ABSTRACT

Background. The discrepancy between available space and required space is one of the important considerations in mixed dentition period. It is important to help establish the treatment plan. In order to know the required space, the value of unerupted canine and premolars were calculated using prediction method. Sitepu and Kuswandari – Nishino have made the new prediction methods that suitable for Deuteromalay. A research was conducted to compare these two methods. Purpose. The purpose of this study is to determine which prediction method between Sitepu and Kuswandari – Nishino is more accurate to predict the required space in Deuteromalay. Method. Forty five selected dental casts samples were obtained from Orthodontic Clinic in Airlangga University. The mesio – distal crown diameters were measured with digital caliper. The required space was calculated using Sitepu method and Kuswandari – Nishino method. The results were statistically analized using Oneway ANOVA. Results. There were no significant differences (p > 0.05) between both prediction methods and the actual size. Conclusion. Both prediction methods, Sitepu and Kuswandari – Nishino, are accurate to predict the required space in Deuteromalay.

Key words : Mixed dentition, required space, Sitepu prediction method, Kuswandari – Nishino prediction method