

Middle East Forum on Quality & Safety in Healthcare **2023**

16-19 March, Doha

Learning from the use of QI during the pandemic
Dr Amar Shah

Healthcare Resilience in Extraordinary Times

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Conflict of Interest

The speaker in this session has no conflict of interest or disclosure in relation to this presentation.

Learning Objectives

At the end of this session, participants will be able to:

1. Identify the key aspects of quality improvement that were utilised in healthcare systems across the globe
2. Appreciate the factors that led to greater adoption of quality improvement in tackling the challenges of the pandemic
3. Share the key lessons from the pandemic about how we need to improve the way we improve in healthcare

What do we know about how to embed a culture of quality improvement?

What have we learnt from the way people have applied quality improvement during the pandemic?

What does this mean for the future of quality improvement?

What does it
take to embed
quality
improvement?

What do we mean by QI?

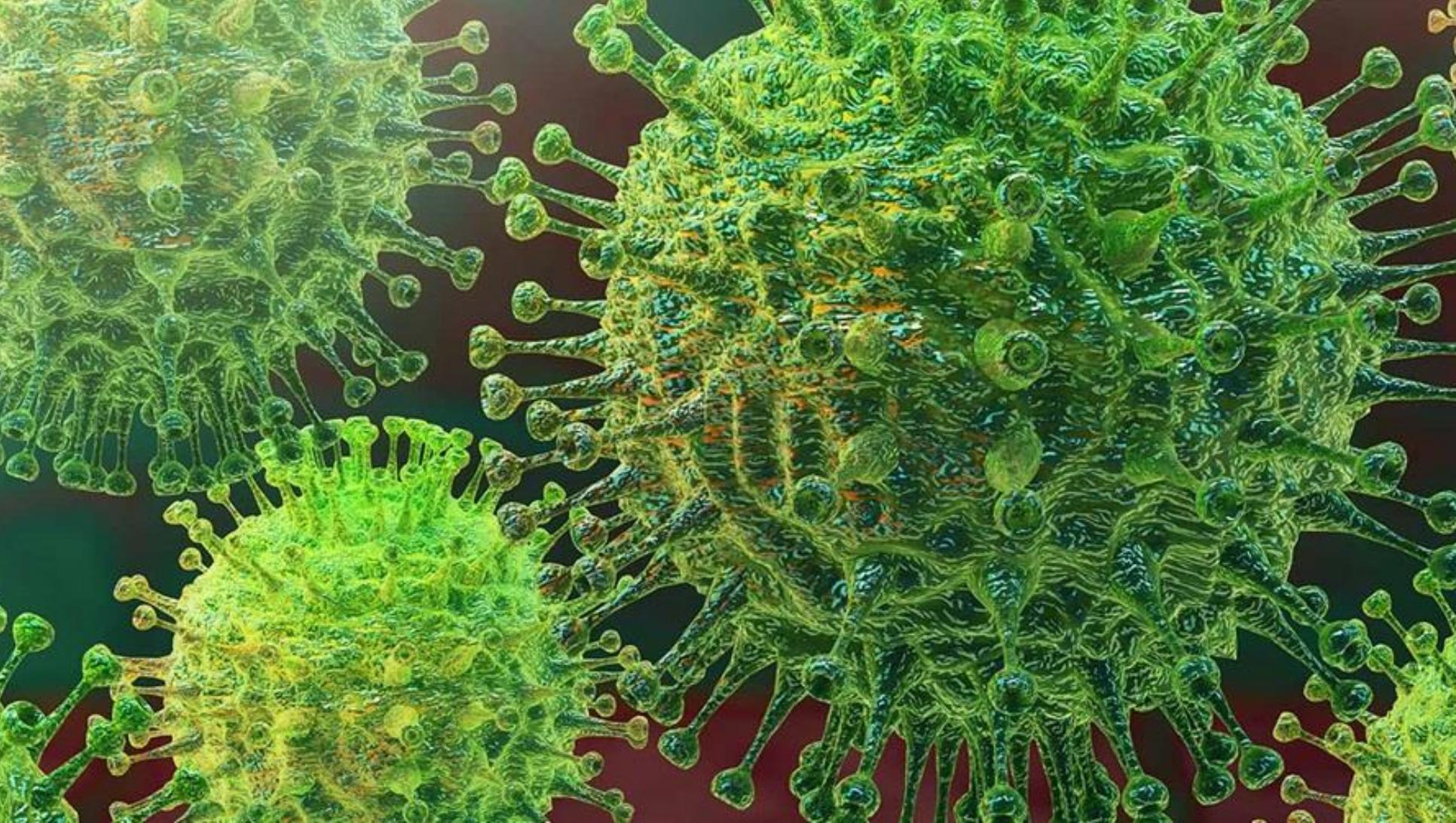
Service user / patient involvement

Close improvement support

Active sponsorship by senior leaders

Improving as a whole team together

Focusing on what really matters

