



## DR. ALESSANDRO CUCCHI

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**Nel 2009 consegue la laurea specialistica in Odontoiatria e Protesi Dentaria con lode ed encomio presso l'Università di Verona; nel 2012 consegue la specializzazione in Chirurgia Odontostomatologica presso l'Università di Milano; e nel 2016 consegue prima il dottorato di ricerca (PhD) in Scienze Chirurgiche -Problematiche ricostruttive in chirurgia maxillo-facciale presso l'Università di Bologna e poi il perfezionamento in chirurgia parodontale mucogengivale e rigenerativa presso l'Università di Milano. Nel 2020, ha conseguito il master di II livello in Implantologia Zigomatica presso l'Università di Pisa. Ha pubblicato numerosi articoli scientifici sulle più importanti riviste internazionali, come COIR, CIDRR, IJOMI, IJOI e IPRD, riguardanti la chirurgia implantare e soprattutto la chirurgia ricostruttiva; inoltre, è relatore ad eventi scientifici nazionali e internazionali, sempre nell'ambito della dell'implantologia e della chirurgia ossea ricostruttiva. Attualmente, sta conducendo ricerche sulle tecnologie innovative e digitali nella Rigenerazione Ossea Guidata (GBR). È socio fondatore della GBR Academy con cui organizza corsi in Italia e all'estero; ed è socio attivo della Digital Dentistry Society (DDS) e dell'Italian Academy of Osseointegration (IAO).**

## **CURRICULUM ACCADEMICO**

26 Oct. 2009 - Università di Verona  
Laurea specialistica in Odontoiatria e protesi dentaria

07 Nov. 2012 – Università di Milano  
Specializzazione in chirurgia odontostomatologica

01 Jul. 2016 – Università di Bologna  
Dottorato di ricerca in Scienze chirurgiche

17 Sept. 2016 – Università di Milano  
Perfezionamento in chirurgia plastica e rigenerativa parodontale

13 Dec. 2020 – Università di Pisa  
Master in implantologia zigomatica

[ a.a. 2023-2024 ] – Università Federico II di Napoli  
Master in Trattamento dell'ansia, del dolore, e delle emergenze: approccio multidisciplinare

## **ARGOMENTI TRATTATI**

"Aumenti orizzontali e verticali di cresta alveolare: tecniche a confronto"

"Rigenerazione ossea guidata (GBR) mediante approccio digitale: PTFE vs. titanio"

"Griglie in titanio 3D customizzate: lo stato dell'arte"

"Digitalizzazione in chirurgia implantare: dai difetti singoli a quelli estesi"

"Chirurgia computer-guidata: dalla programmazione alla chirurgia"

"Il trattamento dei mascellari atrofici: ricostruzione ossea vs. implantologia zigomatica"

## ESPERIENZA PROFESSIONALE

Il dr. Alessandro Cucchi dedica la sua vita professionale alla risoluzione dei casi più complessi e più gravi, attraverso un approccio "innovativo", che si basa sulle ultime tecnologie digitali e che integra le tecniche chirurgiche di 3 diverse branche: parodontologia, implantologia, e chirurgia maxillo-facciale.

Primariamente, si occupa di trattare mediante la chirurgia ricostruttiva tutti i tipi di atrofie e difetti dell'osso alveolare, sia quelli orizzontali che verticali, sia quelli localizzati che estesi a tutto il mascellare o la mandibola. Tutte le tecniche di chirurgia ricostruttiva si basano sui principi della "Rigenerazione Ossea Guidata" (GBR), poiché è la tecnica più efficiente, adattabile e prevedibile. Consente di affrontare tutti i tipi di atrofie, anche quelle più severe, con interventi in anestesia locale, sfruttando semplici prelievi ossei intraorali, biomateriali e barriere personalizzate. La possibilità di "personalizzazione", grazie a CAD/CAM, laser-sinterizzazione 3D, e software dedicati, consente la minima invasività, riducendo il tempo di trattamento e il disagio, lo stress e il dolore dei pazienti, oltre che ridurre il rischio di errori e complicanze, aumentando così le percentuali di successo.

In implantologia, adotta spesso protocolli di chirurgia computer-guidata per aumentare l'accuratezza del posizionamento degli impianti, ridurre la morbilità dei pazienti, semplificare il trattamento e consentire il carico immediato nello stesso giorno dell'intervento. L'esperienza fatta durante numerosi interventi gli permette di adottare per ciascun caso clinico il protocollo più adeguato (dime per chirurgia flapless, doppie dime per impianti in siti post-estrattivi, dime a supporto osseo per siti rigenerati, dime a supporto mucoso per edentulie totali,...) e di sfruttare la pianificazione virtuale per eseguire carico immediato entro 1 ora dalla chirurgia implantare.

In parodontologia, sfrutta tecniche di chirurgia muco-gengivale e di chirurgia rigenerativa diverse tra loro, a seconda del caso da trattare (approccio trapezoidale, triangolare, a busta, a tunnel, o combinati), al fine di ottenere il migliore recupero funzionale e/o estetico degli elementi dentari. Anche a livello peri-implantare, la gestione di tecniche basate su innesti connettivali e/o gengivali è fondamentale per la prognosi a lungo termine degli impianti stessi. In caso di gravi alterazioni della mucosa alveolare e delle inserzioni muscolari dopo GBR, la gestione dei tessuti molli è eseguita solitamente mediante matrici in collagene e innesti gengivali a "strip", riducendo significativamente l'invasività e il dolore del paziente.

Nei pazienti con età avanzata e/o gravemente compromessi, è possibile scegliere trattamenti semplificati per evitare procedure invasive e complesse: questi includono impianti non convenzionali, come quelli zigomatici, pterigoidei, nasali e/o ultracorti, riducendo il tempo di trattamento e la morbilità dei pazienti.

Inoltre, ha sviluppato diversi approcci basati su mini-viti e/o "corticotomie" (osteotomie corticali multiple) per affrontare i casi più complessi e difficili dei pazienti ortodontici. Questo approccio è ampiamente diffuso perché riduce i tempi di trattamento ortodontico, consente risultati migliori e più stabili, e può evitare procedure chirurgiche più invasive, come l'ortodonzia mascellare e/o mandibolare.

