

RIZWAN AHMED MALIK

PERSONAL DETAILS

ADDRESS : 41 High Grove Road
Cheadle, SK8 1NW

TELEPHONE : 07780707184

EMAIL : rizwan@smrhealthtech.co.uk

GMC REGISTRATION No : 4527299

DEFENCE ORGANISATION : MDDUS (M164277)

CURRENT EMPLOYMENT : Consultant Radiologist Royal Bolton Hospital

NATIONALITY : British

EDUCATION

UNIVERSITY EDUCATION :

1992-1995 *Pembroke College, University of Cambridge.*

1992-1998 *United Medical and Dental Schools of Guy's and St. Thomas', London.*

QUALIFICATIONS :	BA (Honours)	Cambridge	July 1995
	MB BS	London	July 1998
	MA (CANTAB)	Cambridge	Mar 1999
	FRCR (UK)		May 2006
	CCT		Oct 2006

MEMBERSHIP OF PROFESSIONAL BODIES

- General Medical Council (since 1998)
- Royal College of Radiologists (since 2001)
- British Medical Association (since 1998)
- Medical & Dental Defence Union of Scotland
- Radiological Society of North America (since 2006)
- British Institute of Radiology (Associate Member since 2007)
- Society of Thoracic Radiology (Senior Member since 2007)
- British Society of Thoracic Imaging (Member since 2008)

EMPLOYMENT HISTORY

Royal Bolton Hospital Consultant Radiologist
December 2006 – Current

REVALIDATION & CPD

I exceed the Royal College of Radiologists requirements for CME for Cat I CPD over 5 years.
I have been revalidated by the GMC

CLINICAL GOVERNANCE

I maintain satisfactory current NHS Appraisal.

RELEVANT EXPERIENCE

I am a consultant radiologist of over 18 years standing with a substantive post at the Royal Bolton Hospital (RBH) since December 2006. Summary of pertinent roles:

CLINICAL LEADERSHIP - NHS

- Divisional Medical Director for Diagnostic & Support Services at the invitation of the Medical Director to provide strategic steer: April 2020 – February 2023
- Divisional Lead for Governance: Feb 2015 – March 2020
- Clinical Lead for Radiology at the invitation of the Medical Director: Nov 2011 – Feb 2015
- Lead Chest Radiologist: 2007 – 2011 (relinquished role when Clinical Lead - I maintain a subspecialist interest)

CLINICAL LEADERSHIP – PRIVATE SECTOR

- Clinical Director InHealth Radiology Reporting Services: Nov 2021 -Dec 2023
 - I co-designed and implemented a new safe, efficient and effective Teleradiology Platform
- Managing Director SMR Health & Tech (formerly South Manchester Radiology Ltd) since 2008
- Clinical Lead SMR Community Ultrasound Service: Oct 2008 – Dec 2013
 - Consultant-Radiologist provided NHS Ultrasound service provided in the community. Service offered appointments within 48 hours and same day results.

HEALTH INFORMATICS

- PACS Lead for Royal Bolton NHS Foundation Trust: Feb 2015-Mar 2020
- Clinical Lead for Greater Manchester Collaborative Imaging Project (2015-2022)
- Clinical Advisory Board NHSx AI Labs (May 2020 – Aug 2021)
 - Provide strategic guidance to the National Covid Chest Imaging Database to develop & Assess AI tools
 - Contributed to “A Buyer’s Guide to AI in Health and Care” (Pub Sept 20)
- President for UKIO July 2021 - 2023
 - Previously: Informatics Lead (2017-19); Industry Liaison Lead (2019-21); President Elect (2020-21)
- Guest Lecturer: City, University of London AI Masters Module (Dec 2020 ongoing)
- Invited Speaker at National & International conferences about Radiology & AI

To address the key challenge of low Radiologist numbers and to drive strategic improvement programmes, I initiated, co-designed & led the largest imaging procurement collaborative in Europe in Greater Manchester. This delivers visibility of “all patient imaging to all clinicians at all times” across the region thereby reducing duplication of scanning & streamlining patient pathways.

Sharing imaging across the region also facilitates collaborative reporting to address low radiologist numbers & enables regional strategic improvement and innovation programmes with improved patient outcomes.

I developed & led first-in-NHS implementation of AI in Radiology in March 2020 at Bolton NHS Foundation Trust, giving clinicians 24/7 access to fast, accurate & consistent decision support tool, for safe patient services during pandemic and beyond.