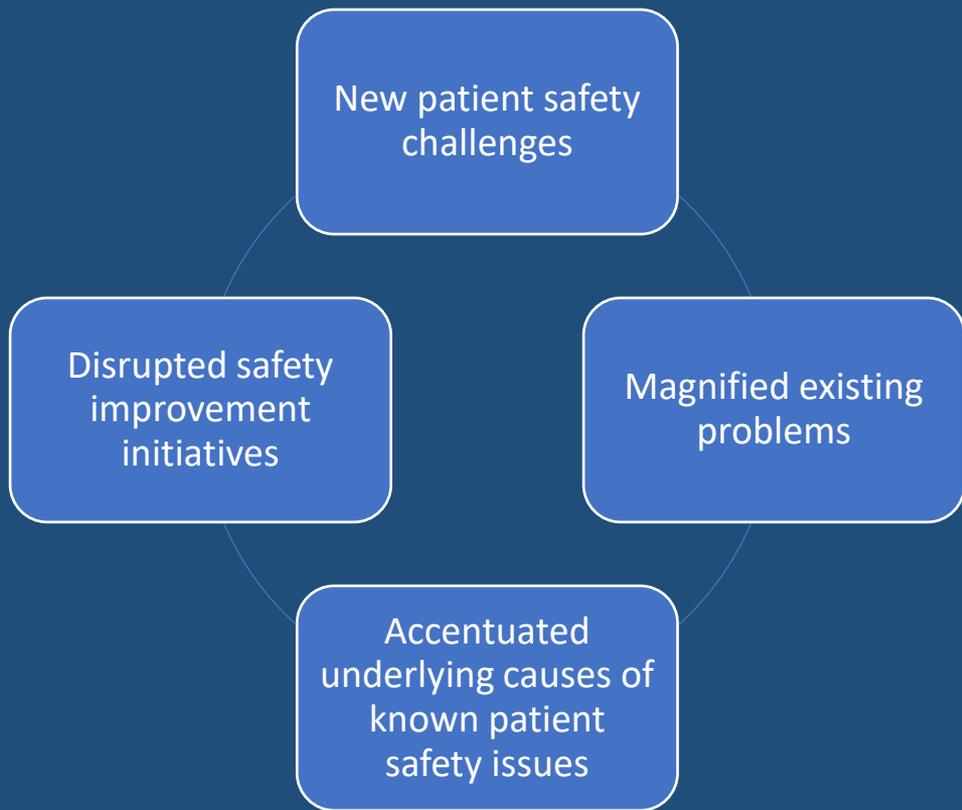


Covid-19 and staff harm



Patient Safety Learning response to the Health and Social Care Select Committee Inquiry: Delivering Core NHS and Care Services during the Pandemic and Beyond, May 2020

Victoria Williamson, Dominic Murphy, Neil Greenberg, COVID-19 and experiences of moral injury in front-line key workers, *Occupational Medicine*, Volume 70, Issue 5, July 2020, Pages 317–319



Interruption of routine care

Redesign of care settings and care delivery

Increase in diagnostic errors

Related to staff shortages, workarounds, stress & burnout, error-prone environments, virtual assessments

Increase in diagnostic errors

Related to staff shortages, workarounds, stress & burnout, error-prone environments, virtual assessments

Reduced safety reporting – less transparency of safety issues

14% reduction in medicine safety incident reporting (National Pharmacy Association)

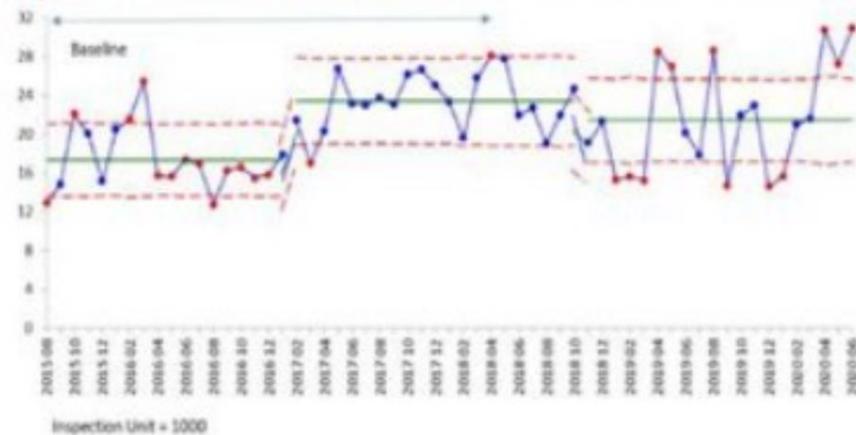
Deterioration in known safety issues

eg hospital acquired infections in the US (CLABSI, CAUTI, MRSA)

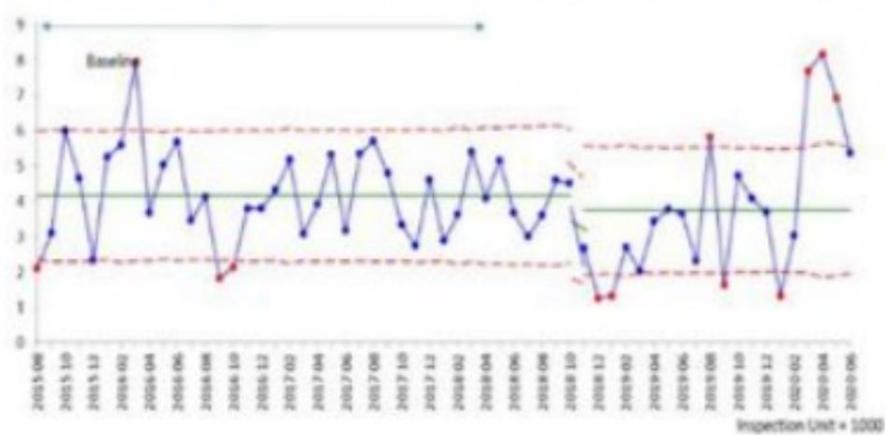
eg increase in restrictive practice in mental health settings

eg increase in community-acquired pressure ulcers

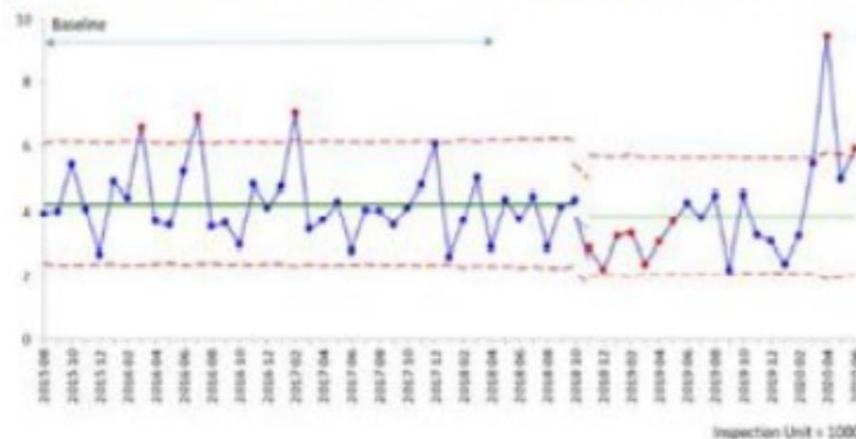
Total Trust Restraints per 1000 Occupied Bed Days



