

# 5<sup>th</sup> International Conference on Prosthodontics

August 17, 2023 | Webinar

## Scientific Tracks & Abstracts



# Sessions

Dental Implantation | Oral Cancer | Dental Anatomy

**Session Chair: Steven Glassman**

**Glassman Dental Care, USA**

## Session Introduction

**Title: Dental implant vs tooth transplantation in adolescence**

**Firdaus Hanapiah** | Avisena Multispecialty Hospital | Malaysia

**Title: Squamous cell carcinoma (SCC) of the tongue: Symptoms, staging and treatment**

**Gaurav Vishal** | Bareilly International University | India

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## Dental implant vs tooth transplantation in adolescence

**Firdaus Hanapiah**

Avisena Multispecialty Hospital, Malaysia

The loss or missing of a tooth presents the dental surgeon with a great challenge on how to restore a beautiful smile, especially for adolescents. Teeth are lost or missing due to various factors such as congenital or pre-existing genetic conditions. Early loss may also be indicative of trauma, caries or periodontal diseases. Such a situation may present a difficult choice to many clinicians as the options and treatment planning may be long, wrought with clinical problems. The treatment option could be replaced with dentures, temporary provisional bridges, tooth transplantations, orthodontics, or a combination of some or all of the above. Single or multiple implants with either crown or bridge may also be a solution. This paper will outline the pros and cons of either of these techniques. It will also show long-term follow-up cases for both transplanted tooth as well as implant cases.

### Recent Publications:

1. Yunus, Norsiah & Abdullah, Hadijah & Hanapiah, Firdaus. (2001). The use of implants in the occlusal rehabilitation of a partially edentulous patient: A clinical report. The Journal of prosthetic dentistry. 85. 540-3. 10.1067/mpr.2001.115875.

### Biography

Firdaus Hanapiah graduated from the University of Otago, New Zealand in 1990. In 1993 he then joined the Eastman Dental Hospital, University College London where he was a part-time honorary senior house officer. In 1996 he completed an MSc in Oral Surgery from the Eastman and was awarded the Fellowship in Dental Surgery of The Royal College of Surgeons of England Surgeon, England. He then once again returned to Malaysia to take a position as a lecturer at the Dept of Oral and Maxillofacial Surgery, Faculty of Dentistry, University of Malaya. He is now in private practice based in the Avisena Specialist Hospital, in Shah Alam, Selangor, Malaysia, as the consultant Oral & Maxillofacial surgeon as well as head clinician for the Firdaus and Sharina Dental Clinics as well as the Bangsar Dental Specialist Centre and Consultant OMFS Surgeon for the Smile Clinic Group as well as the Glam smile Dental Specialist Centre in the Klang valley. He was a member of the Malaysian Dental Council from 2017-2020. He has since placed more than 6000 dental implants. He is also a pioneer in the field of virtual surgery in the surgical placement of implants.

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## Squamous cell carcinoma (SCC) of the tongue: Symptoms, staging, and treatments

**Gaurav Vishal**

Bareilly International University, India

**Introduction:** Squamous cell carcinoma (SCC) of the tongue is one of the most common oral cavity cancers, accounting for 30 to 50% of all oral carcinomas. Surgical therapy is the main treatment option for tongue cancer, while radiotherapy and chemotherapy are adjuvant therapy depending on the stage and histopathological characteristics. The purpose of this study was to evaluate the staging (AJCC 8th edition) and surgical management of squamous cell carcinoma of the tongue.

**Methodology:** 48 histopathologically proven cases of squamous cell carcinoma of the tongue were included in the present study. Recurrent cases and prior treatment of tongue cancer by chemotherapy and radiotherapy were excluded. All the patients involved in the study underwent tumor resection with neck dissection.

**Results:** A total of 48 patients were staged as per TNM criteria (AJCC 8th edition). 52.08% of patients were pathologically node-negative (pn0). In pathologically node-positive (pn+) patients N2 Category was the highest followed by N1 Category and N3 Category. The percentage of T1, T2, T3, and T4 lesions were 12.50, 47.91, 29.17, and 10.42% respectively. The lymph node positivity was maximum in T4 followed by T2 and T3. Final histopathological stage grouping revealed early-stage (stage I and II) disease in 17 (35.42%) patients and advanced-stage (stage III and IV) disease in 31 (64.58%) patients. 13, 31 and 4 patients were treated by surgery alone, surgery with postoperative radiotherapy and surgery with postoperative CRTT respectively.

