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The Reliability of SketchAndCalc™ Area Calculator Software in Evaluating The Obturated Surface Area of Mandibular Premolars and Molars

Mustaffa M.^a ; Mat Yasin N.M.^b; Imam Sopingi S.H.^b; Mohd Ibrahim M.S.^c[Save all to author list](#)^a Department of Restorative Dentistry, Kulliyah of Dentistry, International Islamic University Malaysia, Pahang, Malaysia^b Kulliyah of Dentistry, International Islamic University Malaysia, Pahang, Malaysia^c Department of Dental Public Health, Kulliyah of Dentistry, International Islamic University Malaysia, Pahang, Malaysia[Full text options](#) [Export](#) [Abstract](#)[Author keywords](#)[SciVal Topics](#)**Abstract**

INTRODUCTION: The measurement consistency of an assessment tool in biomedical research is important for validation of data. This study aims to determine the reliability of SketchAndCalc™ Area Calculator software in evaluating the obturated surface area of single rooted mandibular premolars and mandibular first molars between two examiners and to compare with the previous studies. **MATERIALS AND METHODS:** 30 scanning electron microscopy (SEM) images of extracted single rooted mandibular premolars and 30 SEM images of mandibular first molars were obtained from the previous studies. The extracted teeth were previously obturated with GuttaFlow Bioseal. Calibration between two examiners was done prior to start of the study. SketchAndCalc™ Area Calculator software was used to evaluate the volumetric percentage of obturated surface area. Inter-examiner reliability was determined between two


examiners and compared to the previous studies using Intraclass Correlation Coefficient (ICC) with the following categories; ICC[removed]0.9: excellent reliability. The data was analysed with SPSS version 25.0. RESULTS: The ICC values between two examiners were 0.979 in mandibular premolars and 0.918 in mandibular molars. Meanwhile, the ICC values between two examiners and to the previous studies were 0.844 in mandibular premolars and 0.962 in mandibular molars. CONCLUSIONS: Excellent inter-examiner reliability was observed in premolars and molars, however when compared to the previous studies, good and excellent inter-examiner reliability were observed in premolars and molars respectively. © (2023). All Rights Reserved.

Author keywords

GuttaFlow Bioseal; Inter-examiner reliability; mandibular molars; mandibular premolars; SketchAndCalc™ Area Calculator software

SciVal Topics 



 Mustafa, M.; Department of Restorative Dentistry, Kulliyah of Dentistry, International Islamic University Malaysia, Jalan Sultan Ahmad Shah, Bandar Indera Mahkota, Pahang, Kuantan, Malaysia; email:

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