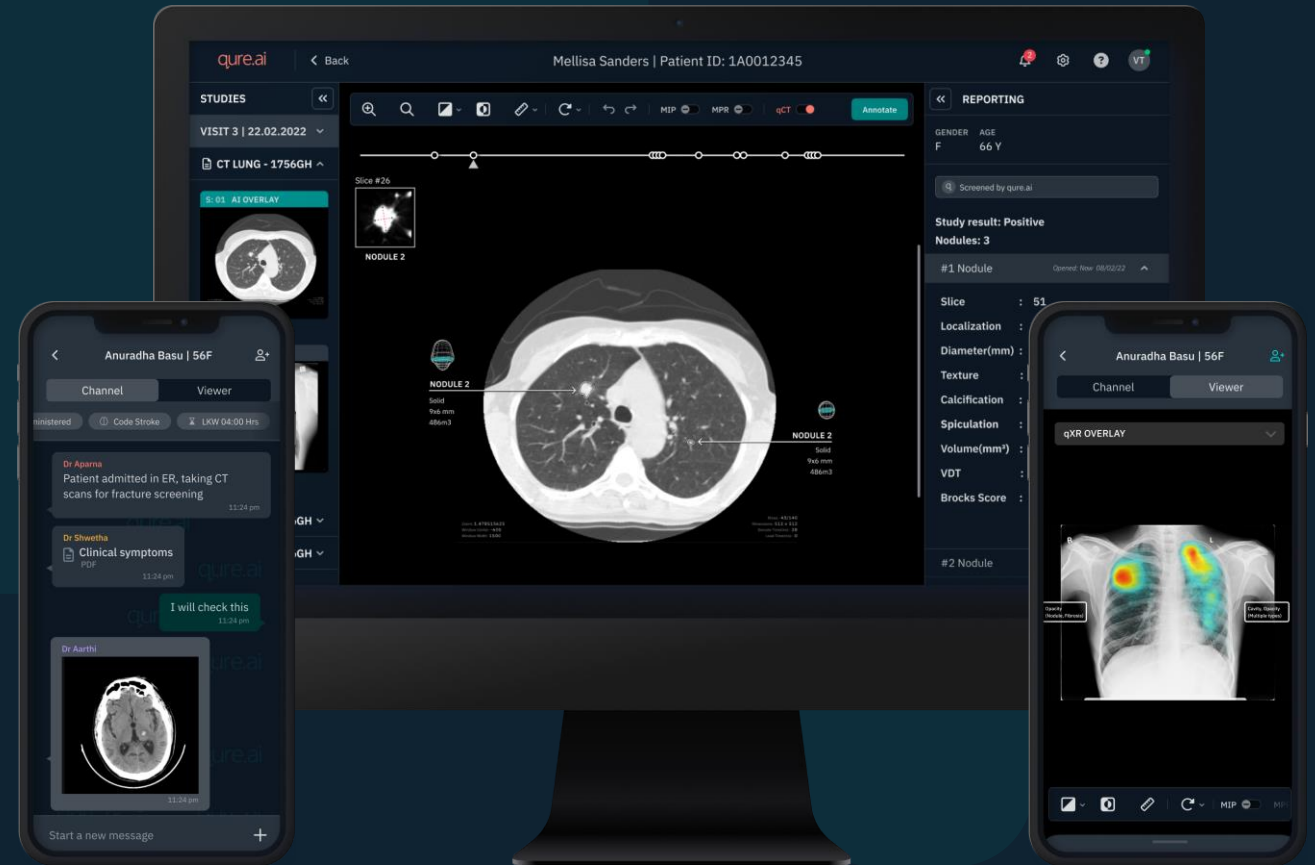


# Unlocking Innovation in Healthcare

qure.ai

## Better Diagnostic Pathways with Artificial Intelligence

Surabhi Srivastava  
Commercial Lead, UK Qure.ai



# Most Deployed AI Solution Globally

Successfully deployed in

**70+** countries

**1000+** sites

**200M**  
Images processed  
annually



# NHS diagnostic Imaging – Status Quo



Diagnosis/Treatment Delays



Increasing Demands for Health Services



Inadequate Quality of Care



Longer Patient Wait Times



Workforce Constraints

- HIGH IMAGING VOLUMES – Demand for imaging continues to rise despite the pandemic (34 million in 2019)
- WORKFORCE CONSTRAINTS – NHS radiologist workforce short staffed by 29%, expected to rise to 39% by 2026
- BACKLOGS / DELAYS – 97% of clinical directors are worried about backlogs and delays for patients
- BURNOUT – 98% of CDs worried about declining workforce morale impacting workforce retention and patient safety
- UNREPORTED SCANS – 41% of trusts leave imaging examinations as auto-reported or unreported

