Digital Imaging Summit 2020
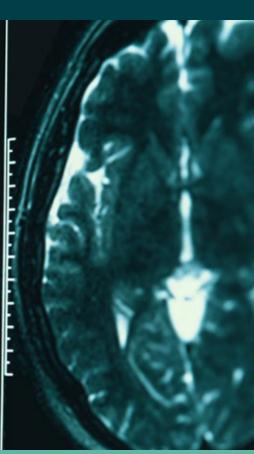
Improving Radiology Reporting, Information Systems & PACS

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Friday 13 November 2020   **Virtual Conference**

Chairs and Speakers Include:

Dr Stephen Fenn
Consultant Radiologist
Hampshire Hospitals
NHS Foundation Trust

Dr Peter Rowlands
Consultant Radiologist
Royal Liverpool & Broadgreen
NHS Foundation Trust

Dr Qaiser Malik
*Member of the Clinical Radiology
Professional Learning and
Development Committee*
Royal College of Radiologists
Clinical Director of Radiology MSB

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Improving Radiology Reporting, Information Systems & PACS

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The Virtual event will include:
• Live and pre-recorded sessions • A dedicated landing page including supporting abstracts, resources and powerpoint presentations
• Interactive Breakout groups • Live Q&A sessions and polls • Virtual networking with fellow delegates and speakers
• Additional educational taster sessions • a secure server with password protected entry exclusively for attendees • CPD accreditation

"The reality of imaging backlogs and delays is incompatible with national ambitions" Royal College of Radiologists May 2019
"Unreported images and imaging backlogs can have implications for clinicians, trust, and ultimately patient safety. This includes delays in diagnosis which can cause stress and anxiety for patients, potentially leading to poorer outcomes… Imaging backlogs and the use of autoreporting to manage them can result in missed diagnoses." Royal College of Radiologists May 2019 *"At the start of 2019, the RCR conducted a snapshot survey… Alarmingly, the survey found that no services were consistently meeting the key standards.. the results of the survey also include significant regional variations"* Royal College of Radiologists May 2019 *"The Royal College of Radiologists believes that artificial intelligence (AI), machine learning (ML) and associated health technologies represent one of the most potentially fundamental changes in medical care since the inception of the NHS… Far from making the clinical radiologist and clinical oncologist of the future redundant, as some press has suggested, the use of AI will help standardise many aspects of clinical care, will optimise processes, and allow greater use of clinical data to inform best practice"* The Royal College of Radiologists

This conference focuses on the important issue of improving radiology reporting turnaround times and the development of Radiology Information Systems and PACS to ensure optimisation, support the move towards imaging networks and ensure integration of Artificial Intelligence into workflow. The national review of radiology reporting within the NHS in England by the Care Quality Commission found huge variation in radiology reporting highlighting trusts that had backlogs of 33,400 unreported images (the oldest images had been waiting to be reported for eight months). The conference will also include an update on the role of Artificial Intelligence in Radiology Reporting following the RCR statement that *"In the future, New technologies, machines learning and AI will play a significant role in radiology reporting"*, and the development of diagnostic imaging networks as outlined in the NHS England Long Term Plan, which states that *"By 2023, diagnostic imaging networks will enable the rapid transfer of clinical images from care settings "close to the patient to the relevant specialist clinician to interpret."* The afternoon will focus on Artificial Intelligence (AI) in Radiology and Medical Imaging and the integration of AI into digital systems at an NHS Trust and Network level. This conference will enable you to:
• Network with colleagues who are working to improve radiology reporting turnaround times and safety
• Reflect on the NIODB development of National Standards for Radiology Report Turnaround Times
• Learn from outstanding practice in radiology reporting
• Reflect on national developments and learning from the Imaging Networks
• Improve the way you monitor radiology reporting turnaround times, use key performance indicators to monitor reporting times effectively, ensure board oversight and manage and escalate backlogs
• Reflect on the use of Technological advances in reporting and Artificial Intelligence
• Identify how digital imaging and the effective use of PACS and RIS can support improvement in turnaround times
• Explore the role of the reporting radiographer
• Ensuring patients safety and board oversight
• Identify key strategies for safe insourcing and outsourcing
• Understand the legal implications of backlogs, unreported images and staff competence in reporting
• Self assess and reflect on your own practice
• Gain cpd accreditation points contributing to professional development and revalidation evidence
• Network with colleagues who are working to improve imaging practice through RIS, PACS, Imaging Networks and AI
• Learn from outstanding practice in implementation of Radiology Information Systems
• Understand the role of RIS and PACS in supporting the sharing of images through imaging networks
• Ensure optimisation of digital imaging systems
• Develop your skills in integration of AI into workflow
• Identify key strategies for using AI to separate radiology studies into normal and abnormal categories alerting radiographers to urgent findings at the point of acquisition and helping clinicians prioritise workloads and reduce reporting backlogs
• Learn from case studies

10.00	**Opening Chair's Welcome and Introduction**

Dr Stephen Fenn *Consultant Radiologist* Hampshire Hospital NHS Foundation Trust

10.10	**Improving Radiology Reporting: Where are we now?**

Dr Peter Rowlands
Consultant Radiologist
Royal Liverpool & Broadgreen University Hospital NHS Trust

- radiology reporting: where are we now?
- radiology reporting and patient safety
- solutions and moving forward