**Conclusion:** This study concluded that the Majority (64.58%) of the patients had been diagnosed with advanced-stage of carcinoma. Histopathology reports demonstrated that most of the patients had well-differentiated squamous cell carcinoma. Four (8.33%) patients were pathologically node-positive with extranodal extension (pn+/ENE+). Stage I and II (Early stage) patients were treated mainly by surgery alone and stage III and IV (advanced stage) patients were treated with combination therapy.

### Recent Publications:

1. Ahmed S, Shah Nawaz K, Mandal TK, Ghafir M, Gummaluri SS, Vishal G. Comparative evaluation of antimicrobial efficacy of herbal formulations of septicin and triphala with conventional 2% chlorhexidine on root canal and oral commensal bacteria using Kirby-Bauer method: An in-vitro study. *Contemp Clin Dent* 2022;13:383-8.
2. Vishal G, Dandriyal R, Indra BN, Singh HP, Chaurasia A. Response letter to the "Letter to editor:" to our article-A Comparative study of the anaesthetic efficacy of 4% articaine versus 2% lidocaine with adrenaline during extraction of mandibular molars using an inferior alveolar nerve blocking technique. *The British Journal of Oral & Maxillofacial Surgery*. 2022 May;60(4):528.
3. Saxena S, Giri KY, Sharma P, Niranjanaprasad IB, Dandriyal R, Abhishek K, Vishal G. Comparative Assessment of Clinical and Quality of Life Outcomes in Mandibular Angle Fractures Treated with Standard and Three-Dimensional Mini-Plates. *Journal of Maxillofacial and Oral Surgery*. 2022 Feb 20:1-7.
4. Vishal G, Dandriyal R, Singh HP, Chaurasia A. Comparative study of the anaesthetic efficacy of 4% articaine versus 2% lidocaine with adrenaline during extraction of mandibular molars using an inferior alveolar nerve blocking technique. *British Journal of Oral and Maxillofacial Surgery*. 2021 Sep 1;59(7):783-7

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**Biography**

Gaurav Vishal is an Oral and Maxillofacial Surgeon (M.D.S), Fellow in Oral Oncology and Reconstructive Surgery. He completed his M.D.S- Oral and Maxillofacial Surgery from the Institute of Dental Sciences, Bareilly International University, Bareilly, India in 2020 and his Fellowship in Oral Oncology and Reconstructive Surgery from Rohilkhand Medical College and Hospital, Bareilly, India in 2021 under the guidance of Dr. Arjun Agarwal (Surgical Oncologist) and Dr. Anurag Yadav (Oral, Onco & Reconstructive Surgeon). He has received the Emerging Oral Onco Surgeon Award from Hanuman Prasad Poddar Cancer Hospital & Research Institute, in collaboration with Indian Medical Association, Lucknow, India. He has participated in international conferences as a Speaker and Moderator. He is an expert in the field of Facial Trauma, Surgical Pathology, Oral Oncology, and Reconstructive Surgery. He has several International and National Publications to his credit. He is a member of the Association of Oral and Maxillofacial Surgeons of India.

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# Sessions

Digital Dentistry | Orthodontics | Dental Implants

**Session Chair: Alexander Budovsky**

Budovsky Educational Centre, UAE

## Session Introduction

**Title: Digital patient concept**

**Andrea Bevilacqua** | State University of Milan | Italy

**Title: Application of current 3D technologies in orthodontics**

**Alexander Plaksin** | Reformat Clinic | Turkey

**Title: Evaluation of applying negative pressure in two different methods on the retention in upper complete dentures**

**Nour Mayhoub** | Manara University | Syria

**Title: Comparative evaluation of the microscopic changes at the glass fiber reinforced post-resin cement interface with silane and three different chemical pre-treatments using scanning electron microscope**

