Dedication

It’s my pleasure to dedicate this thesis to the cornerstones in my professional life; they left an unforgettable fingerprint, my teachers, leaders, and scientist.

Sure in my personal life to my Parents, my brother, my sisters and special dedication to the soul of my beloved Grandfather and Aunt who’s their encouragement & motivation was the real motive behind my success.

To all my family members whom I could never have achieved this without their unlimited support.

To my friends and my colleagues.

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Abstract

This study was done to evaluate the National safety form in MRI centers as well as to compare the national safety form with the international one.
The study was done at Khartoum Advancing Diagnostic Center (KADC), Elrabat University Hospital and National Cancer Institute (NCI) in Wed Medani, in the period from January 2011 to June 2011.

The sample of the study was 50 patients from both gender and with different ages and examinations. All patients were asked to fill and answer the international ideal safety form before their examination, this to ensure the application of the safety procedures. The national MRI forms were compared with the national one; so as to be able to evaluate what was applied in MRI departments in Sudan.

The data was analyzed by using statistical package for Social Studies (SPSS), 32% had prior surgery, 6% had eye involving metallic object, 20% were injured by foreign body, 20% were suspected to be pregnant 14% had infusion pump, 4% had implanted drug infusion devise, 2% had prosthesis, 8% had prosthesis limb, 14% had external and internal metallic objects as well as 36% of the sample with hearing aid and were examined by MRI. 6% had cardiac pacemaker, 6% had cochlear implant and implanted hearing aid 2% had metallic fragments and foreign body and were not examined by MRI.

The study concluded that this application was not filling full by the international safety procedures guide lines.

الخلاصة

أجريت هذه الدراسة لتقييم استمارة السلامة في مراكز التصوير بالرنين المغناطيسي في السودان وكذلك مقارنتها باستمارة السلامة العالمية.
وقد تمت هذه الدراسة في مركز الخرطوم التشخيصي المتطور، مستشفى الرباط الجامعي والمعهد القومي للسرطان، في الفترة من 20 يناير 2011 إلى 20 يونيو 2011.

وشملت العينة (50) مريضاً من كلا الجنسين ومختلف الأعمار و مختلف الفحوصات. وقد طلب من جميع المرضى ملء الإجابة على إستمارة الأمان الدولية قبل إجراء الفحوص، وهذا لضمان تطبيق إجراءات السلامة. 

الإستمارات المحلية في مراكز التصوير بالرنين المغناطيسي تمت مقارنتها مع الاستمارات الدولية، حتى يتم تقييم ما تم تطبيقه في وحدات التصوير بالرنين المغناطيسي في السودان.

تم معالجة البيانات باستخدام الحزمة الإحصائية للدراسات الاجتماعية ووضعت النتائج ان 32% لديهم عمليات جراحية سابقة، 6% تحتوي اعيانهم على شظايا، 20% لديهم جروح بجسام غريبة، 20% يحتمل وجود حمل، 14% لديهم مضخات سوائل، 2% لديهم اطراف صناعية، 14% لديهم اجسام معدنية سواء ان كانت داخلية او خارجية وكذلك 36% لديهم سماعات اذن. وبالرغم من ذلك تم اجراء فحص التصوير بالرنين المغناطيسي لديهم جهاز تنظيم ضربات القلب، 6% لديهم اجرية لهم زراعة شبكية 6% وادا سمع، 2% لديهم اجسام غريبة تحتوي على بقايا معدنية ولم يتم اجراء الفحص لهم.

اظهرت النتائج ان اجراءات السلامة المحلية لم تطبق ما اوصت به اجراءات السلامة العالمية.

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