

#### CONTENTS:

Case Report: Gingival Pigmentation and Excessive Gingival Display.....	1
New Periodontists.....	4
Implant Dentistry Practice and Eligibility in Saudi Arabia.....	7
The Densah Bur Technology.....	10
SSP Community Scientific Output.....	12

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#### Issue. 2

July 2020



#### Dear colleagues,

Here we meet again at the second issue of our newsletter which is now in your hand hoping that it will convey you as before, interesting information.

In this issue, we included a new section pertaining the recent scientific achievements from our professional community.

I would like to acknowledge all my colleagues who contributed to this effort in preparation, writing, editing or providing the essential information. Along with the rest of the other sections, we hope that the material we present you today will bring us more closer together.

**Dr. Adnan Almaghlouth**

# PROTOCOL TO IMPROVE ESTHETICS BY TREATING GINGIVAL PIGMENTATION AND EXCESSIVE GINGIVAL DISPLAY

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## INTRODUCTION

Smile is a basic determinant of esthetics and attractiveness. The harmony and symmetry of an esthetic smile is defined by several aspects which include; tooth position, size, shape, and color. In addition, other factors related to gingival tissue appearance such as color and amount of gingival tissue display and finally, framing of upper and lower lips including thickness and shape is essential factor to complete esthetically accepted dental smile <sup>1</sup>. Gingiva is considered the most frequently pigmented tissue in the oral cavity <sup>2</sup>. Gingival pigmentation is defined as the discoloration of the gingival tissue due to a variety of lesions and conditions associated with either endogenous or exogenous etiologic features <sup>3</sup>. It may range from physiologic reasons (e.g. racial pigmentation) or related to use of application of several chemicals (e.g. nicotine induced pigmentation), or manifestations of systemic illnesses (e.g. Addison's disease), or malignant neoplasms (e.g. melanoma and Kaposi's sarcoma). It is essential to understand the cause of a mucosal pigmentation and understand whether this pigmentation is reversible or not before planning the treatment of such lesion <sup>4</sup>. Furthermore, the normal smile is that with 1-2 mm of gingival display from the lower border of upper lip to the gingival margin of maxillary central incisors. Gingival display of 2-3mm is mostly considered acceptable however more than 4 mm can be defined as excessive gingival display (EGD) that may be not esthetic for most of patients<sup>1</sup>. EGD is a mucogingival deformity characterized by the display of the whole length of maxillary central incisors crowns with a continuous band of gingiva during smiling or speaking <sup>5</sup>. EGD is one of the most common esthetic chief complaint in dental clinic which have a negative impact on the patient esthetically, psychologically, as well as socially. EGD can be related to several etiologies and causes, hence, it should be diagnosed properly to be corrected by several approaches accordingly<sup>5</sup>. Etiologies of EGD includes altered passive eruption, vertical maxillary excess, hyper mobile lips, plaque or drug induced gingival enlargement, short upper lip and asymmetrical upper lip <sup>6-8</sup>. The present case provides a step by step protocol to treat cases associated with combination of factors affecting the esthetics of a smile from periodontal aspect including pigmentation and EGD and will further explain how to improve esthetics as well as maintaining periodontal health status outcomes.



Fig 1. Pre-operative Intra-oral view



Fig 2. Two months after Gingivoplasty

## Overview

A 38-year-old female patient reported with a chief complaint of small dark pigmentations that are scattered on her gingiva as well as a gummy smile. The pigmentations were noticed from the patient for more than a year and EGD was present almost through her whole entire adult life. The patient's medical history was non relevant, and she does not use any type of tobacco products. Patient mental status was classified as Philosophical<sup>9</sup>. Upon extra-oral examination, patient presented with symmetrical facial proportion, TMJ and lymphatic nodes within normal limits. Intraoral examination revealed good oral hygiene (OHI-S 0.8) with several pigmented areas around the attached and marginal gingiva. Gingival display was around 8 mm upon smiling illustrating a subclass III of lip hypermobility<sup>8</sup>. The patient had no need for any of orthodontic treatment nor active treatment was done and the periapical as well as Panoramic radiographic images showed alveolar bone 2-3 mm apical from the CEJ with disproportionate gingival margins indicating a type 1-A of altered passive eruption<sup>10</sup>.

