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The effect of platelet rich fibrin versus melatonin on implant stability in implant retained mandibular overdenture cases

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Objective: The aim of this study was to compare the effect of platelet rich fibrin and melatonin on the stability of implants immediately placed in extraction sockets and loaded with implant retained overdenture.

Materials & Methods: Ten edentulous patients were restored with two immediately placed implants, in the lower canine first premolar regions and were restored with implant retained over dentures. A split mouth technique was used where, on one side melatonin was introduced into the extraction socket prior to implant placement (group-1) and on the contralateral side platelet rich fibrin was placed after implant installation (group-2). After loading the implants with locator attachments and mandibular overdentures, ISQ measurements were recorded at overdenture insertion after 2, 4 and 6 months.

Results: Using one way ANOVA test followed by LSD post hoc test. It was revealed that there was a highly significant difference between all measurements for all visits as ($P\text{-value} < 0.05$). In addition, testing of significance between both implants was performed by using independent t-test for each visit. In the first visit, there was insignificant difference between both implants regarding ISQ measurements for all directions as ($P\text{-value} > 0.05$) except in the third and fourth visits which were significant difference as ($P\text{-value} < 0.05$)

Conclusion: The addition of platelet rich fibrin into fresh extraction sites in immediately installed implants, showed better implant stability than the use of melatonin.

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