Infine, il dr. Alessandro Cucchi ha recentemente introdotto un nuovo approccio chirurgico basato sulla bolla di grasso del Bichat, per aumentare la percentuale di successo degli interventi di rigenerazione ossea verticale nel mascellare superiore, riducendo il rischio di complicazioni biologiche e migliorandone la rigenerazione ossea. La bolla di Bichat è un'importante risorsa che può essere utilizzata oltre che in chirurgia rigenerativa nella chirurgia del seno mascellare (es. comunicazioni oro-sinusalì) e nella chirurgia delle MRONJ (osteonecrosi farmaco-correlate).

## PUBBLICAZIONI SCIENTIFICHE (articoli su pubmed.gov)

**Cucchi A**, Maiani F, Franceschi D, Sassano M, Urban I, Fiorino A, Corinaldesi G. The influence of vertical ridge augmentation techniques on peri-implant bone loss: a systematic review and meta-analysis. *Clin Implant Dent Relat Res*. 2023 [In press].

**Cucchi A**, Bettini S, Ghensi P, Fiorino A, Corinaldesi G. Vertical ridge augmentation with Ti-reinforced dense polytetrafluoroethylene (d-PTFE) membranes or Ti-meshes and collagen membranes: 3-year results of a randomized clinical trial. *Clin Implant Dent Relat Res*. 2023 Jan 16. doi: 10.1111/cid.13173.

**Cucchi A**, Randellini E, Bettini S, Corinaldesi G. Effectiveness Of Bichat's Buccal Fat Pad (BFP) Technique For Vertical Ridge Augmentation In The Maxilla. *Int J Periodontics Restorative Dent*. 2022 Dec 13. doi: 10.11607/prd.5437.

**Cucchi A**, Bettini S, Corinaldesi G. A novel technique for digitalisation and customisation of reinforced polytetrafluoroethylene meshes: Preliminary results of a clinical trial. *Int J Oral Implantol (Berl)*. 2022 May 13;15(2):129-146.

**Cucchi A**, Vignudelli E, Franceschi D, Randellini E, Lizio G, Fiorino A, Corinaldesi G. Vertical and horizontal ridge augmentation using customized CAD/CAM titanium mesh with versus without resorbable membranes. A randomized clinical trial. *Clin Oral Implants Res*. 2021 Sep 22. doi: 10.1111/clr.13841. Online ahead of print.

**Cucchi A**, Vignudelli E, Sartori M, Parrilli A, Aldini NN, Corinaldesi G. A microcomputed tomography analysis of bone tissue after vertical ridge augmentation with non-resorbable membranes versus resorbable membranes and titanium mesh in humans. *Int J Oral Implantol (Berl)*. 2021 Mar 16;14(1):25-38.

**Cucchi A**, Vignudelli E, Fiorino A, Pellegrino G, Corinaldesi G. Vertical ridge augmentation (VRA) with Ti-reinforced d-PTFE membranes or Ti meshes and collagen membranes: 1-year results of a randomized clinical trial. *Clin Oral Implants Res*. 2021 Jan;32(1):1-14.

**Cucchi A**, Bianchi A, Calamai P, Rinaldi L, Mangano F, Vignudelli E, Corinaldesi G. Clinical and volumetric outcomes after vertical ridge augmentation using computer-aided-design/computer-aided manufacturing (CAD/CAM) customized titanium meshes: a pilot study. *BMC Oral Health*. 2020 Aug 5;20(1):219.

Malchiodi L, Ricciardi G, Salandini A, Caricasulo R, **Cucchi A**, Ghensi P. Influence of crown-implant ratio on implant success rate of ultra-short dental implants: results of a 8- to 10-year retrospective study. *Clin Oral Investig*. 2020 Sep;24(9):3213-3222.

Rengo C, Fiorino A, **Cucchi A**, Nappo A, Randellini E, Calamai P, Ferrari M. Patient-reported outcomes and complication rates after lateral maxillary sinus floor elevation: a prospective study. *Clin Oral Investig*. 2021 Jul;25(7):4431-4444.

Mandelli F, Zaetta A, **Cucchi A**, Mangano FG. Solid index impression protocol: a hybrid workflow for high accuracy and passive fit of full-arch restorations. *Int J Comput Dent*. 2020;23:161-181.

**Cucchi A**, Chierico A, Fontana F, Mazzocco F, Cinquegrana C, Belleggia F, Rossetti P, Soardi CM, Todisco M, Luongo R, Singorini L, Ronda M, Pistilli R. Statments and recommendations for guided bone regeneration (GBR): consensus report of the GBR symposium held in Bologna, October 15-16, 2016. *Implant Dent*. 2019; 28(4):388-399.

**Cucchi A**, Vignudelli E, Franco S, Ghensi P, Malchiodi L, Corinaldesi G. Evaluation of crestal bone loss around straight and tilted implants in patients rehabilitated by immediate-loaded full-arch. A prospective study. *J Oral Implantol*. 2019 Sep 19. doi: 10.1563/aid-joi-D-18-00152. [Epub ahead of print]

**Cucchi A**, Sartori M, Parrilli A, Aldini NN, Vignudelli E, Corinaldesi G. Histological and histomorphometric analysis of bone tissue after guided bone regeneration with non-resorbable membranes vs resorbable membranes and titanium mesh. *Clin Implant Dent Relat Res*. 2019; 21(4):693-701

**Cucchi A**, Sartori M, Aldini N, Vignudelli E, Corinaldesi G. A proposal of pseudo-periosteum classification after guided bone regeneration (GBR) by means of Ti-reinforced PTFE membranes or titanium meshes plus cross-linked collagen membranes. *Int J Periodont Restor Dent* 2019; 39(4):e157-e165.

**Cucchi A**, Giavatto MA, Giannatiempo J, Lizio G, Corinaldesi G. Custom-made titanium mesh for maxillary bone augmentation with immediate implants and delayed Loading. *J Oral Implantol*. 2019; 45:59-64.

Ghensi P, **Cucchi A**, Bonaccorso A, Ferroni L, Gardin C, Mortellaro C, Zavan B. In Vitro Effect of Bromelain on the Regenerative Properties of Mesenchymal Stem Cells. *J Craniofac Surg*. 2018.

