



الجمعية السعودية لأمراض وجراحة اللثة
Saudi Society of Periodontology

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Issue. 3 December 2020



Dear colleagues and readers,

Welcome to the issue no. 3 of the SSP Newsletter! The current issue is highlighting few interesting documentations. First, an important mechanical complication of implant therapy in a well-documented case report. Additionally, we reintroduced the current periodontal and peri implant classification in a simple chart that is easy to save in your portable devices like a smart phone. From the SSP conference this year, we are summarising important figures and facts about this event. Here, I would like to congratulate all our colleagues who had worked very hard to present our first Saudi international periodontal conference in its elegant and successful status despite the tough challenges anticipated. As I was part of this super team, the hardest one was bringing the first society international conference with a completed setup in a virtual status with limited resources. This included diverse national and international experts in the field, exhibition, workshops, and a lot of credit hours to gain. Likewise, I would like to congratulate our new periodontists who just joined our professional community following graduation from their specialisation programs during this hard year while the pandemic Covid-19 was challenging every aspect of our

lifestyle. As this year is about to end soon, indicators of return to normal life are rising up and bringing lots of positive expectancies for the new year 2021. I hope that you will enjoy reading this issue. However, the coming issue no.4 will be published in April 2021. Call for articles, reports and news for review and possible publication is currently open. The deadline will be 29th March 2021. Below provides the guidelines for submitting articles and case reports to the SSP Newsletter.

1. Document format: MSWord or html format.
2. Article length: Currently no limit. Long articles prefer in html format.
3. Reference style: Chicago 15th A. Use Endnotes instead of footnotes.
4. Images are most welcome. SSP Newsletter values your contribution and I look forward to your continuous support in the coming issue.

Adnan Almaghlouth
Editor

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CASE REPORT

Retrieval of the Broken Dental Implant Cover Screw during 2nd Stage Surgery

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INTRODUCTION

Despite the high survival rate in the literature of the dental implant, complications and failure may occur⁽¹⁾ One of these complications are mechanical complications which usually involve damage to the prosthetic components or implant cover screw (CS) due to occlusal trauma and/or fatigue of the material. The literature suggests that screw loosening and fracture have the highest prevalence of prosthetic complications over a 10-year period and can be as high as 45%⁽²⁾ The aim of this report is to briefly describe method of retrieving fractured CS once it was encountered during 2nd stage surgery.

CASE REPORT

45 years-old-woman, medically fit presented in periodontal postgraduate clinic for 2nd stage of implant in replacing tooth #24 and 26 (Fig1). During the procedure at the time of the unscrewing the CS of Implant replacing tooth #24, click sound was noticed with first counterclockwise movement which indicated the fracture incidence of the CS (Fig 2). 2nd trial of using manual unscrewing with hand wrench and low-speed contra-angle handpiece for unscrewing the CS resulted with firm un-movement confirming fracture of CS after radiographic inspection. Intra-surgical decision has been made to conservatively retrieving the fracture CS as a first option with piezo-electric tip under the microscope. The second option was to use service/rescue kit from the same implant company if the first option failed.

Pretreatment pictures/ radiographs



Figure 1: presurgical and after flap reflection



Figure 2: pre-operative radiographs



Figure3: fracture level of the CS

TREATMENT RESULTS

The fracture pattern has been analyzed and it was showed that the apical third of the CS in the implant chamber was fracture in this level (Fig 3). The implant chamber contains superior/coronal part CS and inferior/apical 2mm pieces of the CS. Decision was to remove/retrieve these two separated fragments with two different approaches for each fragment. Superiorly, decision made to make a straight slot on the CS to engage the straight screw driver (1.22L) (Fig 4) to retrieved the superior fragment. Inferiorly (Fig 5), it was decided to retrieve it with piezo-electric endodontic tip (CPR-7) (Fig 5) with bone wax as a lubricant under 8X microscope magnification and It was removed successfully. Irrigation of the internal chamber of the implant was made with copious saline to remove any debris and installation of the new Healing abutment (HA) this was verified by post-operative radiograph to confirm full seating of the HA (Fig 6).

DISCUSSION

Fractured screws generally are challenging to remove. The technique presented in this report involves the use of available instruments commonly found in dental clinic. The force required to remove the adhered superior fragment of CS screw is minimal with attention during the slot preparation not to damage internal surface of the implant chamber. The use of CPR7 piezo-electric tip will help in oscillations action and can gradually reverse out the screw by placing the thin tip of CPR7 directly on the top of the screw. Adding bone wax before this action can decrease friction and ease clamping to assist in screw retrieval of the 2mm inferior segment. When this conservative approach was not successful, plan B as second approach was the utilizing the service/rescue kit from the same manufacturer company.

CONCLUSION

Fractured cover screw could be encounter due to material fatigue. The salvage of an implant with a non-retrievable screw fragment utilizing simple and conservative approach in this report may be highly beneficial to our patients.

