
Prof. Ugo Covani

- Già Professore Ordinario di Malattie Odontostomatologiche dell'Università degli Studi di Pisa
- Dottore in Medicina e Chirurgia
- Specialista in Chirurgia e Stomatologia
- Perfezionato in Chirurgia parodontale e Implantologia
- Visiting Professor – Dep.t of Oral and Maxillo-facial Surgery – State University of New York at Buffalo (1997/ad oggi)
- Past-President della Società Italiana di Chirurgia Orale (1994/96)
- Past-President of European Board of Oral Surgery (2004/08)
- Direttore dell'Istituto Stomatologico Toscano – Ospedale Unico della Versilia (2003/ad oggi)
- Presidente dell'Accademia di Studi e Ricerche di Odontostomatologia e Prevenzione Odontostomatologica "Il Chirone"

Attività didattiche presso l'Università degli Studi di Pisa (2008/ad oggi)

- Titolare dell'Insegnamento di Implantologia presso il Corso di Laurea in Odontoiatria e Protesi dentaria
- Titolare dell'Insegnamento di Protesi dentaria presso il Corso di laurea in Odontoiatria e Protesi dentaria e il Corso di laurea in Igiene dentale
- Titolare dell'Insegnamento di Gnatologia presso il Corso di laurea in Odontoiatria e Protesi dentaria e presso il Corso di laurea in Fisioterapia
- Titolare dell'Insegnamento di Malattie Odontostomatologiche presso il Corso di Laurea in Medicina e Chirurgia
- Direttore dei Master in Implantoprotesi orale di 1° e 2° livello
- Coordinatore dei Corsi Integrati di Riabilitazione orale nel Corso di laurea in Odontoiatria e Protesi Dentaria

Attività di ricerca

- Riduzione dei tempi di terapia in implantologia con particolare riferimento al posizionamento immediatamente post-estrattivo degli impianti ed al loro carico immediato
- Controllo dell'infezione dentale ed implantare mediante l'utilizzo di dispositivi laser
- Tecnologie avanzate della ricostruzione ossea in odontostomatologia
- Interazioni biologiche delle superfici implantari

Esperienze pregresse

- Assistente di Chirurgia Generale presso gli Ospedali di Massa e Camaiore (1974/84)
- Insegnante e Professore a contratto presso la Clinica Odontoiatrica dell'Università di Genova (1984/1995)
- Docente di didattica tutoriale e Professore a contratto presso la Cattedra di Protesi dentaria dell'Università di Milano (1995/98)
- Professore a contratto presso la Cattedra di Parodontologia dell'Università di Pisa (1998/2000)
- Consulente chirurgo presso il servizio di Odontoiatria dell'Ospedale San Raffaele di Milano (1995/2000)
- Professore associato e titolare della Cattedra di Patologia Speciale Odontostomatologica dell'Università di Genova (2001/08)

