

The Medical Physicist in Nuclear Medicine

Dr Fergus McKiddie
Nuclear Medicine Physicist

My Career Progression

- 1988 – 90 Scientist with AEA Technology
- 1990 – 91 MSc Medical Physics at Aberdeen
- 1991 – 95 PhD and RA in Nuclear Medicine and MRI
- 1995 - ? Physicist in Nuclear Medicine

Clinical Responsibilities

Authorisation of imaging requests

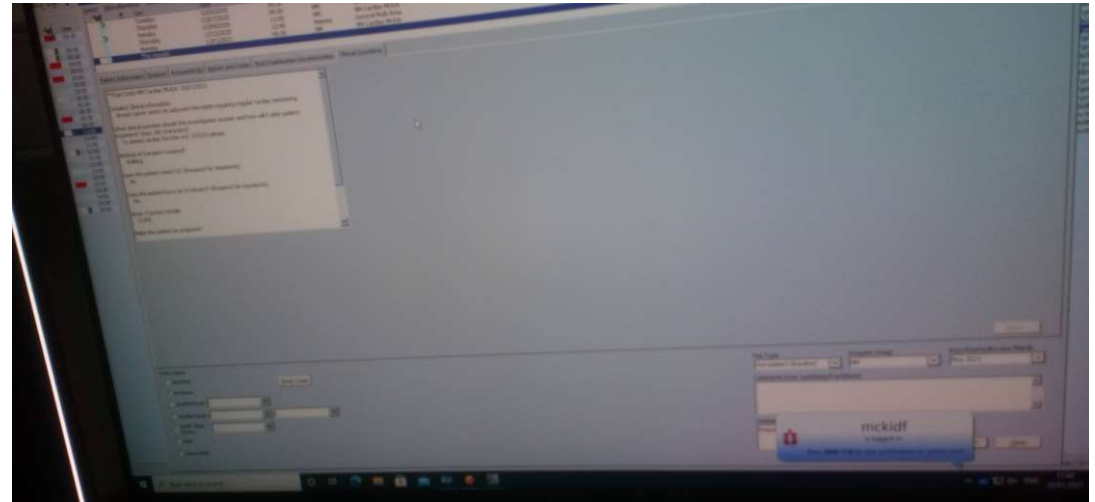
Checking of activity prior to injection

Checking of images after acquisition

Image processing and analysis

Reporting of images

Contamination monitoring



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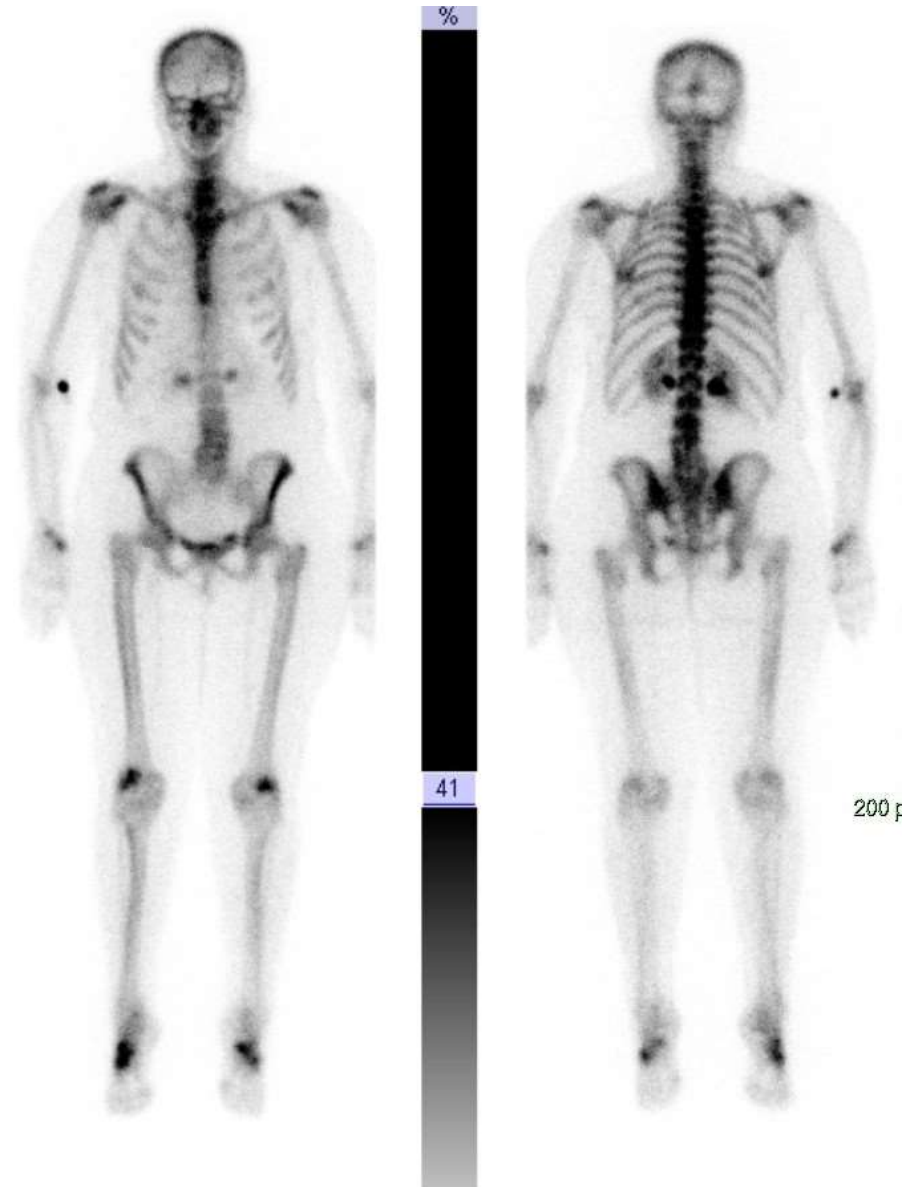
Reporting of images

