

Mile End Hospital Early Diagnostic Centre (EDC) Modernising Diagnostics

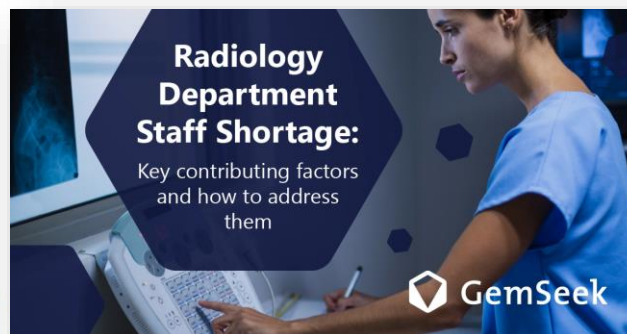
**Barts Health Trust, North East
London Cancer Alliance and
North East London Imaging
Network**



1. Where we started was unique

We were facing a number of challenges:

- Capacity
- Workforce challenges
- Deprivation leading to poor outcomes



We want patients to have more choice over their NHS care, says Steve Barclay

Using &
services



9.3%

9.3%

2. What we achieved: We exceeded our aim

Endoscopy



8063 scopes

MRI



4486 scans

CT



3373 scans



US



3162 scans

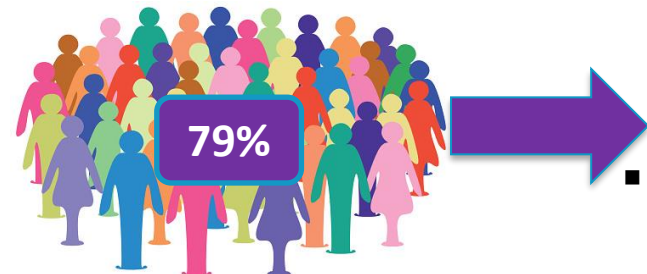
Patient feedback and experience in 2022/23



100% of patients felt their privacy and dignity needs were being met
100% of patients said they were consented appropriately
100% received a copy of their report



99% of patients said they had their test results explained



79% of patients didn't experience a delay
■ *"patient care brilliant and relaxing environment at what was an anxious moment. Calm and thoughtful. Was treated with consideration. Everyone very kind and warm. Put me at ease"*

Workforce



NHS 75

The NHS Long Term Workforce Plan

- Growing the workforce
- Retaining existing talent
- Working and training differently
- Building flexible teams



NHS

Professionals

The NHS
Workforce
Plan has been
published



Benefits to the system



£81440+

The EDC financially impacted the system, for example capacity provision for Whipps Cross Hospital Endoscopy patients meant that insourcing could stop, saving £15120 a week £81440 to date.



Other savings are around reduced patient travel, diagnosing cancer faster and maintaining our utilisation rate above 80%.

3. How we achieved it

10 C's

Codesign

Collaboration

Continuous
Improvement

Cohorts

Change

Choice

Culture

Cost

CDC

Charity

We shared far and wide

The Mile End Early Diagnosis Centre



Hear from our patient on codesign Jane Aylott

Hear from our patient on codesign – Jane Aylott



Barts Health
NHS Trust



**Codesign
is key**



MRI Suite Launch – patient codesign



Promotional News Story



Joe Martin

Clinical Scientists in MR Physics



Primary MRI Physics Roles within Radiology

Safety – Magnetic
Resonance Safety
Expert

Quality
Management

Training and
Education

Scientific
Leadership

Research and
Innovation

MR Physics @ MEH

As a Physics team, we have worked with our local radiographer and radiologist colleagues, and national and international physicists, to implement the following:

- Updated Local Rules MHRA Guidelines require full consultation with a MRSE.
- SOPs & Implant Procedures
- Risk Assessments & Safety Audit
- Research Implementation and Translation
- **Imagine Protocol Optimisation**
- **AI Software integration into clinical practice**
- **Set up a London-wide AI clinical user group**

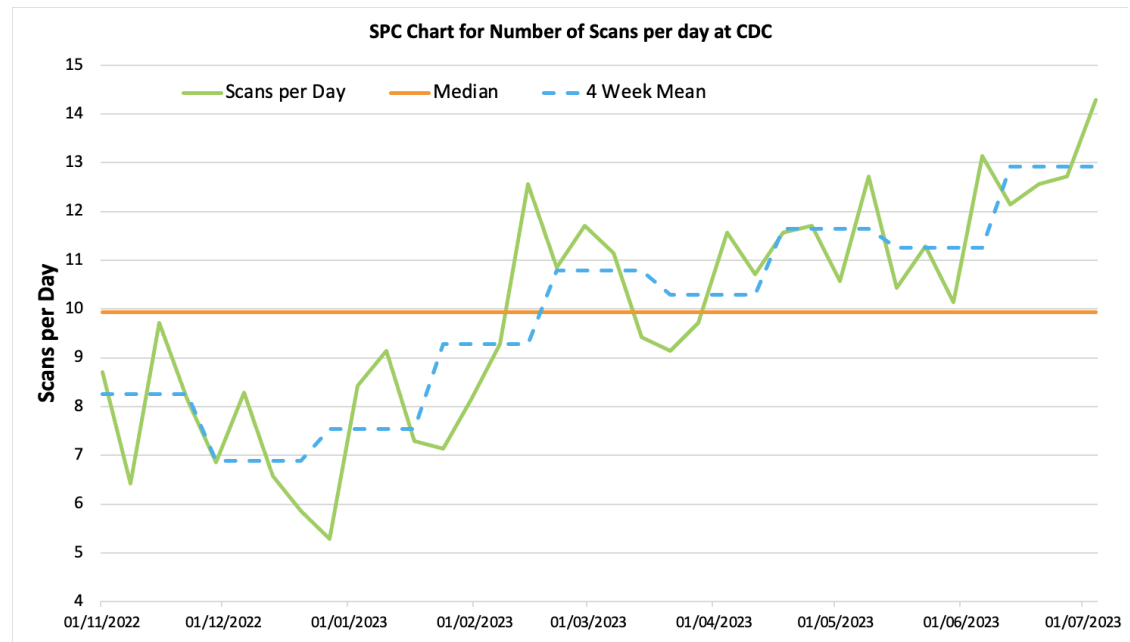


Case Study: Capacity Improvement post-AI Reconstruction Installation

AI Reconstruction software installed in February 2023.

NHS England hoped for 1 extra scan per day within a year of installation.

After 6 months, we have increased number of scanned patients by 3 a day*



* Confounding factors, improvements in booking, patient information and general protocol development and improvement by radiographers/physicists.

