How successful are small-diameter implants? A literature review

Abstract

The results of the included studies reveal that the marginal bone loss, survival rate, and patient satisfaction of the mini implant were comparable to those resulting from the conventional implants. Conclusion: No significant difference was observed between the mini implant and the conventional implant.

Methods

The search strategy was designed using (PICO), participant, intervention, comparison, and outcome. The databases included were restricted to implant-related journals and through the references of included studies. Result: Four articles resulted after the final filtration, from which three were reviewed. The number of the participants were 22, 10 participants in the control group were mini implant. The number of the participants were 22, 10 participants in the control group were 10 mini implant lost after 18 months and no mini implant lost and the implant survival rate of mini implants is not as high as that of standard implants. However, they concluded that mini implants were safe and effective for patients because of the frequent instability of the prosthesis.

Conclusion

Mini dental implants were comparable to conventional implants in terms of survival rate, marginal bone loss, and patient satisfaction. However, mini implants were more likely to lose after 18 months. Therefore, the use of mini implants should be considered with caution.

Keywords

Small-diameter implant, survival rate, marginal bone loss, patient satisfaction.