

There is currently a lack of scientific evidence to about prolong retention of open bite malocclusion, from this point of view the idea of this paper start to feel free to change the protocol of wearing of clear retainer in open bite malocclusion because great satisfactions of patients to this type of retainers to see the final outcome of clear and fixed retainer in retention of orthodontic ally treated open bite cases. A sample of 15 orthodontics patients suffer from open bite malocclusion included in this study and 10 of them selected to be involved in this comparative study and 5 cases excluded because the discontinue the consent form of this research. Patient's age ranging from 16 -20 years old. The overbite measurements were done over three time frames these were zero day time of removal of fixed appliances and after six months and after one year by digital vernia. The result of the present study was encouraging to change the protocol of wearing of clear retainer with the help of fixed upper and lower from canine to canine retainer thus repeated measures ANOVA test shows highly significant difference between overbite measurements over three periods of time and Bonferroni test clarify there is highly significant difference between time frame measurements. In conclusion to this paper the holy recommendation for retention after orthodontically treated open bite cases is using clear retainer in upper arch and upper and lower canine to canine fixed retainers with change of protocol of wearing of clear retainer to 24 hours except meal time at least for six month and if extended to one year this will give marvelous result in regards to overbite measurements this will apparently improve the overbite measurement.