Malchiodi L, Moro T, Cattina DP, **Cucchi A**, Ghensi P, Nocini PF. Implant rehabilitation of the edentulous jaws: Does tilting of posterior implants at an angle greater than 45° affect bone resorption and implant success?: A retrospective study. *Clin Implant Dent Relat Res*. 2018; 20:867-874.

Malchiodi L, Giacomazzi E, **Cucchi A**, Ricciotti G, Caricasulo R, Bertossi D, Gherlone E. Relationship between crestal bone levels and crown-to-implant ratio of ultra-short implants with a microrough surface: A prospective study with 48 months of follow-up. *J Oral Implantol*. 2019; 45:18-28.

**Cucchi A**, Molè F, Rinaldi L, Marchetti C, Corinaldesi G. The Efficacy of an Anatase-Coated Collar Surface in Inhibiting the Bacterial Colonization of Oral Implants: A Pilot Prospective Study in Humans. *Int J Oral Maxillofac Implants*. 2018;33(2):395-404.

Caricasulo R, Malchiodi L, Ghensi P, Fantozzi G, **Cucchi A**. The influence of implant-abutment connection to peri-implant bone loss: A systematic review and meta-analysis. *Clin Implant Dent Relat Res*. 2018 May 15. doi: 10.1111/cid.12620.

**Cucchi A**, Vignudelli E, Napolitano A, Marchetti C, Corinaldesi G. Evaluation of complication rates and vertical bone gain after guided bone regeneration (GBR) with non-resorbable membranes versus titanium meshes and resorbable membranes. A randomized clinical trial. *Clin Implant Dent Relat Res*. 2017.

**Cucchi A**, Vignudelli E, Franco S, Levrini L, Castellani D, Pagliani L, Rea M, Modena C, Sandri G, Longhi C. Tapered, Double-Lead Threads Single Implants Placed in Fresh Extraction Sockets and Healed Sites of the Posterior Jaws: A Multicenter Randomized Controlled Trial with 1 to 3 Years of Follow-Up. *Biomed Res Int*. 2017;2017:8017175.

**Cucchi A**, Vignudelli E, Franco S, Corinaldesi G. Minimally Invasive Approach Based on Pterygoid and Short Implants for Rehabilitation of an Extremely Atrophic Maxilla: Case Report. *Implant Dent*. 2017;26(4):639-644.

Malchiodi L, Caricasulo R, **Cucchi A**, Vinci R, Agliardi E, Gherlone E. Evaluation of Ultrashort and Longer Implants with Microrough Surfaces: Results of a 24- to 36-Month Prospective Study. *Int J Oral Maxillofac Implants*. 2017;32(1):171-179.

Barone A, Toti P, Quaranta A, Alfonsi F, **Cucchi A**, Negri B, Di Felice R, Marchionni S, Calvo-Guirado JL, Covani U, Nannmark U. Clinical and Histological changes after ridge preservation with two xenografts: preliminary results from a multicentre randomized controlled clinical trial. *J Clin Periodontol*. 2017 Feb;44(2):204-214.

Malchiodi L, **Cucchi A**, Ghensi P, Balzani L, Nocini PF. Primary and secondary stability of implants in post-extraction and healed sites: a randomized clinical trial. *Int J Oral Maxillo-fac Implants* 2016.

Malchiodi L, **Cucchi A**, Ghensi P, Nocini PF. The "Alternating Osteotome Technique": a surgical approach for combined ridge expansion and sinus floor elevation. A multicentre prospective study with a 3-year follow-up. *J Biotechnol and Biotechnol Equip* 2016.

Barone A, Toti P, Quaranta A, Alfonsi F, **Cucchi A**, Calvo-Guirado JL, Negri B, Di Felice R, Covani U. Volumetric analysis of remodelling pattern after ridge preservation comparing use of two types of xenografts. A multicentre randomized clinical trial. *Clin Oral Implants Res*. 2016;27(11):e105-e115.

Ghensi P, **Cucchi A**, Creminelli L, Tomasi C, Zavan B, Maiorana C. Effect of Oral Administration of Bromelain on Postoperative Discomfort After Third Molar Surgery. *J Craniofac Surg*. 2016.

De Santis D, **Cucchi A**, Rigoni G, Longhi C, Nocini PF. Relationship Between Primary Stability and Crestal Bone Loss of Implants Placed with High Insertion Torque: A 3-Year Prospective Study. *Int J Oral Maxillofac Implants*. 2016 Sep-Oct;31(5):1126-34

**Cucchi A**, Caricasulo R, Ghensi P, Malchiodi L, Corinaldesi G. Prevention of BRONJ Using PRGF in a Totally Edentulous Patient Restored With Postextraction Implants: A Case Report. *J Oral Implantol*. 2015 Dec 11. [Epub ahead of print].

Barone A, Toti P, Quaranta A, Alfonsi F, **Cucchi A**, Calvo-Guirado JL, Negri B, Di Felice R, Covani U. Volumetric analysis of remodelling pattern after ridge preservation comparing use of two types of xenografts. A multicentre randomized clinical trial. *Clin Oral Implants Res*. 2015 Feb 2.

Malchiodi L, Ghensi P, **Cucchi A**, Pieroni S, Bertossi D. Peri-implant conditions around sintered porous-surfaced (SPS) implants. A 36-month prospective cohort study. *Clin Oral Implants Res*. 2015 Feb;26(2):212-9.

**Cucchi A**, Ghensi P. Vertical Guided Bone Regeneration using Titanium-reinforced d-PTFE Membrane and Prehydrated Corticocancellous Bone Graft. *Open Dent J*. 2014 Nov 14;8:194-200.

Scala R, **Cucchi A**, Cappellina L, Ghensi P. Cleaning and decompression of inferior alveolar canal to treat dysesthesia and paresthesia following endodontic treatment of a third molar. *Indian J Dent Res*. 2014 May-Jun;25(3):413-5.

De Santis D, **Cucchi A**, Rigoni G, Longhi C. Short Implants with Oxidized Surface in Posterior Areas of Atrophic Jaws: 3- to 5-Year Results of a Multicenter Study. *Clin Implant Dent Relat Res*. 2015 Jun;17(3):442-52.

