

Dental plaque associated with self-ligating brackets during orthodontic treatment

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Objective: To compare changes in the amount and distribution of dental plaque associated with placement of elastomeric modules over a self-ligating bracket during orthodontic treatment and to relate these changes to the periodontal inflammation.

Materials and Methods: A cross-arch randomisation trial was carried out at Bristol Dental School, UK. Clinical measurements of periodontal inflammation and plaque accumulation and microbiological test were made on twenty four (24) patients wearing fixed appliances (Damon 2 brackets) at the start and three months into fixed orthodontic treatment.

Results: In the first three months of treatment there was no statistically significant difference for bleeding on probing between incisors with and without elastomeric modules ($P = 0.125$ and 0.508 respectively). The difference in plaque accumulation in was not statistically significant ($P = 0.78$). Furthermore, the difference in probing depths between the incisors was not statistically significant ($P = 0.84$). The microbiological analysis using Denaturing Gradient Gel Electrophoresis (DGGE) technique showed no significant difference.

Conclusion: Elastomeric modules were not significantly associated with any increased risk during the initial three months of treatment when compared to self-ligating brackets. Long-term changes would be of great interest.

Biography

Al-Anezi has obtained his Doctorate in Orthodontics from the University of Bristol, UK in 2008. In the same year, he became a fellow of the Royal College of Surgeons of Edinburgh achieving MOrth RCSEd Diploma. He has published few articles in several orthodontic journal including the AJODO and AO. Dr. Al-Anezi also referred for two orthodontic journals. He currently works in Kuwait in both Governmental setting and has a private clinic where he treats successfully a wide range of malocclusions with a variety of sophisticated and contemporary techniques and mechanics.

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