



► Dr. Volkan ARISAN

Professor

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Research Interest keywords:

- **Computer-aided dental implant planning & surgery using static and dynamic techniques.**
- **Immediate loading of dental implants.**
- **Acute/ chronic and pathologic peri-implant dehiscence defects and treatment**
- **Experimental and clinical dental implant studies**
- **Longitudinal follow-up and clinical trials in dentistry**

Education

Med.Dent. (licence) Faculty of Dentistry, Istanbul University, Istanbul, Turkey (1993-1998)

Dr.Med.Dent.(Phd) Department of Oral Implantology, Faculty of Dentistry, Istanbul University, Istanbul, Turkey (1998- 2004)

- Research Fellow, Clinician (2004 - 2011)
- Ass.Prof.Dr. (2011 - 2017)
- Full Professor (by 2017-ongoing)
- Chairman of the Department of Oral Implantology (2012 to 2017)
- Erasmus coordinator of the Faculty of Dentistry, Istanbul University (by 2017-2022)
- Board of directors Institute of Health Sciences of Istanbul University (by 2018-2022)
- Board of directors Turkish Society of Oral Implantology (by 2017-ongoing)
- European Association of Osseointegration Ambassador (Turkey 1999-2015)
- Coordinator for the International Accrediation of the Faculty of Dentistry, İstanbul University 2022- ongoing)

Citations and Ranking

h-index: 17

Total citations: 1876

(as of 2023/ August -Google Scholar)

Experiences

Visiting Professor:

DTMD - University for Digital Technologies in Medicine and Dentistry Luxembourg. 2020- ongoing

FH Campus Wien, Vienna, Austira September 2018 : 15 hours of lecture of planning and placement of dental implants & imaging and computer assisted planning- ongoing

University of Napples, School of Dental Medicine. May 2016 : Five hour lecture of general implant dentistry

King's College, Faculty of Dentistry, September 2017: Five hour lecture of guided implant surgery

Visiting Student (08.2000 – 09.2000)

Program respondent: Professor Sacha Jovanovich

School of Dentistry, **UCLA, California, USA**

Visiting Researcher, Clinical Observer (01.2002 – 05.2002)

Advisory and referrer: Professor John A. Jansen

Department of Periodontology and Biomaterials, **St.Radboud University** Nijmegen Medical Center, School of Dentistry, Nijmegen, The Netherlands.

Awards:

2007 ICOI (International Congress of Oral Implantologists) World Congress, San Francisco California, “Second Place Award” by the oral presentaion of the study “Injectable calcium phosphate cement as bone graft material around peri-implant dehiscence defects: a dog study”

2006 EAO (European Academy of Osseointegration), Barceloba, Spain, “Travel Award” by the oral presentaion “The effect of injectable calcium phosphate cement on the bone-anchorage of titatium implants: a dog study”

Research Profile

► **Selected publications in science citation index (expanded)**

- V Arisan, E Bedeloğlu, B Pişkin ;Prevalence and predictors of bruxism in two university clinic patient populations with dental implants: A cross-sectional analysis
CRANIO®, 1-12 -2022

- N Ayşeşek, V Arisan, NB Balcıoğlu, A Erol, F Kuruoğlu, MS Tekkeşin, ...
Boron-and Boric Acid-Treated Titanium Implant Surfaces in Sheep Tibia: A Histologic, Histomorphometric and Mechanical Study
Bioengineering 9 (11), 705 -2022

- İÖ Mutlu, ZC Karabuda, V Arisan, M Sessevmez, E Saldamlı, G Bekel, Erdal Cevher. [Sustained Release of Vitamin D3 Enhanced Osseointegration Capacity: An Experimental Sheep Study](#).
Biointerface Research in Applied Chemistry. Volume 12, Issue 6, 2022, 8205 – 8218- 2021

- M Zboun, V Arisan, N Topcuoglu, F Kuruoglu, LT Sener, F Sarcan, In vitro comparison of titanium surface conditioning via boron-compounds and sand-blasting acid-etching
Surfaces and Interfaces 21, 100703 - 2020

- AS Akay, V Arisan, E Cevher, M Sessevmez, B Cam; Oxytocin-loaded sustained-release hydrogel graft provides accelerated bone formation: An experimental rat study
Journal of Orthopaedic Research® 38 (8), 1676-1687- 2020