**Vaibhavi Belwalkar** | Sanjivani Hospital | India

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## Digital patient concept

**Andrea Bevilacqua**

State university of Milan, Italy

Nowadays it is easy to hear about digital dentistry. It starts with the purchase of an intraoral scanner, then a cbct, and then a milling machine or a 3d printer. But the real problem is the management of 3d data within our studio and the organization over time. The solution is the digital patient™ i.e., the digital bio copies of the real patient. The basic unit is made up of the 3d master files, i.e., intraoral and extraoral 3d data joined together through an alignment performed during the scanning phase. To the basic unit which by convention we call digital patient™ zero, other 3d files are gradually added, such as a surgical template, a bite, a wax-up, a crown, etc. There is no limit to files that can be added and aligned to the 3d master files. The digital patient™ 3d master files must be updated whenever there is a change in the patient's mouth: for example, an avulsion or a dental filling. The fundamental concept is the update of the digital patient™ which allows you to have the updated version of the patient with you to monitor over time. Emergencies can be managed intelligently and quickly: if the patient is on vacation, it is possible to send the most updated version of the digital patient™ via email and allow the patient to choose the closest colleague for treatment. The digital patient allows you to perform diagnoses, projects, and checks asynchronously: anywhere and anytime. It is a game changer in the digital dentistry of the future.

### Recent Publications:

1. Bevilacqua, Andrea & Pulcini, Maria & Vitelli, Carlo Alberto & Dian, Arturo & Austoni, Clotilde. (2020). Riabilitazione orale di un paziente con bruxismo e diminuzione della dimensione verticale Caso clinico.
2. Vitelli, Carlo Alberto & Dian, Arturo & Bevilacqua, Andrea & Pulcini, Maria & Austoni, Clotilde. (2020). Riabilitazione estetica e funzionale di un paziente con usura dentale. Caso clinico e procedura
3. Pulcini, Maria & Goñe Benites, Juan & Scagnelli, Alberto & Bevilacqua, Andrea & Dian, Arturo & Basso, M. (2019). Prevenzione e Trattamento dell'ipersensibilità Dentinale a seguito di Estrazione di Terzi Molari inclusi. Un Approccio Biomimetico.

### Biography

Andrea is a Freelance dentist and expert in digital dentistry. He graduated from the State University of Milan in 2020. He is the Creator and CEO of the revolutionary concept Digital Patient®. He is also an active member of the Digital Dentistry Society and SIPRO. He serves as a Key Opinion Leader for Medit. Andrea has also published the book "Digital Patient in Dentistry", 2020. He Promotes technological solutions and new concepts in digital dentistry including the Perfect Smile Concept, Tartar Q, and parodontok.

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## Application of current 3D technologies in orthodontics

**Alexander Plaksin**  
Reformat Clinic, Turkey

**Statement of the Problem:** The traditional two-dimensional imaging methods in orthodontics have limitations in providing a complete understanding of the complex three-dimensional anatomy of craniofacial structures. The advancement of 3D imaging technologies, such as Cone Beam Computed Tomography (CBCT) and the integration of Artificial Intelligence (AI) services, offer a promising solution for overcoming these limitations, enabling more accurate diagnostics and improved treatment planning.

**The purpose of this study:** This research aims to provide a comprehensive overview of the current 3D technologies and their practical application in orthodontics, with a specific focus on CBCT diagnostics and AI services. Through the presentation of clinical cases, will demonstrate the importance of utilizing 3D imaging for diagnosis and evaluation of treatment outcomes, showcasing the benefits of these advanced technologies in daily orthodontic practice. The key topics will include an introduction to 3D technologies, digital diagnostic, and planning tools, the relationship between the temporomandibular joint (TMJ) and craniofacial morphology and asymmetry, and clinical cases with 3D superimposition of CBCT images for outcome assessment.