3 keys to success that make us unique



From the start

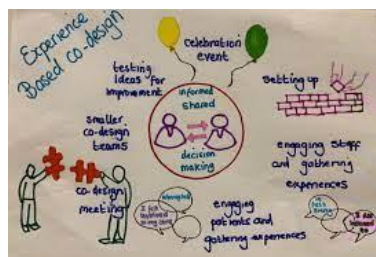
True Codesign
and
Engagement at
all levels

We achieved
something
exemplar and
exceeded our
ambitions

10Cs spread
and shared
nationally



Success

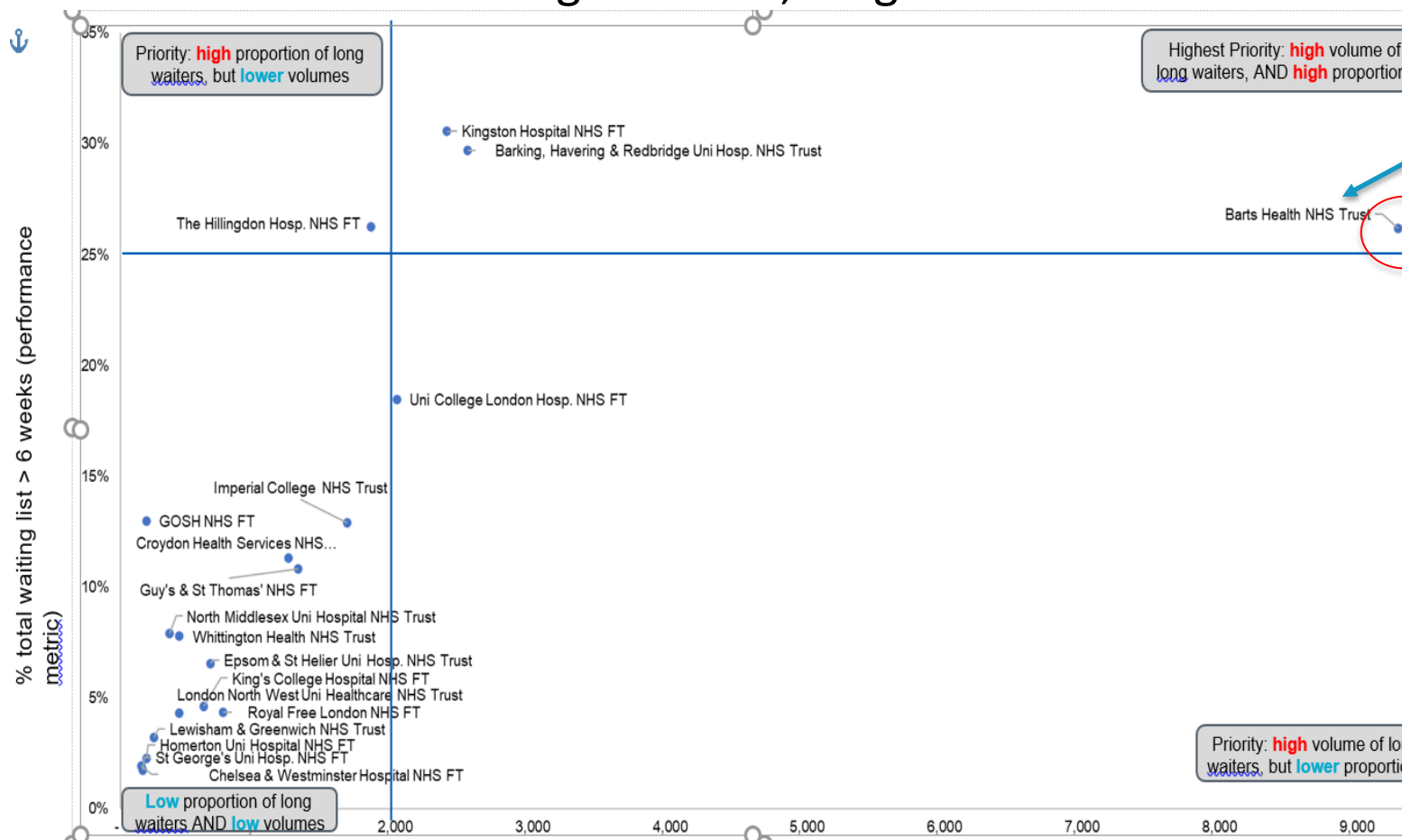


Royal London and Mile End Hospital Imaging Recovery Team

Performance Recovery



1. High volume, long waiters



Barts Health NHS Trust was highlighted as the worst performing site across London in October 2022

- There were 12,803 patients waiting 6 weeks or more for an imaging test in London across the key modalities in October 22
- **Impact on elective recovery and inpatient flow**

Sum of Value	Column Labels			
Row Labels	CT	MRI	Non-obs ultrasound	Grand Total
NHS NORTH CENTRAL LONDON INTEGRATED CARE BOARD	35	475	332	842
GREAT ORMOND STREET HOSPITAL FOR CHILDREN NHS FOUNDATION TRUST	9	64	2	75
MOORFIELDS EYE HOSPITAL NHS FOUNDATION TRUST	0	2	0	2
NORTH MIDDLESEX UNIVERSITY HOSPITAL NHS TRUST	3	54	35	92
ROYAL FREE LONDON NHS FOUNDATION TRUST	1	3	39	43
ROYAL NATIONAL ORTHOPAEDIC HOSPITAL NHS TRUST	7	25	0	32
UNIVERSITY COLLEGE LONDON HOSPITALS NHS FOUNDATION TRUST	13	320	212	545
WHITTINGTON HEALTH NHS TRUST	2	7	44	53
NHS NORTH EAST LONDON INTEGRATED CARE BOARD	412	4,554	2,155	7,121
BARKING, HAVERING AND REDBRIDGE UNIVERSITY HOSPITALS NHS TRUST	106	1,056	225	1,387
<u>BARTS HEALTH NHS TRUST</u>	306	3,471	1,930	5,707
HOMERTON UNIVERSITY HOSPITAL NHS FOUNDATION TRUST	0	27	0	27
NHS NORTH WEST LONDON INTEGRATED CARE BOARD	311	796	754	1,861
CHELSEA AND WESTMINSTER HOSPITAL NHS FOUNDATION TRUST	3	8	0	11
IMPERIAL COLLEGE HEALTHCARE NHS TRUST	40	75	222	337
LONDON NORTH WEST UNIVERSITY HEALTHCARE NHS TRUST	268	13	9	290
THE HILLINGDON HOSPITALS NHS FOUNDATION TRUST	0	700	523	1,223
NHS SOUTH EAST LONDON INTEGRATED CARE BOARD	321	401	312	1,034
GUY'S AND ST THOMAS' NHS FOUNDATION TRUST	301	300	122	723
KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	6	81	5	92
LEWISHAM AND GREENWICH NHS TRUST	14	20	185	219
NHS SOUTH WEST LONDON INTEGRATED CARE BOARD	89	359	1,497	1,945
CROYDON HEALTH SERVICES NHS TRUST	31	7	723	761
EPSOM AND ST HELIER UNIVERSITY HOSPITALS NHS TRUST	57	227	451	735
KINGSTON HOSPITAL NHS FOUNDATION TRUST	0	6	245	251
ST GEORGE'S UNIVERSITY HOSPITALS NHS FOUNDATION TRUST	1	119	76	196
THE ROYAL MARSDEN NHS FOUNDATION TRUST	0	0	2	2
Grand Total	1,168	6,585	5,050	12,803