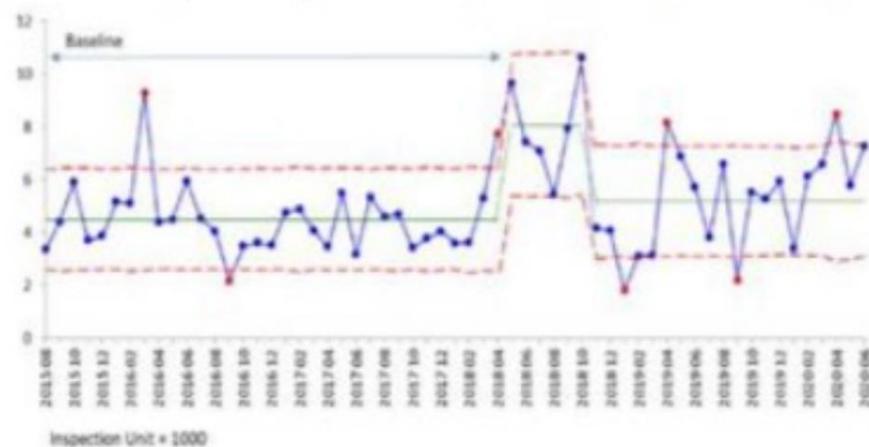
Total Trust Prone Restraints per 1000 Occupied Bed Days



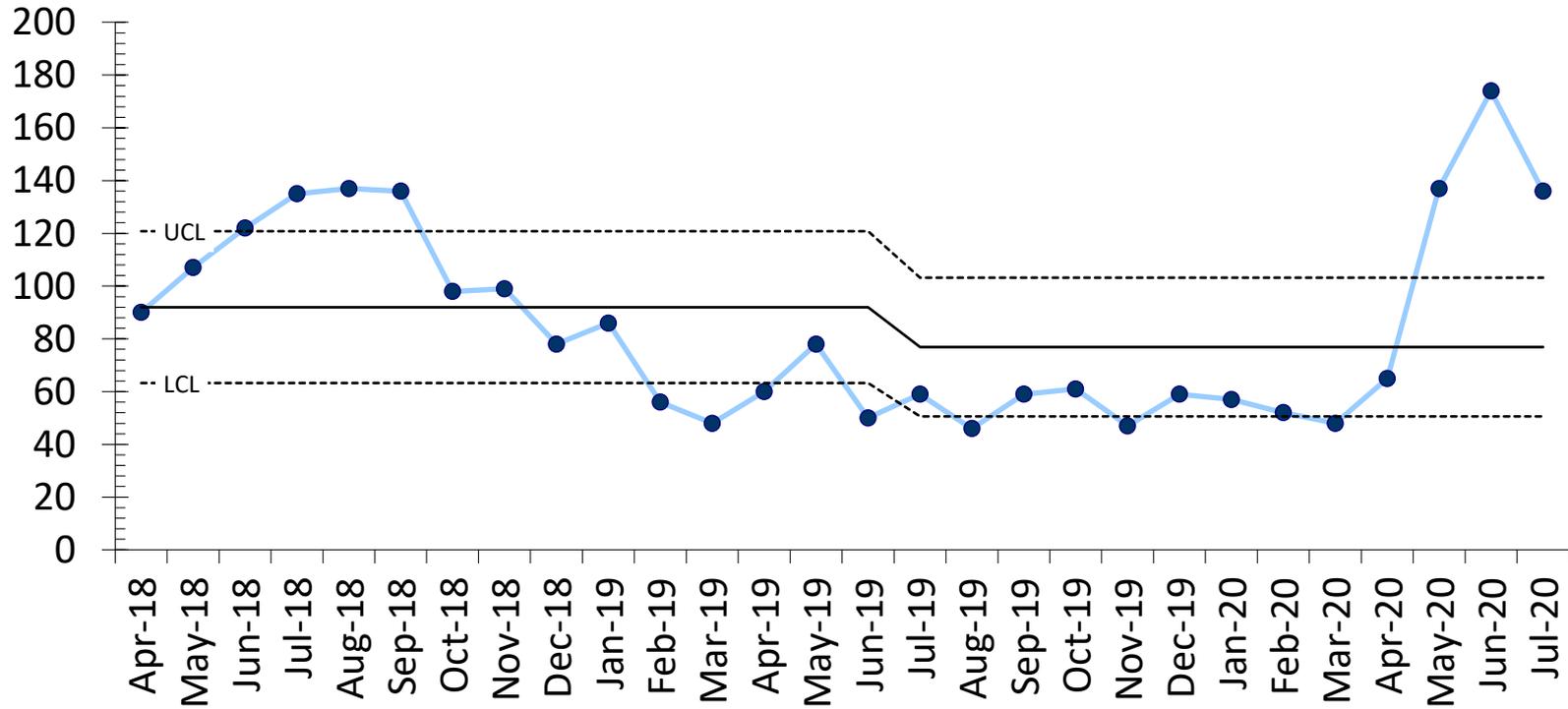
Total Trust Seclusions per 1000 Occupied Bed Days



Total Trust Rapid Tranquillisations per 1000 Occupied Bed Days



Numbers of pressure ulcers each month at ELFT



Increase in diagnostic errors

Related to staff shortages, workarounds, stress & burnout, error-prone environments, virtual assessments

Reduced safety reporting – less transparency of safety issues

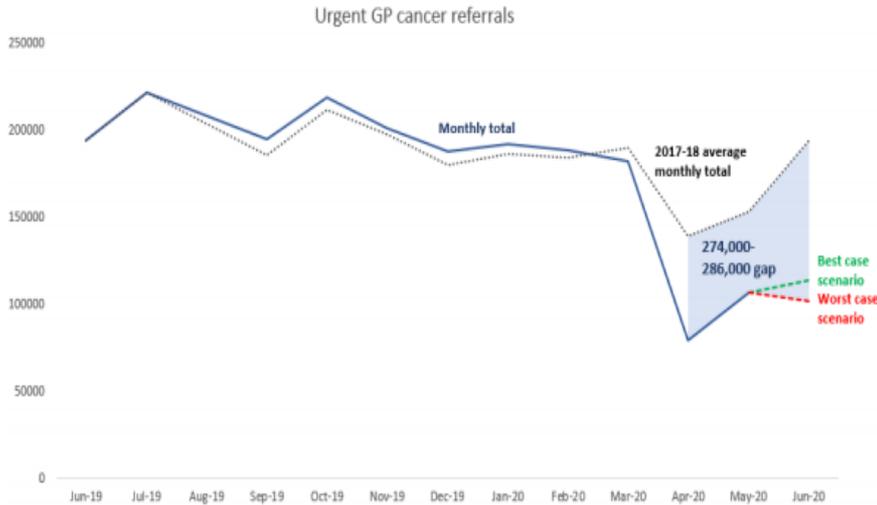
14% reduction in medicine safety incident reporting (National Pharmacy Association)

