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ACCURACY OF CAMERIERE METHOD FOR AGE ESTIMATION OF OBESE CHILDREN

EL Bayoumi M H

Tanta University, Egypt

Obesity has been claimed to accelerate dental development and the onset of puberty among children. Many studies showed increased difference between chronologic age and dental age estimated by Demirjian method. It will be valuable if we find an accurate method for age estimation of obese children. Therefore the aim of this study was to assess the accuracy and precision of Cameriere method for dental age estimation of obese children. A cross sectional study of a random sample of 150 panoramic radiographs of obese children aging from 8-12 years was selected from the pedodontic clinic, Faculty of Dentistry, Tanta University, Egypt. Dental age was estimated using Cameriere Method. Results reveal a total over-estimation of age for the total group of participants and the mean over estimation was 0.017 (± 0.012) year. Statistical analysis highlighted a significant high correlation between chronological and estimated ages among males, among females and in total participants with a correlation coefficient $r=0.99$. Almost 88.66% of the participants had their ages predicted within three months of their chronological age, however all the participants had their ages predicted within five months of their chronological age. Accuracy was found to be 99.44%, though it revealed extra accuracy for boys than girls. In conclusion, Cameriere method can be applied in dentistry field for age estimation of obese children.

mh.dental@yahoo.com