

# Tibial Bone Harvesting Under Local Anesthesia: Morbidity and Patient Experiences

Ahmed Alyamani\*

## **ABSTRACT:**

**Purpose:** The aims of this study was to evaluate the complication rate, the recovery, and the experience of patients undergoing tibial bone harvesting under local anesthesia (in an office setting) and subjectively evaluate postoperative pain utilizing visual analogue scale.

**Patients and Methods:** This was a prospective study of 27 consecutive patients who underwent intra oral site preparation prior to placement of dental implant with tibial bone graft harvested using local anesthesia only. Patients' subjective experiences intraoperative and postoperative were evaluated as well as postoperative complications and analgesics requirement.

**Results:** All patients underwent unilateral tibial bone harvesting using nontrephination technique under local anesthesia. On average 15 ml of compressed marrow was harvested. All patients described a sensation of scraping intraoperatively but not of severe pain. Oral pain was significantly higher than tibial bone graft harvesting site at 24-hour and 1 week follow up. Tibial pain score was significantly lower after one week compared to 24-hour postoperatively. All patients were satisfied with the procedure, and no complications with the recovery or at the donor site were encountered.

**Conclusion:** Tibial harvesting under local anesthesia in an office setting is a well tolerated and accepted procedure. The postoperative recovery and complication rate compared favorably with those of tibial grafting under general anesthesia.

Key words: bone harvesting tibia, alveolar ridge augmentation, sinus lift, sedation, and implant

\* Assistant professor of Oral and Maxillofacial Surgery, Chairman of Oral and Maxillofacial Rehabilitation Department, Faculty of Dentistry, King Abdul-Aziz University.