Deterioration in known safety issues

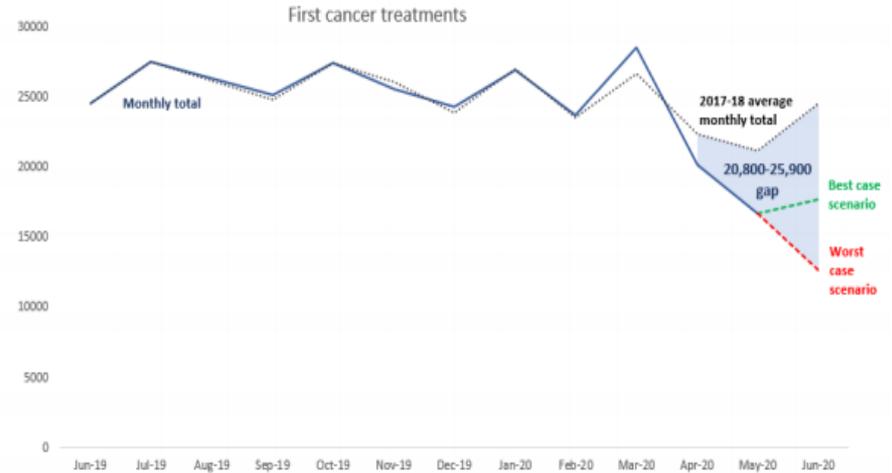
eg hospital acquired infections in the US (CLABSI, CAUTI, MRSA); restrictive practice, community acquired pressure ulcers

Harm caused by service changes

274,000 – 286,000 fewer urgent cancer referrals in England between April - June



20,800 – 25,900 fewer patients starting first cancer treatment between April - June



Positive effects on patient safety

Adoption of
safety culture

Safety
practices for
healthcare
workforce

Use of health
IT to improve
safety

Environmental
cleaning

How can improvement expertise help?

Gathering
evidence to
inform protocols

Simulations and
training

Engage with
citizens, patients
and families to co-
produce solutions

Flash workshops
on teamwork

Boost and
expand the
learning system

Cai H, Tu B, Ma J, et al. Psychological impact and coping strategies of frontline medical staff in Hunan between January and March 2020 during the outbreak of Coronavirus Disease 2019 (COVID-19) in Hubei, China. *Med Sci Monit.* 2020;26. doi:10.12659/msm.924171.

International Journal for Quality in Health Care, 2020, 1–3 doi: 10.1093/intqhc/mzaa050

What can Boards do to improve patient safety during covid-19?

Identify and monitor key safety metrics

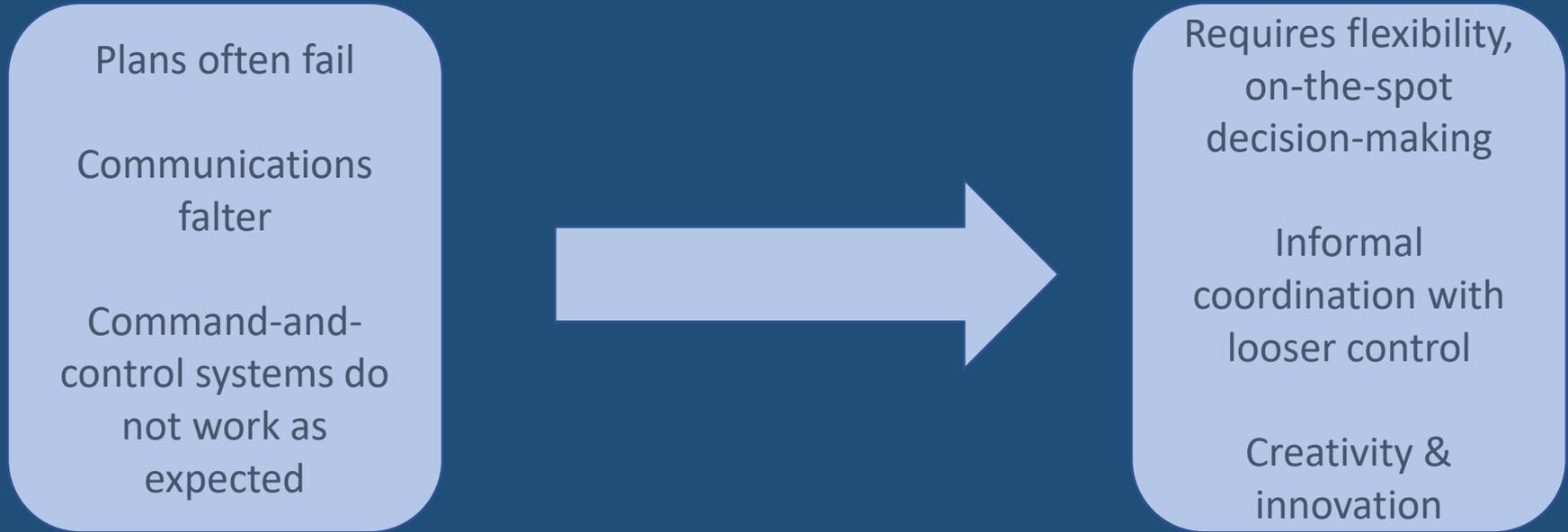
Support learning from incidents, complaints and feedback

Engage and involve patients and families

Clear leadership and governance processes for patient safety

Actively encourage staff and service users to speak up

Responding effectively to low-chance, high-impact events?



Analysis » Quality Improvement

Quality improvement at times of crisis

BMJ 2021 ; 373 doi: <https://doi.org/10.1136/bmj.n928> (Published 11 May 2021)

Cite this as: *BMJ* 2021;373:n928

Article

Related content

Metrics

Responses

Peer review

Amar Shah, chief quality officer^{1,3}, Penny Pereira, Q initiative director⁴, Paula Tuma, quality improvement adviser⁵

Author affiliations ▾

Making rapid change during covid-19 has lessons for how to improve healthcare, argue

Amar Shah and colleagues

Health systems across the globe have faced unprecedented strain and uncertainty during the coronavirus pandemic. Healthcare providers have had to respond rapidly, making major changes to all aspects of healthcare from moving to remote delivery of primary care services to creating covid “hot” and “cold” zones and developing innovations which are likely to have both short and long term consequences for the health of the population.