Source: DM01 submissions, Oct-22

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Where we started was unique



Lack of staff

- Benchmark data showed we had lower levels of staffing

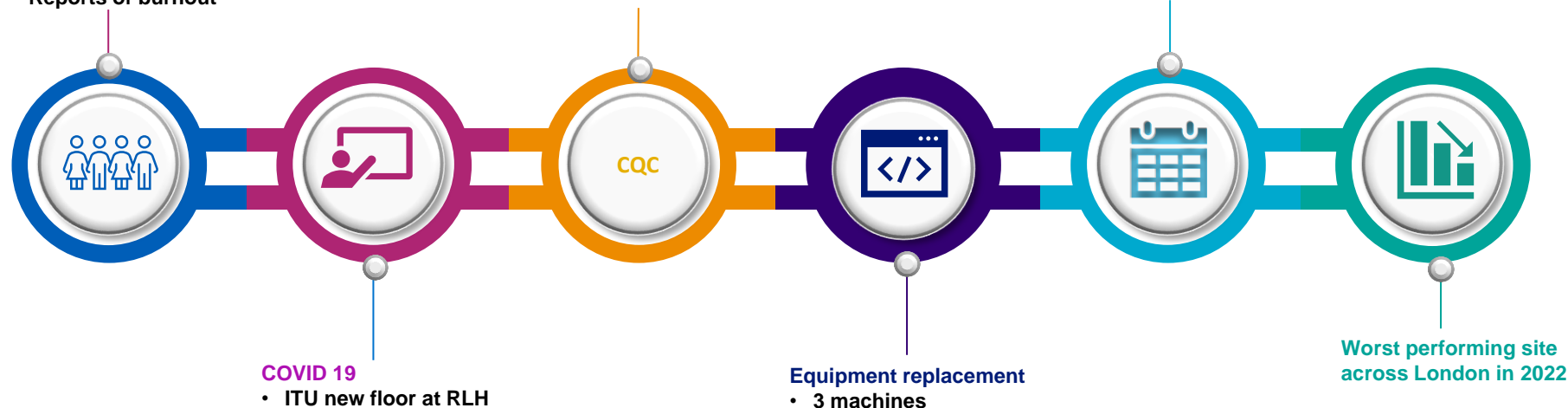
Culture and moral, recruitment and retention

- Low staff moral and satisfaction score low
- Reports of burnout

CQC inspection

Block contact

- We were not eligible for the Elective Recovery Fund



How did we do it?



“What matters to you?”

Listening events and engagement with staff and patients



Structure, roles and responsibilities

Formation of a new division
New Structures and governance



Understanding our data through demand capacity modelling. Mapping across our division

Cost calculation – taking this to group for agreement. Benchmarking to understand our



Mutual Aid

Established Outsourcing/Mutual aid programmes collaboratively with our Network and



Quality improvement methodology to understand our system and identify and test changes

We tested ideas rather than implementing on a large scale, this meant that we were able to learn from those tests of change and scale up those that worked, then share and spread across modalities and site



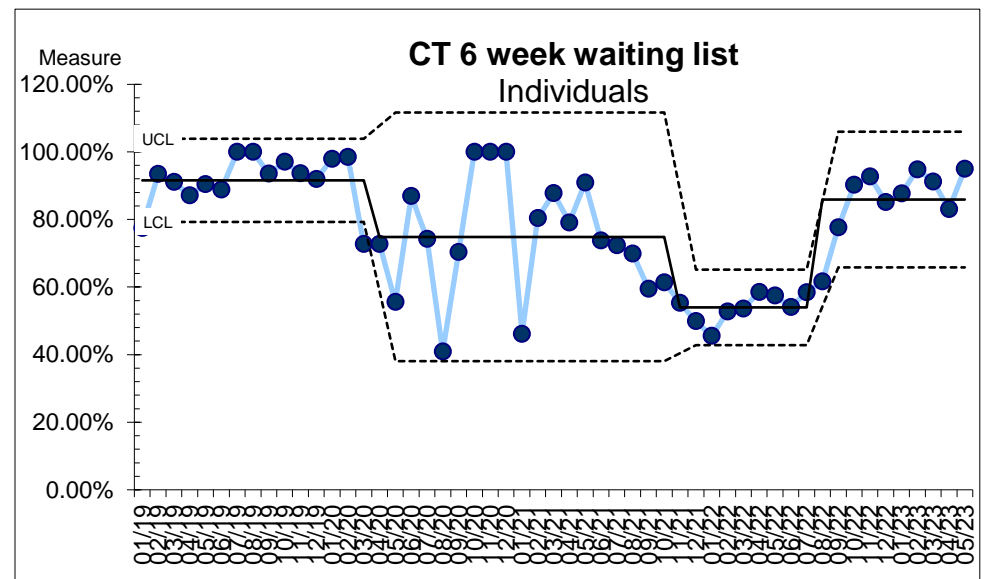
Payment by Scan, helping us systematically reduce our waiting lists. Reduced our reporting backlog by establishing a payment by scan model

Impact

CT 6 week waiting was 40.9%

now **99.44%**

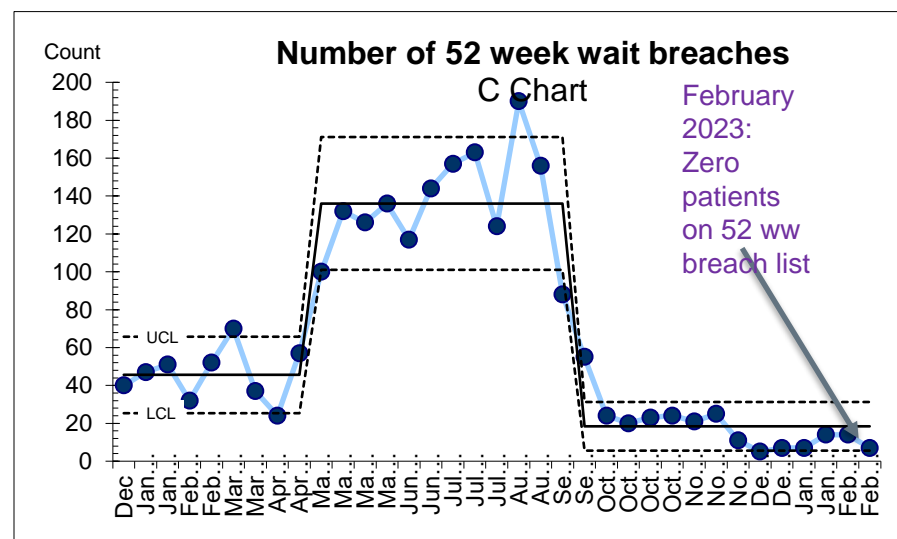
- Phase 1 - aim achieved well done team!