### Recent publications:

1. Bazargani, Farhan & Knode, Vanessa & Plaksin, Alexander & Magnuson, Anders & Ludwig, Björn. (2023). Three-dimensional comparison of tooth-borne and tooth-bone-borne RME appliances: a randomized controlled trial with 5-year follow-up. *European journal of orthodontics*.
2. Orhan, K., Shamshiev, M., Ezhov, M. et al. AI-based automatic segmentation of craniomaxillofacial anatomy from CBCT scans for automatic detection of pharyngeal airway evaluations in OSA patients. *Sci Rep* 12, 11863 (2022)
3. Martin, Domingo & Arraiz, Javier & Lilly, Pablo & Plaksin, Alexander. (2021). Orthodontic treatment with skeletal anchorage of a severe hyper divergent retrognathic patient. *AJO-DO Clinical Companion*. .

### Biography

Alexander Plaksin, D.M.D., M.S., is an orthodontist with 15 years of experience, specializing in advanced imaging and complex case management. An active member of the AAO and WFO, he has held key positions at Diagnocat, and Dexis. As an Orthodontic Product Lead at Diagnocat, he developed algorithms for 2D and 3D image labeling and contributed to orthodontic IT products. At Dexis, he created an educational workshop on Computer Tomography diagnostics and provides training for orthodontists. With expertise in medical image processing, including Optical scans, CBCT, MSCT, and MRI is dedicated to incorporating cutting-edge technology in orthodontic practice and is a sought-after expert and educator in the field.

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## Evaluation of applying negative pressure in two different methods on the retention in upper complete dentures

**Nour Mayhoub and Mahmoud Mahmoud**  
Manara University, Syria

**Aim:** This study aims to evaluate the effect of applying resilient liners on the internal surface of the upper complete dentures in two different methods by forming negative pressure which increases the retention in upper complete dentures and comparing the upper dentures retention values before and after methods application.

**Materials and Methods:** Twenty follow-up edentulous patients have been selected from the removable prosthodontics department, Faculty of Dentistry, Tishreen University patients, to have their new complete dentures. In the first method, an auto-polymerized soft resilient liner was applied to the upper complete denture's internal surface in form of mini suction cups with specific diameter and depth, and these mini suction cups look-alike octopus tentacles and can form a negative pressure on the denture bearing mucosa. The second method works on applying the soft resilient liner in parallel to dentures borders in a specific width and thickness, afterward, retention was measured in kilogram units using a digital retention measurement device, medians were calculated from obtained results to be compared with values of retention for the two methods and the retention value of the witness denture bases before two methods application.

**Results:** There were statically significant differences between mean values of retention before and after the application of two methods compared to witness denture bases.

**Conclusion:** From the obtained results we can conclude that the soft resilient liner application in the two methods may contribute in increasing retention values in upper complete dentures.

### Recent Publications:

1. Mayhoub.N, Evaluation of applying negative pressure in two different methods on the retention in upper complete Dentures, thesis, (2022), Tishreen University
2. Mahmoud Ahmad, Mahmoud Mahmoud, A clinical comparative study to Evaluate soft liners' efficacy as final impression material in the retention of upper complete dentures' bases, Tishreen University Journal -Medical Sciences Series: Vol. 44 No. 3 (2022)
3. Walaa Herbaly, Mahmoud Mahmoud, Mohamad samir al-brzawi, Comparison of some physical and mechanical properties of CAD/CAM acrylic resins with heat-cured acrylic resins after exposure to artificial saliva (an in vitro study), Tishreen University Journal -Medical Sciences Series: Vol. 45 No. 2 (2023).

### Biography

Nour Mayhoub is a researcher that is very passionate about removable prosthodontics and enhancing the quality of dentures, and she a pivoted to teaching removable prosthodontics to dental students, she is looking forward to starting her Ph.D. in removable prosthodontics, she was also privileged to Join WHO HQ internship program in Public Health.

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## Comparative evaluation of the microscopic changes at the glass fiber reinforced post-resin cement interface with silane and three different chemical pre-treatments using scanning electron microscope

**Vaibhavi Belwalkar**  
Sanjivani Hospital, India

**Statement of problem:** Loss of retention has been cited to be the most common cause of the failure of post-retained restoration with irreversible consequences especially when materials with different compositions are in intimate contact at the post-resin interface. The weaker adhesion at the post-resin interface may be due to a lack of strong chemical bonding between resin luting agents and the polymerized epoxy matrices of fiber-reinforced posts.