Pubblicazioni internazionali degli ultimi 5 anni

1. Lelli M, Marchisio O, Foltran I, Genovesi A, Montebugnoli G, Marcaccio M, Covani U, Roveri N. Different corrosive effects on hydroxyapatite nanocrystals and amine fluoride-based mouthwashes on dental titanium brackets: a comparative in vitro study. *Int J Nanomedicine*. 2013;8:307-14. doi: 10.2147/IJN.S35245. Epub 2013 Jan 17. PubMed PMID: 23355777; PubMed Central PMCID: PMC3551457.
2. Ricci M, Mangano F, Tonelli P, Barone A, Galletti C, Covani U. An unusual case of unicystic intramural ameloblastoma and review of the literature. *Contemp Clin Dent*. 2012 Sep;3(Suppl 2):S233-9. doi: 10.4103/0976-237X.101104. PubMed PMID:23230371; PubMed Central PMCID: PMC3514926.
3. Di Turi G, Riggio C, Vittorio O, Marconcini S, Briguglio F, Funel N, Campani D, Barone A, Raffa V, Covani U. Sub-micrometric liposomes as drug delivery systems in the treatment of periodontitis. *Int J Immunopathol Pharmacol*. 2012 Jul-Sep;25(3):657-70. PubMed PMID: 23058016.
4. Grassi R, Rebaudi A, Trisi P, Covani U, Barone A. Bone loss around immediately loaded transitional implants: histologic and microcomputed tomographic analysis—a case report. *Int J Periodontics Restorative Dent*. 2012 Dec;32(6):e195-203. PubMed PMID: 23057063.
5. Rao NS, Bajaj P, Agarwal E, Pradeep AR. Periodontal dressing may influence the clinical outcome of non-surgical periodontal treatment: a split-mouth study.
6. Orlando B, Giacomelli L, Ricci M, Barone A, Covani U. Leader genes in osteogenesis: a theoretical study. *Arch Oral Biol*. 2013 Jan;58(1):42-9. doi 10.1016/j.archoralbio.2012.07.010. Epub 2012 Aug 9. PubMed PMID: 22884391.
7. Covani U, Orlando B, D'Ambrosio A, Sabattini VB, Barone A. Immediate rehabilitation of completely edentulous jaws with fixed prostheses supported by implants placed into fresh extraction sockets and in healed sites: a 4-year clinical evaluation. *Implant Dent*. 2012 Aug;21(4):272-9. doi:10.1097/ID.0b013e31825885e0. PubMed PMID: 22814550.
8. Barone A, Ricci M, Tonelli P, Santini S, Covani U. Tissue changes of extraction sockets in humans: a comparison of spontaneous healing vs. ridge preservation with secondary soft tissue healing. *Clin Oral Implants Res*. 2012 Jul 12. doi: 10.1111/j.1600-0501.2012.02535.x. [Epub ahead of print] PubMed PMID:22784417.
9. Marconcini S, Barone A, Gelpi F, Briguglio F, Covani U. Immediate implant placement in infected sites: a case series. *J Periodontol*. 2013 Feb;84(2):196-202. doi: 10.1902/jop.2012.110279. Epub 2012 Apr 17. PubMed PMID:22509756.
10. Covani U, Chiappe G, Bosco M, Orlando B, Quaranta A, Barone A. A 10-year evaluation of implants placed in fresh extraction sockets: a prospective cohort study. *J Periodontol*. 2012 Oct;83(10):1226-34. Epub 2012 Jan 5. PubMed PMID:22220768.
11. Covani U, Ricci M, D'Ambrosio N, Quaranta A, Barone A. Changes in soft tissues around immediate full-arch rehabilitations: a prospective study. *Clin Oral Implants Res*. 2012 Jan 6. doi: 10.1111/j.1600-0501.2011.02394.x. [Epub ahead of print] PubMed PMID: 22220509.
12. Barone A, Ricci M, Grassi RF, Nannmark U, Quaranta A, Covani U. A 6-month histological analysis on maxillary sinus augmentation with and without use of collagen membranes over the osteotomy window: randomized clinical trial. *Clin Oral Implants Res*. 2013 Jan;24(1):1-6. doi: 10.1111/j.1600-0501.2011.02340.x. Epub 2011 Dec 12. PubMed PMID: 22151577.
13. Sisti A, Canullo L, Mottola MP, Covani U, Barone A, Botticelli D. Clinical evaluation of a ridge augmentation procedure for the severely resorbed alveolar socket: multicenter randomized controlled trial, preliminary results. *Clin Oral Implants Res*. 2012 May;23(5):526-35. doi: 10.1111/j.1600-0501.2011.02386.x. Epub 2011 Dec 8. PubMed PMID: 22150876.
14. Barone A, Orlando B, Cingano L, Marconcini S, Derchi G, Covani U. A randomized clinical trial to evaluate and compare implants placed in augmented versus non-augmented extraction sockets: 3-year results. *J Periodontol*. 2012 Jul;83(7):836-46. doi: 10.1902/jop.2011.110205. Epub 2011 Dec 5. PubMed PMID:22141358.
15. Vozza I, Barone A, Quaranta M, De Paolis G, Covani U, Quaranta A. A Comparison between Endodontics and Implantology: An 8-Year Retrospective Study. *Clin Implant Dent Relat Res*. 2013 Feb;15(1):29-36. doi:10.1111/j.1708-8208.2011.00397.x. Epub 2011 Nov 14. PubMed PMID: 22082010.