Malchiodi L, **Cucchi A**, Ghensi P, Consonni D, Nocini PF. Influence of crown-implant ratio on implant success rates and crestal bone levels: a 36-month follow-up prospective study. *Clin Oral Implants Res*. 2014 Feb;25(2):240-51.

Scala R, Ghensi P, **Cucchi A**, Pistoia E. Postextraction implant placement with immediate provisionalisation and finalisation, using a simplified technique: technical notes and a case report. *Open Dent J*. 2012;6:164-9.



Scala R, **Cucchi A**, Ghensi P, Vartolo F. Clinical evaluation of satisfaction in patients rehabilitated with an immediately loaded implant-supported prosthesis: a controlled prospective study. *Int J Oral Maxillofac Implants*. 2012 Jul-Aug;27(4):911-9.

De Santis D, **Cucchi A**, de Gemmis A, Nocini Pier F. New collagen matrix to avoid the reduction of keratinized tissue during guided bone regeneration in postextraction sites. *J Craniofac Surg*. 2012 May;23(3):e186-9.

Malchiodi L, **Cucchi A**, Ghensi P, Nocini PF. Evaluation of the esthetic results of 64 nonfunctional immediately loaded postextraction implants in the maxilla: correlation between interproximal alveolar crest and soft tissues at 3 years of follow-up. *Clin Implant Dent Relat Res*. 2013 Feb;15(1):130-42.

De Santis D, Trevisiol L, D'Agostino A, **Cucchi A**, De Gemmis A, Nocini PF. Guided bone regeneration with autogenous block grafts applied to Le Fort I osteotomy for treatment of severely resorbed maxillae: a 4- to 6-year prospective study. *Clin Oral Implants Res*. 2012 Jan;23(1):60-9.

De Santis D, **Cucchi A**, Longhi C, Vincenzo B. Short threaded implants with an oxidized surface to restore posterior teeth: 1- to 3-year results of a prospective study. *Int J Oral Maxillofac Implants*. 2011r;26(2):393-403.

Malchiodi L, Ghensi P, **Cucchi A**, Corrocher G. A comparative retrospective study of immediately loaded implants in postextraction sites versus healed sites: results after 6 to 7 years in the maxilla. *Int J Oral Maxillofac Implants*. 2011 Mar-Apr;26(2):373-84.

Malchiodi L, Ghensi P, **Cucchi A**, Trisi P, Szmukler-Moncler S, Corrocher G, Gerosa R. Early bone formation around immediately loaded FBR-coated implants after 8, 10 and 12 weeks: a human histologic evaluation of three retrieved implants. *Minerva Stomatol*. 2011 Apr;60(4):205-16.

De Santis D, Malchiodi L, **Cucchi A**, Canton LC, Trevisiol L, Nocini PF. Computer-assisted surgery: double surgical guides for immediate loading of implants in maxillary postextractive sites. *J Craniofac Surg*. 2010 Nov;21(6):1781-5.

Malchiodi L, Ghensi P, **Cucchi A**, Bondì V. One-stage surgical approach to rehabilitate severely injured anterior teeth in a young woman. *J Craniofac Surg*. 2010 Jul;21(4):1184-8.

Malchiodi L, Corrocher G, **Cucchi A**, Ghensi P, Bissolotti G, Nocini PF. Long-term results of immediately loaded fast bone regeneration-coated implants placed in fresh extraction sites in the upper jaw. *J Oral Implantol*. 2010;36(4):251-61.

De Santis D, Trevisiol L, **Cucchi A**, Canton LC, Nocini PF. Zygomatic and maxillary implants inserted by means of computer-assisted surgery in a patient with a cleft palate. *J Craniofac Surg.* 2010 May;21(3):858-62.

De Santis D, Canton LC, **Cucchi A**, Zanotti G, Pistoia E, Nocini PF. Computer-assisted surgery in the lower jaw: double surgical guide for immediately loaded implants in postextractive sites-technical notes and a case report. *J Oral Implantol.* 2010;36(1):61-8.

Malchiodi L, **Cucchi A**, Ghensi P, Bondi V. A case of rapidly progressive peri-implantitis around a short sintered porous-surfaced implant. *J Indiana Dent Assoc.* 2009-2010 Winter;88(4):33-5.

## **ATTIVITA' SCIENTIFICHE (congressi, simposi, convegni, corsi, live)**

Invited speaker at the XXV Zimvie Biomax international congress: "How to simplify the reconstruction surgery using innovative technology". Verona, October 2023.

Invited speaker at the 25<sup>th</sup> anniversary congress of Biotec BTK: "The Bichat's buccal fat pad to reduce the risk of healing complications". Venice, September 2023.

Invited speaker at the national congress of ANDI and DDS: "The computer-guided implant surgery in bone regeneration". Naples, September 2023.

Lecturer at SIRIO meeting: "What are the differences between Reinforced PTFE Membranes and Customized Titanium Meshes?". Rome, September 2023.

Live surgery about double customized titanium mesh for the treatment bilaterale vertical defects in posterior mandible at the GBR Academy meeting, with Dr. Sofia Bettini. Florence, September 2023.

Live surgery on streaming about computer-guided surgery for implant placement and immediate loading after bone regeneration using a customized CAD/CAM mesh, with Dr. Sofia Bettini. Italy, July 2023.

Invited speaker at the meeting of DDS Tunisian Embassy "How to increase the implant success in atrophic patients using customized titanium meshes and computer-guided surgery". Hammamet (Tunisia), June 2023.

Live Web Training for De Ore Biomaterials "The new approach of Bichat's Buccal Fat Pad (BFP) to reduce the risk of healing complications". Italy, May 2023.

Live surgery about computer-guided surgery for implant placement and immediate loading at the MOICO meeting. Treviso, May 2023.

Invited speaker at the 5<sup>th</sup> Ident Evolution – East Europe Digital Dentistry Event: "Vertical and horizontal ridge augmentation: from analog approach to digital approach". Timisoara (Romania), April 2023.

Lecturer at the 21<sup>st</sup> international Congress of Società italiana di Parodontologia (SIdP) – Forum for innovation in regenerative and reconstructive surgery: "The use of collagen matrices for the management of soft tissue in implant-prosthetic rehabilitations". Rimini, March 2023.