10.40	**National Developments in Digital Imaging: Optimisation, Imaging Networks and the Integration of AI**

Tony Newman-Sanders
Chief of Cancer and Diagnostics Clinical Director, Diagnostic Imaging
Surrey and Sussex Healthcare

- Digital Imaging: where are we now?
- developing the the role of PACS & RIS: Delivering the national strategy for imaging networks
- what the future holds: new generations of PACS and imaging informatics
- the potential role of AI in radiology interpretation and imaging clinical review

11.10   Small Breakout Rooms: Where are we now in our Trust?   11.30   Comfort Break

11.50   Conference splits into a choice of streams and focus sessions until 15.40

Stream A: Improving Radiology Reporting - Chair: Dr S Fenn

11.50	**Improving Reporting and managing turnaround times safely**

Dr Stephen Fenn *Consultant Radiologist*
Hampshire Hospitals NHS Foundation Trust
- implementing the new national standards
- self-assessing and benchmarking your performance on radiology reporting
- using key performance indicators (KPIs) to monitor reporting times effectively
- the role of effective use of PACS and RIS in improving turnaround times
- monitoring and managing unreported images
- ensuring oversight of backlogs and understanding when backlogs should be escalated to senior management?
- triggers, escalations and action

12.30	**A collaborative approach to Cross Regional working**

Penny Storr *Programme Director*
EMRAD (East Midlands Radiology Consortium), Nottingham
- developing a collaborative approach to support improvements in reporting and regional image sharing
- insourcing, Data exploitation, AI Breast Screening
- our shared experience

13.00   Small Breakout Rooms: Improving Radiology Reporting in our Trust
13.20   Lunch Break

14.00	**Ensuring effective communication and patient safety**

Dr Sophie Pattison *Consultant Radiologist*
University College London Hospitals NHS Foundation Trust
- communication to ensure patient safety in radiology reporting
- addressing patient safety issues and ensuring identification of delayed or unreported images
- ensuring competence when delegating reporting to non radiology clinical staff within the hospital or outsourcing
- board assurance and oversight

14.30	**Developing the role of reporting radiographers**

Lisa Field *Consultant Radiologist*
The Mid Yorkshire Hospitals NHS Trust
- developing the role of the Reporting Radiographer
- Radiographer reporting – what is possible?
- ensuring competence, oversight and safety

15.00   Small Breakout Rooms: ensuring safety at our Trust

Stream B: Information Systems & PACS - Chair: Dr Q Malik

11.50	**Developing Imaging Networks & Image Sharing**

Dr Daniel Fascia *Consultant Musculoskeletal & Sports Radiologist*
Harrogate and District NHS Foundation Trust
and Clinical Lead, **Yorkshire Imaging Collaborative**
- shared imaging and reporting across organisations
- ensuring that all images were online at all sites, so that the patient can be imaged at one site and treated at others without interruption, and without having to transfer images around the region
- developing interconnectivity solutions between trusts into imaging networks
- challenges in integration and IT support
- our experience and the impact in our region

12.30	**Optimisation and Benefits Realisation**

Dr Peter Rowlands *Consultant Radiologist*
Royal Liverpool & Broadgreen University Hospital NHS Trust
- digital imaging within an integrated EPR
- moving beyond the hospital to whole systems
- the impact on reporting errors and delays
- links to the NHS five year forward view and the digital road map
- bringing all information about a patient together
- the role of RIS and PACS in delivering the goal of a paperless NHS: integration with Electronic Patient Record Systems
- developing imaging networks and sharing: our NHS Trust experience

13.20   Lunch Break

14.00	**AI in Medical Imaging & Clinical Radiology**

Dr Qaiser Malik *Member of the Clinical Radiology Professional Learning and Development Committee,* **Royal College of Radiologists** *and Clinical Director,* **Radiology MSB group**
- AI: improving patient safety and efficiency
- the potential role of AI in radiology interpretation and imaging clinical review
- ensuring AI benefits patients
- the future

14.30	**Developing the role of the PACS Systems**

Alexander Peck *Chair of the Informatics Group*
The Society and College of Radiographers
- developing the role of the PACS Radiographer
- developments in PACS and moving forward

15.00   Small Breakout Rooms: the future of AI & PACS in our Trust

15.20   Comfort Break   15.40   Rejoin Main Stream for Closing Sessions

Closing Chair   Dr Qaiser Malik Clinical Director, Radiology MSB group

15.40	**Technological advances in reporting: Integration of AI into Workflow**

Dr Neelam Dugar
Consultant Radiologist & Clinical PACS Lead
Doncaster & Bassetlaw Hospitals NHS Foundation Trust

- integrating AI into PACS, EPR and radiologist workflow as key to success
- training and educating the radiology team in AI
- practicalities of implementing AI and clinical validation
- delivering an AI solution in imaging: developing a business case and procurement
- example: AI in detecting lung nodules
- the role of AI in radiology reporting and radiology interpretation
- the future of reporting: learning from current case studies

16.10	**Radiology Reporting: Legal Update**

Mike O'Connell
Legal Services Practitioner

- delayed reporting, backlogs and unreported images
- issues surrounding reporting by non-radiology staff
- legal liability: cases and legal advice
- current issues and moving forward

16.50   Question and answers, followed by close

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