Success at RLH in clearing the 52 week waiting lists in February 23

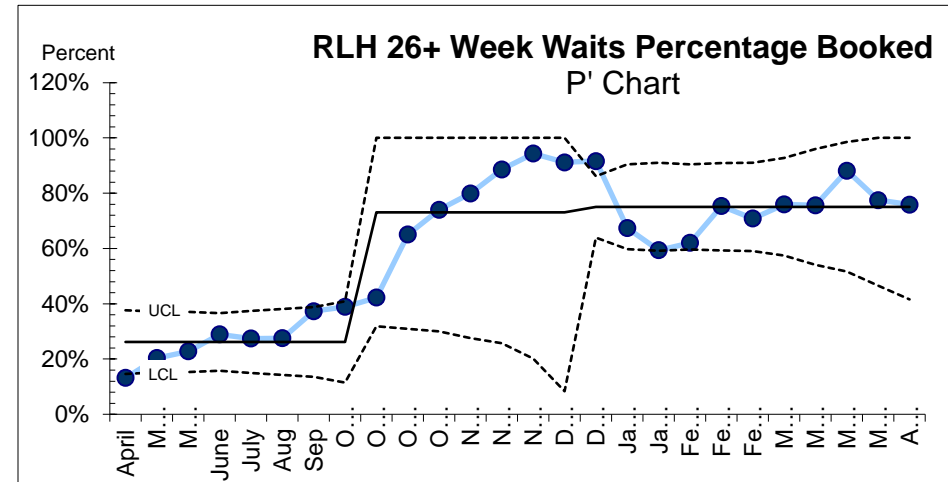
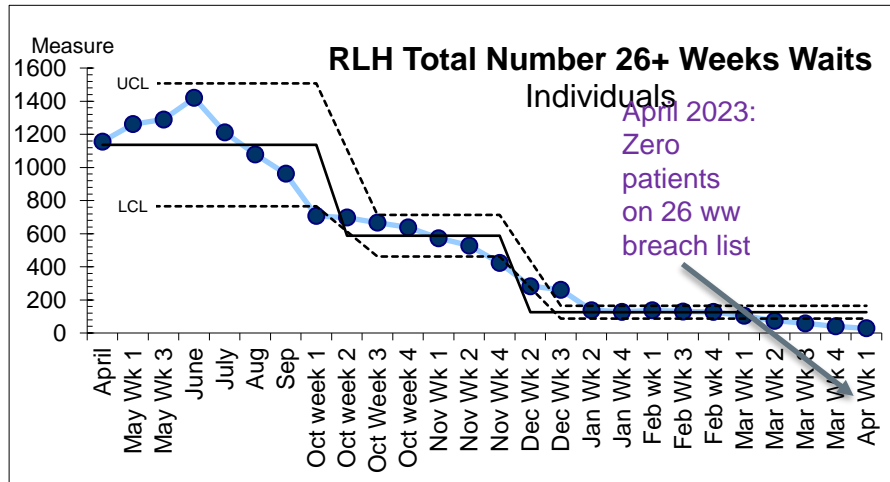
Eliminated 52 Week Wait breaches

- ✓ Points based reporting model
- ✓ US over 6 weeks plan and increase the utilisation of US rooms at EDC
- ✓ Replacement scanner for MEH with additional inclusion
- ✓ More contrast patients to be seen at MEH
- ✓ Extending the new Static scanner to long days
- ✓ Weekend additional sessions at RLH
- ✓ CT summit scanner 3 days a week
- ✓ Review contrast cover for Mile End
- ✓ 26 weeks recovery trajectory for MRI
- ✓ Update on WX mutual aid for MRI
- ✓ Compleo staffing for new static scanner
- ✓ MRI administrative support to improve booking processes
- ✓ Use of D&C data to understand where we can improve further

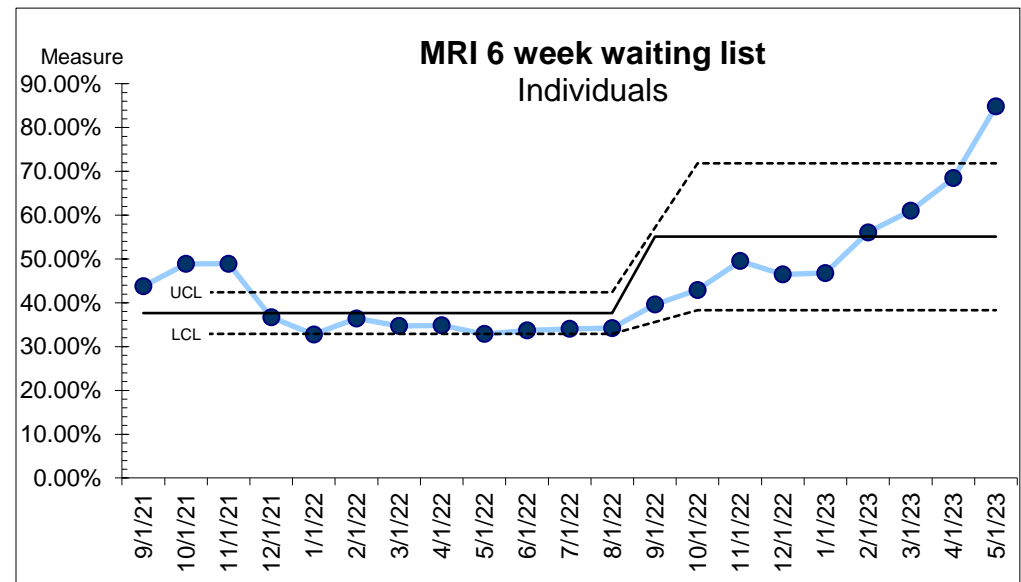


**52 week waits have
successfully been eliminated**

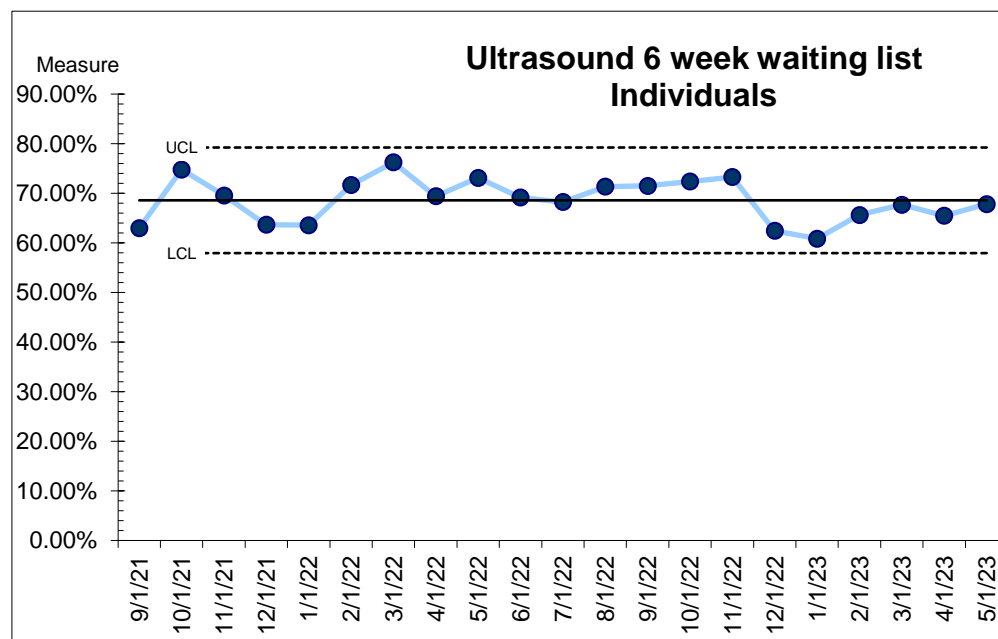
Success at RLH in clearing the 26 week waiting lists in April 23



