Purpose

To introduce quality improvement initiatives ensuring that all Radiologic Technologist working with musculoskeletal X-rays are dedicated and specialized within their field.

Advanced practice

- The patient was positioned in a prone position.
- The lower leg was placed on a knee support.
- The femoral head of the leg was placed in contact with the image receptor.
- The patient was instructed to hold their breath during the exposure.

2-day MSK course

- Radiography principles and techniques for musculoskeletal imaging.
- MSK anatomy and pathology.
- Practical skills in positioning and exposure parameters.

Radionistologist

- Assessment of radiographic images for quality assurance.
- Radiographer education on MSK imaging.
- Radiographer audit and feedback sessions.

Education

- MSK radiography guidelines and best practices.
- Radiation protection and safety.

App (Application)

- Radiograph selection application.
- Image quality assessment tool.

Audit

- Radiographic audit and feedback.
- Continuous improvement initiatives.

Methods

A 2-day intensive course on MSK radiography

- Introduction to various quality improvement initiatives in MSK radiography.
- Understanding the anatomy and pathology of MSK.
- Practical exposure parameters and techniques.
- Audit on positioning

Auditing on positioning

- Radiographers are evaluated on their ability to perform musculoskeletal imaging correctly.
- The radiographer is provided with feedback to improve their positioning skills.

Results

Continuous focus and education on positioning and quality of 90 days led to a marked improvement from baseline to audit 1 (p<0.002), 47 points (baseline to Audit 2) (p<0.002) and significant improvement (p<0.002) in positioning and overall radiographic quality.