# Imaging AI Portfolio : Multiple modalities



qXR

AI for Chest X-ray interpretation

qXR

Complete reporting assistance on CXRs

qER Suite

Enabling timely care with Head CT AI



qER

AI for Head CT interpretation



qCT

AI for Chest CT interpretation

qCT: Adaptable AI

Catching lung cancer early

qMSK

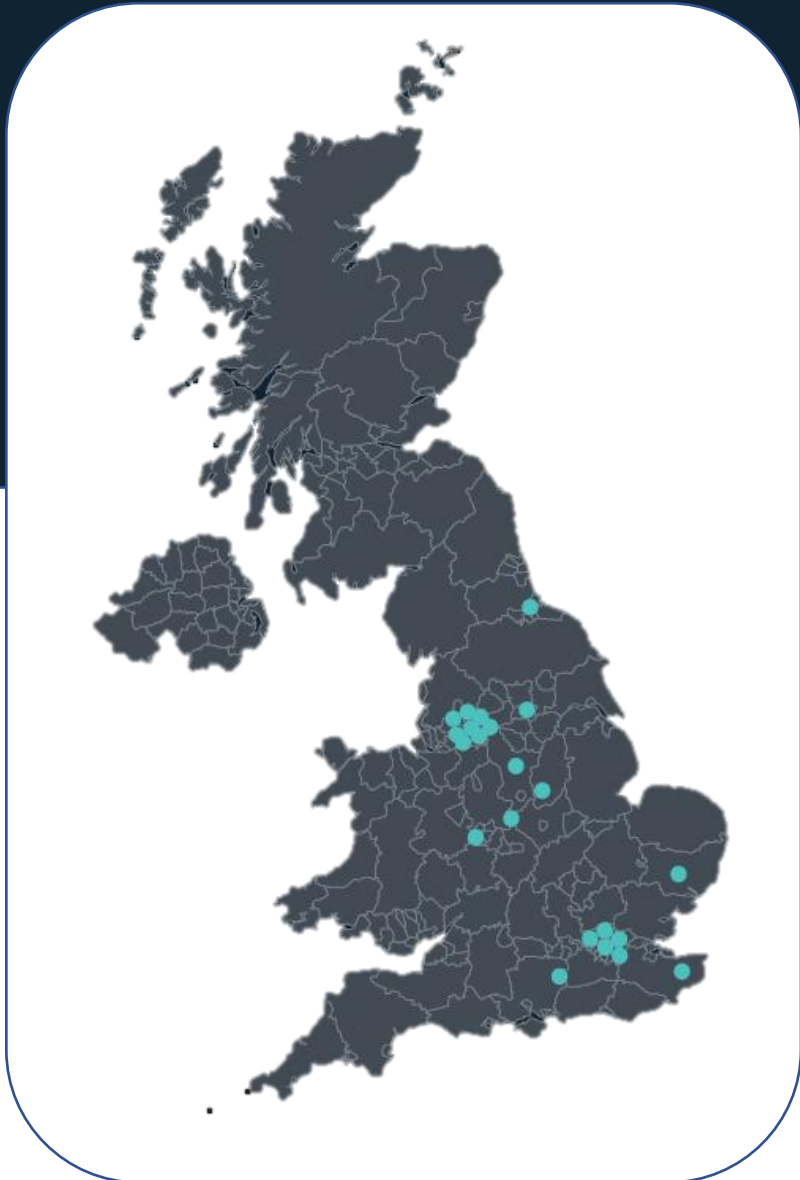
AI assistant to spot signs of fracture



qMSK

AI for Musculoskeletal X-ray

# Extensive Footprint AI solutions for the NHS



Successfully deployed in

**25+** Sites

**150K+** Scans

## Region

## NHS Partner Trusts

### LONDON

NHS Guys & St Thomas' Trust  
NHS University College London Trust  
NHS St George's University Hospital Trust

### MIDLANDS

NHS University Hospitals Birmingham Trust  
NHS University Hospitals of Leicester Trust  
NHS Nottingham University Hospital Trust  
NHS United Lincolnshire Hospitals  
NHS Mid Yorkshire Hospitals Trust

### EAST ENGLAND

NHS East Kent Hospitals University Trust  