Quality improvement has been increasingly used globally over the past decade to change healthcare. Evidence of success is mixed.¹ Have such approaches added any value to healthcare service delivery during these unparalleled rapid changes? Are scientifically based approaches to complex system change, such as quality improvement, helping healthcare providers during a crisis?

<https://www.bmj.com/content/373/bmj.n928>



The role of improvement during the response to COVID-19: insights from the Q community

Matthew Hill, Jo Scott and Henry Cann

March 2021



Q is led by the Health Foundation and supported by partners across the UK and Ireland

Did the role of improvement approaches increase or decrease for you during the response to COVID-19?

A. Increased

B. Stayed the same

C. Decreased

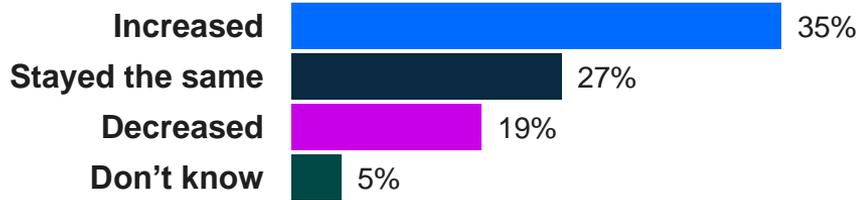
D. Don't know



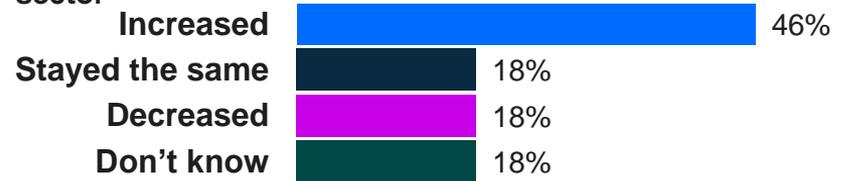
What 200+ improvers in the UK reported (Aug / Sept 2020)

Figure 1: Did the role of improvement tools, methods, approaches and mindsets increase or decrease during the response to COVID-19?

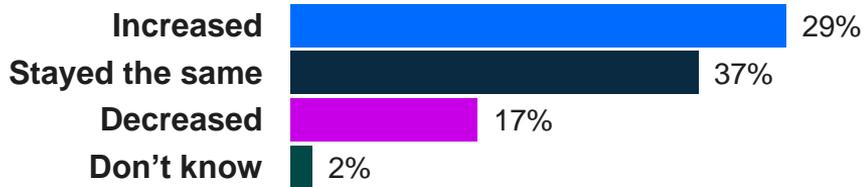
In my organisation



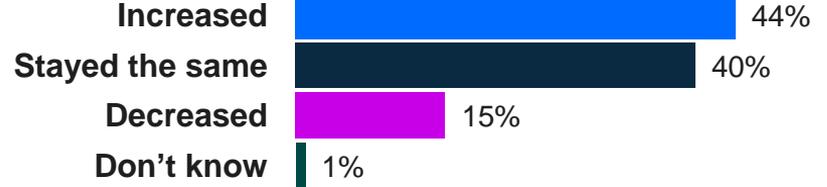
In the health/care sector



In my team



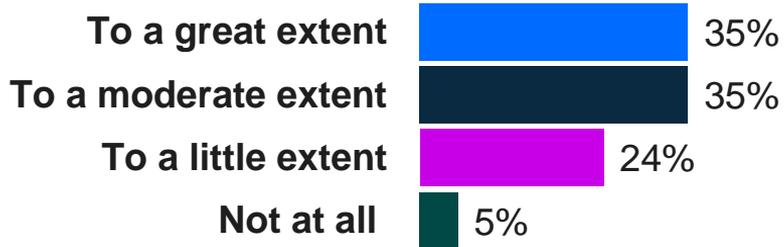
In my work



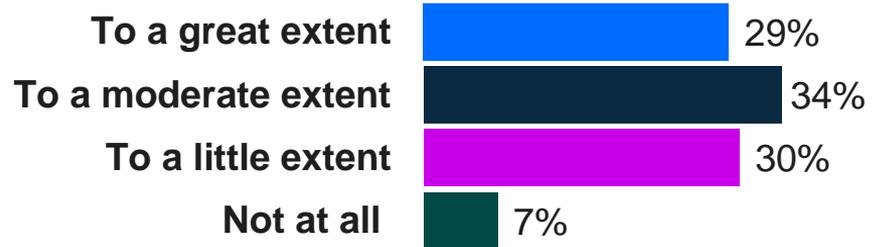
For what purposes was improvement used?

Figure 2: The extent to which improvement tools, methods, approaches and mindsets were used for different purposes

Rapidly reviewing and improving processes and practice



Deciding where to focus effort



Some similar patterns from a group in the US...



Utilization of Improvement Methodologies by Healthcare Quality Professionals During the COVID-19 Pandemic

Lucie Pesch • Terry Stafford • Jaclyn Hunter • Glenda Stewart • Rebecca Milner

ABSTRACT

Introduction: This study describes the work of healthcare quality professionals during the COVID-19 pandemic, highlighting the successes and challenges they faced when applying their expertise in performance and process improvement (PPI) to help manage the crisis.

Methods: The researchers performed a descriptive analysis of anonymous survey data collected from members of the National Association for Healthcare Quality professional community who were asked about their improvement work during the pandemic response.

Results: Most survey respondents used improvement methods to a great or moderate extent to measure what was happening (63%), rapidly review processes and practice (61%), and decide where to focus effort (61%). Fewer respondents used PPI methods to engage with patients and families (56% to a great or moderate extent). Looking to the future, respondents indicated that embedding systematic approaches to improvement within healthcare organizations (59%) and working in a more integrated way across teams (48%) should be prioritized in the post-pandemic recovery.

Conclusions: The results from this study demonstrate why healthcare leaders should recognize the value that performance improvement approaches provide to everyday operations. They must empower PPI experts to lead this critical work and continue building workforce capacity in PPI methods to strengthen staff engagement and achieve better outcomes.