Speaker at the 26<sup>th</sup> UAE International Dental Conference & Arab Dental Exhibition - AEEDC DDS Forum: "Vertical & Horizontal Ridge Augmentation: from analog approach to digital approach". Dubai (United Arab Emirates), February 2023.

Live surgery about customized titanium mesh for the treatment of atrophic edentulous mandible at the GBR Academy meeting, with Dr. Sofia Bettini. Florence, January 2023.

Invited speaker at the 4<sup>th</sup> GBR Symposium 2022 "Video session. Mobilization, Modelling, Fixation, and Suturing: the 4 keypoints for the success in GBR". Bologna, November 2022.

Live surgery about immediate post-extraction implants and immediate loading at the GBR Academy meeting , with Dr. Paolo Calamai & Dr. Emanuele Randellini. Udine, December 2022.

Live surgery about customized titanium mesh for the treatment of atrophic edentulous maxilla at the Zimvie Accuramesh advanced course. Verona, November 2022.

Live Web Training for Zimvie "The Computer-Guided Surgery: Navimax System". Vicenza, November 2022.

Lecturer at the ANDI cultural program " The Digital Approaches in the Guided Bone Regeneration" – Varese, November 2022.

Winner of Ralph V. McKinney Award at the 50<sup>th</sup> World Congress of International Congress of Oral Implantologists (ICOI). Las Vegas (USA), November 2022.

Invited Speaker at Dental World 2022 International Dental Exhibition and Congress "Vertical and Horizontal Alveolar Ridge Augmentation: the Digital Approach Using 3D-printed Custom-Made Titanium Meshes". Budapest (Hungary), October 2022.

Invited Speaker at 4th DDS State of the Art Conference "Digital Dentistry: where are we now?" "Digital approaches for the alveolar ridge augmentation". Rhodes (Greece), October 2022.

Invited Speaker at 1st national congress 3P: "The digital approach in the management of bone defects" with Dott. Emanuele Randellini. Museo dell'automobile, Torino. September 2022.

Invited Speaker at XXIV Zimmer - Biomet 3i International Symposium: "The digital approach in the management of severe bone defects using GBR". Verona, September 2022.

Invited Speaker at Digital Implant & Restorative Academy (Di&RA) Summer Meeting: "Bone regeneration using non-resorbable membranes and customized titanium meshes: 5<sup>th</sup> generation". Verona, September 2022.

Invited Speaker at XXVIV Sweden Martina International Symposium: "How to manage the bone defects using Guided Bone Regeneration" with Dott. Emanuele Randellini. Padova, June 2022.

Invited Speaker at XXI Associazione Italiana Odontoiatri (AIO) International Congress "Focus on the gender shift in dentistry: a new perspective of a future challenge?" and III Digital Dentistry Society (DDS) National Congress "The digital approach in daily dental practice" about "Customized titanium meshes for bone regeneration". Chia (Cagliari), June 2022.

Invited Speaker at the 1st National Congress of the Società Italiana di Protesi Italiana e Riabilitazione Orale (SIPRO) – Battle of concepts: short implants vs GBR “How to manage the bone defects using Guided Bone Regeneration” with Dr. Stefano Bertoni. Roma, May 2022.

Lecture at the OPERA Congress 2022 “The treatment of a severely-resorbed maxilla using customized mesh: surgical protocol step-by-step” with dott. Sofia Bettini. Vicenza, May 2022.

Lecture, Tutoring and Teaching at the intermediate course on implantology and bone regeneration surgery - GBR Academy, with Dott. Paolo Calamai & Dott. Emanuele Randellini. Napoli, May 2022.

Lecture at the Expo Dental Meeting at the Digital Dental Theatre “3D bone regeneration: comparison between digital approaches”. Rimini, May 2022.

Invited Speaker at the Baltic Implantology Symposium 2022 “Vertical and Horizontal Alveolar Ridge Augmentation: the digital approach using 3D-printed custom-made titanium meshes”. Riga (Latvia), May 2022.

Teaching and Tutoring at hands-on workshop on “How to use Yxoss 3D-printed meshes and Fibrogide matrix” at the Baltic Implantology Symposium 2022. Riga (Latvia), May 2022.

Speaker at the Biomet 3i - Biomax Spring Summit “How to manage bone regeneration and prosthetic restoration for implant success” with Dr. Stefano Bertoni. Florence, May 2022.

Live Web Training for Digital Implant & Restorative Academy (Di&RA) “Technological Innovations and Digital Approaches for Guided Bone Regeneration”. Italy, May 2022.

Lecture at the Microimp Implant Day “Guided Bone Regeneration: from the past to the future” with Dr. Emanuele Randellini. Siena, April 2022.

Lecture and Teaching at the theoretical practical training course on human cadaver (cadaver lab course): “Oral and implant surgery with anatomical dissection”, with Dr. Emanuele Randellini and Dr. Paolo Calamai. ICLO-Verona, April 2022.

Chairman at the Urban Regeneration Tour “Strategies for horizontal and vertical ridge augmentation” Prof. Istvan Urban. Florence, February 2022.

Lecture, Tutoring and Teaching at the advanced course on bone regeneration surgery - GBR Academy, with Dott. Paolo Calamai, Dott. Emanuele Randellini, Dott. Carlos Renato Franco, and Prof. Frederico Nigro. Sao Paulo (Brazil), February 2022.

Live surgery about customized titanium mesh for the treatment of atrophic edentulous mandible at the GBR Academy meeting, with Dott. Paolo Calamai & Dott. Emanuele Randellini. Florence, January 2022.

Lecture at the Winter IAO meeting (Italian Academy of Osseointegration) “IAO NextGen: Clinical Case Discussion”. Cortina d'Ampezzo, January 2022.

Lecture, Tutoring and Teaching at the intermediate course on implantology and bone regeneration surgery - GBR Academy, with Dott. Paolo Calamai & Dott. Emanuele Randellini. Napoli, November 2022.

Lecture online at Jean-Monnet University meeting "3D Bone Regeneration using Ti-PTFE Membranes, Collagen Membranes, and Titanium Meshes". Lugano, Switzerland, November 2021.