- CA Aydemir, V Arisan, Accuracy of dental implant placement via dynamic navigation or the freehand

controlled clinical trial

Clinical Oral Implants Research 31 (3), 255-263 - 2020

- Funda Göker F, Selim Ersanlı , Volkan Arisan and coworkers. Combined effect of parathyroid hormone and strontium ranelate on bone healing in ovariectomized rats. **Oral Diseases**. 2018 Oct;24(7):1255-1269
- Qamheya Ala, Volkan Arisan, Mutlu Z and coworkers Thermal oxidation and hydrofluoric acid treatment on the sandblasted implant surface: A histologic histomorphometric and biomechanical study. **Clinical Oral Implants Research** 2018 Jul;29(7):741-755.
- Elçin Bedeloğlu, Selim Ersanlı, Volkan Arisan, Vascular endothelial growth factor and biphasic calcium phosphate in the endosseous healing of femoral defects: An experimental rat study. **Journal of Dental Sciences**. 7-13; 2017/3/31
- Murat Konak, Hakan Cincik, Evren Erkul, Zafer Kucukodaci, Atila Gungor, Sevim Ozdemir, Engin Cekin, Volkan Arisan, Mesut Mutluoglu, Murat Salihoglu. The protective effects of different treatments on rat salivary glands after radiotherapy **European Archives of Oto-Rhino-Laryngology** 4501-4506; 273;2016
- Selim Ersanlı, Volkan Arisan, Elçin Bedeloğlu. Evaluation of the autogenous bone block transfer for dental implant placement: Symphysal or ramus harvesting? **BMC Oral health**; 4; 16;2016
- Volkan Arisan, Zihni Cüneyt Karabuda, Selahattin Volkan Arıcı, Nursen Topçuoğlu, Güven Külekçi. A randomized clinical trial of an adjunct diode laser application for the nonsurgical treatment of peri-implantitis. **Photomedicine and laser surgery**. 547-554; 33;2015
- Arisan V, Karabuda CZ, Mumcu E, Özdemir T. Implant positioning errors in freehand and computer-aided placement methods: a single-blind clinical comparative study. **Int J Oral Maxillofac Implants**. 2013 Jan-Feb;28(1):190-204. doi: 10.11607/jomi.2691.
- Arisan V, Bölükbaşı N, Oksüz L. Computer-assisted flapless implant placement reduces the incidence of surgery-related bacteremia. **Clin Oral Investig**. 2012 Dec 6.
- Piskin B, Sipahi C, Karakoc O, Atay A, Ciftci F, Tasci C, Akin H, Arisan V, Sevketyoglu H, Turker T. Effects of complete dentures on respiratory performance: spirometric evaluation. **Gerodontology**. 2012 Jun 7. doi: 10.1111/j.1741-2358.2012.00687.x.
- Arisan V, Karabuda ZC, Avsever H, Ozdemir T. Conventional Multi-Slice Computed Tomography (CT) and Cone-Beam CT (CBCT) for Computer-Assisted Implant Placement. Part I: Relationship of Radiographic Gray Density and Implant Stability. **Clin Implant Dent Relat Res**. 2012 Jan 17. doi: 10.1111/j.1708-8208.2011.00436.x.
- Arisan V, Karabuda ZC, Pişkin B, Ozdemir T. Conventional Multi-Slice Computed

Tomography (CT) and Cone-Beam CT (CBCT) for Computer-Aided Implant Placement. Part II: Reliability of Mucosa-Supported Stereolithographic Guides.

Clin Implant Dent Relat Res. 2012 Jan 11. doi: 10.1111/j.1708-8208.2011.00435.x.