**Aim:** The purpose of this study is to compare the effect of the chemicals namely silane(S), hydrogen peroxide(H<sub>2</sub>O<sub>2</sub>), hydrofluoric acid (HF), and potassium permanganate(kmno<sub>4</sub>) that can enhance the adhesion at the post-resin interface and to investigate their morphologic aspect using a scanning electron microscope (SEM).

**Material and Methods:** 100 glass fiber-reinforced posts (DT light posts) were divided into four groups (n=25) namely, Group A: Salinization, Group B: Treatment with 20% vol kmno<sub>4</sub> followed by salinization, Group C: Treatment with 4%HF followed by salinization, Group D: Treatment with 10%H<sub>2</sub>O<sub>2</sub> followed by salinization. These specimens were bonded with a dual polymerizing resin-based luting agent (Calibra), and subjected to a shear load at a cross-head speed of 1mm/min until failure, using a universal testing machine (Instron 4467). Means and standard deviations were calculated using analysis of variance (ANOVA). Further SEM analysis was done to study the characteristics of the post-resin interface.

**Results:** Dissolution of the epoxy resin matrix occurred in each of the four groups except for Group A which showed poor ultrastructural changes respectively.

**Conclusion:** A combination of chemical pre-treatments followed by salinization enhanced the bond strength at the post-adhesive interface.

### Recent Publications:

1. Comparison of evaluation of the sealing ability of bio dentine carried out under three different working conditions using glucose penetration method – An In-vitro stud—European Journal of Molecular and clinical medicine,2020, Volume 7, Issue 7, Pages 1684-1691.
2. Belwalkar VR, Gade J, Mankar NP. Comparison of the effect of shear bond strength with silane and other three chemical surface treatments of a glass fiber-reinforced post on adhesion with a resin-based luting agent: An in vitro study. Contemp Clin Dent. 2016 Apr-Jun;7(2):193-7.
3. Title for ebook: “RESTORATION OF EXTENSIVELY DAMAGED TEETH.” A Book through LAMBERT PUBLISHING ACADEMY (2014).

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**Biography**

A self-motivated and energetic speaker, a creative person with a goal-oriented approach working for reputed institutions. She has represented as a team leader and master of ceremonies for several continuing dental education projects and workshops. Her efforts in improving the student experience as a guide and mentor have helped her to achieve a reputation for transparency and innovation. With more than 12 years of experience in prosthetic and cosmetic dentistry, she is adept in maxillofacial rehabilitation, the development of occlusion, corrections of TMJ, and removable or implant-supported dentures. She has enormous contribution to the Indian Prosthodontic Society (IPS) and is an award winner for varied clinical research and digital reviews held at national and international conventions. Her research work received excellent feedback which was acknowledged in the journal published by Elsevier. Her e-book through Lambert publishing academy held immense responses internationally on Amazon. She is open to expanding her services and footprint at a global level.

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# Sessions

Dental Hygiene | Fixed Dental Prosthesis | Endodontics | Prosthodontics

## Session Introduction

**Title:** **Let's face It: Recognizing facial & oral deficiencies from the neck up**

**Lacy Walker** | Shared Hygiene LLC | Germany

**Title:** **Fully guided full arch implant reconstruction**

**Tarek Assi** | Alpha dental practice & Implant center | USA

**Title:** **Teledentistry and AI: Going to minimalistic dentistry in the new era of medicaldental integration**

**Andrea Basualdo Allende** | Catholic University of Maule | Chile

**Title:** **Effect of two irrigants on adaptability of cross-linked gutta-percha core**

**Nirvana Khalaf Mansour** | Cairo University | Egypt

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## Lets face it: Recognizing facial & oral deficiencies from the neck up

### Lacy Walker

Shared Hygiene LLC, Germany

Have you looked at someone and thought they could be deficient? This course will demonstrate how we can recognize deficiencies in sleep, vitamins, minerals, oxygen, and water by looking at the neck, face, and oral cavity. The face tells a story of how well our airway is currently and while it was developing during childhood, our current dietary choices and deficiencies, how well we sleep today, and if we are deficient in obtaining optimal water intake. Many factors are associated with a patient's overall health, and recognizing the facial and oral signs of deficiencies is paramount in helping patients achieve overall health.