- Focus on phase 2 and 3 of our aim, we are heading in the right direction.



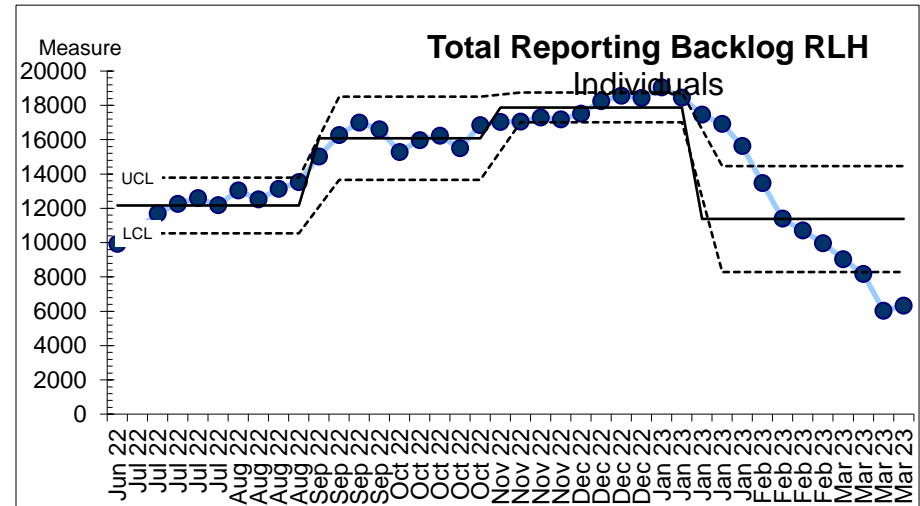
- Focus on phase 2 and 3



Reporting Turn around times down to 6K

Reduction in overall backlog down to 6K from 18k at its highest.

Patient and stakeholder feedback



RLH MEH Imaging Improvement Programme 2022-23

Our Improvement plan on a page

To ensure equitable access and improve patient flow, through Imaging pathways by June 2023

Outcome measures:
Waiting times
Booking rates
Reporting data
Datix – harm due to wait time
DNAs
Recruitment
Retention
Staff Survey and feedback



Primary drivers

Collaborative approach

Recovery to pre-pandemic levels

Digital and IT

Process Improvement

Workforce development and redesign

Service Redesign

Secondary drivers

Work with MDT to ID Improvements, capital spend, governance structures etc

52ww Eliminated
Mutual aid explored
Use of Independent sector capacity
Support and develop recovery governance channels
Improved booking processes

Use of digital communication to patients
Net call in place and all staff trained
Harmonised infrastructure and platforms across NEL
AI Appointment booking
In touch – self check in

Utilisation and productivity data reviewed consistently
Waiting list management and regular review
Standardise admin processes and documentation

Engaged admin and clerical staff
Admin review and career development mapped
Centralised admin bookings process tested

Strategic direction clearly articulated outlining service changes over 5 years
Modality groups established with TOR signed of Clinical Pathway and operational process redesign
Future CDC Planning, engagement and implementation
Patient co-design

Change ideas

Raja Javed support allocated to RLH Recovery programme

Mutual aid recovery waiting list plan developed

Contracts with independent sector reviewed, staff static scanners

Redesign access meeting and recovery board.
Standardised templates and reporting mechanisms

Backlog clearance trajectory developed and shared

Scan reporting recovery plan developed, Points based reporting

Recovery funding applications submitted

Text appointment reminders

Text patient letters and prep info PDSA April 23

Net call set up, training and fully utilised

Daily QI Huddles – PDSA Feb 23

All Admin SOPs to be standardised by December 23

Weekend additional sessions

What matters to our Admin & Clerical team conversations

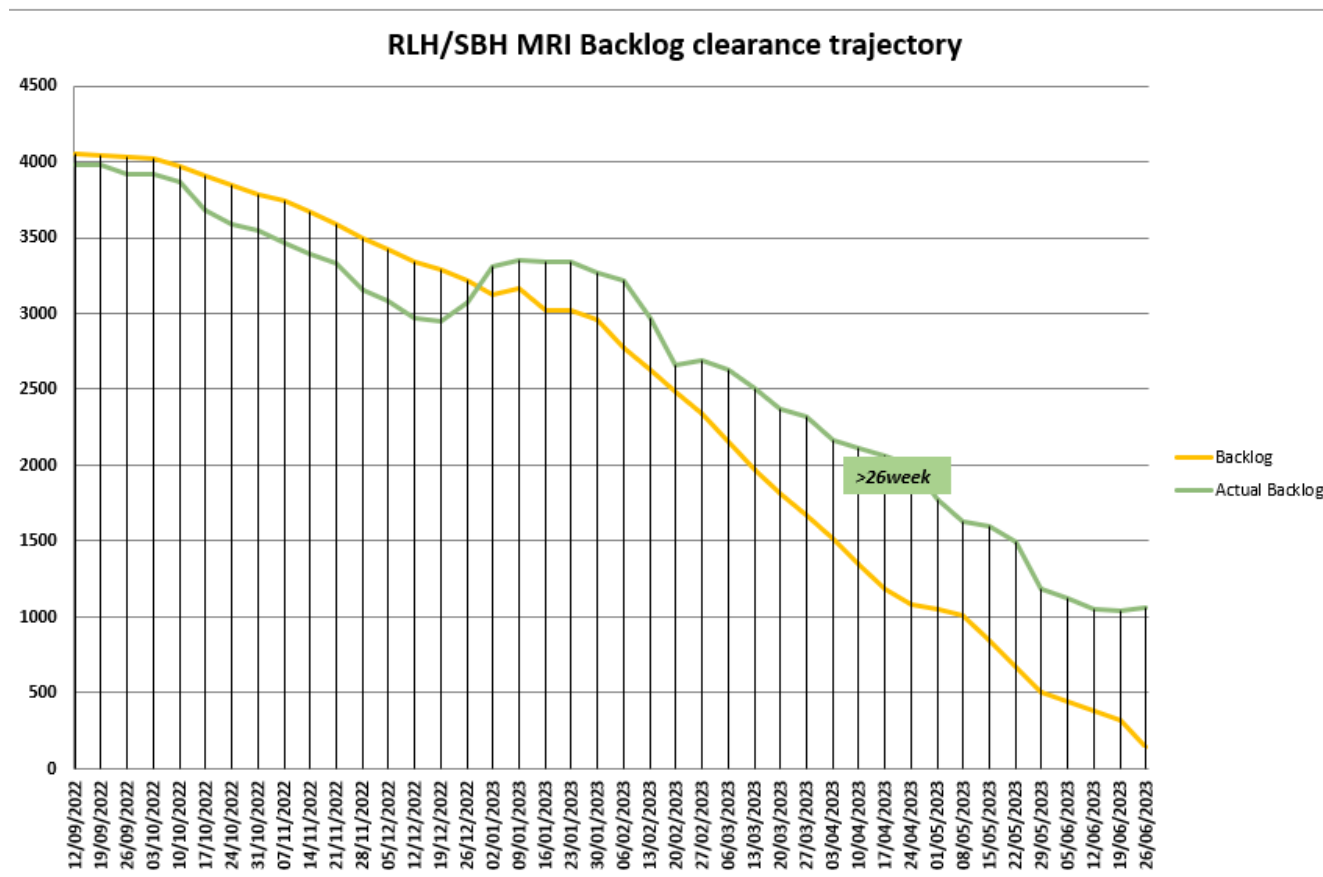
Admin Workforce QI sub-group Chaired by Komal