I have been recognised both nationally and internationally for this ground-breaking imaging work which unlocks quicker, safer, and more efficient image interpretation and advice other NHS Trusts on implementation strategy as well as NHSx AI Lab advisory role.

In July 2020 I led a national campaign for private sector (Diagnostic hardware and Teleradiology Providers) & NHS to work together to share equipment & enable remote working for radiologists. This allows NHS to improve patient care and outcomes via rapid reporting, provide service resiliency and keep staff safe during the pandemic – working from home is now established best practice. Also enabled increased efficiency & reduced outsource spend locally by facilitating increased “insourcing” Radiologist capacity

MEDICAL ADVISORY SERVICES

- Managing Director SMR Health & Tech (Formerly SM Radiology Ltd) since 2008
 - Providing Consultancy services including Transformation and Innovation, Clinical advisory services to Healthcare and Health Tech companies in NHS and Industry. Specialist focus on AI & Imaging
 - Our mission at SMR Health & Tech: To support and facilitate high quality emerging HealthTech & AI to deliver impact on safety, quality and value for Healthcare use in the NHS and beyond. We are vendor agnostic, supporting companies to validate its AI/HealthTech fit for market.
- Medicolegal Report Writing since 2014
- Strategic Advisor providing CCIO Leadership to Industry and Healthcare organisations.

MEDICOLEGAL EXPERIENCE & TRAINING

- Medicolegal Report Writing since 2014
- The Faculty of Expert Witnesses for Doctors [the FEW] (Member since 2015)
- Turnover: 2-3 Reports (averaged annually)
- Claimant Predominant instructions
- Have not been required to attend trial to date

MANAGEMENT EXPERIENCE

In my capacity as the clinical lead for Radiology at the Trust and thereafter Divisional Medical Leadership:

- Member of the Trust Clinical Executive Committee
- Member of the Trust Bronze Command and Control structure
- Co-chaired the Divisional Board Meetings
- Co-chair the Divisional Governance Committee
- Chaired the departmental Consultant and Board meetings
- I maintain effective communication with clinical and management colleagues.
- I routinely assess to ensure systems are in place to ensure timely and safe Radiological clinical practice in the department.

During my tenure as Greater Manchester PACS Clinical Lead:

- 2015/16: I was instrumental in bringing Radiology, Clinical & IT Leads across Greater Manchester together into a strategic partnership to instigate a regional shared Imaging strategy.
- 2016/17: I co-designed the acclaimed detailed specification for one of the largest PACS procurements in the world.
- May 17- I lead the 1st cloud-based imaging deployment in the NHS

Providing and leading the Community Ultrasound Service in 2008 gave unique insights into managing a service to meet requirements of referrers, patients and secondary care providers with the associated governance infrastructure, as well as the requirements and challenges of image and report sharing outside of a hospital setting.

PUBLICATIONS

- *Artificial intelligence education for radiographers, an evaluation of a postgraduate educational intervention using participatory action research: a pilot study*
Insights into Imaging
<https://insightsimaging.springeropen.com/articles/10.1186/s13244-023-01372-2>
- *Black box no more: a scoping review of AI governance frameworks to guide procurement and adoption of AI in medical imaging and radiotherapy in the UK*
Br J Radiol (2023). DOI: 10.1259/bjr.20221157
<https://www.birpublications.org/doi/10.1259/bjr.20221157>
- *Towards nationally curated data archives for clinical radiology image analysis at scale: learnings from national data collection in response to a pandemic*
Digital Health – accepted for publication by SAGE Sept 2021
<https://us.sagepub.com/en-us/nam/journal/digital-health>

- ***Radiology Reporting: Can AI Really be the Panacea?***
RADMagazine Scientific Article Apr 2020
<https://www.radmazine.co.uk/scientific-article/radiology-reporting-can-a-i-really-be-the-panacea/>
- ***The rAIdiologist will see you now***
RADMagazine Special Feature Aug 2019
<https://www.radmazine.co.uk/sponsored/the-raidiologist-will-see-you-now-a-future-view-of-radiology/>
- ***The Real Impact of Inaccessible Patient Data in Radiology***
Guest Blog for Bridgehead Software June 2019
<https://www.bridgeheadsoftware.com/2019/06/the-real-impact-of-inaccessible-patient-data-in-radiology/>
- ***PACS – What Radiologists need to consider***
RADMagazine Special Feature Jan 2019
<https://www.radmazine.co.uk/scientific-article/pacs-what-radiologists-need-to-consider/>
- ***WHITE PAPER – Reclaiming time and space from the MDT Black Hole***
Co-authored white paper with Barco Health
<https://www.barco.com/en/product/barco-synergi>
- ***PACS upgrades can be a rocky road***
Aunt Minnie Europe Sept 2017
<https://www.auntminnieeurope.com/index.aspx?sec=sup&sub=pac&pag=dis&ItemID=614859&wf=1501>