Keywords: healthcare quality, performance and process improvement, COVID-19, workforce development

Introduction

The COVID-19 pandemic was a test of the modern healthcare system's readiness to withstand a catastrophic event. Crisis management systems and crisis standards of care have been established for decades,¹ but the unprecedented circumstances of 2020 revealed intrinsic barriers within these systems that hindered the delivery of safe, high-quality care in the face of widespread uncertainty.² Despite many

consequences, including a significant year-over-year increase in hospital-acquired infections between 2019 and 2020,^{3,4} the outcomes of the ongoing battle against COVID-19, both positive and negative, have demonstrated the need for a renewed focus on quality and safety in healthcare delivery.

Over the course of the pandemic, healthcare quality professionals were called on to support critical operations such as implementing incident

Survey replicated in the US later in the pandemic

Increasing importance of improvement shared

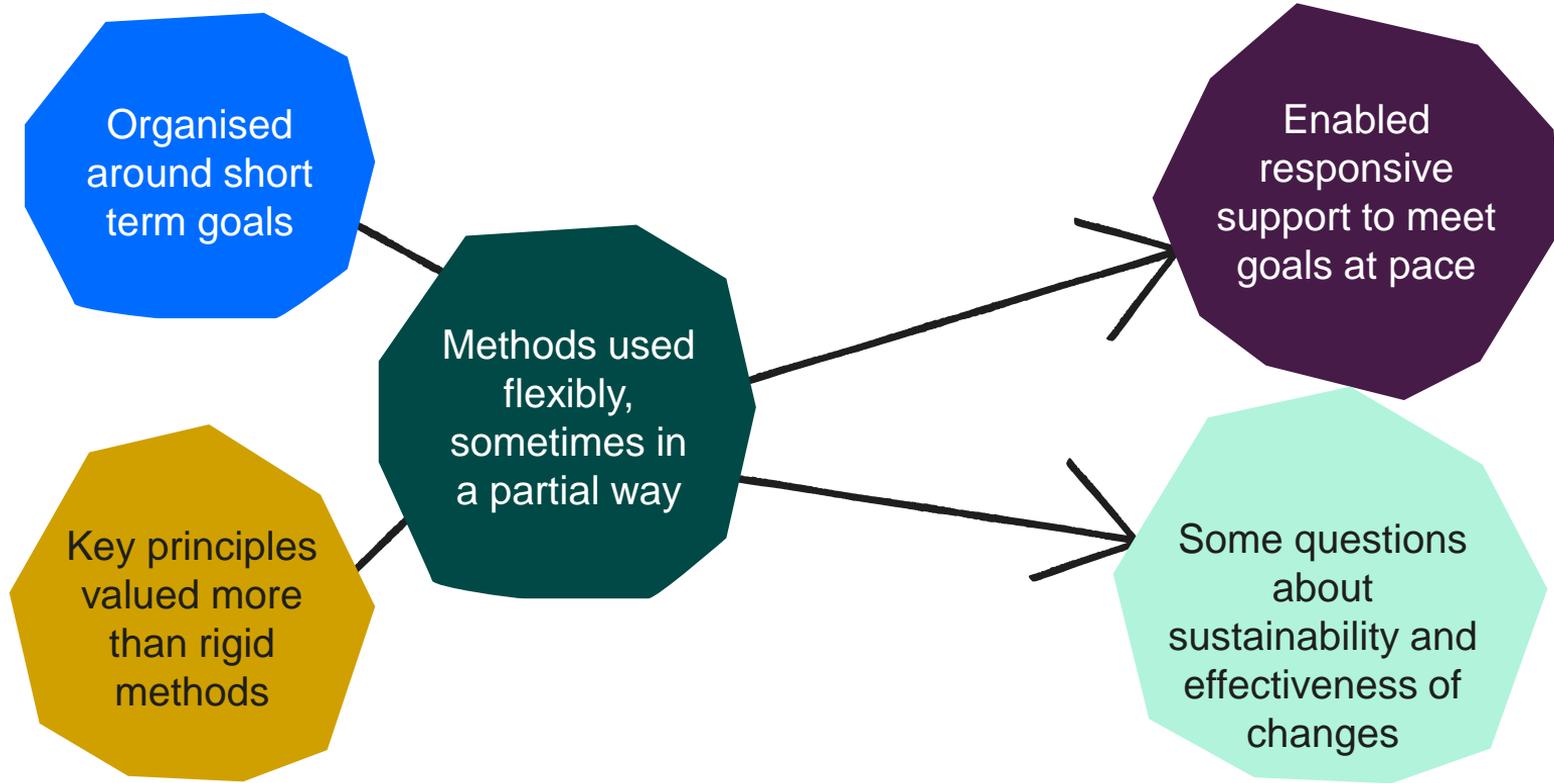
Many shared lessons

...but also differences

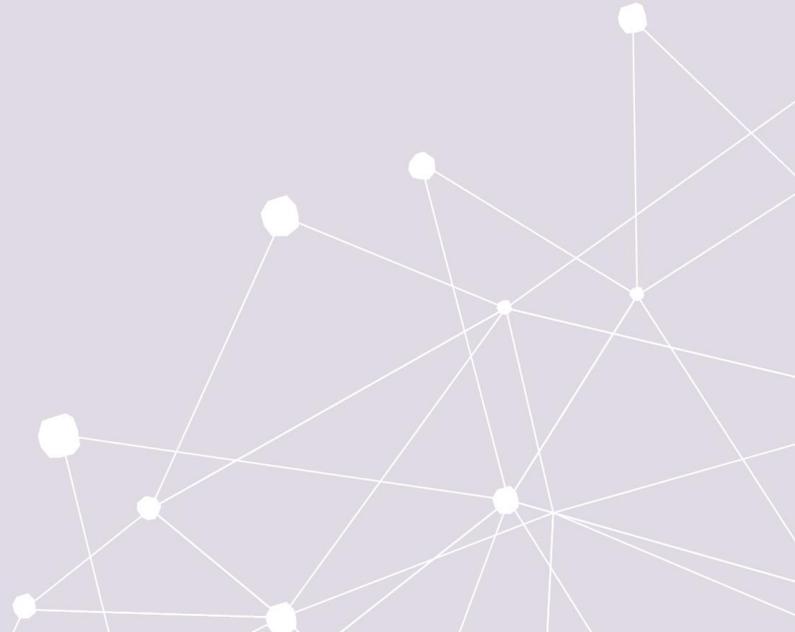


How did
improvement help
where you are?

