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### Prospective Study

Preoperative embolization of primary bone tumors: A case control study

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### Abstract

**AIM:** To study the safety and effectiveness of preoperative embolization of primary bone tumors in relation to intraoperative blood loss, intraoperative blood transfusion volume and surgical time.

**METHODS:** Thirty-three patients underwent preoperative embolization of primary tumors of extremities, hip or vertebrae before resection and stabilization. The primary osseous tumors included giant cell tumors (GCTs), aneurysmal bone cyst (ABCs), osteoblastoma, chondroblastoma and chondrosarcoma. Twenty-six patients were included for the statistical analysis (Embolization group) as they were operated within 0-48hrs within preoperative embolization. A control group (Non-embolization group, N-28) with bone tumor having similar histological diagnosis and operated without embolization was retrieved from hospital record for statistical comparison.

**RESULTS:** The mean intraoperative blood loss was 1300 ml (250-2900ml), the mean intraoperative blood transfusion was 700ml(0-1400ml) and the mean surgical time was

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