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Abstract

This study was conducted at Academic charity teaching hospital and Khartoum teaching dental hospital, in the period from December 2005 to April 2007.

This study was done to number of (120) patients, 30 patients for each technique, by using different types of dental machines (Philips, Siemens & Shimadzu).

This thesis had studied different anatomical finding and different technical faults by using different type of techniques (periapical, occlusal, lateral /oblique and O.P.G).

This study aimed to choose the best and suitable technique use for detecting pathology, and also to evaluate and compare between the dental techniques to find out the best technique used for each case.

The results of this study was that the periapical examination is the best technique to demonstrate the tooth and it's main tissue, and it cause less technical fault compare with the other techniques. Also O.P.G is the superior technique when demonstrating the surrounding structures of the teeth.

بسم الله الرحمن الرحيم

ملخص الدراسة

أجريت هذه الدراسة بمستشفى الأكاديمية الخيري التعليمي ومستشفى الأسنان التعليمي - الخرطوم ، فى الفترة ما بين ديسمبر 2005 م وحتى أبريل 2007 م .

أجريت الدراسة على عدد 120 مريض، بمعدل 30 مريض لكل تقنية، وذلك بإستخدام أنواع مختلفة من أجهزة الأسنان (فيليب ، سيمينس ، وشيمادزو).

درس البحث مختلف الأجزاء التشريحية ومختلف الأخطاء التقنية الناتجة عن إستخدام تقنيات التصوير المختلفة (الفحص القمى الأفقى، فحص إطباق الأسنان، الفحص المائل الجانبي، تقنية فحص الفك العلوى والسفلى).

تهدف هذه الدراسة لإختيار أفضل وأنسب تقنية تستخدم لتحديد المرض، أيضاً التعميم والمقارنة بين تقنيات الأسنان لإيجاد أفضل تقنية تستخدم لكل حالة.

نتائج الدراسة أن تقنية الفحص القمى الأفقى هى أفضل تقنية لفحص الأسنان وأنسجتها الأساسية وهى أقل التقنيات الأخرى أخطاءً تقنية' كذلك أن تقنية تصوير الفك العلوى والسفلى أفضل تقنية عند فحص التراكيب المحيطة بالإسنان.

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Dedication

To my mother

To soul of my kind father

To my dear husband

To my lovely son

**To my supervisor for her appreciable,
great help, advice and endurance**

To my friends and colleagues

To every one who ever help me

To all of them I dedicate this work