REFERENCE

1. Pjetursson BE, Tan K, Lang NP, Brägger U, Egger M, Zwahlen M. A systematic review of the survival and complication rates of fixed partial dentures (FPDs) after an observation period of at least 5 years. *Clin Oral Implant Res.* 2004;15(6):625-642.
2. 4. Brägger U, Karoussis I, Persson R, Pjetursson B, Salvi G, Lang NP. Technical and biological complications/failures with single crowns and fixed partial dentures on implants: a 10-year prospective cohort study. *Clin Oral Implant Res.* 2005;16(3):326-334.



Figure 4: Right: 2 mm fracture apical part of the CS; left: retrieved superior fracture CS fragment and 1.22L screw driver



Figure 5: CPR7 piezo-electric tip used to retrieved the inferior fragment, inferior fracture segment under 8X magnification by microscope



Figure 6: Post 2nd stage After seating of the HA

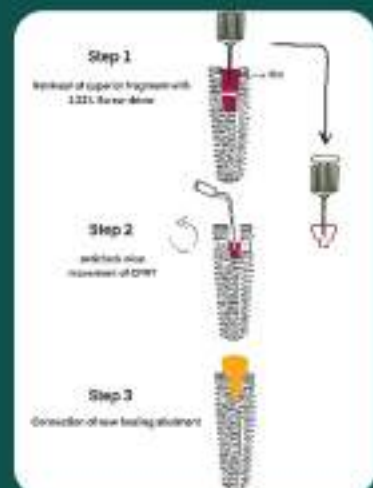


Figure 7: diagram showed the step of the removal of fracture CS.



QR code to the video of procedure

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



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Current working Place
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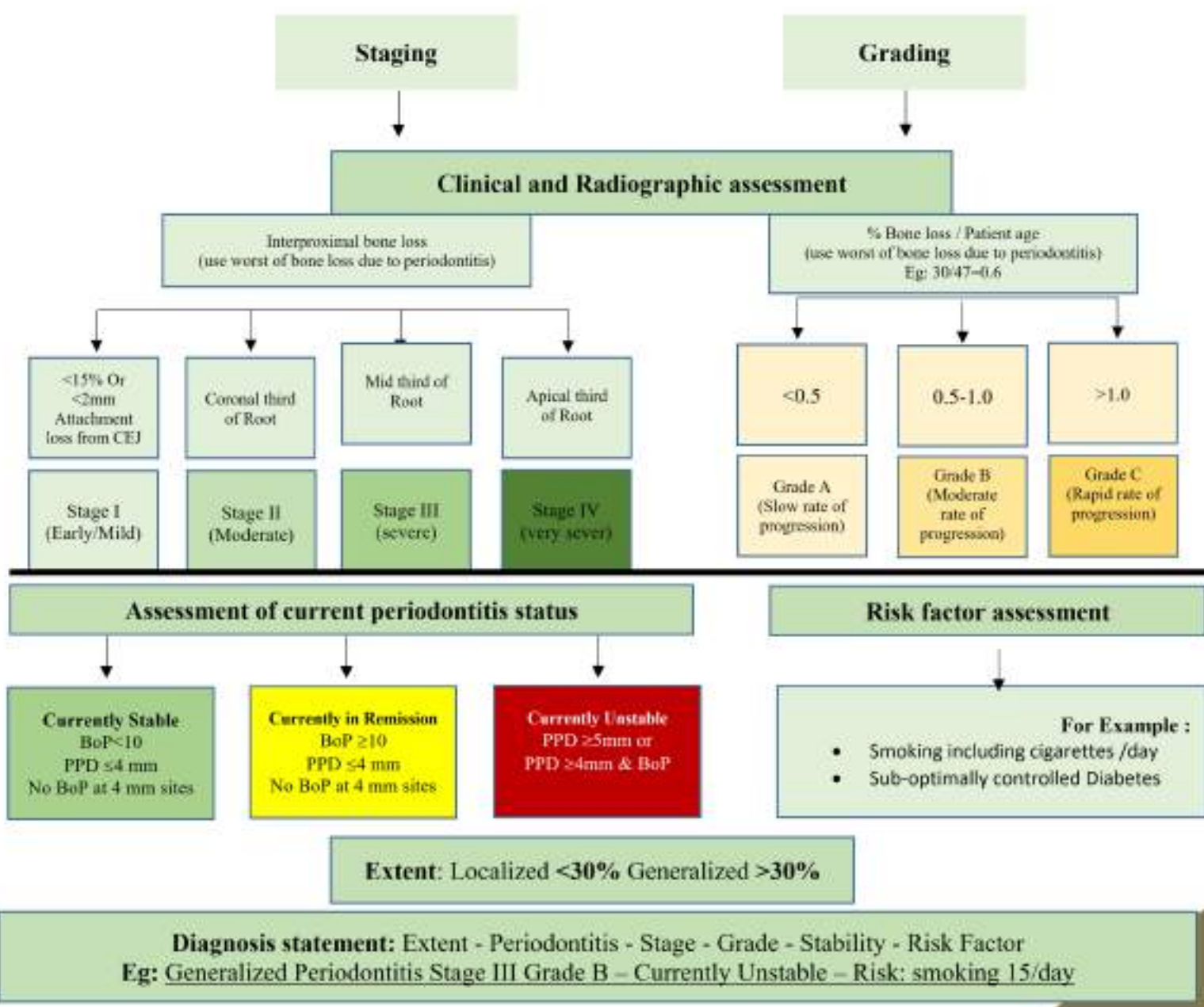


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*Re-introduced with additional details by Saudi Society of Periodontology.