PRESENTATIONS CITATIONS & INTERVIEWS

- ***Royal Bolton Hospital Team Receive International Acclaim***
Winner of AI Med Champions Award: **Best Covid-19 AI Solution**
<https://www.boltonft.nhs.uk/2020/12/rbh-radiology-team-receive-international-acclaim>
- ***Impact of AI on Radiology workflows***
Presentation to postgraduate AI module on an introduction to AI for radiographers at City University of London
- ***Royal Bolton Hospital Wins National Health Technology Award***
Winner of Health Tech to Shout About Award at **HTN Awards 2020**
<https://www.boltonft.nhs.uk/2020/10/royal-bolton-hospital-wins-national-health-technology-award>
- ***Bringing Imaging-Based Artificial Intelligence into Clinical Practice in NHS Radiology***
Presentation to SORSE 2020
<https://sorse.github.io/programme/talks/event-015/>
- ***Are we on the downward slope of the “hype cycle” for AI in radiology?***
Presentation at the Royal College of Radiologists Annual Radiology Research Day 2020
<https://www.rcr.ac.uk/clinical-radiology/academic-radiology-and-research/radiology-research-day>
- ***Bringing AI to Life (podcast)***
https://open.spotify.com/episode/76OknLecuDDb8uh6B2YMbt?si=Revv6ELsTc2C5aH_FvmJsA
- ***UCLA ACM AI: AI + Social Impact Panel (Presentation & Panellist)***
<https://www.youtube.com/watch?reload=9&v=AeBiKKiOI28>
- ***BBC health: The Groundbreaking way to search lungs for signs of COVID-19 (interview)***
<https://www.bbc.co.uk/news/business-52483082>
- ***Forbes Tech Review – AI in Radiology for COVID (interview)***
<https://www.forbes.com/sites/jamessomauroo/2020/04/27/queai-deploys-ai-radiology-software-in-the-fight-against-covid-19/#23917397607e>

- **MIT Tech Review: How the COVID pandemic has accelerated uptake of AI in Radiology (interview)**
<https://www.technologyreview.com/2020/04/23/1000410/ai-triage-covid-19-patients-health-care/>
- **rAldiography – The Robots are coming**
Presentation at Inhealth Artificial Intelligence in Radiography Meeting Mar 2020
https://www.youtube.com/watch?time_continue=4960&v=0VbNZObWGqA&feature=emb_logo
- **Radiology Reporting: Can AI Really be the Panacea?**
Presentation at Arab Health Total Radiology Conference Jan 2020
- **The Chest rAldiologist will see you now**
Presentation at Arab Health Total Radiology Conference Jan 2020
- **The Future Scope of AI in Radiology**
Presentation at AI Med European Conference Sept 2019
- **A 360-Degree Patient History – A Realistic Prospect Or A Distant Pipedream?**
Digital Health Best Practice Webinar with Bridgehead
<https://www.digitalhealth.net/events/access-to-a-360-degree-patient-history-a-realistic-prospect-or-a-distant-pipedream>
- **PACS – what Radiologists need to specify**
Presentation at the Royal College of Radiologists Annual Scientific Meeting Sept 2017
<https://videos.rcr.ac.uk/video/pacs-replacementswhat-radiologists-need-to-specify>
- **Radiology Experiences of a Single Shared RIS**
Presentation at the Clinisys AGM Jun 2018
- **PACS – Considerations for Radiologists**
Presentation at UKRC Jul 2018
- **“LAVA or GRASS don’t make a decision in HASTE – MR Acronyms explained”** Ansari H, McCormack J, Bailey B, Malik R.
Poster Presentation to UKRC 2008
- **“Rapid Water-Suppressed Gradient Echo MRI provides a reproducible method for the Quantification of Abdominal Fat Distribution”**
Poster Presentation at the Royal College of Radiologists Annual Scientific Meeting Sept 2004

REFERENCES

Professor Rachel Dunscombe

CEO NHS Digital Academy
27 Spinner Drive
St Helens

Dr Francis Andrews

Medical Director
Royal Bolton Hospital
Minerva Road

Dr Rhidian Bramley

CCIO & Associate Medical Director
The Christie NHS Foundation Trust
Wilmslow Road