### Learning Objectives:

- Learn about the various causes and risk factors associated with facial and oral deficiencies as it relates to oral-systemic health.
- Understand the role of interdisciplinary collaboration among healthcare professionals in treating facial and oral deficiencies.
- Discover preventive measures and oral hygiene practices to minimize the risk of facial and oral deficiencies.
- Assess the dental patient for airway issues that could affect a person's life span.

### Recent Publications:

1. Brodsky, L. (1989). Modern Assessment of Tonsils and Adenoids. *Pediatric Clinics of North America*, 36(6), 1551-1569.
2. APA Dictionary of Psychology: Orthorexia Nervosa (no date) American Psychological Association.
3. Botelho, J., Machado, V., Proença, L., Delgado, A. S., & Mendes, J. J. (2020). Vitamin D Deficiency and Oral Health: A Comprehensive Review. *Nutrients*, 12(5), 1471.

### Biography

Lacy Walker is a registered dental hygienist, speaker, writer, and Owner of Shared Hygiene, LLC, with 25 years of experience in the dental field working in cosmetic, DSO, periodontal, and Psychiatric hospitals. She is the CE Director for A Tale of Two Hygienists podcast, a Fellow with the American Academy of Oral Systemic Health (AAOSH), an approved provider of continuing education, and the Public Relations Chair for the American Academy of Dental Hygiene (AADH), and one of the founding members of RDH Connect. She is a Certified Oral-Systemic Educator and is published in RDH Magazine, Dental Academy of Continuing Education, dr bicuspid, and rdh connect.

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## Fully guided full arch implant reconstruction

### Tarek Assi

Alpha dental practice & implant center, USA

A large portion of us population today is edentulous. It is estimated that over 23 million individuals are completely edentulous and 12 million are edentulous in one arch. In addition to that, we have a growing population with terminal dentition conditions. Traditionally, these patients were treated with staged implant placement and delayed loading. Such a traditional approach requires multiple surgeries and a longer treatment time. Consequently, the traditional treatment approach is associated with increased morbidity and longer healing periods. Utilizing this digital workflow for implant reconstruction to treat patients with terminal dentition and those who are fully edentulous will significantly increase predictability, and precision, and reduce treatment chair side time which overall increases patient satisfaction.

### Biography

Assi earned his doctor of dental medicine degree from nova southeastern university in Florida where he also finished a post-graduate residency enhancing his skills in surgery and prosthodontics. His commitment to education and his passion for implant dentistry led him to pursue additional training in dental implantology at the prestigious Misch implant institute where he graduated as a fellow with a dual certification in implant surgery and implant prosthodontics. He holds a diplomate status with the American Board of Oral Implantology, a diplomate status with the international congress of Oral Implantologists, and a diplomate status with the international dental implant association. He is a fellow of the American Academy of implant dentistry and a fellow of the Academy of general dentistry. Also, he received fellowship and mastership implant certifications with dentalxp. He has given lectures nationwide and internationally. Also, he published several articles in implant dentistry. He also established a local study club, as he believes that sharing knowledge and experiences among clinicians will benefit patients tremendously. Also, he is faculty at the Salama implant institute of Miami. Currently, he practices implant dentistry at alpha dental practice & implant center which he founded over a decade ago utilizing a prosthetic-driven approach, a digital workflow, and cutting-edge technology. He enjoys giving back to the community and participates in dental missions nationally and overseas.

