

## Immediate Placement of Dental Implants into Infected Dentoalveolar Sites: Retrospective Clinical Case-Serious Study

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**Abstract :** Context: The immediate placement of dental implants into fresh, non-infected sockets is an accepted successful technique, while the placement of these implants into pathological Dento-alveolar sockets is still a controversial issue. Aims: This clinical case-serious study aimed to report, retrospectively, the survival rate of immediate dental implants placed immediately after extraction of teeth with infected Dento-alveolar sockets in the maxilla and mandible during the osseointegration period (3 months). Material and Methods: A retrospective analysis was made of the clinical and radiographic findings corresponding to 15 consecutive patients (7 women and 8 men, between the ages of 21 and 59 years) with a mean age of 44.14 years (SD= 9.28). A total of 36 locking-taper Bicon dental implants (hydroxyapatite, HA-coated) were immediately placed into infected fresh extraction sockets, including radicular cysts, chronic periapical lesions, and sub-acute periodontal and endodontic infections using a flap or flapless surgery. Retrospective data on implant position, implant size, pathological condition, and baseline radiographs were obtained from patient records. Clinical and radiographic analyses were performed to evaluate the treatment outcome. Data were considered using descriptive statistics. Results: All the implants (N=36) except two achieved osseointegration in 3 months follow-up. This reflects a 94.44% success rate within this small study group and a 5.55% failure rate. Complications were related to the reasons for tooth loss. Conclusions: This retrospective clinical case-series study showed the possibility that immediate dental implant placement is successful in infected extraction sockets.

**Keywords :** implant, socket, infected, osteointegration

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