Abstract: Objectives:
The stability of treatment results is an important issue in orthodontics and various methods such as fibrotomy, removable or fixed retainers are used to overcome post treatment relapse.

The aim of this article was Comparison of survival time, effects on periodontium and caries formation in three techniques of fixed retention (FSW, 3-3 canine retainer, FRC)

Content:
Literature review from internet sources and textbooks about comparison of three techniques of fixed retention was done.

1. In 3-3 canine retainer only canine teeth are bonded
2. In FSW (fixed spiral wire) multistrand wires are bonded to the 6 anterior teeth.
3. FRC (fiber reinforced composit) is a combination of resin matrix reinforced with fiber

Clinical findings indicate that all three techniques are very effective as lingual retainers.

Survival time of FSW is 41.5 months, FRC is 11.5 months and canine to canine retainer is followed up twenty years.

up to 3 years, several investigators reported no evidence of hard or soft tissue lesions.

mandibular retainers with retention times of 3 and 6 years, found no signs of dental caries or white spots.

The gingival index data indicate no negative effect on periodontal health

Failure was primarily due to bond failure in all three techniques.

Conclusion:
All three techniques are effective in clinical experience and no long-term data indicate whether bonding all the teeth makes a difference in periodontal health or teeth demineralization. Technique options are dependent to clinician choice.

The advantages of FRC are:
1. esthetics.
2. minimal chair-side time.

Bonded fixed retainer, survival time, dental caries, periodontium

Presentation: Poster