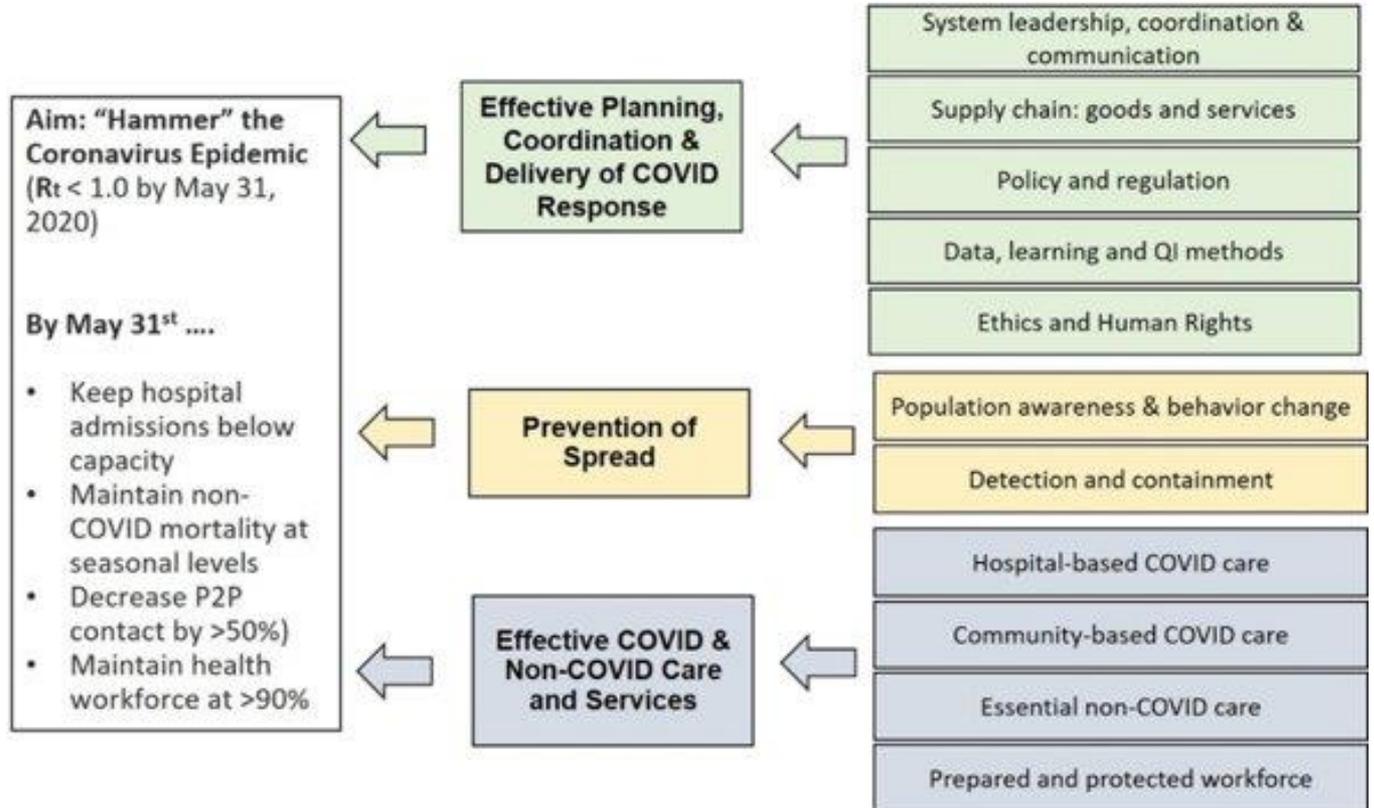
Improvement took a distinct form in response to crisis



Examples of how improvement has been used



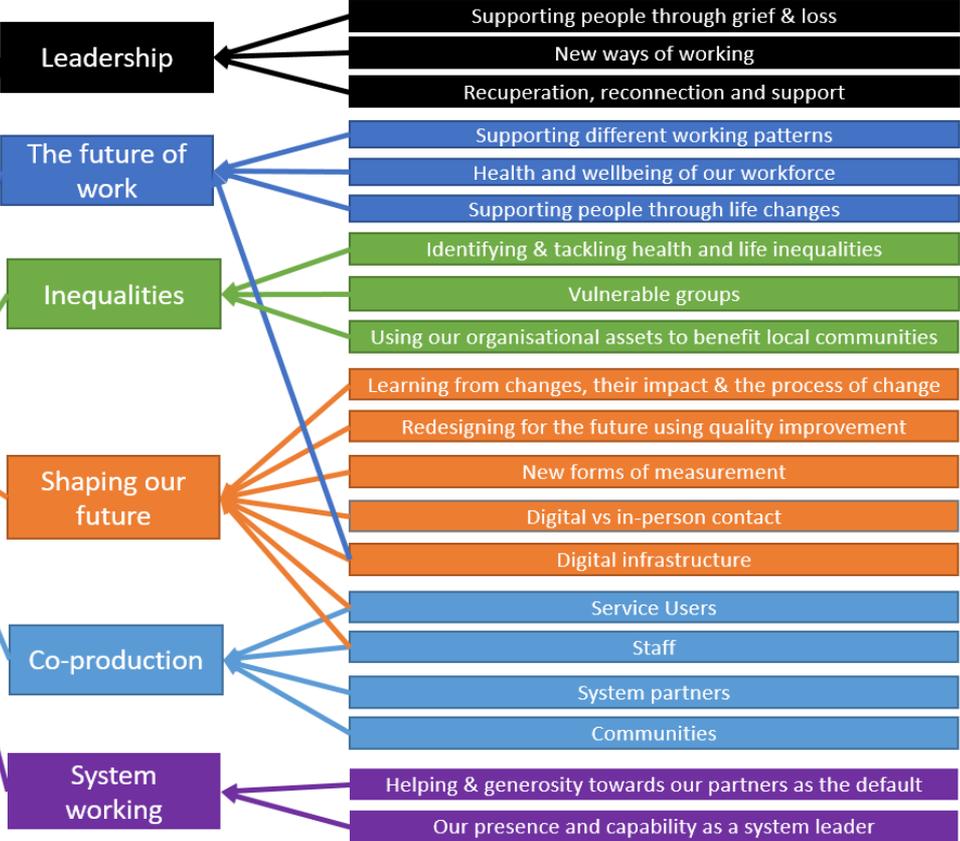
Creating a common theory about how to tackle complex problems