(Fig. 1)

## Surgical protocol

A consent form was prepared explaining all aspects of treatment and possible complications after thorough discussion with the patient. Surgical treatment that was divided into three sequential procedures separated by at least two months: Depigmentation, Gingivectomy, and Lip repositioning.

## Anesthesia

For all procedures, Topical application of Benzocaine followed by local anesthesia administration of 2% Xylocaine, 1/100, 000 Epinephrine as the labial and lingual infiltration, amount of carpools ranged between 1-2 carpools based on procedure done.

## A-Gingivoplasty (Depigmentation)

Procedure was carried out using a medium sized round diamond bur with a high-speed hand piece for gingivoplasty to remove the full epithelial layer in a uniform thickness to assure in attempt to remove the deepest layer of epithelium (*Stratum Basale*) which contains the melanocytes<sup>11</sup>. This was performed in a parallel shaving motion with light pressure extending from #14 to 24 and around the gingival margins and papilla. No periodontal dressing was applied to surgery area and patient was instructed to take ibuprofen 400mg when needed and was scheduled for 1 week follow up post-surgery which revealed un-eventful healing.

(Fig. 2)

## B-Gingivectomy (Soft tissue Crown Lengthening)

After two months, the patient was reevaluated and prepped for her second chief complaint (EGD). Proper teeth proportion were evaluated and bone sounding along with radiographic interpretation was done to evaluate the level of cemento-enamel junction (CEJ) from crestal bone level. Furthermore, length and width of anterior teeth was taken to calculate the amount necessary for gingivectomy. Using the golden proportion, tooth width percentage in the area between 78% - 80% was the targeted as well as shape and position of Zenith<sup>10</sup>. Based on findings, Gingivectomy was indicated as a soft tissue crown lengthening for #12-22. The procedure was carried out on teeth #12-22 using a #15 C blade with an external beveled incision at 45° angle an average of 0.5mm of tissue was excised. Patient was given post-operative instructions and ibuprofen 400mg *t.i.d.* for three days as an analgesic without any periodontal dressing. Lastly, one week follow up revealed uneventful healing. (Fig.3)



Fig 3. Two months after gingivectomy. Note the gingival display during smiling



Fig 4-6 Lip reposition surgery.  
Fig 6. Site of muscle dissection prior to periosteal sutures

### C- Lip repositioning

During the two months follow up after gingivectomy. The patient was satisfied with her results. However, she was more conscious about her EGD and her thin lip appearance when smiling. The surgery was carried out by calculating the amount of gingival display during smiling on each tooth (average 8 mm) and then doubling this number to achieve the amount of tissue to be removed. The excised tissue would begin coronally from the muco-gingival junction and extend apically about 16mm on the labial mucosa. Using the number 15 blade a split thickness incision was made from molar to molar on the mesial maxillary area. Following the tissue band excision, the levator labii muscles on the corner of the mouth around the canines were cut horizontally and periosteal simple interrupted 5-0 (Vicryl, Ethicon Inc. USA) resorbable sutures was made in attempt to stabilize the dislocated muscle in new position (Fig. 6). The remaining surgical sites was sutured with (Proline, Ethicon Inc. USA) non-resorbable sutures 5-0 and 6-0 as interlocking continuous sutures followed by 8 simple interrupted sutures in attempt for obtaining proper closer of wound's site. The patient was given post-operative instructions and ibuprofen 400mg *t.i.d.* for three days as an analgesic as well as prednisolone 25mg for 5 days. A surgical tape (Micropore, 3M. USA) was placed on patient's upper philtrum in order to help patient to minimize upper lip movement during the first three post-operative days. (Fig. 4-7)

The patient was seen every week for 3 weeks post-surgery. At two weeks follow up, non-resorbable sutures were removed. Furthermore, she was seen for recall intervals in 3 and 7 months reporting with satisfaction and stable results with little if any relapse on her smile. The patient is still under regular follow ups and reported satisfaction with the outcomes. (Fig.8 & 9)



Fig. 7. Immediate post-operative



Fig. 8. Two months follow up

### Discussion and Conclusion

Proper assessment and reaching correct diagnosis is the essential key to treat esthetic cases from periodontal and restorative aspects. In such cases, it is crucial to exclude any need for other disciplines at assessments stage such as surgery, orthodontic treatment or restorative treatment. Additionally, it should be noted that it is crucial to understand that certain procedures including the ones performed in the present case might have a chance of relapse. Therefore, It is essential to be aware of percentages and causes of possible relapse and discuss this possibility with the patient. This will further enhance long term predictability and by that patient's satisfaction. Finally, efforts have been done in all series of surgeries to reduce this possible relapse including; proper removal of all epithelial layer during gingivoplasty, proper evaluation of CEJ-crestal bone distance and selecting correct classification of the case before attempting crown lengthening and finally, a modification including releasing of levator labii muscles and adding periosteal sutures during lip-repositioning surgery.



