Structured Computed Tomography Quality Assurance Program in Neuroradiology

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Purpose

This project aims to determine whether a structured Quality Assurance (QA) process in the neuroradiology section can decrease the number of QA flags, improve patient care, strengthen physician trust and improve department efficiency.
Methods

- Once Technologist gets the QA, they have 1 week to respond with confirmation of message.
- QAs are discussed at team huddles and during 1:1 meetings between supervisor and technologist.
- CT leadership and Neuroradiologists have monthly meetings to review QA issues and resolutions as well as work on quality improvement projects.
- Group chat was created to increase communication for day-to-day operations.
Protocol:
- To ensure correct exam is done according to the indication.

Technique:
- To ensure patient is in perfect anatomical position and all area(s) of interest is included in the scan.

Reconstruction:
- Making sure that all required reformats is completed and sent to PACS prior to ending the exam, indicating it is safe for dictation.

Scanner:
- Making sure that all scanning parameters, kV/mAs, is within ACR guidelines and producing optimal diagnostic images. Keeping up with required preventative maintenance and daily/monthly QA/QC are completed accordingly.

Other:
- For example, unexplained artifact.
Results

Total Image Quality Issues (CT) 2022

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<th>Month</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
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- Quality Review Process with Neuro Rads
- Presented at Faculty Meeting
RSNA 2023
LEADING THROUGH CHANGE

THANK YOU