

## CROWN-TO-IMPLANT RATIO AND PERI-IMPLANT BONE LOSS.

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**KEY WORDS:** CROWN-TO-IMPLANT RATIO, BONE LOSS, PROSTHETIC COMPLICATIONS.

**OBJECTIVES:** The aim of this work is to evaluate the impact of an high crown-to-implant ratio on crestal bone loss and the possible consequential prosthetic complications.

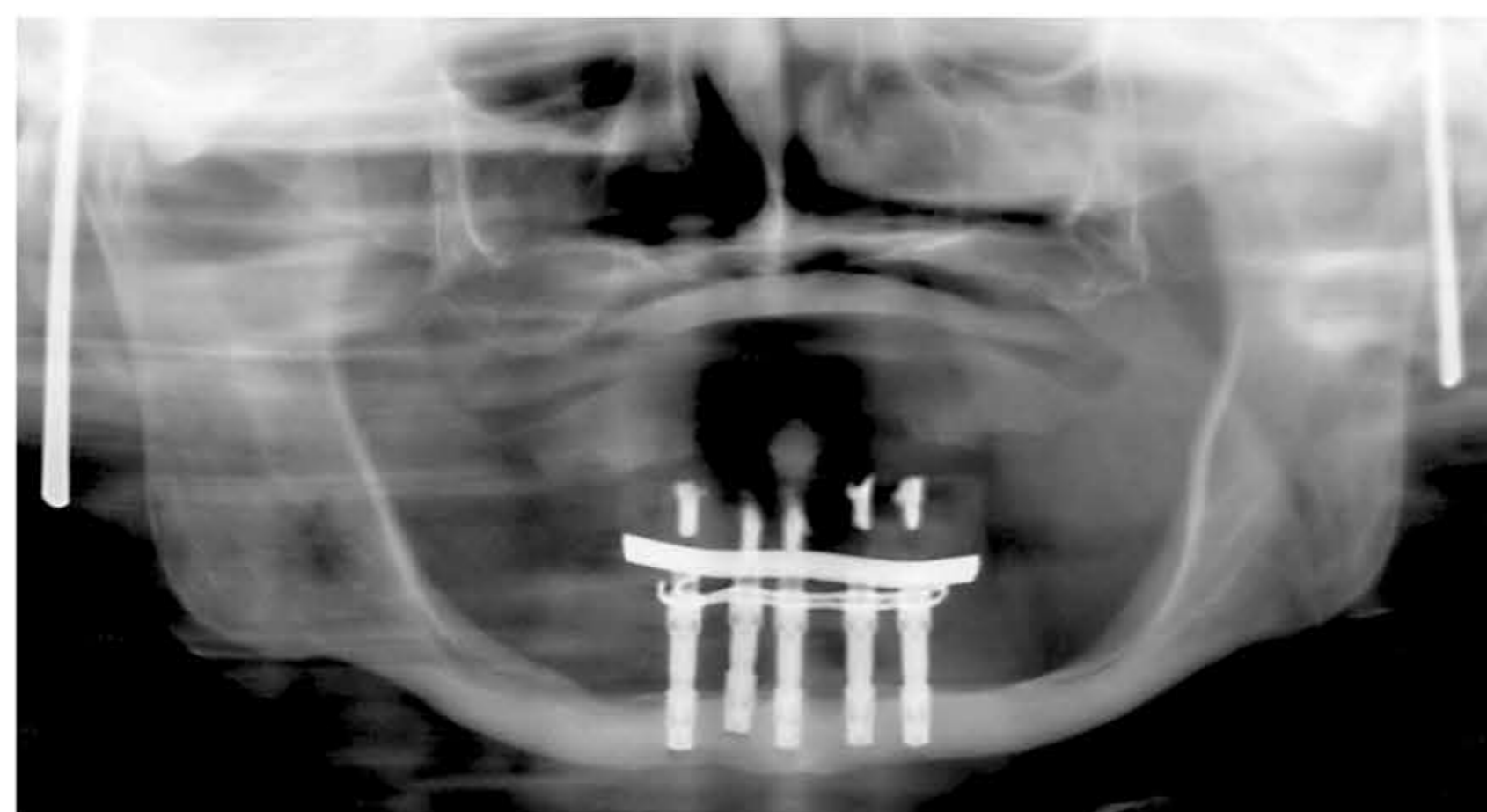
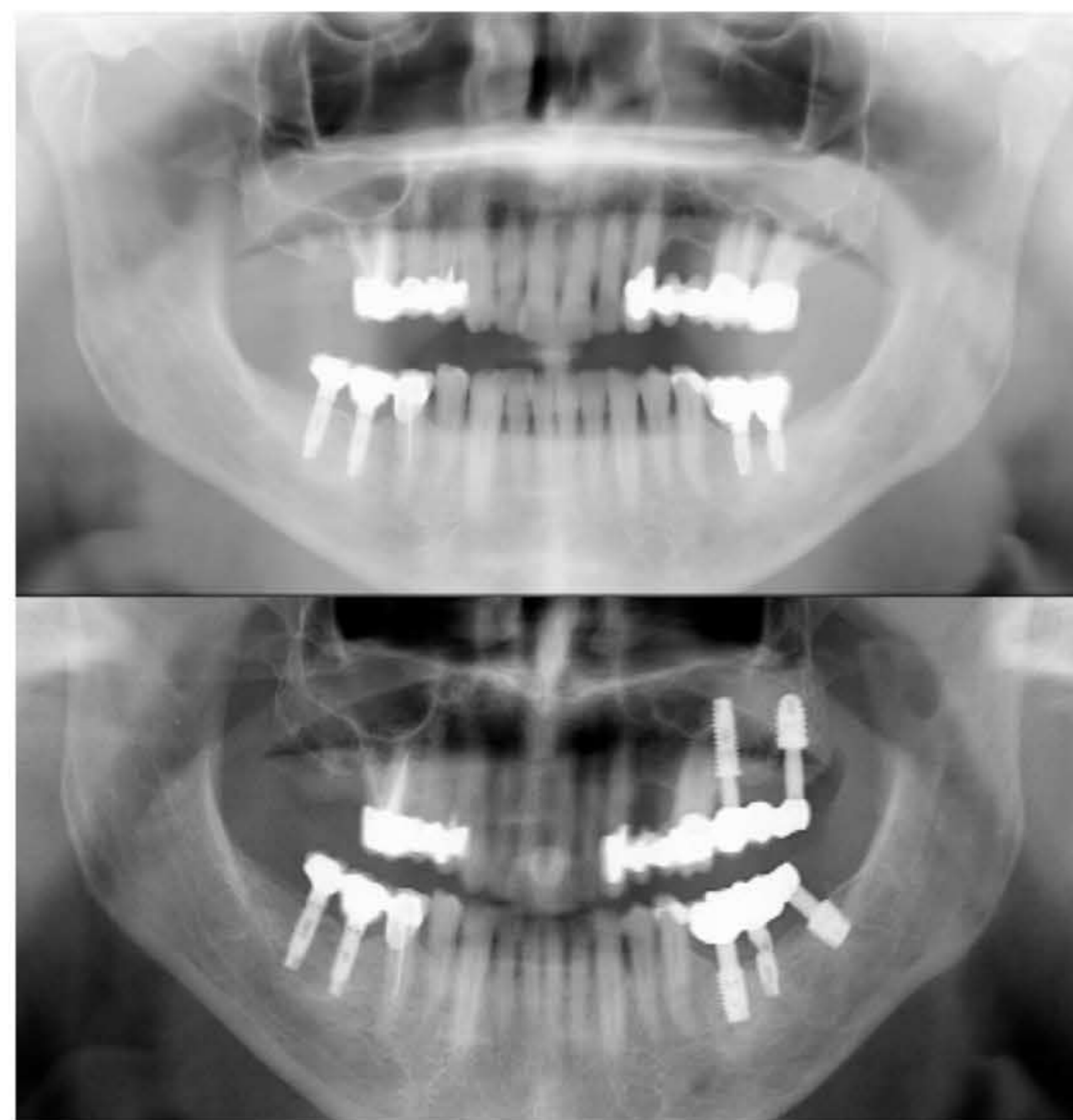
**MATERIALS AND METHODS:** We placed 20 short implants (6 and 8 mm in length; Even, Mech & Human, ITALY) in 15 patients (mean age  $59 \pm 10$  years) and we delivered fixed prostheses supported by universal abutments all  $>5$  mm in height. All subjects were followed up for 3 years and both radiographical and clinical examinations were performed.

**RESULTS:** One implant was lost due to peri-implantitis. The mean crown-to-implant ratio was 2.5 (ranging from 1.5 to 3.75). All the prostheses were antagonist to fixed dentures or natural teeth. No prosthetic failure occurred. The average bone loss was  $0.69 \pm 0.50$  mm in the first year of follow up and  $1.01 \pm 0.3$  mm at the end of the third year of functional loading.

**CONCLUSIONS:** Increased crown-to-implant ratio was not significantly related to marginal bone loss around short implants.

**ESSENTIAL BIBLIOGRAPHY.**

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