Fig 9. Displaying the smile after 7 months following lip reposition surgery

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The Saudi Society of Periodontology is pleased to welcome our new periodontists and wish them all the best

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**Dr. Ady Ahmed Azhari**

**Current working place:** King Abdulaziz University, Faculty of Dentistry

**Postgraduate degree:** Saint Louis University Center for Advanced Dental Education

**Bachelor's degree:** King Abdulaziz University, Faculty of Dentistry



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**Bachelor's degree:** King Abdulaziz University, Faculty of Dentistry

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**Postgraduate degree:** Boston University Henry M. Goldman School of Dental Medicine

**Bachelor's degree:** Riyadh Elm University

The Saudi Society of Periodontology is pleased to welcome our new periodontists and wish them all the best

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**Dr. Saqer Meshal Almutairi**

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**Postgraduate degree:** Loma Linda University, Fellow of Royal College of Dentists in Canada in Periodontics

**Bachelor's degree:** King Khalid University



One of the community health services' of The Saudi Society of Periodontology was "An Hour for Your Oral health" talk .The talk was held live on instagram with more than 5000 viewers over 11 episodes  
The presenters:



Dr. Nabeeh Al-Qahtani



Dr. Amal Jamjoom



Dr. Ammar Al-Marghalani

and the preparation team included:

Dr. Khadeeja Maleh  
Dr. Sharifah Al-Amer  
Dr. Aisha Al-Qureshey



**We hosted Saudi doctors to discuss multiple topics about the general and oral health.**

**The episodes were all recorded and uploaded on the Society's YouTube channel.**

**looking forward to achieving the desired goal.**

## Implant Dentistry Practice and Eligibility in Saudi Arabia (Part 1)

Implant dentistry practice is governed globally by specific guidelines and measures to ensure safety of the patients. Surgical placement of dental implants requires extensive training to address the placement and manage post-operative complications and failures that may arise. As dental implant treatment is not covered by insurance in most countries, care should be taken in granting privilege to place the implants to avoid malpractice.

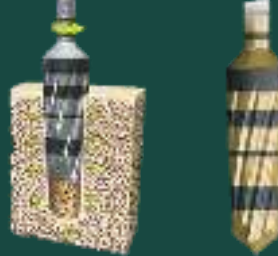
The privileging for dental implants varies between countries and is governed by dental bodies. The following table shows the comparison between dental implant placement eligibility between Saudi Arabia and USA.

Association	Dental Implant Privileging	Qualification	Resources
<b>Saudi Council for health specialties (SCFHS)</b>	General dentists Periodontists Prosthodontists Oral surgeons Maxillofacial surgeons	Fellowship in dental implants by SCFHS <ul style="list-style-type: none"> <li>• Additional licensing in dental implants prosthodontic aspect is awarded to dentists classified into the rank of registrar and consultant in the field of oral surgery, maxillofacial surgery, and periodontology after completing structured training in the prosthodontic aspects of dental implants for (100 hours) from one-multiple accredited course(s) or institutions accredited by the commission. They shall submit evidence that they completed the treatment of (15) cases from an authorized training institution (excepting commercial companies) and they should pass a clinical and theoretical assessment conducted by the commission.</li> <li>• Additional licensing in the surgical aspects of dental implants shall be awarded to dentists classified into the rank of registrar and consultant in the field of prosthodontics or restorative dentistry after completing structured training in the surgical aspects of dental implants for (100 hours) from one-multiple accredited course-s or institutions accredited by the commission. They shall submit evidence that they completed the treatment of (15) cases from an authorized training institution (excepting commercial companies), and they should pass a clinical and theoretical assessment conducted by the commission.</li> <li>• Additional licensing in dental implants, prosthodontics, and surgical aspects shall be awarded to GP dentists after completing a structured training program in both aspects of dental implants for a period of not less than one year.</li> </ul>	<a href="https://www.scfhs.org.sa/en/registration/ClassAndRegister/Reregister/Documents/Professional%20Classification%20manual%20for%20Health%20Practitioners.pdf">https://www.scfhs.org.sa/en/registration/ClassAndRegister/Reregister/Documents/Professional%20Classification%20manual%20for%20Health%20Practitioners.pdf</a>
<b>American Dental Association (ADA)</b>	Oral and Maxillofacial Surgeons and Periodontists are the only surgical specialists recognized by the American Dental Association (ADA)		<a href="http://thedentalimplantguide.org/dental-implants/myths-misconceptions/doctor-qualifications/">http://thedentalimplantguide.org/dental-implants/myths-misconceptions/doctor-qualifications/</a>  <a href="https://www.ada.org/en/ncrdscb/dental-specialties/recognized-national-dental-specialty-organizations">https://www.ada.org/en/ncrdscb/dental-specialties/recognized-national-dental-specialty-organizations</a>  <a href="http://thedentalimplantguide.org/does-a-dental-implant-specialist-have-specific-credentials-and-expertise/">http://thedentalimplantguide.org/does-a-dental-implant-specialist-have-specific-credentials-and-expertise/</a>



