

## COMPARATIVE STUDY OF PERIOGLASS WITH AND WITHOUT TITANIUM MEMBRANE FOR MANAGEMENT OF INTRAOSSEOUS DEFECTS

### Abstract

Twenty patients with intrabony defects were selected with no relevant medical history. Four to six weeks after completion of basic therapy, pocket depth (PD) and clinical attachment level (CAL) were recorded (baseline value) using periodontal probe and acrylic stent, periapical radiograph were taken and hard tissue measurements were registered. The defects were surgically accessed and debrided. Each intrabony defect was randomly assigned to receive the bioglass graft (graft group, GG) or bioglass graft and titanium membrane (Graft Membrane group, GMG). Six months post surgically soft and hard tissue measurements were recorded. All soft tissue measurements revealed significant improvement at the end of study. The reduction in PD for GMG was 2.4mm and for GG was 1.7mm. The gain in attachment level for GMG was 2.9mm and for GG was 1.5mm, there was insignificant difference between both groups as regard PD. Significant difference was detected in the gain of CAL with favour to GMG. Radiographic examination revealed increased bone density in both groups with 30.1% bone fill in GMG and 25% bone fill in GG. Statistical analysis revealed insignificant difference between both groups as regard hard tissue measurements.