# Single stage Immediate Implant placement in contemporary extraction socket mistreatment bone graft and thrombocyte wealthy protein

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## ABSTRACT

Earlier it absolutely was seen that once tooth extraction, the socket was allowed to heal 6-12 months before implant placement. throughout this healing part it absolutely was detected that there was continuous reduction in buccolingual / labiolingual lingual dimensions of the gum ridge generally creating it unsuitable for typical implant placement. This ends up in further demand of procedure for website augmentation and creating patient to attend for extra few additional months. This was terribly frustrating for the patient because the overall treatment time is prolonged. Immediate implant comes as an alternate treatment possibility. instantly once extraction of tooth, the implant was placed, and on the healing of the socket there's additionally integration of implant with the bone ensuing shrunken treatment time in addition as protective the remaining bone and soft tissue. This case report shows a method within which implant is placed single staged in recent extraction socket instantly once tooth extraction at the side of bone graft and living substance made protein.

# INTRODUCTION

The first rumored case of immediate implant was in 1978 by Schultz1. Implant placement into recent extraction sockets has become progressively routine, and surgical protocols are changed, with a shift from the idea that total bone regeneration within the socket was thought to be needed before implant placement to the common opinion that the simplest bonepreserving methodology is "immediate implant placement". The implant is anchored to atiny low a part of the socket and primarily to the sub top alveolar bone, providing satisfactory initial implant stability2. the benefits of immediate implant placement include: reductions within the variety of surgical interventions3, reduction in treatment time required4, ideal orientation of the implant and preservation of the alveolar bone at the extraction site5-8, maintenance of ideal soft tissue contours9, and improvement within the patients psychological outlook for dental treatment.

Remodelling of the alveolar crest once extraction follows a pattern, with organic process and reshaping of the alveolar crest10-12. This marginal organic process is, of course, time dependent: the longer the healing time, the bigger the organic process. to take care of bone height and bring home the bacon additional fast rehabilitation, immediate placement of implants in reference to extraction is often practiced nowadays.

## CASE REPORT

A twenty eight year recent male patient given with a history of root stumps

within the left lower back jaw region and requested for a direct answer. Clinical and tomography analysis discovered adequate alveolar bone on the far side the apex of root stumps, absence of periapical pathology. thus it absolutely was determined to extract Associate in Nursingd place an implant instantly to avail the advantages like preservation of bone and emergence profile. Blood investigations prescribed to the patient to rule out any underlying general diseases.

Patient was prescribed prophylactic antibiotics with the mix of Larotid 250mg and antibacterial 250mg combination with eubacterium sporogenes, antiprotozoal four hundred mg, and Aceclofenac a hundred mg+paracetamol 325 mg+ serratiopeptidase 15mg a pair of days previous implant surgery. Patient was additionally suggested for zero.12%.

chlorhexidine mouth wash rinses at the side of alternative medications. On the day of surgery, induction of anesthesia was meted out victimisation lignocaine with hormone. As preservation of alveolar bone is essential to success of immediate implants, extraction of tooth should be atraumatic, thus victimisation periotomes and little periosteal elevators, the fragment was luxated while not excessive enlargement of the socket, the tooth fragment was slowly luxated and force out of the socket. The sockets were debrided with curettes and a Adin Toureg-S internal hex implant was planned ( $5 \times$  thirteen mm). Primary stability was achieved by racking the implant into the bone on the far side the apex of the socket and a animal tissue former is placed. As before long because the implant is placed within the extraction socket, a ten millilitre syringe is employed to withdraw blood. Tornequett is employed to tighten the arm and therefore the blood is withdrawn and dispense in glass tube.

As before long because it is distributed, lid is placed over the open finish of the tube and unbroken within the centrifuge machine. Another glass tube with ten millilitre of distil water is employed to counter balance the tube. The centrifuge machine is revolved over 3000 rate for 10-12 minutes. Tissue extractor was accustomed extract PRF from the tube. star Bone Perio- glass bone graft at the side of prf was packed between the implant and labial socket wall. Interrupted sutures were placed and post operative directions got to the patient. Patient was suggested to continue same medication for five additional days and was asked to report once one week. The sutures were removed on seventh day. The patient was recalled once four months for the prosthetic procedures and was given ceramic ware united to metal crown over the implant. The patient was recalled for follow up once one year. The clinical and photography appearances at one years showed healthy soft tissue, osseointegration and maintenance of bone round the implant.

## CONCLUSION

This case report showed that immediate implant placement in recent extraction socket victimisation bone graft at the side of living substance made protein to fill the horizontal defect dimenion between the implant surface and alveolar bone in an exceedingly single stage non-submerged surgical technique provides clinically and radiographically sensible ends up in a 1-year perspective.

#### REFERENCES

- Schulte W, Kleineikenscheidt H, Lindner K, Schareyka R.The Tubingen immediate implant clinical studies; Dtsch Zahnarztl Z. 1978; 33(5):348–59.
- 2. Matthew D. McNutt, B.A.; Chun-Han Chou, B.S. Current Trends in

Immediate Osseous Dental Implant Case Selection Criteria; Journal of Dental Education Volume 67, Number 8

- Lazzara J R; Immediate Implant Placement into Extraction Sites, Surgical and Restorative Advantages; the International Journal of Periodontics & Restorative Dentistry. 1989; Volume 9; Number 5.
- Parel SM, Triplett RG. Immediate fixture placement: a treatment planning alternative. Int J Oral Maxillofac Implants 1990; 5(4):337– 45.
- Schultz AJ. Guided tissue regeneration (GTR) of nonsubmerged implants in immediate extraction sites. Pract Periodontics Aesthet Dent 1993; 5(2):59–65, quiz 66.
- Shanaman RH. The use of guided tissue regeneration to facilitate ideal prosthetic placement of implants. Int J Periodontics Restorative Dent 1992;12(4):256–65
- Denissen HW, Kalk W, Veldhuis HA, van Waas MA. Anatomic consideration for preventive implantation. Int J Oral Maxillofac Implants 1993;8(2):191–6.
- Watzek G, Haider R, Mensdorff-Pouilly N, Haas R.Immediate and delayed implantation for complete restoration of the jaw following extraction of all residual teeth: a retrospective study comparing different types of serial immediate implantation. Int J Oral Maxillofac Implants 1995;10(5):561–7.
- Werbitt MJ, Goldberg PV. The immediate implant: bone preservation and bone regeneration. Int J Periodontics Restorative Dent 1992;12(3):206–17
- Schwartz-Arad D, Chaushu G. Placement of implants into fresh extraction sites: 4 to 7 years retrospective evaluation of 95 immediate implants. J Periodontol 1997: 68: 1110–1116
- 11. Thomas G. Wilson, Robert Schenk, Daniel Buser, David Cochran; Implants Placed in Immediate Extraction Sites: A report of histologic and histometric analyses of human biopsies;Int j oral maxillofac implants.1998;13:333–341.
- 12. Giovanni Polizzi, Ueli Grunder, Ronnie Goene, Naoki Hatano, Patrick Henry, William J Jackson, Kunio Kawamura, Franck Renouard, Ruben Rosenberg, Gilbert Triplett, Mervin werbitt, Berit Lithner. Immediate and Delayed Implant Placement Into Extraction Sockets: A 5-Year Report; Clin Impl Dent and Rel Res, Volume 2, Number 2, 2000.