Invited Speaker at the Digital Dentistry Society (DDS) Global Conference "Custom-made meshes for bone Augmentation". Cernobbio (Italy), November 2021.

Invited Speaker at XXIII Zimmer - Biomet 3i International Symposium: "Guided Bone Regeneration: from the past to the future" with Dott. Emanuele Randellini. Verona, October 2021.

Lecture at the OPERA meeting "Alveolar Ridge Augmentation with resorbable membranes and titanium meshes: Generation 5.0". Brescia, October 2021.

Invited Speaker at the Italian meeting of the "International College of Dentists" (ICD): "3D bone regeneration using ti-reinforced PTFE membranes and titanium meshes". Florence, September 2021.

Lecture online at the OPERA meeting "Alveolar Ridge Augmentation with resorbable membranes and titanium meshes: Generation 5.0". Dueville, June 2021.

Live Web Training and Live Surgery for Biomas – Zimmer Biomet "A novel digital approach: guided implant surgery and guided bone regeneration". Castiglione delle Stiviere, May 2021.

Lecture and Teaching at the theoretical practical training course on human cadaver (cadaver lab course): "Oral and implant surgery with anatomical dissection", with Dr. Emanuele Randellini and Dr. Paolo Calamai. ICLO-Verona, February 2021.

Live Web Training for Geistlich Biomaterials "Focus on Regeneration: from socket preservation to customized titanium meshes". Italy, November 2020.

Live Web Training for Biotec – BTK Academy "Digital Technology in bone augmentation surgery: 3D customized meshes". Italy, October 2020.

Live Web Training for Biomas – Zimmer Biomet "Is the Guided Bone Regeneration really difficult? Keep calm and respect the rules". Italy, May 2020.

Live Web Training for Biotec – BTK Academy "Implant Design: what, where, when and why". Italy, June 2020.

Live Web Training for De Ore Biomaterials "What is the future of Guided Bone Regeneration? A comparison of different surgical approaches". Italy, April 2020.

Lecture online at the XXVII National Congress of "Collegio dei Docenti Universitari di Discipline Odontostomatologiche (CDUO)" during the session of the II National Congress of Digital

Dentistry Society (DDS), "Treatment of severely-resorbed jaws using 3D titanium meshes". Milan, April 2020.

Clinical research in the unit of Oral and Maxillo-facial Surgery, Department of Biomedical and Neuromotor Sciences (DIBINEM), University of Bologna, Bologna, Italy. June 2015 – June 2020.

Teaching and tutoring activity in the Master program in Oral Surgery and Implantology, Department of Biomedical and Neuromotor Sciences (DIBINEM), University of Bologna, Bologna, Italy. June 2015 – June 2020.

Speaker at the 24th UAE International Dental Conference & Arab Dental Exhibition - AEEDC Dubai 2020 - "Digital & Technological Innovations in Guided Bone Regeneration (GBR)". Dubai (United Arab Emirates), February 2020.

Lecture, Tutoring and Teaching at the advanced course, bone regeneration surgery - GBR Academy, with Dott. Paolo Calamai, Dott. Emanuele Randellini, Dott. Carlos Renato Franco, and Prof. Frederico Nigro. Sao Paulo (Brazil), February 2020.

Speaker at the Conciliabolo cultural program in the field of "Implant surgery" and "Reconstructive bone surgery". University of Bologna, January-December 2019.

Invited Speaker at the 3rd GBR Symposium 2019 "Consensus in GBR: Evidence-based informations or Clinical Recommendations ?" Bologna, November 2019.

Lecture at the OPERA meeting "How to Simplify Guided Bone Regeneration? Digitalization & Customization". Cesenatico, November 2019.

Invited Speaker at the Digital Dentistry Society (DDS) Global Conference "Custom-made meshes for bone Augmentation". Baden Baden (Germany), October 2019.

Lecturer at the Central European Implant Academy (CEIA) meeting "Management of severe atrophy of the jaws using the Mesh 3D". Warsaw (Poland), October 2019.

Speaker at XXVIII European Association for Osseintegration (EAO) Congress: "Bone augmentation using customized meshes with or without membranes- randomized clinical trial". Lisbon (Spain), September 2019.

Invited Speaker at XXII Zimmer - Biomet 3i International Symposium: "Digital Technology in Bone Augmentation: from localized to extensive defects". Verona, September 2019.

Lecture at the Microimp Implant Day "Surgical techniques for treatment of moderate and severe bone defects" with Dr. Emanuele Randellini. Siena, September 2019.

Live surgery at the Summer GBR Academy meeting "Customized titanium mesh in the treatment of a single vertical defect in esthetic area". Cesena, July 2018.

Speaker at the 97<sup>th</sup> conference of International Association of Dental Research (IADR) "Three-dimensional guided bone regeneration (GBR) by means of customized titanium

meshes with and without collagen membranes. a randomized clinical trial". Vancouver (Canada), June 2019.

Lecturer at the XX BUJA Symposium (Boston University Italian Alumni) "Three-dimensional hard and soft tissue regeneration: from past to future". Rome (Italy), June 2019.

Invited Speaker at the 5th International BTK OPERA Symposium: "How to simplify bone augmentation using digital innovations". Vicenza, June 2019.

Lecturer at the Education Focused Evening Bergamo "Pterygoid implants in the rehabilitation of localized and extensive maxillary bone atrophies". Bergamo, November 2019.

Lecturer at the annual course of prosthodontics directed by dr. Dario Castellani "Guided Bone Regeneration (GBR): from Ti-reinforced PTFE membranes to digital customized meshes". Florence (Italy), May 2019.

Speaker at the Smile Team cultural program "The Bone regeneration in digital era between reality and future". Treviso 2019.

Speaker at the Spring Biomet 3i - Biomax Conference "Reconstruction and Management of bone volumes: bone Regeneration from localized defects to extended defects" with Dr. Emanuele Randellini. Rome, April 2019.

Lecturer at the Osteobiol-Tecnoss Cultural program "bone regeneration in the resolution of bone defects: surgical Techniques in comparison" – Turin (Italy), May 2019.

Visiting Speaker at the International Bone Symposium in Implant Dentistry "Guided Bone Regeneration (GBR): From ti-reinforced PTFE membranes to customized Ti-meshes". Arthur dugoni School of Dentistry – University of the Pacific – San Francisco (California – U.S.A.), March 2019.

