ha746@accor.com
www.cruiser.it
distance 600 mt.**

**HOTEL NAUTILUS ★★★★
Viale Trieste 26/30
61121 Pesaro (PU)
tel. +39 0721 389001
info.nautilus@edenhotels.it
www.nautiluspesaro.edenhotels.it
distance 950 mt.**

For any alternative hotel solution:
A.P.A. HOTELS srl - www.apahotel.it - email: info@apahotel.it - Tel: +39 (0)721 67959

Please be aware that these hotels may offer special rates through online booking and sometimes these rates could be even more convenient than the corporate ones. These offers are usually reserved to a particular period of time or to a specific room typology, but they also apply a different cancellation policy. Our suggestion is to check both possibilities.

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**How to reach us**

Pesaro is well connected by train with the following international airports: Ancona (45 minutes), Bologna (1h30), Milano (3h30 hours) and Roma (3h30). Timetables and train connections are available on www.trenitalia.com.

If you are planning to rent a car, the distance from major airports to Pesaro is the following: from Ancona: 55 kms, from Bologna: 135 kms, from Milano: 350 kms, from Roma: 370 kms.

Should you wish to have a transfer organized from/to the airport by car, we recommend “Chiuselli” a very reliable local company in Pesaro with English speaking drivers. Contact information or cost estimate available on their website www.chiuselli.com. In case you prefer to take a taxi you can make a reservation on www.taxipesaro.it.
I very much enjoyed this course, which has provided me with comprehensive and extensive information. It is always very nice to come to Italy, Dr. Fradeani has been a very good host and we have really had a good time in Pesaro.

Jonatan Beley, France

This course has been my dream since I was 20 years old. It is so fantastic, so well organized, I have the chance to study step-by-step procedures which is what I really need in my practice. I am sure that at the end of the course the level and quality of my work will be much higher.

Juliana Badreddin, Russia