Targeted admin support based on modality need

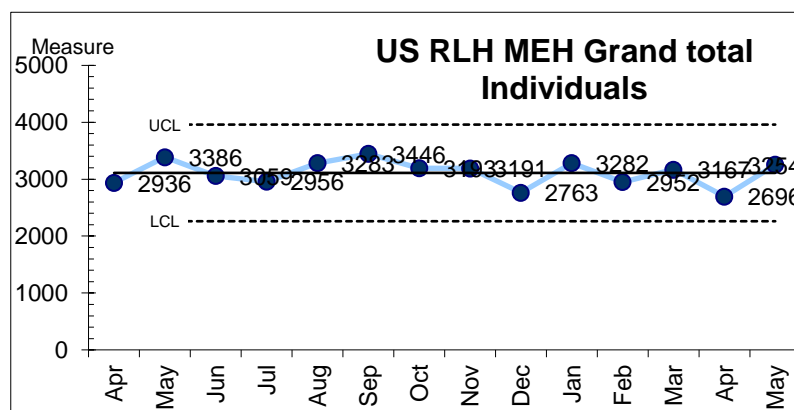
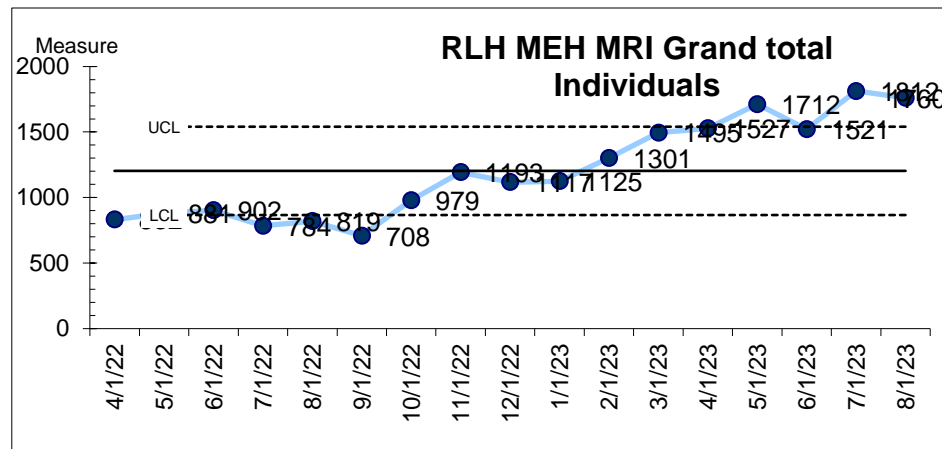
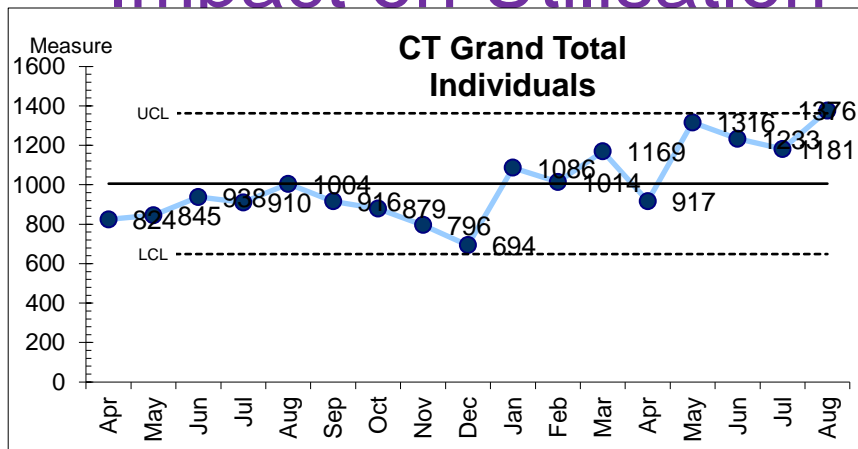
Use of Demand & Capacity data to understand where we can improve further

Codesign with our patients and key stakeholder list

Our trajectory



Impact on Utilisation

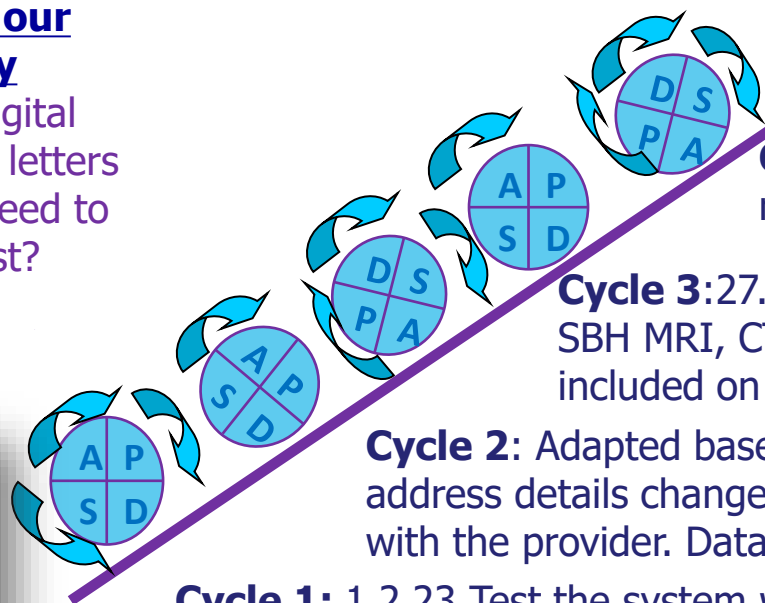




Sustainability PDSA: Patient digital appointment letters – less printing, more productivity

Ramp: Aim to improve our productivity

Do patient digital appointment letters reduce the need to print and post?



