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Case Report

# An immediate placement of implants in to freshly infected extracted sockets in maxillary aesthetic zone : case Report

## **Authors:**

## Mahmoud AL Daykh Abdulgawy1, Hassan Abdullah Hassan2, Sulaiman M Elsayah3, Mostafa F. Mohamed4

1 Department of Removable Prosthodontics, Faculty of Dentistry, University of Tubrok
2 Department of Restorative dentistry, Faculty of Dentistry, University of Tubrok
3 Department of Faculty of sciences Health – Alkhoms Dental -Technology, University of Elmergab
4 Department of Pharmacology, Faculty of Pharmacy, Tobruk University, Libya.

## **Corresponding Author:**

Mahmoud AL Daykh Abdulgawy, 1 Department of Removable Prosthodontics, Faculty of Dentistry, University of Tubrok

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## **ABSTRACT:**

**Introduction**: Extraction and immediate implant placement of aesthetic zone has become routine procedure due to reduced treatment time and the preservation of anatomical structures. Aim: to illustrate the possibility of inserting immediate implants into the fresh extracted sockets in the infected site. **Presentation of case:** A 33-year-old man, presented with severe periodontitis, and a pre-existing infected cysts The radiography showed that a large translucent image around the periapical portion of 12,21 with acute pain in maxillary zone. Two implant BTK (  $12mm length \times 4.1mm$ ) in diameter implants Dentist, made in were inserted immediately. Five months later, the second surgery phase (healing screw insertion) followed by prostheses were deliverd. **Conclusion**: Immediate implant placement a viable treatment option for infected sites.

Keywords: Immediate placement, BTK, Dental implant, Periapical lesion

## **INTRODUCTION**:

An immediate implantation is known as dental implant after tooth extraction.(1,2) In the late 1970s this concept was introduced but the successful regarding that has been achieved in the last few years. (3) Decreased resorption of the alveolar process after extraction, shortened treatment time, and reduced psychological stress for the patient are the main advantages of immediate implants. A voiding the need for a second surgical stage is one of the advantages as well. (4,5) However, studies of both animals,(6,7) and humans,(8,9) have shown that immediate implants placed into infected post extraction sockets are a predictable procedure with success rates close to 92%.37. **Aim:** To illustrate the possibility of inserting

immediate implants into the fresh extraction sockets in the infected site.

## **CASE PRESENTATION:**

**Patient History**: A 33-year-male old patient, non-smoker with good health condition and without any chronic diseases.

Chief complaint was swelling in upper anterior jaw with acute pain. Radio-graphically examination: it was observed confirming a cyst adjacent to the teeth (12.21)

## Treatment paining included that:

## **Surgical procedure:**

Teeth were extracted with an anterior forceps with minimal tissue damage to preserve the gingiva as well as

IJMSCRR: November-December 2022 Page | 1177

the bone, The cyst was removed then the sockets were cleaned carefully. After that, an implants were placed (4.1mm in diameter and 12 mm in length).

## **Postoperative management:**

After the surgical procedure, the antibiotic was prescribed to the patient (amoxicillin 500 mg, 3 times/day) for 5 days.

Anti-inflammatory and analgesics also were prescribed for 3 days. Patient was advised to use of 0.2 % chlorhexidine for 7 days with no dilution. The patient was recalled after one week for the follow-up.

## Follow-up:

Following a 5 months healing period, patient was recalled for the definitive prosthesis and the success of the implants osstiointegration around it in the cyst space was noted, then the healing abutments were placed and after one week, the prosthetic part of the teeth was inserted.

## **DISCUSSION:**

The primary objective of implants is to restore the function and esthetics. In order to reduce the bone resorption and to maintain the esthetics, immediate placement and loading is the treatment option which has been put forward by several authors and is widely used. The immediate replacement of the implant was successful in this case and this agreed with Casap et al(10) who reported that 30 implants were immediately placed into debrided infected sites in 20 patients and obtained 97.6 % success rate. One implant failed immediately after restoration. Successful rate depended on other factors should be considered as well for the same. Proper case selection, differentiating and debridement of the granulation tissue, and skills to the proposed protocol contribute for the esthetic and functional outcome.(11) Debridement of the socket after the extraction can play a major role in the success of the implant.

## **CONCLUSION**:

Immediate implant placement a viable treatment option for infected sites.

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**IJMSCRR: November-December 2022**