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Impact of vitamin D3 supplement on some biochemical markers in patients with dental implant

ABSTRACT:

To investigate the effects of systemic supplementation with vitamin D3 on serum Vitamin D3, alkaline phosphatase, serum CRP and serum calcium in patients treated with dental implants. Twelve patients were classified into two groups: control group: receiving dental implants in posterior maxillary extraction sites whom did not receive any medication, and treatment group: receiving dental implants in posterior maxillary extraction sites with 1000 I/U per day oral tablet of vitamin D3 supplement for 3 months. Blood samples were collected on the 1st day of study (after the insertion of dental implant), 1 week after, and once again three months later for biochemical analysis of serum alkaline phosphatase, C-reactive protein(CRP), calcium and vitamin D3. Differences were observed between control and treatment groups throughout the 3 months of the study yet was not significant. Vitamin D supplementation has a non-significant effect on serum alkaline phosphatase, serum CRP and serum calcium in patients treated with dental implants