

Evaluation the effectiveness of the use of radiographic images database for identification of dental implants

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This study aimed to evaluate the use of a bank of periapical radiographic implants images, to identify installed dental implants in radiographed clinical cases as well as identify which implant region helps to identify when there are doubts among similar implants and identify which types of implant connections has been difficult to differentiate between images of clinical cases. From 45 implants samples from 07 manufacturers, divided between internal and external connections, a catalog was prepared with standard images from the horizontal rotation of the implants (0°, 30° and 60°), which was used to identify 50 pre-selected clinical cases. For the research, 10 evaluators examined the cases resulting in 500 images evaluated. As a result, the specific identification showed a significant error rate (68.4%), revealing the difficulty in radiographic differentiation between projects of respondents implants, however, if compatibility is considered between implants projects through their platforms, a significant change occurs in the overall identification profile (62%). To compare the groups, we used the Q-square test of Pearson ($p < 0.05$). It was concluded that it is possible a positive clinical identification of the implants through the catalog, if we consider the identification of compatible models intra and inter manufacturer, but the data bank can not be the only means used; the implant region most often used when there are doubts among similar implant is the apical region and compatibility hits occurred under the influence of the cervical third image; external connection implants generate more doubt in identification when radiographs are used.

Biography

Julia Rosas Salomão has completed her Master degree in Dental Prosthesis from SL Mandic College and she is a University professor at Universidade de Fortaleza. She is also a professor in graduate course of dental prosthesis and develops research aimed area of technology applied to education.

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