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ABBREVIATIONS

QA      : Quality Assurance.
QC       : Quality Control.
QAP     : Quality Assurance Program.
QADP    : Quality administrative procedures.
Kvp     : Kilovoltage peak.
mAs     : Milliambers Second.
RA      : Reject Analysis.
SOP     : Standard Operation Procedures.
FFD     : Focal Film Distance.
HVL     : Half Value Layer.
SID     : Source Image Distance.
ID      : Identification.

ABSTRACT

Due to the importance of the QA and QC are important in many field related to radiology field to improve the medical service. In this study
evaluation of the importance of applying QA in Elgadida department in Khartoum Teaching Hospital was carried out.

The study period was from February – September 2004. In the study several methods of data collection were adopted, such as observation, interviewing, questionnaire, performance of x-ray tube and generator, and darkroom test.

It was found out that there is no QA program in Elgadida department that result on bad image quality beside there is defect in focal spot size. The darkroom is not suitable for proper work this clear from the negative results of tests this improved by QA.

By applying partial QA program in Elgadida department (film rejection analysis) an improvement of performance and image quality was noticed. The repeated films were decreased by 14%, which lead to reduce the cost.

الخلاصة

نسبة لأهمية ضمان ضبط الجودة في شتى المجالات كان من الضروري مناقشتها في مجال الأشعة و إنعكاس ذلك في ترقيه الأداء و تطوير الخدمات الطبية العلاجية منهاو التشخيصية لذا في
هذا العمل تم تنفيذه في فترة من 1 أيلول 2004 وحتى سبتمبر 2004، وذلك بإتباع منهج يعتمد على عدة طرق لجمع البيانات منها الملاحظة، المقابلة، الإستبيان وقياس كفاءة جهاز الأشعة، واختبارات الوظيفة المظلمة. فقد اظهرت النتائج الآتية:

غيباب تطبيق برنامج ضبط الجودة بقسم الأشعة الجديدة مما انعكس على جودة الصورة المنتجة، وعطل في جهاز الأشعة. كما أن الوظيفة المظلمة غير فعالة للعمل الجيد. و ذلك يتمحى بعد إجراءات الجودة التي أجريت.

بعد تطبيق جزء من برنامج ضبط الجودة كجزء من برامج الأفلام المعروضة، وجدنا أن هناك تحسن ملحوظ في أداء العاملين و جودة الصور، بإخفاق الصور المعادة بنسبة 14% وبالتالي تقليل التكلفة.

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