16. Ricci M, Garoia F, Tabarroni C, Marchisio O, Barone A, Genovesi A, Covani U. Association between genetic risk score and periodontitis onset and progression: a pilot study. *Arch Oral Biol.* 2011 Dec;56(12):1499-505. doi:10.1016/j.archoralbio.2011.07.002. Epub 2011 Aug 16. PubMed PMID: 21846573.
17. Giacomelli L, Salerno M, Derchi G, Genovesi A, Paganin PP, Covani U. Effect of air polishing with glycine and bicarbonate powders on a nanocomposite used in dental restorations: an in vitro study. *Int J Periodontics Restorative Dent.* 2011 Sep-Oct;31(5):e51-6. PubMed PMID: 21845237.
18. Genovesi AM, Ricci M, Marchisio O, Covani U. Periodontal dressing may influence the clinical outcome of non-surgical periodontal treatment: a split-mouth study. *Int J Dent Hyg.* 2012 Nov;10(4):284-9. doi:10.1111/j.1601-5037.2010.00493.x. Epub 2011 Jun 15. PubMed PMID: 21672162.
19. Barone A, Ricci M, Mangano F, Covani U. Morbidity associated with iliac crest harvesting in the treatment of maxillary and mandibular atrophies: a 10-year analysis. *J Oral Maxillofac Surg.* 2011 Sep;69(9):2298-304. doi:10.1016/j.joms.2011.01.014. Epub 2011 Apr 5. PubMed PMID: 21470738.
20. Covani U, Ricci M, Santini S, Mangano F, Barone A. Fracture of anterior iliac crest following bone graft harvest in an anorexic patient: case report and review of the literature. *J Oral Implantol.* 2013 Feb;39(1):103-9. doi:10.1563/AAID-JOI-D-10-00153. Epub 2011 Feb 7. PubMed PMID: 21299406.
21. Barone A, Ricci M, Calvo-Guirado JL, Covani U. Bone remodelling after regenerative procedures around implants placed in fresh extraction sockets: an experimental study in Beagle dogs. *Clin Oral Implants Res.* 2011 Oct;22(10):1131-7. doi: 10.1111/j.1600-0501.2010.02084.x. Epub 2011 Jan 20. PubMed PMID: 21251082.
22. Giacomelli L, Derchi G, Frustaci A, Orlando B, Covani U, Barone A, De Santis D, Chiappelli F. Surface roughness of commercial composites after different polishing protocols: an analysis with atomic force microscopy. *Open Dent J.* 2010 Sep 15;4:191-4. doi: 10.2174/1874210601004010191. Erratum in: *Open Dent J.* 2012;6:189. Bruno, Orlando [corrected to Orlando, Bruno]. PubMed PMID: 21228920; PubMed Central PMCID: PMC3019617.
23. Covani U, Ricci M, Bozzolo G, Mangano F, Zini A, Barone A. Analysis of the pattern of the alveolar ridge remodelling following single tooth extraction. *Clin Oral Implants Res.* 2011 Aug;22(8):820-5. doi: 10.1111/j.1600-0501.2010.02060.x. Epub 2010 Dec 29. PubMed PMID: 21198897.
24. Marconcini S, Covani U, Barone A, Vittorio O, Curcio M, Barbuti S, Scatena F, Felli L, Nicolini C. Real-time quantitative polymerase chain reaction analysis of patients with refractory chronic periodontitis. *J Periodontol.* 2011 Jul;82(7):1018-24. doi: 10.1902/jop.2010.100312. Epub 2010 Dec 28. PubMed PMID:21189087.
25. Covani U, Orlando B, Giacomelli L, Cornelini R, Barone A. Implant survival after sinus elevation with Straumann(®) BoneCeramic in clinical practice: ad-interim results of a prospective study at a 15-month follow-up. *Clin Oral Implants Res.* 2011 May;22(5):481-4. doi: 10.1111/j.1600-0501.2010.02042.x. Epub 2010 Dec 9. PubMed PMID: 21143534.
26. Covani U, Marconcini S, Santini S, Cornelini R, Barone A. Immediate restoration of single implants placed immediately after implant removal. A case report. *Int J Periodontics Restorative Dent.* 2010 Dec;30(6):639-45. PubMed PMID: 20967310.
27. Covani U, Cornelini R, Calvo JL, Tonelli P, Barone A. Bone remodeling around implants placed in fresh extraction sockets. *Int J Periodontics Restorative Dent.* 2010 Dec;30(6):601-7. PubMed PMID: 20967306.
28. Giacomelli L, Covani U. Bioinformatics and data mining studies in oral genomics and proteomics: new trends and challenges. *Open Dent J.* 2010 Jul 16;4:67-71. doi: 10.2174/1874210601004020067. PubMed PMID: 20871759; PubMed Central PMCID: PMC2945006.
29. Orlando B, Barone A, Giorno TM, Giacomelli L, Tonelli P, Covani U. Insertion torque in different bone models with different screw pitch: an in vitro study. *Int J Oral Maxillofac Implants.* 2010 Sep-Oct;25(5):883-7. PubMed PMID: 20862400.
30. Barone A, Orlando B, Tonelli P, Covani U. Survival rate for implants placed in the posterior maxilla with and without sinus augmentation: a comparative cohort study. *J Periodontol.* 2011 Feb;82(2):219-26. doi: 10.1902/jop.2010.100177. Epub 2010 Sep 10. PubMed PMID: 20831372.
31. Barone A, Ricci M, Covani U, Nannmark U, Azarmehr I, Calvo-Guirado JL. Maxillary sinus augmentation using prehydrated corticocancellous porcine bone:

- hystomorphometric evaluation after 6 months. Clin Implant Dent Relat Res. 2012 Jun;14(3):373-9. doi: 10.1111/j.1708-8208.2010.00274.x. Epub 2010 May 11. PubMed PMID: 20491813.*
32. Barone A, Marconcini S, Giacomelli L, Rispoli L, Calvo JL, Covani U. A randomized clinical evaluation of ultrasound bone surgery versus traditional rotary instruments in lower third molar extraction. *J Oral Maxillofac Surg. 2010 Feb;68(2):330-6. doi: 10.1016/j.joms.2009.03.053. Epub 2010 Jan 15. PubMed PMID: 20116704.*
33. Chiappelli F, Covani U, Giacomelli L. Proteomics as it pertains to oral pathologies and dental research. *Bioinformation. 2011 Jan 6;5(7):277. PubMed PMID: 21364833; PubMed Central PMCID: PMC3043345.*
34. Covani U, Marconcini S, Crespi R, Barone A. Immediate implant placement after removal of a failed implant: a clinical and histological case report. *J Oral Implantol. 2009;35(4):189-95. doi: 10.1563/1548-1336-35.4.189. PubMed PMID:19813424.*
35. Covani U, Marconcini S, Derchi G, Barone A, Giacomelli L. Relationship between human periodontitis and type 2 diabetes at a genomic level: a data-mining study. *J Periodontol. 2009 Aug;80(8):1265-73. doi: 10.1902/jop.2009.080671. PubMed PMID: 19656026.*
36. Covani U, Orlando B, Galletti C, Nuterini C, Barone A. Chondrocalcinosis of the temporomandibular joint: clinical considerations and case report. *Cranio. 2009 Apr;27(2):134-9. PubMed PMID: 19455925.*
37. Barone A, Varanini P, Orlando B, Tonelli P, Covani U. Deep-frozen allogeneic onlay bone grafts for reconstruction of atrophic maxillary alveolar ridges: a preliminary study. *J Oral Maxillofac Surg. 2009 Jun;67(6):1300-6. doi:10.1016/j.joms.2008.12.043. PubMed PMID: 19446220.*
38. Giacomelli L, Oluwadara O, Chiappe G, Barone A, Chiappelli F, Covani U. Relationship between human oral lichen planus and oral squamous cell carcinoma at a genomic level: a datamining study. *Bioinformation. 2009 Dec 31;4(6):258-62. PubMed PMID: 20975920; PubMed Central PMCID: PMC2951714.*
39. Covani U, Cornelini R, Barone A. Buccal bone augmentation around immediate implants with and without flap elevation: a modified approach. *Int J Oral Maxillofac Implants. 2008 Sep-Oct;23(5):841-6. PubMed PMID: 19014153.*
40. Covani U, Marconcini S, Giacomelli L, Sivozhelevov V, Barone A, Nicolini C. Bioinformatic prediction of leader genes in human periodontitis. *J Periodontol. 2008 Oct;79(10):1974-83. doi: 10.1902/jop.2008.080062. Erratum in: J Periodontol. 2010 Aug;81(8):1237. PubMed PMID: 18834254.*
41. Cornelini R, Barone A, Covani U. Connective tissue grafts in postextraction implants with immediate restoration: a prospective controlled clinical study. *Pract Proced Aesthet Dent. 2008 Jul;20(6):337-43. PubMed PMID: 18777700.*
42. Giacomelli L, Marconcini S, Derchi G, Barone A, Covani U. Leader genes: a data mining approach for molecular genomics. *AMIA Annu Symp Proc. 2007 Oct 11:963. PubMed PMID: 18694063.*
43. Barone A, Aldini NN, Fini M, Giardino R, Calvo Guirado JL, Covani U. Xenograft versus extraction alone for ridge preservation after tooth removal: a clinical and histomorphometric study. *J Periodontol. 2008 Aug;79(8):1370-7. doi:10.1902/jop.2008.070628. PubMed PMID: 18672985.*
44. Barone A, Cornelini R, Ciaglia R, Covani U. Implant placement in fresh extraction sockets and simultaneous osteotome sinus floor elevation: a case series. *Int J Periodontics Restorative Dent. 2008 Jun;28(3):283-9. PubMed PMID:18605604.*
45. Barone A, Derchi G, Rossi A, Marconcini S, Covani U. Longitudinal clinical evaluation of bonded composite inlays: a 3-year study. *Quintessence Int. 2008 Jan;39(1):65-71. PubMed PMID: 18551219.*
46. Barone A, Santini S, Marconcini S, Giacomelli L, Gherlone E, Covani U. Osteotomy and membrane elevation during the maxillary sinus augmentation procedure. A comparative study: piezoelectric device vs. conventional rotative instruments. *Clin Oral Implants Res. 2008 May;19(5):511-5. doi:10.1111/j.1600-0501.2007.01498.x. Epub 2008 Mar 26. PubMed PMID: 18371101.*