Improve comms, share with GPs and included on our Netcall system

Cycle 4: Adapt address for MEH to reduce non attendance

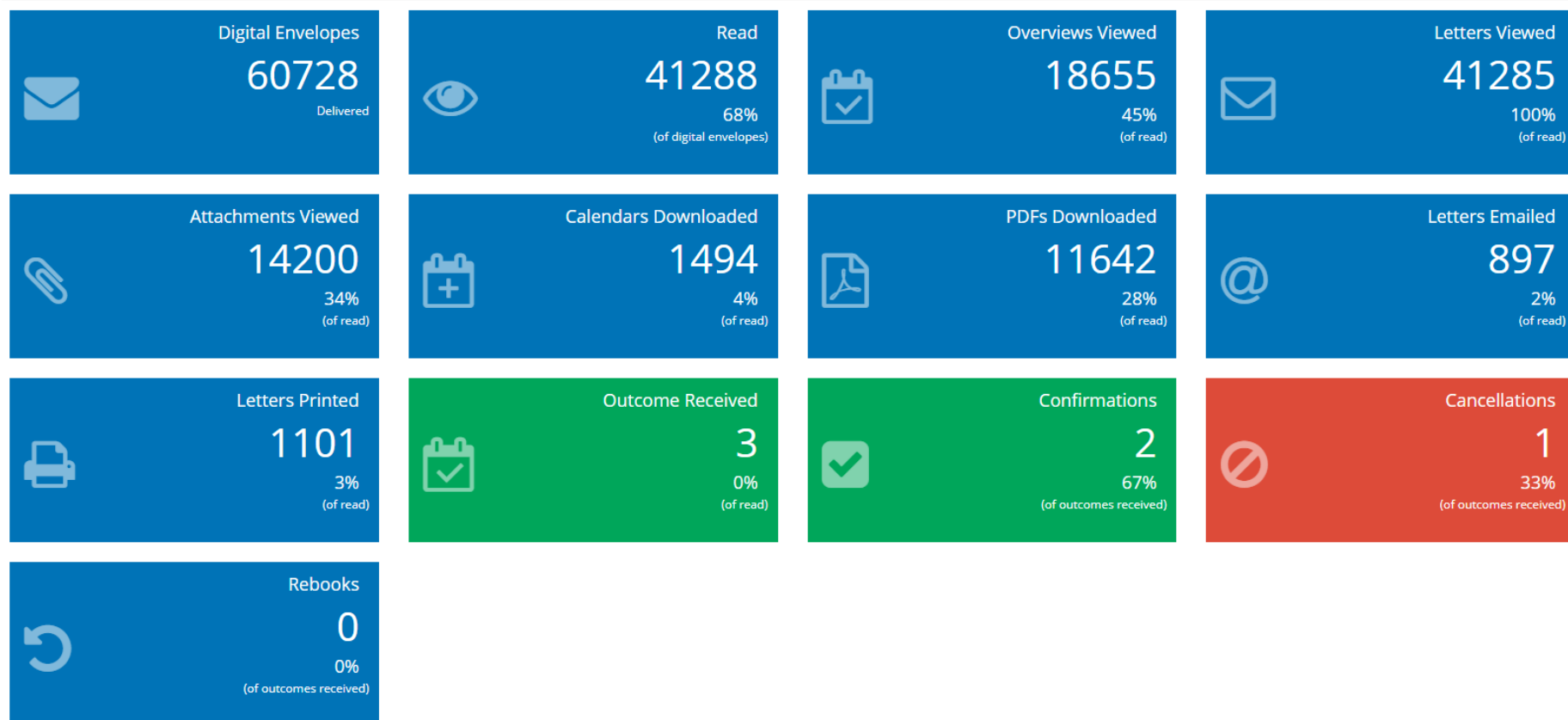
Cycle 3: 27.2.23 Sent to all patients across RLH, MEH, SBH MRI, CT US Improve comms, share with GPs and included on our Netcall system

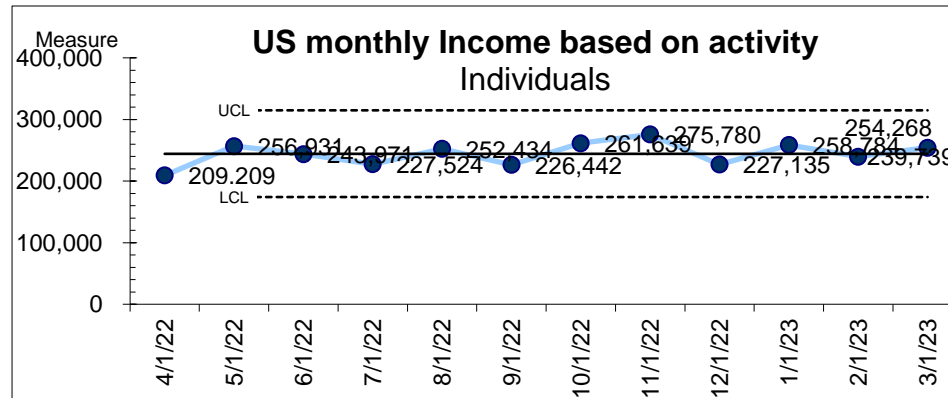
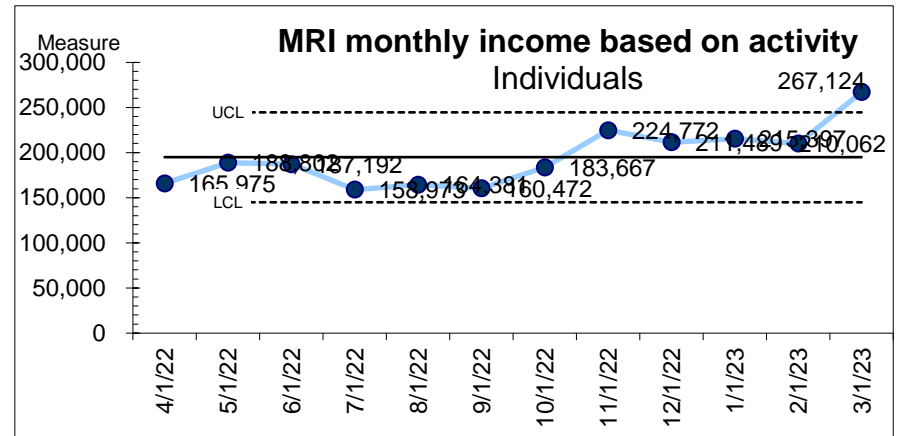
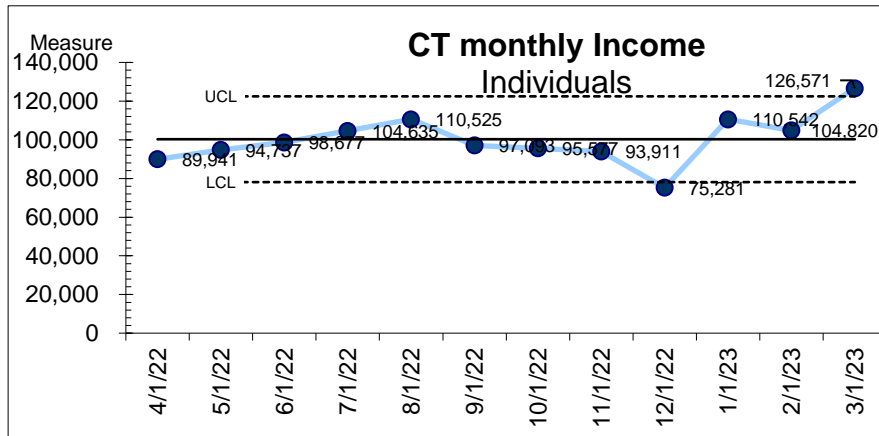
Cycle 2: Adapted based on feedback text and address details changed tested the system works with the provider. Data captured on success of test