- Jawad Abdel-Haq , Cüneyt Karabuda, Volkan Arisan , Zihni Mutlu, Mehmet Kürkçü. Osseointegration and stability of a modified sand-blasted acid-etched implant: an experimental pilot study in sheep. **Clinical Oral Implants Research** 2011 March 218-9
- Cüneyt Karabuda, Volkan Arisan, Hakan Özyuvacı. Effect of sinus membrane perforations on the success of dental implants placed in augmented sinus **Journal of Periodontology**, 2006; 12: (77) 1991-1997
- Cüneyt Karabuda, Jawad Abdel-haq, Volkan Aisan. Stability, marginal bone loss and survival of standard and modified sand-blasted, acid-etched implants in bilateral edentulous spaces: a prospective 15-month evaluation. **Clinical Oral Implants Research** doi: 10.1111/j.1600-0501.2010.02065.x. (Early view)
- Volkan Arisan, Tayfun Özdemir, Ata Anıl, John Jansen, Kürşat Özer. Calcium phosphate cement around peri-implant dehiscence defects: A dog study. **International Journal of Oral and Maxillofacial Implants**. 2008; 23(6):1053-62.
- Volkan Arisan, Cüneyt Karabuda, Tayfun Özdemir, Implant surgery using bone- and mucosa-supported stereolithographic guides in totally edentulous jaws: surgical and post-operative outcomes of computer-aided vs. standard techniques. **Clinical Oral Implants Research** 2010 Sep;21(9):980-8.
- Volkan Arisan, Ata Anıl, Joop G Wolke, Kursat Ozer. The Effect Of Injectable Calcium Phosphate Cement On Bone Anchorage Of Titanium Implants: An Experimental Feasibility Study In Dogs. **International Journal of Oral and Maxillofacial Surgery** 2010 May;39(5):463-8.
- Volkan Arisan, Nilufer Bolukbasi, Selim Ersanli, Tayfun Ozdemir. Evaluation Of 316 Narrow Diameter Implants Followed For 5-10 Years: A Clinical And Radiographic Retrospective Study. **Clinical Oral Implants Research**. 2010 Mar;21(3):296-307
- Volkan Arisan, Cüneyt Karabuda, Tayfun Özdemir. Accuracy Of Two Stereolithographic Guide Systems For Computer-Aided Implant Placement: A CT -Based Clinical Comparative Study. **Journal of Periodontology**
- Hasan Gokce, Bulent Piskin, Deniz Ceyhan, Sila Gokce, Volkan Arisan. Shade matching performance of normal and color vision-deficient dental professionals with standard daylight and tungsten illuminants. **Journal of Prosthetic Dentistry**. 2010 Mar;103(3):139-47
- -Book chapters:
- Volkan Arisan, Biodegradation of Injectable Calcium Phosphate Bone Cements: A Dental Perspective in **Dental Implantology and Biomaterial**; Edited by Mazen Ahmad Jawad Amin Almasri; 2016; Intech Publishing Croatia. ISBN 978-953-51-2522
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- Volkan Arisan. Conventional - and Cone Beam – CT - Derived Stereolithographic Surgical Guides in the Planning and Placement of Dental Implants in **Computed Tomography – Special Applications** edited by Luca Saba, Intech Publishing Croatia. ISBN: 978-953-307-723-9

