



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

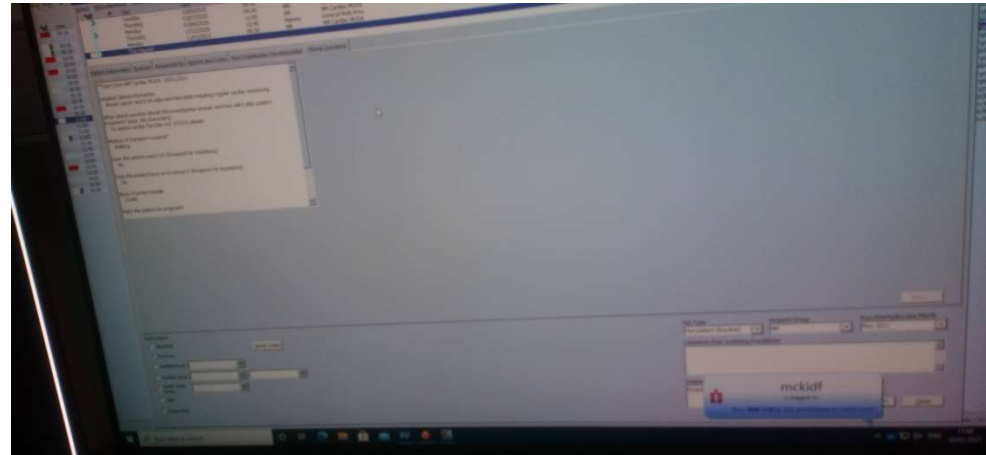
1991 – 95 PhD and RA in Nuclear Medicine and MRI

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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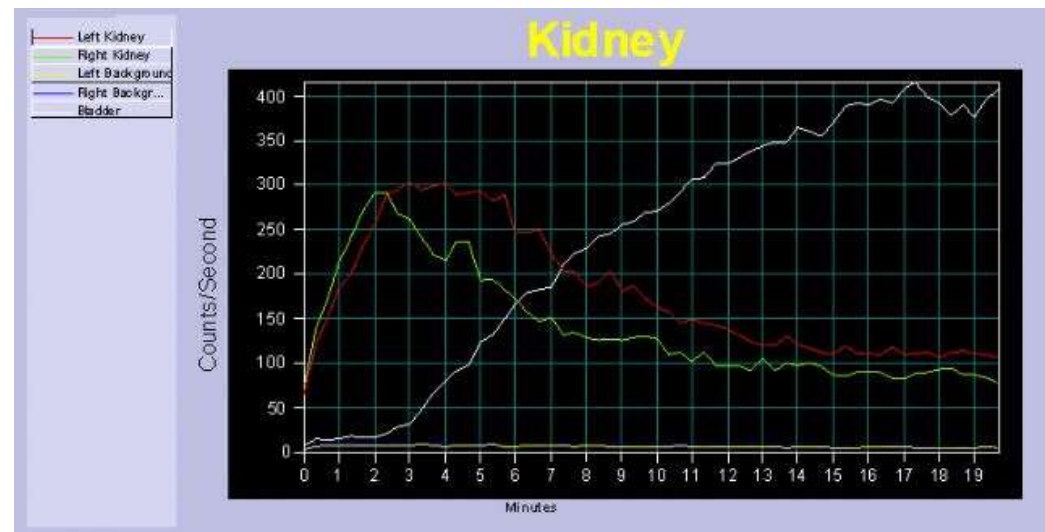
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Clinical Responsibilities

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 Ra-223 service
- implementation of national Ga-68 PET service