Cycle 1: 1.2.23 Test the system with staff MDT, gathering feedback



Digital Appointment letter have been a success







<u>Band 3 Mid Point</u>		<u>2.00 WTE</u>	
Gross Cost to Trust (5 days a week) Annual)	£	74,288	
Gross Cost to Trust (5 days a week) Monthly	£	6,191	

Impact and benefits realised

Patients - Equity in
access, lowered
risk of clinical harm

Organisational
benefits

Leadership -
Support and
celebrated success

Value creation

More efficient and
reduced our costs

3. Culture

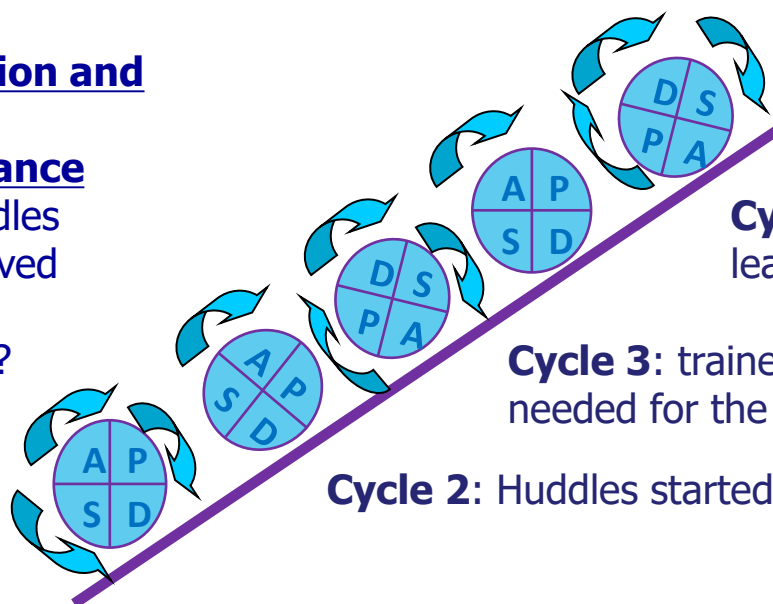
- New Divisional structure created
- Listening events and daily huddles – our common purpose
- Capacity and demand
- Continuous improvement



Daily QI huddles clinical and admin come together. **Positive feedback**

Ramp Aim to improve our communication and oversight of our performance

Can daily huddles support improved booking and slot utilisation?



Cycle 1: Huddle design, structure, attendance developed.

Cycle 2: Huddles started in MRI

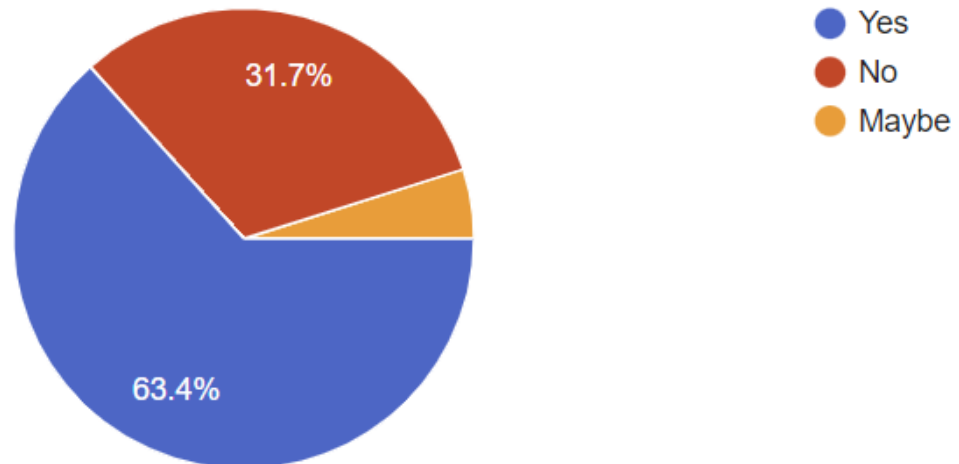
Cycle 3: trained team on how to capture the data we needed for the future Huddles.

Cycle 4: Test huddles in US share the learning from MRI

Next: ADOPT: How to sustain this as part of our BAU

Impact: Staff Survey 2023

Have you seen any changes or improvements in your team in the



Staff Survey comments 2023

In our May 2023 survey staff said:

- *"Our DM01 position has **significantly improved** due to bookings being done effectively on clinical diaries, engaging with the scheduling team via team huddles. The clinical team has improved on image quality produced. Mainly due to feedback and CPD lectures delivered by radiologist. We have improved on the cleanliness of our environment in MRI."*
- *"**lots of the schemes we started last year have come to fruition this year.** The plans were fairly painful to set up initially but with re-iteration we have achieved engagement. I would also say that Nuri, Ollie and Margarita in A+C are working very well together, so the operative team are more functional. previously we all worked in silo because of a breakdown between clinicians and the operative teams"*
- *"**Bringing in recovery support was the key for ultrasound.** Raja and his team has supported us so much and helped to develop a plan to reduce the back log and breeches."*
- *"having a recovery service lead has helped greatly, better communication with the admin team"*
- *"We started **working more closely** with clinical leads and higher management to improve the recovery and clear the backlog."*
- *"we have **improved with regards to backlog and productivity**"*

Next steps

- Shifting lower acuity and direct access to Mile End site
- Supporting BH group regarding capacity
- Ongoing utilisation monitoring
- Reviewing pathways
- Supporting inpatient flow

Thank you

Any questions?