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## Tele dentistry and AI: Going to minimalistic dentistry in the new era of medical-dental integration

**Andrea Basualdo Allende**

Catholic University of Maule, Chile

The isolation of dentistry from the general healthcare system has got a change since the COVID-19 pandemic, which showed us, that any oral health problem, can worsen the overall health of the patient, complicating a previous systemic condition. The current dental practice is focused on the disease more than the causes, without considering personal characteristics. The incorporation of P4 to achieve interconnected health will be of great help: precise, personalized, preventive, and participatory. Integrating this medical principle into oral health would give a multidimensional view, as in Medicine. The applications of M-health, allow to monitor of oral health, reinforce the control of bacterial plaque, and provide support and guidance for post-surgery patients. This will lead to improved clinical decision-making, increase the effectiveness of clinical treatments, efficiency and expand access to care, while increasing prevention, especially in the management of chronic diseases. An artificial intelligence platform could serve as the first legitimate clinical decision-making tool, AI-powered tele dentistry can allow dentists in the future to remotely consult with the physician and patients, with implemented intraoral cameral, doing telepresence. AI and machine learning in dentistry would benefit when a standard for the content of validation datasets, and nonbiased algorithmic interpretation occurred. Developing a certification program for dentists and physicians to properly use AI in their practice will help to meet the standard of quality and safety needed to use AI responsibly and ethically. The use of Tele dentistry and AI can really help medical-dental integration, making a learning healthcare system, leading to precision oral medicine and the reduction of mistakes for delayed decisions of lack of the right specialist, for the benefit of the patient and giving person-centered care. Still remain work to do, but the future is now.

### Biography

Andrea Basualdo has been a dentist for more than 12 years and has medical studies. Quality Auditor of Healthcare Institutions. Trained in Health Management, clinical restorative restorations, and Endodontic specialist. MBA specializing in Health, training in Digital Health, Quality, Accreditation in Healthcare, and Infections associated with Health care. Experience in control and auditing of dental quality care. Participation in clinical meetings with dental risk prevention it's at the European level, sharing good practice.

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## Effect of two irrigants on adaptability of cross-linked gutta-percha core

**Nirvana Khalaf Mansour**

Cairo University, Egypt

**Objective:** The objective of this study was to evaluate the effect of two irrigants, Nano silver, and QMIX 2IN1 on the adaptability and seal ability of gutta-core.

**Materials and methods:** A total number of 120 extracted human straight single-rooted premolars were collected. Root canals were cleaned and shaped using the crown-down technique to a master apical file size of 40. Samples were divided into three groups (n=40) according to the irrigating solution: G1, 5.25% naocl; G2, Nano silver; G3, QMIX 2IN1. Each group was subdivided into two subgroups according to the obturation materials. Subgroup A, Gutta-Core, and subgroup B, Thermafil. Stereomicroscope and fluid filtration methods were used to evaluate the adaptability and seal ability of Gutta-Core and Thermafil. Data were statistically analyzed using one-way ANOVA.

**Results:** Regarding the obturating materials, Gutta-Core showed statistically significantly higher adaptability mean values than Thermafil. The apical level of the root canal showed the highest leakage than the middle and coronal levels.

**Conclusion:** QMIX 2IN1 and Nano silver irrigants enhance the adaptability of obturating material. Gutta-core is a promising obturating material. Adaptability is a problem with the apical third of the root canal.

**Keywords:** Adaptation, Gutta-core, Fluid filtration, Nano silver, qmix, Stereomicroscope, Thermafil.

### Recent Publications:

1. Fayyad, Dalia & Khalaf, Nirvana. (2023). Reparative calcified barrier characterization after mixing injectable-platelet rich fibrin with bioactive direct pulp capping agents; an exp. Study. 2. 89-98.
2. Khalaf, Nirvana & Fayyad, Dalia & Sharaan, Marwa & Hashem, Mohamed. (2021). Effect of Injectable-Platelet Rich Fibrin on marginal adaptation of Bioactive Materials Used as Direct Pulp Capping; An Experimental Animal Study. 2.

### Biography

Nirvana k. Mansour, an endodontic specialist. She graduated from Cairo University, in 2009 with a bachelor's degree. She earned her master's Degree in endodontics in 2016 and a Ph.D. Degree in 2021. She represented as a speaker at a pan-endo international conference and as a speaker at the yrc2021 conference, Speaker at the Suez dental syndicate scientific day 2021, Speaker at the Ismailia dental syndicate scientific day 2022, speaker at International Dental Expo & Clinical Congress 2022. She serves as a member of the scientific committee of Princess Fatma Academy, Ministry of Health.

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