Contamination monitoring



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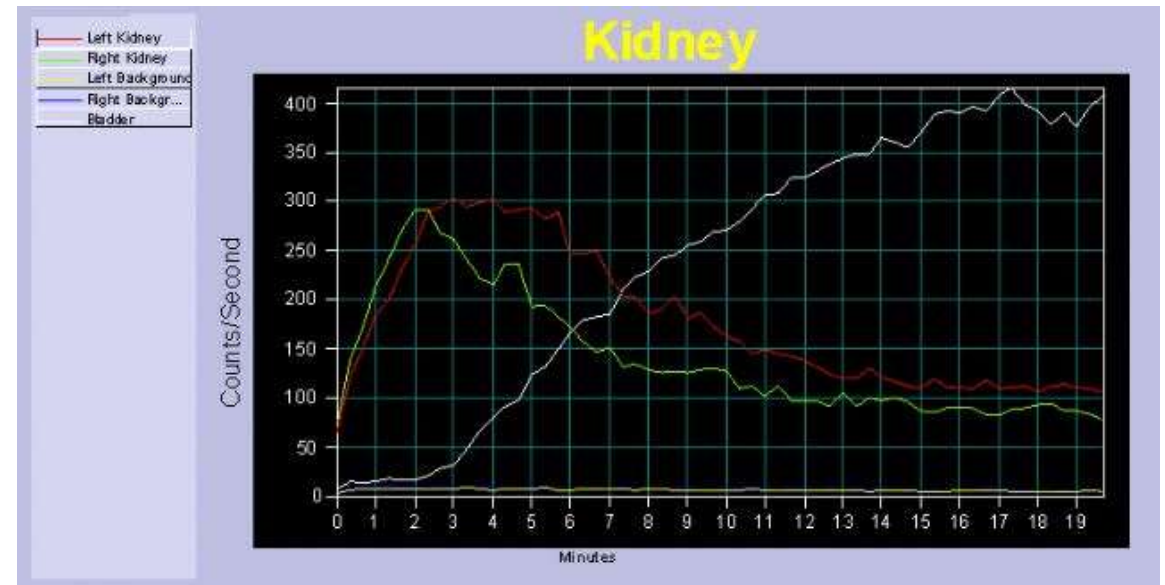
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- Procurement of imaging systems
- Commissioning of imaging systems
- Daily, weekly & quarterly QC tests
- First-line fault finding and repair
- Medical Physics Expert for NM & PET



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Teaching

Lectures, practicals and project supervision with Medical Physics MSc & PhD students

Training co-ordinator for Scottish Medical Physics & Clinical Engineering Training Scheme

Co-ordination and lecturing of Physics syllabus to 1st year Registrars sitting FRCR

Attachments with 2nd and 5th year Medical students

External examiner for PhD theses and AHCS Equivalence Portfolios

Research

Propose, develop and carry out imaging research

Make applications for funding from CSO, Charities,
Endowments, etc

Facilitation of national and international trials

Acting as Medical Physics Expert on Ethics Applications

Procurement of necessary licences for all trials

Professional

Produce monthly activity statistics for Scottish Government Information Services Division

Sit on Scottish PET Steering Group

Sit on Scottish NM Heads of Service Group

- implementation of national Ga-68 PET service
- implementation of national Lu-177 therapy service

Sit on IPEM committees – course accreditation committee and events panel