Speaker at the II European conference on Dentistry and Oral Health "Custom-made meshes for bone Augmentation" – Prague (Czech Republic), March 2019.

Lecture at the ANDI cultural program "How to achieve success in bone regeneration: from traditional to digital" – Vicenza, March 2019.

Lecture at the annual course of Prof. Dario Castellani "Guided bone regeneration: from PTFE membranes to customised grids"-Florence, March 2019.

Lecturer at the Osteobiol-Tecnoss Cultural program "bone regeneration in the resolution of bone defects: surgical Techniques in comparison" – Brescia, March 2019.

Lecture, Tutoring and Teaching at the advanced course, bone regeneration surgery - GBR Academy, with Dott. Paolo Calamai, Dott. Emanuele Randellini, and Dott. Andrea Chierico, Dott. Carlos Renato Franco, and Prof. Frederico Nigro. Sao Paulo (Brazil), February 2019.



Lecture at the Education Focused Evening Florence "advanced regeneration surgery in the digital age: Reality and future prospects for achieving excellence" with Dr. Emanuele Randellini, Florence, February 2019.

Lecturer at the training course OPERA "Titanium Mesh: From the traditional approach to the digital approach", Rovigo, November 2018

Lecturer at the Education Focused Evening Bergamo "reconstruction of bone defects in patients with high expectations of success success rate". Bergamo, November 2018.

Lecturer at the theoretical-practical training course Mesh4You Training-Deore Education "Customization OF GBR techniques. When, how and why." Bologna, October 2018.

Visiting Speaker at the Global Bone Grafting Symposium "Bone Regeneration (GBR) horizontal and vertical: from non-absorbable membranes to custom-made grids". Bologna, October 2018.

Lecturer at the Osteobiol-Tecnoss cultural program "bone regeneration in the resolution of bone defects: surgical techniques in comparison". Bologna, October 2018.

Speaker at the Osteology Symposium 2018 "three-dimensional Bone regeneration (GBR) by custom-made titanium grids with and without collagen membrane" (Osteology Young Speaker Award). Torino, September 2018.

Visiting Lecturer at XXI Zimmer - Biomet 3i International Symposium: "Treatment of bone defects in patient with high expectation of success", with dr. Emanuele Randellini. Verona, October 2018.

Speaker at the 96<sup>th</sup> conference of International Association of Dental Research (IADR) "Preliminary results of histological and histomorphometric Analysis of GBR with non-resorbable versus resorbable membranes". London (UK), July 2018.

Lecture and Teaching at the theoretical practical training course on human cadaver (cadaver lab course): "Oral and implant surgery with anatomical dissection", with Dr. Massimiliano Rea and Dott. Marco Bacilieri. ICLO-Verona, June 2018.

Speaker at the International OPERA Conference "Titanium mesh: from traditional to digital approach" with Prof. Nicola De Angelis. Vicenza, June 2018.

Live surgery, Tutoring, and Teaching at the theoretical Practical course on human cadaver (cadaver lab course): "Guided Bone Regeneration (GBR): From socket preservation to vertical ridge augmentation", with Dr. Andrea Chierico. ICLO-Verona, May 2018.

Visiting lecturer at Osteogenics Global Bone Grafting Symposium 2018: "Guided Bone Regeneration with PTFE membranes versus Collagen membranes". Phoenix - Scottsdale (Arizona), April 2018.

Live surgery and expert lecture at Master in "Implantology and Implant Prosthesis", directed by Prof. Guido Lorenzini, Department of Medical Biotechnologies, University of Siena. Siena, April 2018.

Teaching and Tutoring at hands-on course: "Implant surgery - intermediate level advanced" Director: Dr. Andrea Chierico & Dr. Alessandro Cucchi. Zimmer Biomet Institute. Winterthur (Switzerland), April 2018.

Live surgery, teaching, and tutoring at "GBR Academy International course in Advanced Surgery", Director: Prof. Fedrigo Nigro. Sao Paulo (Brazil), February 2017.

Lecture at the OPERA training course 2017: "Three-dimensional bone regeneration: from non-resorbable membranes to titanium meshes". Brescia, December 2017.

Lecture at OPERA training course 2017: "Three-dimensional bone regeneration: from non-resorbable membranes to titanium meshes". Alexandria. October 2017.

Invited Speaker at XX Zimmer - Biomet 3i International Symposium: "Operative Strategies in Guided Bone Regeneration (GBR)". Verona, October 2017.

Speaker at XXVI European Association for Osseointegration (EAO) Congress: "Histological and micro-CT evaluation of bone tissue after Guided Bone regeneration (GBR)". Madrid, September 2017.

Lecturer in the theoretical course "Guided bone regeneration (GBR): from the management of the post-extraction alveolus to the alveolar ridge vertical increase" with Dr. Andrea Chierico, Verona, September 2017.

Lecture at the ANDI-CAO course "Guided bone regeneration (GBR): comparative surgical techniques", Mantova. June 2017.

Lecture, Tutoring and Teaching in the practical theoretical course "Oral and implant surgery with anatomical dissection on cadaver", with Dr. Massimiliano Rea and the dott. Marco Bacillieri. Verona, May 2017.

Teaching and Tutoring in the practical theoretical course "Implant surgery - intermediate level advanced" with Dr. Fabio Mazzocco, at the Zimmer Biomet Institute. Winterthur (Switzerland), April 2017.

Lecture at the Essetre 2017 course on advanced methodologies in dentistry with the title "Three-dimensional bone regeneration or alternative treatment implants", Verona, April 2017.

Speaker at the Spring Biomet 3i - Biomax Conference: "Mucogingival Surgery according to Peri-implant Esthetics and Health", Brescia, April 2017.

Speaker at the Congress of the International Association of Dental Research (IADR-AADR-CADR): GBR With D-PTFE Ti-reinforced Membranes Versus Ti-meshes and Collagen Membranes. San Francisco (California), March 2017.

Invited speaker at the Bulgarian Meeting in Advanced Surgery: "Immediate post-extraction implants: from socket preservation to immediate loading". Sofia (Bulgaria). May 2017.

