

PPxx - Cemented single implant crowns: bone level changes and peri-implant conditions after 5-year mean follow up.

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OBJECTIVES OF INVESTIGATION: The aim of the present study was to identify the peri-implant conditions (bleeding on probing (BOP), pocket probing depth (PPD)) and marginal bone loss (MBL, marginal bone level change between follow-up and occlusal loading) around cemented single crowns on bone-level implants (EVEN, Mech & Human, Aligned, Italy).

METHODS USED: The study was a retrospective cohort study with up to 11 years (mean 5.8 years) follow-up. Patients with single cemented crowns were included. Implant survival, BOP, PPD, MBL, and biologic complications (peri-implant mucositis and periimplantitis) were evaluated.

RESULTS: 19 patients who received 20 cement-retained single crowns were included. The implant survival rate was 100%. Peri-implant mucositis rate was moderately low (25.71%). One patient was diagnosed with peri-implantitis after 6 years of function. Given a score to four areas of the implant restoration, we obtained an average value of 3.73mm for PPD; also, we recorded 26.25% bleeding sites (BOP). Mean MBL was found to be 0.97mm, ranging from 0.18 to 4.67 (median 0.88mm).



CONCLUSIONS: High implant survival rate was achieved. Cemented single crowns on bone-level implants showed good peri-implant conditions. Well-designed prospective cohort or randomized controlled clinical trials with larger sample size are needed to confirm these results.