Publications in National Peer-reviewed Journals

- - Akay A., Arisan V., "Parsiyel Dişsiz Bir Hastada Radyo-Opak Tarama Protezi Üretimi Ve Bilgisayar Üzerinde Planlama: Bir Olgu Sunumu", Oral İmplantoloji Dergisi, cilt.13, no.1, ss.13-19, 2012
- Abdel-Haq J., Karabuda C., Arisan V., Mutlu Z., Kürkçü M., "Hidrofilik Kumlanmış-Asitlenmiş Yüzeyle İmplantların Histolojik Ve Histomorfometrik İncelemesi: Koyun Tibiasında Deneysel Çalışma", İstanbul Üniversitesi Diş Hekimliği Fakültesi Dergisi, cilt.44, ss.141-152, 2010
- Pişkin B., Gökçe H., Avsever H., Arisan V., Ataç M., "İmplant Destekli Sabit Protezlerde Protetik Başarısızlıklar: Dört Yıllık Çok Merkezli Retrospektif Analiz.", Oral İmplantoloji Dergisi, cilt.44, ss.75-80, 2010
- Arisan V., "Tam Dişsiz Alt Çenede Flepsiz İmplant Cerrahisi Ve Hemen Yükleme: Olgu Sunumu", İmplantTR Dergisi, cilt.12, ss.12-21, 2010
- Arisan V., "Rehberli İmplant Cerrahisi: Konvansiyonel Yöntemdeki Engelleri Aşabilir Miyiz", Diş Hekimliği Dergisi, cilt.3, ss.46-49, 2010
- Arisan V., Zeren C., Sezen C., Badalov E., "Yönlendirilmiş İmplant Cerrahisi İçin Üretilmiş İki Farklı Tipte Baryum Sülfat Tarama Protezinin Radyolojik Ve Klinik Karşılaştırılması.", Oral İmplantoloji Dergisi, cilt.10, ss.14-18, 2009
- Arisan V., Yıldırım E., "Basınca Duyarlı Okluzal Kağıtlarla Maksimum Isırma Kuvveti Tespiti: Fizibilite Çalışması", Oral İmplantoloji Dergisi, cilt.10, ss.26 - 32, 2009
- Pişkin B., Avsever H., Gündüz K., Karaçaylı Ü., Arisan V., "Oral İmplantolojide Protetik Başarısızlık: Mekanik Riskler", Oral İmplantoloji Dergisi, cilt.10, ss.8 - 13, 2009
- Pişkin B., Avsever H., Gündüz K., Karaçaylı Ü., Arisan V., "Oral İmplantolojide Protetik Başarısızlık: Restoratif Riskler", Oral İmplantoloji Dergisi, cilt.10, ss.6 - 12, 2009
- Ahmet S., Arıcı V., Karabuda C., Arisan V., "Travma Nedeniyle Kaybedilmiş Santral Dişin İmplant Destekli Zirkon Kuron İle Tedavisi: Vaka Sunumu", İmplant Dergisi, cilt.4, ss.26-31, 2009
- Arisan V., Ersanlı S., Karabuda C., Yıldırım E., "Yönlendirilmiş İmplant Cerrahisi İçin Radyolojik İnceleme Metodlarının Değerlendirilmesi", Oral İmplantoloji Dergisi, cilt.9, ss.41-45, 2008
- Arisan V., "İmplant Ve Üstyapı Elemanlarında Biyomekanik", Oral implantoloji Dergisi, cilt.9, ss.31-34, 2008
- Arisan V., Aral A., "Osseointegre Dental İmplantların Başarısında Sigara Ve Tütün Kullanımının Etkisi: Literatür Derlemesi", Oral İmplantoloji Dergisi, cilt.8, ss.28-33, 2007
- Karabuda C., Arisan V., Arıcı V., "Piezo Cerrahi Kullanılarak Kemik Ayırma Tekniği: Olgu Sunumu", Oral İmplantoloji Dergisi, cilt.8, ss.24-29, 2007
- Pişkin B., Arisan V., Gökçe S., "Geleneksel Renk Alma Ve Analiz Yönteminin İmplant Üstü Protetik Yapılardaki Estetik Sonuç Üzerine Etkisi: Sorunlar Ve Yeni Alternatifler.", Oral İmplantoloji Dergisi, cilt.8, ss.19-23, 2007
- Arisan V., Ersanlı S., Karabuda C., Özdemir T., "Geniş Çaplı İmplantların 4 Yıllık Klinik Takibi.", Türk Diş Hekimliği Dergisi, cilt.62, ss.229-233, 2005
- Arisan V., Kütan E., "İmplant Üstü Tam Seramik Post (Abutment) Ve Kuronlar.", Oral İmplantoloji Dergisi, cilt.8, ss.38-43, 2005
- Arisan V., Anıl A., Özdemir T., "Enjekte Edilebilir Kalsiyum Fosfat Esaslı Bir Greft Materyalinin

- ▶ Biyo-Erime Sürecinin Değerlendirilmesi.", Oral İmplantoloji Dergisi, cilt.6, ss.12-19, 2004
- ▶ Karabuda C., Tosun T., Olgaç V., Arisan V., "Deneysel Kemik Defektlerine Uygulanan Trikalsiyum Fosfat Esaslı Greft Materyalinin Histolojik Değerlendirilmesi : Deneysel Çalışma.", Oral İmplantoloji Dergisi, cilt.6, ss.11-18, 2004
- ▶ Tosun T., Arisan V., Yalçın S., Özdemir T., "Titanyum İmplantlarda Osseointegrasyon.", Oral İmplantoloji Dergisi, cilt.5, ss.34-37, 1998
- ▶ Tosun T., Arisan V., Yalçın S., Anıl A., Tunceli B., Tezcan S., Özdemir T., "Karbon Lifler İle Güçlendirilmiş Kompozitlerin Oral İmplantolojide Kullanımı.", Oral İmplantoloji Dergisi, cilt.5, ss.26-30, 1998