NHS Frimley Health Trust  
NHS East Suffolk & North Essex Trust  
NHS Oxford University Hospitals

## Region

## NHS Partner Trusts

### NORTH ENGLAND

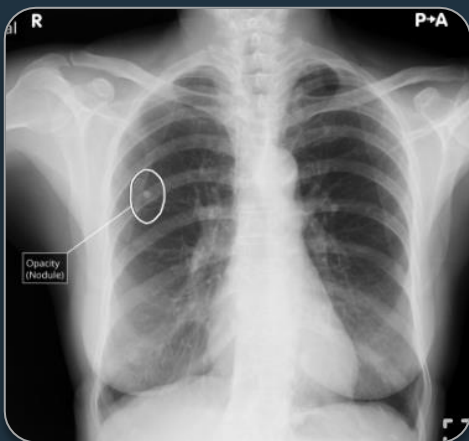
NHS Bolton Foundation Trust  
NHS Northumbria Healthcare Trust  
NHS Manchester University Trust  
NHS Northern Care Alliance Trust  
NHS The Christie Foundation Trust  
NHS Stockport Foundation Trust  
NHS Tameside Hospital Trust

### SCOTLAND

NHS Greater Glasgow & Clyde Trust

# qLC-Suite

## Catching Lung Cancer early



### AI for Chest X-rays

- Incidental detection
- Malignancy risk factoring
- Reduced misdiagnosis
- Fast tracked CTs

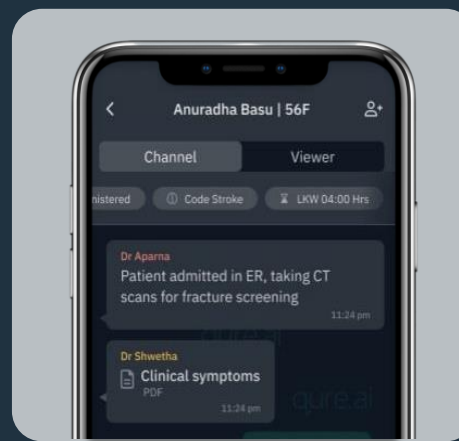
qXR



### AI for Chest CTs

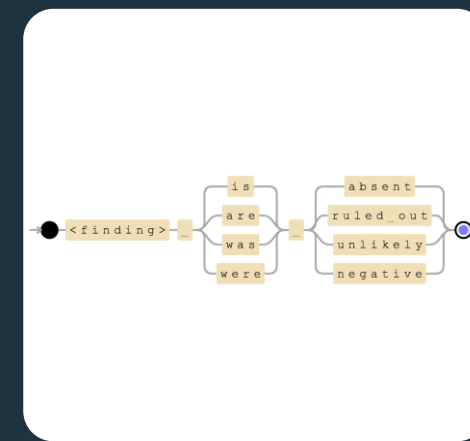
- Opportunistic screening
- Volumetry & Progression
- Malignancy risk assessment
- Fast tracked treatments

qCT



### Qure App

- Hub-spoke for primary care to LCSP
- Intelligent screening
- Follow-up reminders