Invited Speaker in the II GBR Symposium: "Therapeutic choice between short implant and different vertical regeneration techniques", with dr. Andrea Chierico. Bologna, October 2016.

Speaker at the XXIII International Congress of the European Association of Cranio-Maxillo-Facial Surgery (EACMFS) with the title "Guided Bone Regeneration (GBR) with non-resorbable membranes versus titanium meshes. A randomized clinical trial". London, Sept. 2016.

Lecture, tutoring, and live surgery at the theoretical practical course of "Implant surgery: primary stability and osseointegration". Reggio Emilia, July 2016.

Speaker at the Cenacolo Bolognese 2017 with the title "Management and optimization of soft tissues: from the function to aesthetics", Bologna, July 2016.

Live surgery, Tutoring, and Teaching at the theoretical Practical course on human cadaver (cadaver lab course): "Oral and implant surgery with anatomical dissection on cadaver", with dr. Massimiliano Rea. Verona, June 2016.

Invited Speaker at the 2nd International BTK OPERA Symposium: "Straight and tilted implants: Operative protocols and clinical implications". Vicenza, June 2016.

Speaker at the 12th Annual Winter Conference of the Association of Dental Odontologists, Dentists and Maxillofacial Surgeons of the Triveneto (SOOCMFOT): "Pterygoid implants in the resolution of the maxillary atrophy". San Martino di Castrozza, January 2016.

Invited Speaker at the 2nd World Congress of Oral and Dental Medicine (CODM): "Evaluation of early and late complications after guided bone regeneration with PTFE membranes versus titanium meshes". Dahlin (China), November 2015.

Live surgery, Tutoring, and Teaching at the theoretical Practical course on human cadaver (cadaver lab course): "Pterygoid implants: implant surgery and anatomical dissection on cadaver", with dr. Andrea Tedesco. Arezzo, October 2015.

Invited Speaker at the XVIII Zimmer Biomet 3i International Symposium: "Pterygoid implants: alternative solution to maxillary surgery". Verona, September 2015.

Invited Speaker at the 1st International BTK OPERA Symposium: "Postextraction implants: from socket preservation to immediate loading". Vicenza, June 2015.

Lecture at the International Conference Nano to Macro Biomaterials (NAMABIO) - Unified Scientific Approaches towards Regenerative Orthopedics and Dentistry (REDEOR). Venice, March 2015.

Lecture at the Turkish Dental Meeting 2014: "Implant stability: the role of implant design in post-extraction sites and atrophic ridges". Eskisehir (Turkey), November 2014.

Lecture at the BTK Portugal Meeting: "Implant stability and self-tapping tapered implants: from post-extraction sockets to atrophic ridges", Lisbon (Portugal), October 2014.

Lecture and teaching at the Italian Society of Dental Aesthetics (SIED): "Implant Stability: a key factor in oral implantology. Scientific results and clinical implications ". Rome, June 2014

Lecture the ANDI Treviso - Conference: "Decision-making process: drawbacks and challenges of implant dentistry", Treviso, December 2013.

Live surgery in the theoretical practical course "Immediate loading according to BT-4 technique with double variable loop conical implants". Vicenza, October 2013.

Lecture at the BTK Academy: "Implant surgery in alveolar ridge defects: horizontal and vertical volume augmentation". Vicenza, September 2013.

Lecture at the ANDI Florence - IV Memorial Di Gregorio: "Periodontal esthetic surgery: mucogingival surgery, treatments, prognosis and long-term results". Florence, April 2013.

Lecture at the Lybian Annual International Dental Exhibition and Conference (LAIDEC), entitled "Implant design and implant stability: scientific evidence and clinical implications". Libya, April 2013.

Live surgery at the theoretical practical course "Bone regeneration in association with double variable thread tapered implants". Vicenza, February 2013.

Lecture at the special odontostomatological surgery II course, Faculty of Medicine and Surgery, degree course in Dentistry and dental prostheses, at the University of Verona, 2012.

Lecture at the Periodontology I course, School of Dentistry, Faculty of Medicine and Surgery, University of Verona, 2012.

Lecture at the 15th European Society of Endodontics (ESE) Conference: "Endodontics versus Implant dentistry: a rationale for the right choice". Rome, September 2011.

Lecture at the ANDI Tuscany: "Different implant-prosthetic solutions in the treatment of maxillary atrophy from bone grafts to short implants", with Prof. Luciano Malchiodi. Prato, May 2011.

Speaker at the Oral B meeting: "Short and ultra-short implants: clinical experience and peri-implant and biomechanical evaluations", with Prof. Luciano Malchiodi. Milan, February 2011.

Speaker at the Oral B meeting: "Short and ultrashort implants: clinical experience and peri-implant and biomechanical evaluations", with Prof. Luciano Malchiodi. Rome, December 2010.

Speaker at the 4th Autumn Dental Exhibition: "Biomechanical evaluation of implants with a sintered ball surface: influence of the crown / implant ratio and other implant-prosthetic parameters on implant success". Milan, November 2010.

Speaker at the 31st Italian Society of Endodontics (SIE) conference: "Implantology versus endodontics: the rationale for a correct choice". Verona, November 2010.

Speaker at the 12th International Conference of Aesthetic Medicine (Agora): "A systematic review on the effectiveness of fillers in facial aesthetics: the rationale for clinical application". Milan, October 2010.

Speaker at the 8th Dental Hygiene Conference - University of Verona: "Implantology: from single tooth rehabilitation, to immediate loading, to short implants", with Prof. Luciano Malchiodi. Rovereto, October 2010.

Speaker at the 1st AIO Mantova meeting: "The treatment of maxillary atrophy in implantoprosthesis with short implants: clinical trial and its results", with Prof. Luciano Malchiodi. Mantova, October 2010.

Speaker at the ANDI Genoa meeting: "Short and ultra short implants: clinical experience and peri-implant and biomechanical evaluations", with Prof. Luciano Malchiodi. Genoa, May 2010.

Teaching at the elective course of Implanto-Prosthetics, Faculty of Medicine and Surgery, University of Verona, 2010.

*"In compliance with the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned decree."*

Padova, 29th of september 2023

Signature: Alessandro Cucchi

A handwritten signature in black ink, appearing to be 'A. Cucchi', written in a cursive style.