Oral Presentations in International Congresses and Meetings:

- Guided implant Surgery and techniques. FDI World Congress 2013, Istanbul, 11-13 August 2013, Istanbul Congress Center, Istanbul, Turkey
- Volkan Arisan, Z Cüneyt Karabuda, Emre Mumcu, Tayfun Özdemir. A controlled clinical trial analyzing implant malpositions in conventional and computer aided implant placement methods. Academy of Osseointegration (AO) Annual Meeting, March 8-11, 2011, Washington DC, USA
- Ozkan Cankaya, Serdar Yalcın, Volkan Arisan. The effect of implant surface characteristics to longevity. BASS, Istanbul, Turkey
- Volkan Arisan, Injectable calcium phosphate cement as a bone graft material around peri-implant dehiscence defects International Congress of Oral Implantologists ICOI, 23-25 August 2007, Hyatt Regency Embarcadero, San Francisco, California, USA (2nd place award by the ICOI scientific committee.)
- Volkan Arisan Flapless implant surgery using stereolithographic planning ICOI winter symposium 11-13 February 2008, , Las Vegas Nevada, USA
- Volkan Arisan, Nilüfer Bölükbaşı, Tayfun Özdemir. Bacteraemia following flapless implant surgery: preliminary results, Simplant Academy World Conference, 30-31 May 2008, Vienna, Austria.
- Volkan Arisan, Selim Ersanlı, Nilüfer Bölükbaşı. Narrow Diameter Implants: Ten Year Retrospective Analysis. International academy of Dental Research (IADR) 1-5 April 2009, Miami Beach Convention Center, Florida, USA

Poster Presentations in International Congresses and Meetings:

- Volkan Arisan, Ata Anıl, Selim Ersanlı, Cüneyt Karabuda, Binnaz Leblebicioğlu, 4 Year Follow of 50 Implants Placed by Osteotome Technique, Europerio 4, 19 – 21 June 2003, International Convention Center, Berlin, Germany (Abstract published in Journal of Clinical Periodontology supplementary issue)
- Cüneyt Karabuda, Volkan Arisan, Yusufhan Süoğlu, Endoscopic Visualization During Sinus Lifting Europerio 4, 19 – 21 June 2003, International Convention Center, Berlin, Germany

- Volkan arisan, Z. Cuneyt karabuda, Immediate loading in different indications. 12th Congress of the Bass Istanbul Turkey, 12-14 April 2007
- Cuneyt Karabuda, Volkan Arisan, Autogenous bone block harvesting from symphisal area. Case presentations. 12th congress of the Bass Istanbul Turkey, 12-14 April 2007
- Volkan Arisan, Cuneyt Karabuda, Hakan Ozyuvaci, Sinus membrane perforations and the effects on dental implants. International Symposium, Osteology Monaco, Grimaldi Forum, 10-12 Mayıs 2007 Monaco
- Volkan Arisan, Tayfun Özdemir, Ata Anıl, Kürşat Özdemir, John Jansen. Injectable calcium phophate cement around peri-implant dehiscence defects. European Academy Of Osseointegration (EAO) 25-27 October 2007, Barcelona, Spain (Abstract published in Clinical Oral Implants Research Supplementary Issue)
- Selim Ersanlı, Volkan Arisan, Nilüfer Bölükbaşı, Seven Years Follow of Narrow Diameter Implants: Preliminary Results 18th International Congress of Oral&maxillofacial Surgery, 14-18 November 2007, Bangalore, India (Abstract published in International Journal of Oral and Maxillofacial Surgery)
- European Academy of Osseointegration (EAO)18-20 September 2008, Warsaw, Poland (Abstract published in Clinical Oral Implants Research Supplementary Issue)
- European Academy of Osseointegration (EAO)22-24 September 2005, Munich, Germany (Abstract published in Clinical Oral Implants Research supplementary Issue)

Hobbies and interests:

- Sports: Advanced Skiing, snowboarding, kitesurfing.
- Core member of the Galatasaray Sports Club, Türkiye.
- Music: Intermediate piano and keyboard player.