



# THE INFLUENCE OF ORTHODONTIC METAL BANDS OR TUBES ON PERIODONTAL HEALTH STATUS



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## INTRODUCTION

Orthodontic appliances can cause periodontal inflammation. In theory the use of buccal tubes instead of bands should minimize periodontal health changes due to the fact that the tubes are positioned away from the gingival margins.

The main aim of this study was to assess the periodontal health status of orthodontic bands compared with tubes in the first three months of orthodontic treatment.

## MATERIAL AND METHOD

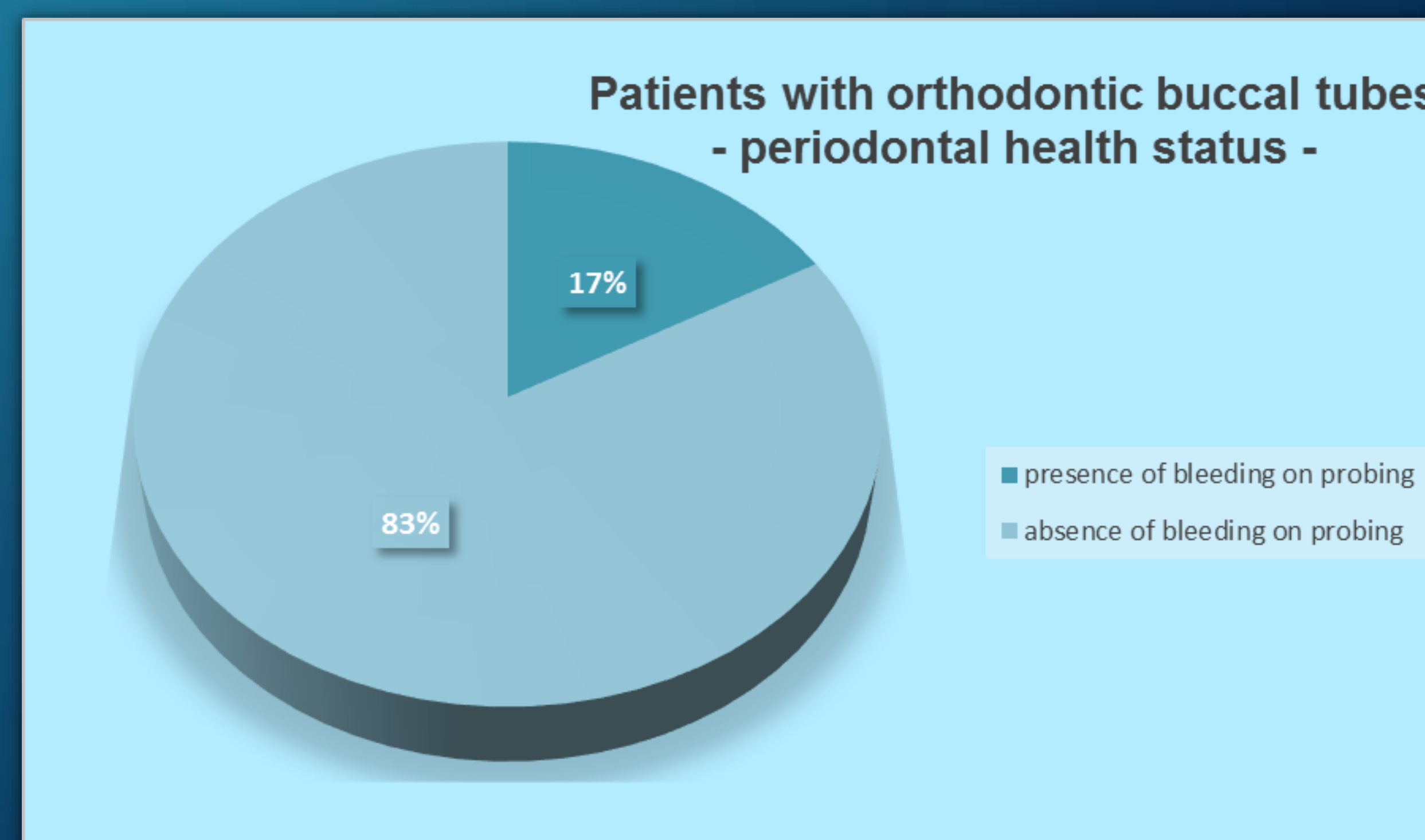
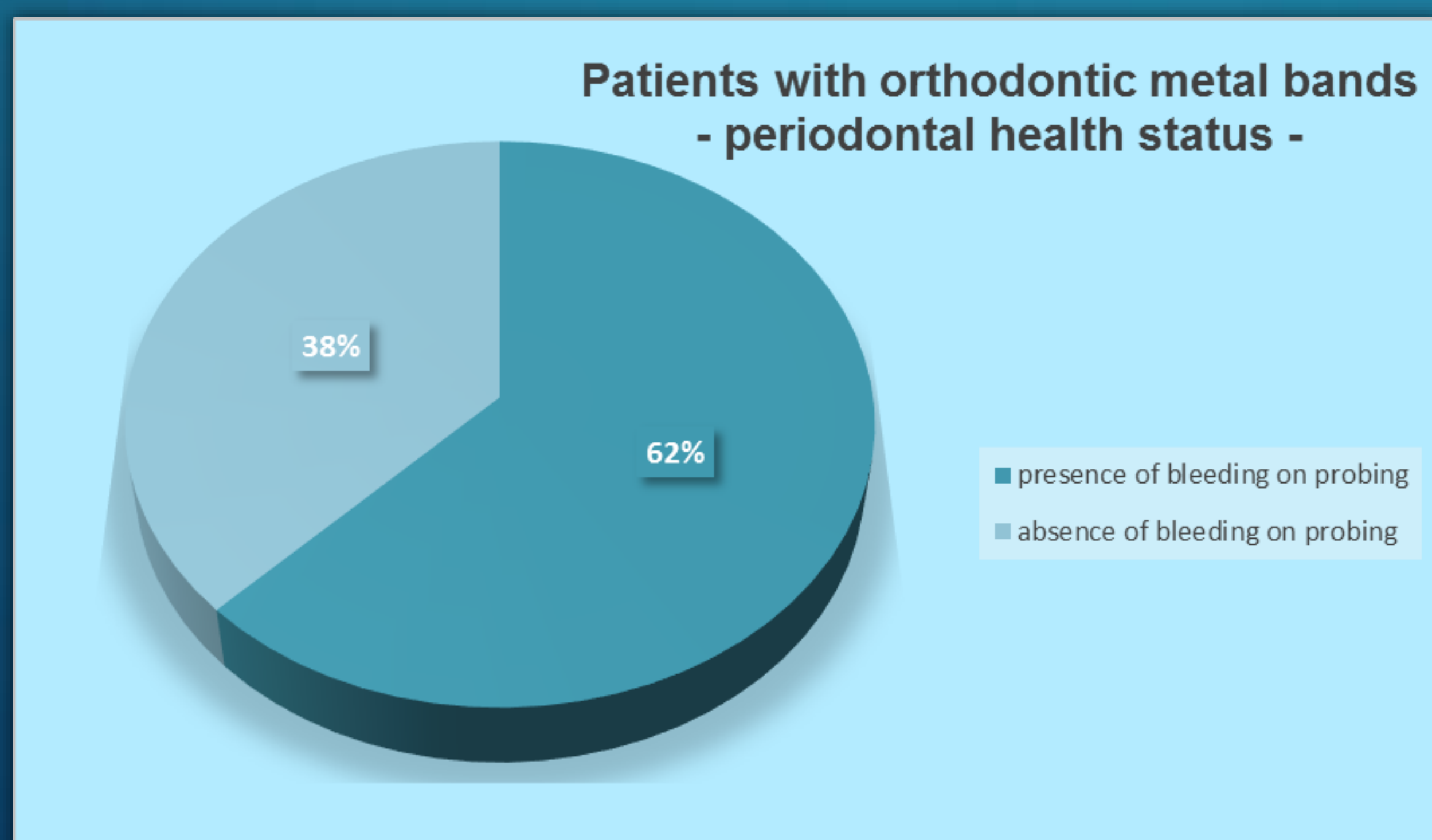
20 patients 10 males and 10 females with mean age  $13.6 \pm 1.21$  years were examined.

Clinical assessment of periodontal health status was done with two parameters: presence or absence of bleeding on probing and probing depth. These measurements were done at the start of treatment and after three months of treatment.



## RESULTS

A statistically significant increase in the bleeding on probing between the start of the treatment and after three months for bands was observed. The difference in the probing depth in bonded teeth at the start of treatment compared with three months of treatment was not statistically significant. It must be noted that the difference in the average values between the banded/bonded molars was statistically significant.



## CONCLUSION

In the early stages of orthodontic treatment molar bands are associated with greater negative influence of periodontal health compared with molar tubes.