REFERENCE

2018 American Academy of Periodontology (AAP) and the European Federation of Periodontology (EFP).



Saudi International Periodontics Conference 2020 المؤتمر السعودي العالمي لأفراض وجراحة اللثة 2020

PERIODONTICS WITOUT BORDERS

The SSP2020 first international conference is officially ended! Thank you for your participation in this event. In the next page, we present figures and facts about the conference



Details about the conference, title of the lectures and summaries are available in this code.





Scientific Program



Participants



10 Virtual Booth

The **SSP** is proud of the collaboration with **TAMER Healthcare** company. Last October, this was converted into a signed contract that will solidify the relationship in long term basis, Dr. Abdullah Alamri said.



حملة

November 2020

#سكر_منتظم_لابتسامه_مشركة في أرقام



مدينة سعودية
شملتها الحملة

16

موقع للحملة

24

أكثر من 300 متطوع
شارك في هذه الحملة

300

ساعة تطوعية

450

أكثر من 20 ألف
مستفيد من الحملة

20,000



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ELGYDIUM

SSP Community Scientific Output

New indexed publications from Saudi periodontists were noted in 2020, well done!

Name	Institution	Publication title	Link to the journal
Abeer G. Ahmed Fatin A. Awartani Abdurahman A. Niazy Hamdan S. Alghamdi.	King Saud University	A Combination of Biphasic Calcium Phosphate (Maxresorb) and Hyaluronic Acid Gel (Hyadent) or Repairing Osseous Defects in a Rat Model.	https://www.mdpi.com/2076-3417/10/5/1651
Amani M. Basudan Marwa Y. Shabeen Abdurahman A. Niazy Hamdan S. Alghamdi.	King Saud University	Biological Effect of Single or Combined Pharmacological Therapy Using Alendronate and Simvastatin on Implant Osseointegration: An in Vivo Study in Healthy and Osteoporotic Rat Models.	https://www.mdpi.com/2076-3417/10/12/4298
Marwa Y. Shabeen Amani M. Basudan Abdurahman A. Niazy Hamdan S. Alghamdi	King Saud University	Impact of single or combined drug therapy on bone regeneration in healthy and osteoporotic rats.	https://www.liebertpub.com/doi/abs/10.1089/ten.TEA.2020.0122
Amani M. Basudan Marwa Y. Shabeen Abdurahman A. Niazy Hamdan S. Alghamdi	King Saud University	Histomorphometric Evaluation of Peri-Implant Bone Response to Intravenous Administration of Zoledronate (Zometa) in an Osteoporotic Rat Model.	https://www.mdpi.com/1996-1944/13/22/5248
Razan Alageely Nadir Baby Montaser AlQutub	King Saud University	Dental Implant primary stability in different regions of the Jawbone: CBCT-based 3D finite element analysis.	https://www.sciencedirect.com/science/article/pii/S1013905219302950?via%3Dihub
Reham Al Jassar Mohammed Al Sarhan Dalal Al Otaibi Saleh Al Oraini	King Saud University	Awareness Toward COVID-19 Precautions Among Different Levels of Dental Students in King Saud University, Riyadh, Saudi Arabia.	https://www.dovepress.com/awareness-toward-covid-19-precautions-among-different-levels-of-dental-peer-reviewed-article-JMDH
Reham Al-Jassar Thikriat Al-Jewair Abdulaziz Al-Rasheed	King Saud University	One-year rotational relapse frequency following conventional circumferential supracrestal fiberotomy.	https://www.semanticscholar.org/paper/One-year-rotational-relapse-frequency-following-Al-Jassar-Al%E2%80%90Jewair/a0ab1b5838acb0ff2b580c19ee48a6a9aabdec
Syed Saad B. Qassim Dalal Al Otaibi Reham Al-Jassar Sarhang S. Gul Muhammad Sobail	King Saud University	An Evidence-Based Update on the Molecular Mechanisms Underlying Periodontal Diseases.	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7312805/
Reham Nasser Al-Jasser	King Saud University	The effect of overbite and overjet on clinical parameters of periodontal disease: A case control study.	https://www.semanticscholar.org/paper/The-effect-of-overbite-and-overjet-on-clinical-of-A-Al-Jasser/7d04636812368022a2dcca2fae4416a41162669