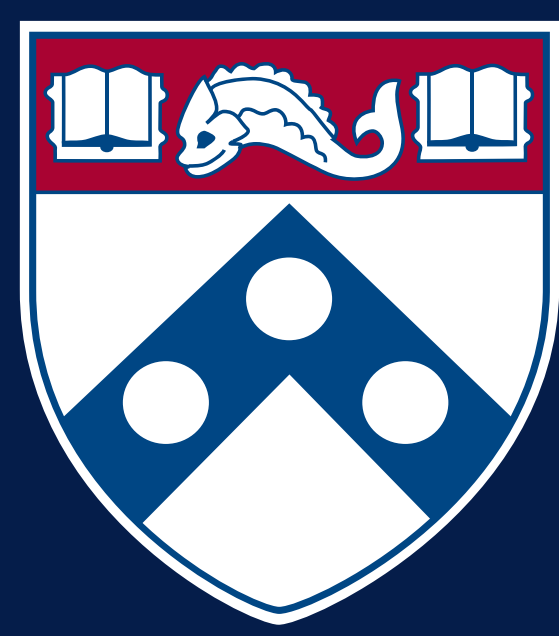




# Dual Purpose 3D Printer Implant Surgical Guide

## A Clinical Case Report

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### Introduction

In the era of guided implant surgery, multiple techniques were proposed for possible immediate load of provisional. Several different approaches have described for this purpose such as the utilization 3D printed shells, milled PMMA with wing support to have a predictable picked up provisional. In this case report we describe the utilization of 3D printed guide to aid in pilot drill along with providing an adequate tool for immediate provisionalization and repositioning of patient's extracted tooth.

### Methods

30-year-old male referred to periodontal clinic for extraction of tooth #9 due to external resorption. After obtaining CBCT and intraoral scan a 3D printed implant surgical guide was fabricated to aid in pilot guiding of the implant osteotomy and providing guidance in the immediate provisionalization of the placed implant.

### Results

Immediate implant was placed in site #9 utilizing dual purpose 3D printed implant surgical guide without any complications. The patient was evaluated two weeks post-operatively and 3 months follow-ups. At this stage patient in ready in receiving the final prosthesis.

### Conclusion

The use of dual purpose 3D printed implant surgical guide provide a predictable immediate implant placement, predictable immediate provisionalization in the desired tooth position which aid in the preservation of the gingival complex and aesthetic presentation.

### Case 1

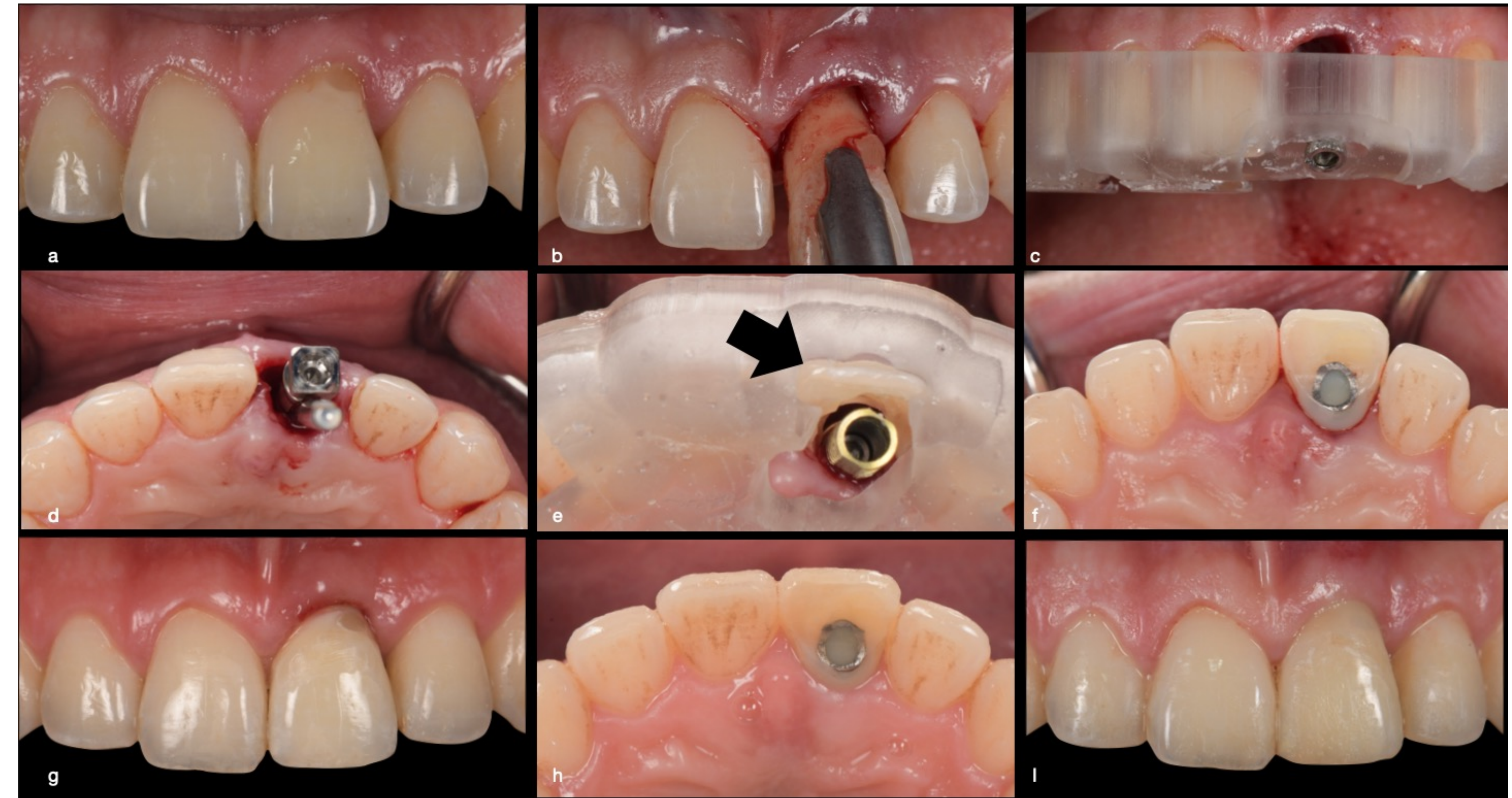


**Figure 1. a. Pre-op. b. Extraction. c. Pilot Guide position, d. Immediate implant placement. e. Dual purpose 3d guide placement for pick up, f. After provisional pick up, g. Immediate post-op, h. Two weeks F/U (Palatal View), i. Two weeks F/U (Facial View)**

### References

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