Brazilian Oral Research
Print version ISSN 1806-8324

Abstract

FREITAS, Patr鬾ia et al. Reproducibility of pixel values for two photostimulable phosphor plates in consecutive standardized scannings. *Braz. oral res.* [online]. 2006, vol.20, n.3, pp. 207-213. ISSN 1806-8324. doi: 10.1590/S1806-83242006000300005.

The objective of the present study was to determine the reproducibility of the pixel values obtained with the Digora system (Soredex, Finland). Exposures were standardized, with variation in exposure and scanning time of two photostimulable phosphor plates containing a stepwedge image. The smallest variation in pixel values ranged from 50 to 75%, with the widest variations being observed in less dense steps. A significant difference in pixel values was observed in terms of X-ray exposure and scanning times and between the two plates themselves (ANOVA, $p < 0.01$). Using the present methodology, the reproducibility of pixel values was not satisfactory for the tested white photostimulable plates. This wide variation in digitalization might be influenced by the amount of X-rays that sensitized the plates. It may be important to establish the reproducibility of the pixel values in quantitative studies using digital image.

Keywords : Radiography; dental; digital; Reproducibility of results.

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