

Peer Review Tool for General Radiography Technologists Improves Image Quality

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Abstract

Purpose: Quality improvement is vital to ensure health-care providers meet optimal patient care standards. Within our jurisdiction, accreditation requires image peer review as part of the quality assurance program. We propose a method to improve quality assurance in radiography by implementing a novel software-based peer review system for radiography technologists. **Methods:** This is a retrospective study. A peer review tool was developed in Microsoft Excel and Visual Basic. The tool has 14 image quality criteria, which were selected based on national and international criteria, each containing standardized answers ensuring a common scoring regime. The tool provides data analysis and storage of all peer reviews performed. Radiography supervisors utilized the tool to evaluate image quality of various body parts at 28 hospitals. The tool enabled each Medical Imaging Department to objectively score images at their own hospital. Approximately 2% of all radiographs were randomly chosen for peer review. Additionally, the tool allowed for regional analysis based on hospital, body part, and quality criterion. **Results:** Initial findings exposed equipment-related issues such as worn imaging plates, artifacts, and poor exposures, which prompted increased preventative maintenance. Other documented issues included foreign objects, inadequate collimation and centering, and inconsistent usage of lead markers. After identifying quality assurance-related issues, hospitals implemented education, resulting in improved overall image quality scores in subsequent audits. **Conclusions:** The peer review tool helped identify and correct various issues affecting image quality and ensures our program meets required accreditation standards. Furthermore, staff found utilizing the tool to identify areas for improvement improved collaboration, ongoing education, and support between staff.

Résumé

Objectif : L'amélioration de la qualité est essentielle pour garantir aux professionnels de la santé qu'ils atteindront les meilleures normes de soins qu'ils puissent offrir à leurs patients. Dans notre province, un agrément exige un examen des clichés d'imagerie par un comité d'experts en la matière, dans le cadre de notre programme d'assurance qualité établi. Nous proposons une méthode d'amélioration de l'assurance qualité en radiologie par le déploiement d'un système logiciel innovant d'évaluation des résultats d'imagerie par comité d'examen destiné aux techniciens dans ce domaine. **Méthodes :** Il s'agit d'une étude rétrospective. Un outil d'évaluation par comité d'examen a été mis au point dans les logiciels Excel et Visual Basic de Microsoft. L'outil se compose de 14 critères de qualité d'image, sélectionnés sur la base de critères nationaux et internationaux, comportant sous des réponses normalisées afin d'assurer un schéma de notation commun. L'outil propose une analyse et un stockage des données pour tous les examens effectués par le comité. Les responsables de service de radiologie ont utilisé l'outil pour évaluer la qualité des clichés de diverses parties du corps, dans 28 centres hospitaliers. L'outil a permis à chaque service d'imagerie médicale d'attribuer une note aux clichés de manière objective, sur le site de leur propre centre. Environ 2 % de l'ensemble des radiographies ont été choisies au hasard pour être examinées par le comité. Par ailleurs, l'outil était propice à une analyse régionale sur la base du centre hospitalier, de la zone anatomique et du critère de qualité. **Résultats :** Les premiers résultats ont dévoilé des problèmes d'équipement, tels que des plaques d'imagerie usées, la présence d'artefacts et des expositions insuffisantes, ce qui a augmenté la mise en œuvre d'entretiens préventifs. Les autres problèmes rapportés comprenaient la présence de corps étrangers, une collimation et un centrage inadéquats, ainsi que l'absence d'uniformité dans l'utilisation des marqueurs pour films. Après

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Quality Management In Radiography A Technologists Guide

D. A. Saia



Quality Management In Radiography A Technologists Guide:

National Library of Medicine Current Catalog National Library of Medicine (U.S.),1992 **Application of Optical Instrumentation in Medicine** ,1977 *European Guidelines for Quality Assurance in Mammography Screening* Nicholas Perry,J. Schouten,2001 The benefits of a screening programme for breast cancer are early detection and the subsequent reduction of mortality The potential disadvantages are unnecessary anxiety inappropriate economic cost and the use of ionising radiation To ensure that the benefits outweigh the disadvantages the whole screening system needs to be completely quality assured These European guidelines are based on the experience gained through national screening programmes It contains information that can be applied at all levels and improvements can be achieved by following the technical advice This third edition has been revised in the light of further experience over the past four years **Resources in Education** ,1981 *Choice* ,2002-05 *European Guidelines for Quality Assurance in Mammography Screening* ,2006 **European Guidelines for Quality Assurance in Breast Cancer Screening and Diagnosis** European Commission. Directorate-General for Health and Consumer Protection,Nicholas Perry,2006 Breast cancer is the most frequent cause of cancer related deaths in women in Europe and demographic trends indicate a continuing increase in this substantial public health problem Systematic early detection through screening effective diagnostic pathways and optimal treatment have the ability to substantially lower current breast cancer mortality rates and reduce the burden of this disease in the population This is the fourth edition of these guidelines which contains information on recommended standards and procedures for breast cancer screening and diagnostic services including chapters on multi disciplinary aspects of quality assurance data collection and monitoring effective communication of information requirements of a specialist unit and a certification protocol *Mosby's Comprehensive Review of Radiography* William Joseph Callaway,1998 This outstanding text offers a comprehensive review in outline form of all major subject areas covered on the American Registry of Radiologic Technology ARRT exam in radiography It provides review information question and answer sections a mock registry exam information on preparing resumes interviewing and career planning all in one comprehensive resource The disk includes two 200 question mock exams 119 illus **Vocational and Technical Resources for Community College Libraries** Mary Ann Laun,1995 **Textbook of Radiographic Positioning and Related Anatomy** Kenneth L. Bontrager,1993 **Merrill's Atlas of Radiographic Positions and Radiologic Procedures** Philip W. Ballinger,1999 *The Fundamentals of Imaging Physics and Radiobiology* Joseph Selman,2000 **Quality Management for Radiographic Imaging** Andrea Trigg Stevens,2001 This affordable simple to use study guide is the perfect tool for anyone preparing for the ARRT advanced certification exam in quality assurance Discusses the quality control tests for the processing area the radiographic suite the fluoroscopic suite the mammographic suite and mobile radiographic and fluoroscopic equipment Each test is tabbed for easy access and contains exam specifications set by the ARRT plus a variety of sample record keeping forms *The British Journal of*

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