<p><b>American Academy for Implant Dentistry (AAID)</b></p>	<p>Graduate of Dental Implantology Program</p> <p>Board certified specialist in oral and maxillofacial surgery, periodontics or prosthodontics</p> <p>Non-Board-certified specialist</p> <p>General Dentist</p>	<p><b>AAID Credential: Associate Fellow</b></p> <ul style="list-style-type: none"> <li>● Licensed dentist</li> <li>● Completed at least 300 hours of postdoctoral or continuing education related to implant dentistry</li> <li>● 1 or more years of experience in the practice of implant dentistry</li> <li>● Experienced in surgical placement of dental implants and/or the replacement of teeth</li> <li>● Passed in-depth written and oral/case examinations demonstrating competency in implant dentistry</li> <li>● Demonstrated competency in implant dentistry through 5 standardized cases and the presentation and in-depth discussion of one’s own patient cases, including the successful use of dental implants to restore a single tooth, multiple teeth and a full set of teeth (arch)</li> <li>● Attended at least one of every three consecutive AAID annual scientific meetings</li> </ul> <p><b>AAID Credential: Fellow</b></p> <ul style="list-style-type: none"> <li>● Licensed dentist AND Associate Fellow of AAID or Diplomate of ABOI/ID</li> <li>● Completed at least 400 hours of postdoctoral or continuing education related to implant dentistry</li> <li>● 5 or more years of experience in the practice of implant dentistry</li> <li>● Knowledgeable in all phases of implant dentistry, including both the surgical placement of dental implants and the replacement of teeth</li> <li>● Passed in-depth oral/case examination demonstrating competency in implant dentistry</li> <li>● Demonstrated competency in all phases of implant dentistry cases, through 5 standardized cases and in-depth discussion of 10 of one's own patient cases, including placing dental implants in challenging situations and in patients with jawbone deficiencies, among others</li> <li>● Attended at least one of every three consecutive AAID annual scientific conferences</li> </ul> <p><b>ABOI/ID: Certified Diplomate</b></p> <ul style="list-style-type: none"> <li>● Multiple Routes to become a Diplomate: <ol style="list-style-type: none"> <li>1. Graduate of Dental Implantology Program a minimum of 2 years in length</li> <li>2. Board certified specialist in oral and maxillofacial surgery, periodontics or