### NLP for reports

- Identify reported nodules
- Catch missed follow-ups

# Clinical Evidence - SBRI Award for Lung Cancer from NHS England

**£3.2**  
million funding

**8**  
Trusts

**150,000**  
Scans

Assessing the Impact of AI enabled patient triage to chest CT on the Lung cancer pathway using qXR

Health – economic evaluation for all the partner sites

## PARTNER SITES

  
University Hospitals Birmingham  
NHS Foundation Trust

  
University Hospitals of Leicester  
NHS Trust

  
Nottingham University Hospitals  
NHS Trust

  
University College London Hospitals  
NHS Foundation Trust

  
The Royal Marsden  
NHS Foundation Trust

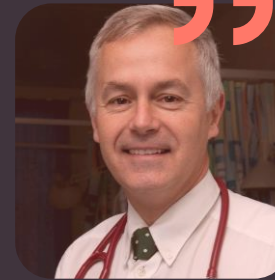
  
East Suffolk and North Essex  
NHS Foundation Trust

  
The Mid Yorkshire Hospitals  
NHS Trust

  
Lincolnshire Partnership  
NHS Foundation Trust

30-05-2023

Qure.ai | Confidential



**PROF DAVID BALDWIN**  
Chair, UK Clinical Expert Group for Lung Cancer, NHS England

AI solution such as qXR should improve the pathway logistics by flagging abnormalities on chest X-rays as soon as they are undertaken helping patients to progress rapidly through to CT scanning.

# qER: Neuro-Critical Care

Automated Head CT AI interpretation for instant clinician decision support

**FDA** 510(k) cleared for Breathing tubes

**CE** CE Class II B Certified

- Detect 12 different abnormalities on Head CT
- Segregates critical vs non-critical head CT scans
- Triage, prioritizes and notifies critical head CT scans
- Localizes lesions to anatomical structures
- Quantifies reports with volume estimations\*
- Pre-populated templates for normal Radiologist report

## Focus Disease Areas



Bleeds



Cranial fracture



Stroke



Hydrocephalus



Mass Effect



Midline Shift



Pneumocephalus



**500k**

Scans for Training dataset

**3.2Mn**

Scans processed annually

**7**

Countries using

**10+**

Sites deployed



# Real World Evidence AI for Triage - TBI & Stroke – NHSx Award

1.5

million £ funding

4

Trusts

The AI in Health and Care Award has been instituted by the Accelerated Access Collaborative (AAC) in partnership with NHSX and the National Institute for Health Research (NIHR).



**HARISH SHUAIB**  
Head of Clinical  
Scientific Computing  
Guy's & St. Thomas'

With qER system from Qure we hope to be able to manage critical findings like intracranial hemorrhage even more effectively.

# NHS – Key Engagements

## Strong Endorsements from National Bodies

### Commercial Affiliations

Presence on National Procurement Frameworks for Imaging AI



Shared Business Services

[Provision of Artificial Intelligence \(AI\), Imaging and Radiotherapy Equipment, Associated Products and Diagnostic Imaging](#)



HEALTHTRUST EUROPE

[HealthTrust Europe NHS DPS For The Provision of Artificial Intelligence Solutions Services](#)



[Artificial Intelligence Software for NHS Scotland Radiology Imaging – Dynamic Purchasing System](#)

### Clinical Affiliations

Presence on NICE MedTech Innovation Briefings



[Artificial intelligence for analysing chest X-ray images](#)

[Artificial intelligence for analysing CT brain scans](#)