



Mammography Physics Training Meeting

30th September 2019, Birmingham Repertory Theatre

PROGRAMME

Day 1: Monday 30th September

09:30 – 10:15 **Coffee and Registration**

Mammography Physics Basic Training Session 1

10:15 - 10:30 **Welcome and Introduction**

The NHSBSP: Structure and Quality Assurance

Esther Paisley, University Hospitals of North Midlands NHS Trust

10:30 – 10:55 **The NHSBSP: The Patient Journey and the Mammographic Image**

Zoe Vegnuti, University Hospital Birmingham

10:50 – 10:55 **Where is Physics in the Patient Journey?**

Esther Paisley, University Hospitals of North Midlands NHS Trust

10:55 – 11:30 **The Physics of Mammography and Mammography Equipment**

David Thompson, University Hospitals of North Midlands NHS Trust

11:30 – 12:15 **The AEC Performance Testing**

Lauren Tedder, Imperial College Healthcare NHS Trust

12:15 – 13:00 **Lunch**

Mammography Physics Basic Training Session 2

13:00 – 13:30 **Measurement of Tube Parameters**

Esther Paisley, University Hospitals of North Midlands NHS Trust

13:30 – 14:10 **Detector Performance Tests**

Lauren Tedder, Imperial College Healthcare NHS Trust

14:10 – 14:50 **Measurement of Image Quality**

Lucy Warren, Royal Surrey County Hospital NHS Foundation Trust

14:50 – 15:10 **Tea and Coffee**

Mammography Physics Basic Training Session 3

15:10 – 15:30 **Quantitative IQ Measurements**

Dave Thompson, University Hospitals of North Midlands NHS Trust

15:30 – 16:00 **Optimisation in Digital Mammography**

Lucy Warren, Royal Surrey County Hospital NHS Foundation Trust

16:00 – 17:00 **Dose and Regulations**

- **Measurement of MGD and Breast dosimetry**
- **Ionising Regulations and Implementation within the NHSBSP**

Eugenia Kulama, Imperial College Healthcare NHS Trust

17:00 **Close**

Organised by the National Breast Screening QA Coordinating Group for Physics



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PROGRAMME

Day 2: Tuesday 1st October

Mammography Physics Training Session 1

09:15 – 09:45 **Registration for New Attendees & Coffee**

09:45 - 10:15 **Alignment, Stereo Testing Including Prone Table and Lateral Arms and Other Tests**

Anne McCurrach, NHS National Services Scotland

10:15 – 10:25 **Monitor Testing**

Esther Paisley, University Hospitals of North Midlands NHS Trust

10:25 – 10:35 **Digital Specimen Cabinet Testing**

Samantha Nicholson

10:35 – 11:05 **Image Artefacts**

Anne McCurrach, NHS National Services Scotland

11:05 – 11:35 **Tea and Coffee**

Mammography Physics Training Session 2

11:20 – 11:50 **Ultrasound Standards for the NHSBSP**

Esther Paisley, University Hospitals of North Midlands NHS Trust

11:50 – 12:25 **Introduction to Physics Performance Tests Required by NHSBSP70**

Prashant Verma, Sheffield Teaching Hospitals NHS Foundation Trust

12:25 – 13:25 **Lunch**

Mammography Physics Training Session 3

13:25 – 14:25 **MRI in the NHSBSP: Technical Standards and Future Plans**

Maria Schmidt, Royal Marsden NHS Foundation Trust

14:25 – 14:50 **Coffee and Registration for tomosynthesis session**

Mammography Physics Training Session 4

14:50 – 15:00 **Overview of Breast Tomosynthesis and Review of Current Systems**

Alistair Mackenzie, Royal Surrey County NHS Foundation Trust

15:00 – 16:15 **Summary of Tomosynthesis Tests**

AEC, Outputs, Image Quality etc

Esther Paisley, University Hospitals of North Midlands NHS Trust

16:15 – 16:45 **Tomosynthesis Specific Tests, Geometric Distortion, Artefact Spread, Alignment, Uniformity.**

Samantha Nicholson, Velindre NHS Trust

16:45 – 17:00 **Tomosynthesis Dosimetry**

Alistair Mackenzie, Royal Surrey County NHS Foundation Trust

17:00 **Close**

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PROVISIONAL PROGRAMME

Day 3: Wednesday 2nd October

- 09:00 - 09:30 **Coffee and Registration**
- 09:30 - 10:45 **Mammography Physics Basic Training Session 1 – New PHE Guidance**
Guidelines for Medical Physics Services
Oliver Morrish, Cambridge University Hospitals NHS Foundation Trust
National KPI data
Alistair Mackenzie, Royal Surrey County NHS Foundation Trust
Round Table Panel
TBC
- 10:45 – 11:15 **Tea and Coffee**
- Mammography Physics Basic Training Session 2 – New Developments in Mammography**
Artificial intelligence in breast screening
David Proud, NHS Scotland
- 12:15 – 13:15 **Lunch**
- 13:15 – 14:25 **Mammography Physics Basic Training Session 3 – The PHE Evaluation Process**
The Practical Evaluation process
Emma O’Sullivan, Public Health England.
The Technical Evaluation process
Alistair Mackenzie, Royal Surrey County NHS Foundation Trust
Current state of Evaluations
Zoe Vegnuti, University Hospital Birmingham
- 14:25 – 14:50 **Tea and Coffee**
- Mammography Physics Basic Training Session 4 – Manufacturers Session**
- 14:50 – 17:00 **Low Dose Mammography with Optimized Image Quality**, Ferdinand Lueck
Siemens
Choice of radiographic factors and image quality/dose trade-off, Remy
Klausz. GE Healthcare
3D™ Imaging with Synthesized 2D Images: Making the Transition from C-View™ to Intelligent 2D™ Imaging, Ema Abello Hologic
Clinical perspective on contrast enhanced mammography, Prof Andy Gash
Fujifilm
MIS TBC
- 17:00 **Close**

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