prosthodontics</li> <li>3. Non-Board-certified specialist</li> </ol> </li> </ul>	<p><a href="https://www.aaid.com/patients_and_public/Find_a_Dentist.html">https://www.aaid.com/patients_and_public/Find_a_Dentist.html</a></p> <p><a href="https://www.aaid-implant.org/aaid-credentials/training-experience-and-credentials/">https://www.aaid-implant.org/aaid-credentials/training-experience-and-credentials/</a></p>
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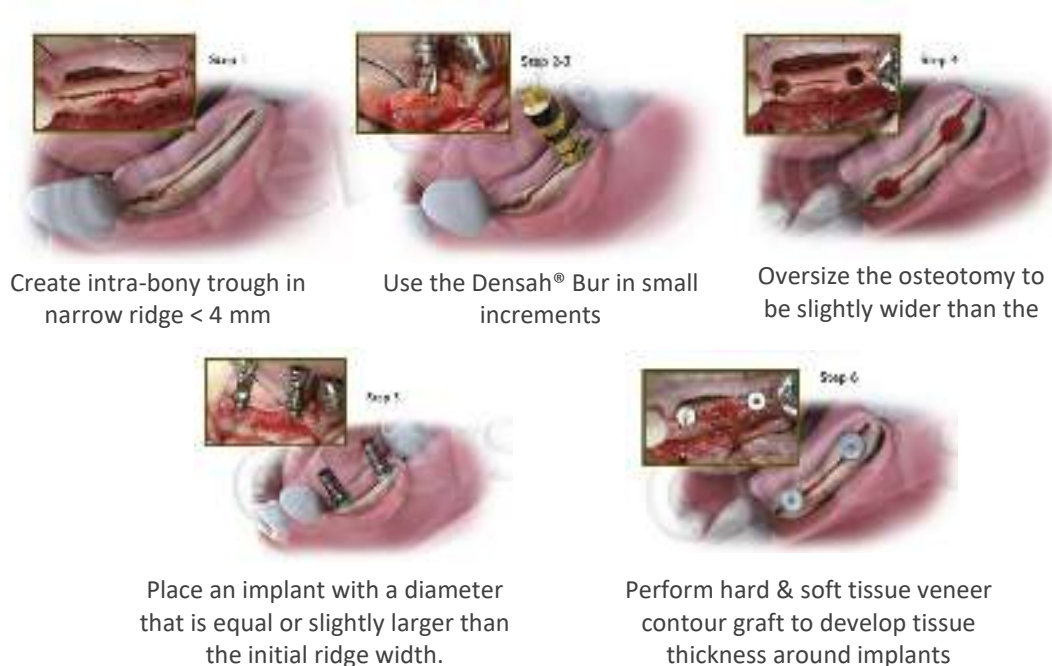
		<p>4. General Dentist</p> <p>5. Associate Fellow or Fellow of the AAID</p> <ul style="list-style-type: none"><li>• General dentists must have a minimum of 670 continuing education hours, 300 of which are part of a continuum of training in implantology, Associate Fellows and Fellows are required to have 570 continuing education hours, 300 of which are part of a continuum of training in implantology</li><li>• 7 or more years of experience in the practice of implant dentistry</li><li>• The examination measures competency in all phases of implant dentistry. Candidates rotate through a series of stations, 4 of which are standardized cases and 2 are where candidates defend cases that they submit to the Board</li><li>• Graduates of a two-year implantology program and Board-certified specialists are exempt from taking the written examination. All other routes must pass an in-depth written and oral examination for the exception of Fellows of the AAID</li><li>• Demonstrated competency in all phases of implant dentistry cases, through 5 standardized cases and in-depth discussion of 10 of one's own patient cases, including placing dental implants in challenging situations and in patients with jawbone deficiencies, among others</li></ul>	
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The Densah® Bur technology is based on a novel biomechanical bone preparation technique called “*osseodensification*.” Unlike traditional dental drilling techniques, osseodensification does not excavate bone tissue. Rather, bone tissue is simultaneously compacted and auto-grafted in outwardly expanding directions from the osteotomy. When a Densah® Bur is rotated at high speed in a reversed, non-cutting direction with steady external irrigation, a strong and dense layer of bone tissue is formed along the walls and base of the osteotomy. Dense compacted bone tissue produces stronger purchase for your favorite dental implant and may facilitate faster healing.

Biomechanical<sup>1</sup> as well as histological<sup>2,3,4</sup> validation studies of the osseodensification and the procedure utilizing the Densah® Bur technology concluded that, in porcine tibia and Sheep Iliac Crest, osseodensification may facilitate bone expansion, increase implant stability and create a densification layer around the preparation site by compacting and autografting bone particles along the entire depth of the osteotomy.

### Ridge Expansion with Modified Ridge Split



### Experts opinions:

I used Versah bur for the last 5 years. I found it great instrument for internal sinus elevation and osseodensification especially in sites that need bone graft.

Dr. Raed AlRowis  
Assistant Professor, Periodontology department  
College of Dentistry, King Saud University

Densah Drills are a must have tool in implantology armamentarium. They are versatile and ensure primary stability in most of the cases.

Dr. Mohamad Alsaggaf  
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Part Time consultant Samaya dental clinic, Jeddah city

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SIM DRUG STORE LLC  
+971 56 496 5580

### References:

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# SSP

الجمعية السعودية لأمراض وجراحة اللثة  
Saudi Society of Periodontology

## SSP E-Learning in 100 Days

23 March 2020 - 30 June 2020

Attendees | more than **69778**



SSP Clinical Excellence Awards



### PerioTalk

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 [info@saudiperio.org](mailto:info@saudiperio.org)

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## SSP Community Scientific Output

Well done!

22 indexed publications from Saudi periodontists were noted from mid of 2019 to mid 2020. Here, the SSP would like to highlight this achievement.

Name	Institution	Publication title	Link to the journal
Dr. Khalid Alharthi	Ibn Sina National College	Correlative Assessment of Interdental and Interradicular Bone Loss in Horizontal and Vertical Bone Defects in Chronic Periodontitis: A Clinical and Radiographic Study	<a href="https://www.ijlpr.com/admin/php/uploads/519_pdf.pdf">https://www.ijlpr.com/admin/php/uploads/519_pdf.pdf</a>
Dr. Adnan Almaghlouth	King Fahad Medical City	Impact of Oral and Oropharyngeal Cancer Diagnosis on Smoking Cessation Patients and Cohabiting Smokers	<a href="https://pubmed.ncbi.nlm.nih.gov/31768167/">https://pubmed.ncbi.nlm.nih.gov/31768167/</a>
Dr. Munerah Binshabaib	Princess Nourah Bint Abdulrahman University	Antimicrobial efficacy of 0.8% Hyaluronic Acid and 0.2% Chlorhexidine against Porphyromonas gingivalis strains: An in-vitro study	<a href="https://www.pjms.org.pk/index.php/pjms/article/view/1456">https://www.pjms.org.pk/index.php/pjms/article/view/1456</a>
Dr. Shatha ALHarthi	Princess Nourah Bint Abdulrahman University	Association between time since quitting smoking and periodontitis in former smokers in the national health and nutrition examination surveys (NHANES) 2009 to 2012	<a href="https://www.ncbi.nlm.nih.gov/pubmed/30102767">https://www.ncbi.nlm.nih.gov/pubmed/30102767</a>
Dr. Zuhair Natto	King Abdulaziz University		
Dr. Reham Al Jasser	King Saud University	One-year rotational relapse frequency following conventional circumferential supracrestal fiberotomy	<a href="https://www.researchgate.net/publication/339238462_One-year_rotational_relapse_frequency_following_conventional_circumferential_supracrestal_fiberotomy">https://www.researchgate.net/publication/339238462_One-year_rotational_relapse_frequency_following_conventional_circumferential_supracrestal_fiberotomy</a>
		Xenogeneic collagen matrix versus connective tissue graft for the treatment of multiple gingival recessions: A systematic review and meta-analysis	<a href="https://www.researchgate.net/publication/334132500_Xenogeneic_collagen_matrix_versus_connective_tissue_graft_for_the_treatment_of_multiple_gingival_recessions_A_systematic_review_and_meta-analysis">https://www.researchgate.net/publication/334132500_Xenogeneic_collagen_matrix_versus_connective_tissue_graft_for_the_treatment_of_multiple_gingival_recessions_A_systematic_review_and_meta-analysis</a>
		An Evidence-Based Update on the Molecular Mechanisms Underlying Periodontal Diseases	<a href="https://www.researchgate.net/publication/341702792_An_Evidence-Based_Update_on_the_Molecular_Mechanisms_Underlying_Periodontal_Diseases">https://www.researchgate.net/publication/341702792_An_Evidence-Based_Update_on_the_Molecular_Mechanisms_Underlying_Periodontal_Diseases</a>
Dr. Mazen Ameen	Umm Al Qura University	Evaluation of cardiac biomarkers in smokers and non-smokers with chronic periodontitis	<a href="https://ijhs.org.sa/index.php/journal/article/view/4814">https://ijhs.org.sa/index.php/journal/article/view/4814</a>
Dr. Ahmed Al-Majid	University of Zurich-Switzerland & King Faisal Specialist Hospital- Saudi Arabia	Impact of Interdental Brush Shape on Interpapillary Cleaning Efficacy - A Clinical Trial	<a href="https://pubmed.ncbi.nlm.nih.gov/32404897/?from_term=Schmidlin+PR+Al-majid&amp;from_pos=3">https://pubmed.ncbi.nlm.nih.gov/32404897/?from_term=Schmidlin+PR+Al-majid&amp;from_pos=3</a>
		Treatment of Peri-Implant Mucositis with Repeated Application of Chlorhexidine Chips or Gel During Supportive Therapy - A Randomized Clinical Trial	<a href="https://pubmed.ncbi.nlm.nih.gov/31835899/?from_term=Schmidlin+PR+Al-majid&amp;from_pos=1">https://pubmed.ncbi.nlm.nih.gov/31835899/?from_term=Schmidlin+PR+Al-majid&amp;from_pos=1</a>

Name	Institution	Publication title	Link to the journal
Dr. Zuhair Natto	King Abdulaziz University, Faculty of Dentistry	Flapless Extraction and Immediate Implant Placed into a Mandibular Molar Site: A Clinical Case Report and 5-Year Follow-Up	<a href="https://meridian.allenpress.com/joi/article-abstract/45/2/159/365040/">https://meridian.allenpress.com/joi/article-abstract/45/2/159/365040/</a>
		Peri-Implantitis and Peri-Implant Mucositis Case Definitions in Dental Research: A Systematic Assessment	<a href="https://meridian.allenpress.com/joi/article-abstract/45/2/127/365028/Peri-Implantitis-and-Peri-Implant-Mucositis-Case?redirectedFrom=fulltext">https://meridian.allenpress.com/joi/article-abstract/45/2/127/365028/Peri-Implantitis-and-Peri-Implant-Mucositis-Case?redirectedFrom=fulltext</a>
		Soft Tissue changes after using Collagen Matrix Seal or Collagen Sponge with Allograft in Ridge Preservation: A Randomized Controlled Volumetric Study	<a href="https://meridian.allenpress.com/joi/article-abstract/doi/10.1563/aaid-joi-D-19-00080/432314/Soft-Tissue-changes-after-using-Collagen-Matrix?redirectedFrom=fulltext">https://meridian.allenpress.com/joi/article-abstract/doi/10.1563/aaid-joi-D-19-00080/432314/Soft-Tissue-changes-after-using-Collagen-Matrix?redirectedFrom=fulltext</a>
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		Technical Complications and Prosthesis Survival Rates with Implant-Supported Fixed Complete Dental Prosthesis: A Retrospective Study With 1- To 12-Year Follow-Up	<a href="https://onlinelibrary.wiley.com/doi/full/10.1111/jopr.13119">https://onlinelibrary.wiley.com/doi/full/10.1111/jopr.13119</a>
		Digital Versus Conventional Full-Arch Implant Impressions: A Prospective Study on 16 Edentulous Maxillae	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1111/jopr.13162">https://onlinelibrary.wiley.com/doi/abs/10.1111/jopr.13162</a>
		Complications and Survival Rates of 55 Metal-Ceramic Implant-Supported Fixed Complete-Arch Prosthesis: A Cohort Study with Mean 5-year Follow-Up	<a href="https://www.thejpd.org/article/S0022-3913(19)30145-3/fulltext">https://www.thejpd.org/article/S0022-3913(19)30145-3/fulltext</a>
		Methodological Quality Assessment of Meta-analyses and Systematic Reviews of the Relationship Between Periodontal and Systemic Diseases	<a href="https://www.sciencedirect.com/science/article/abs/pii/S153233821830294X?via%3Dihub">https://www.sciencedirect.com/science/article/abs/pii/S153233821830294X?via%3Dihub</a>
		A Comparison Between Primary and Secondary Flap Coverage in Ridge Preservation Procedures: A Pilot Randomized Controlled Clinical Trial	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6720364/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6720364/</a>
		Annual Alveolar Bone Loss in Older Adults Taking Oral Bisphosphonate: A Retrospective Cohort Study	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6881984/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6881984/</a>
		Prevalence of Periodontitis and Alveolar Bone Loss in a Patient Population at Harvard School of Dental Medicine	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6873420">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6873420</a>
		Annual Alveolar Bone Loss in Subjects with Cardiovascular Disease Adjusting for Associated Systemic Diseases and Risk Factors: A Retrospective Study	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6993352/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6993352/</a>



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