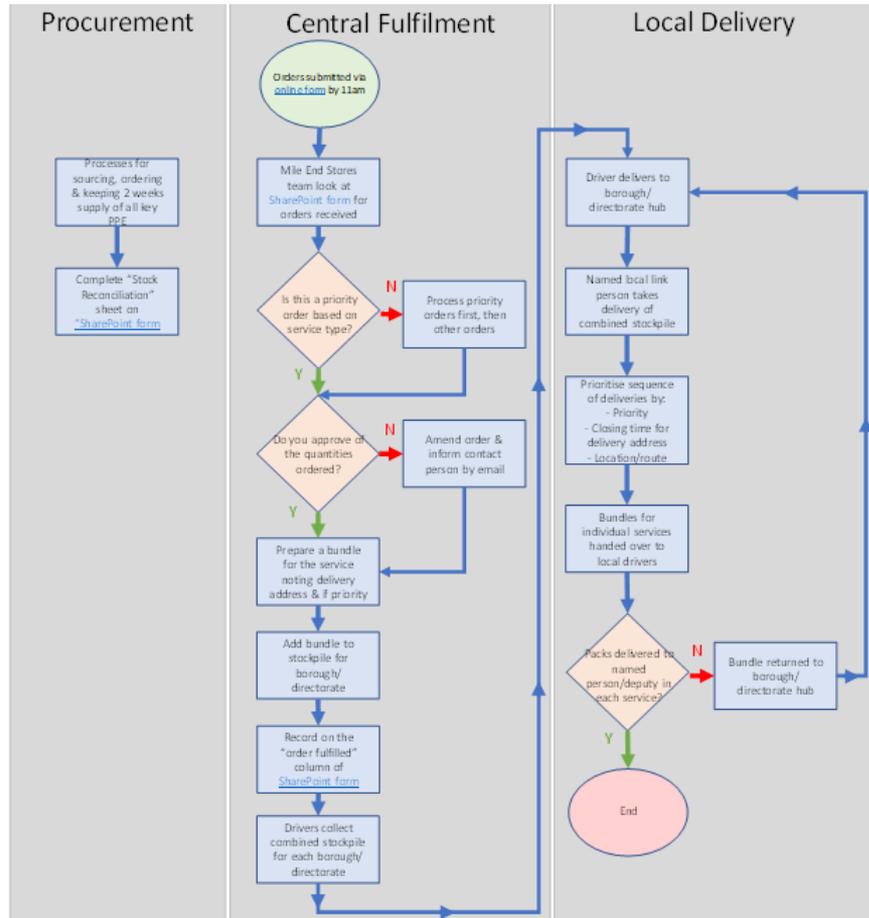
Creating a common theory about how to tackle complex problems

To learn and shape our future so that we can improve quality of life for the communities that we serve.

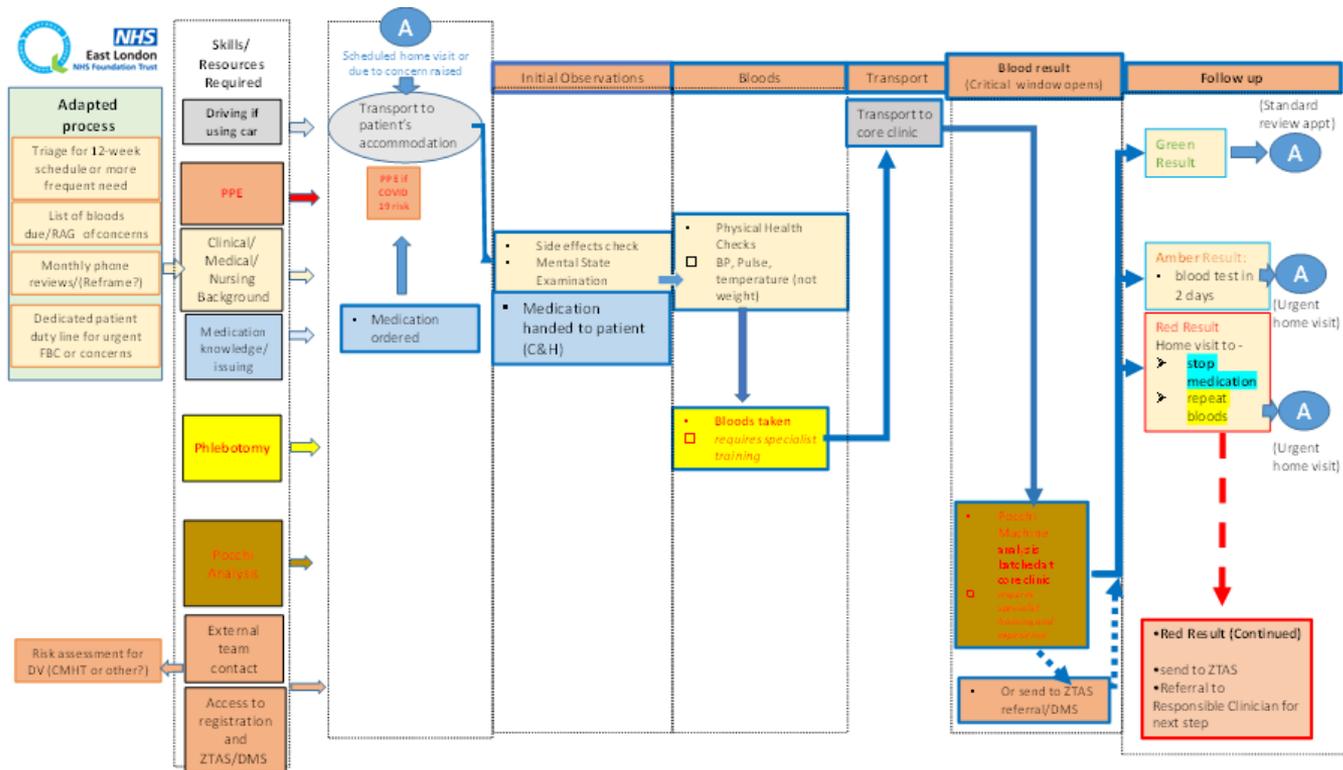
To improve the wellbeing of service users and staff now and for the future.



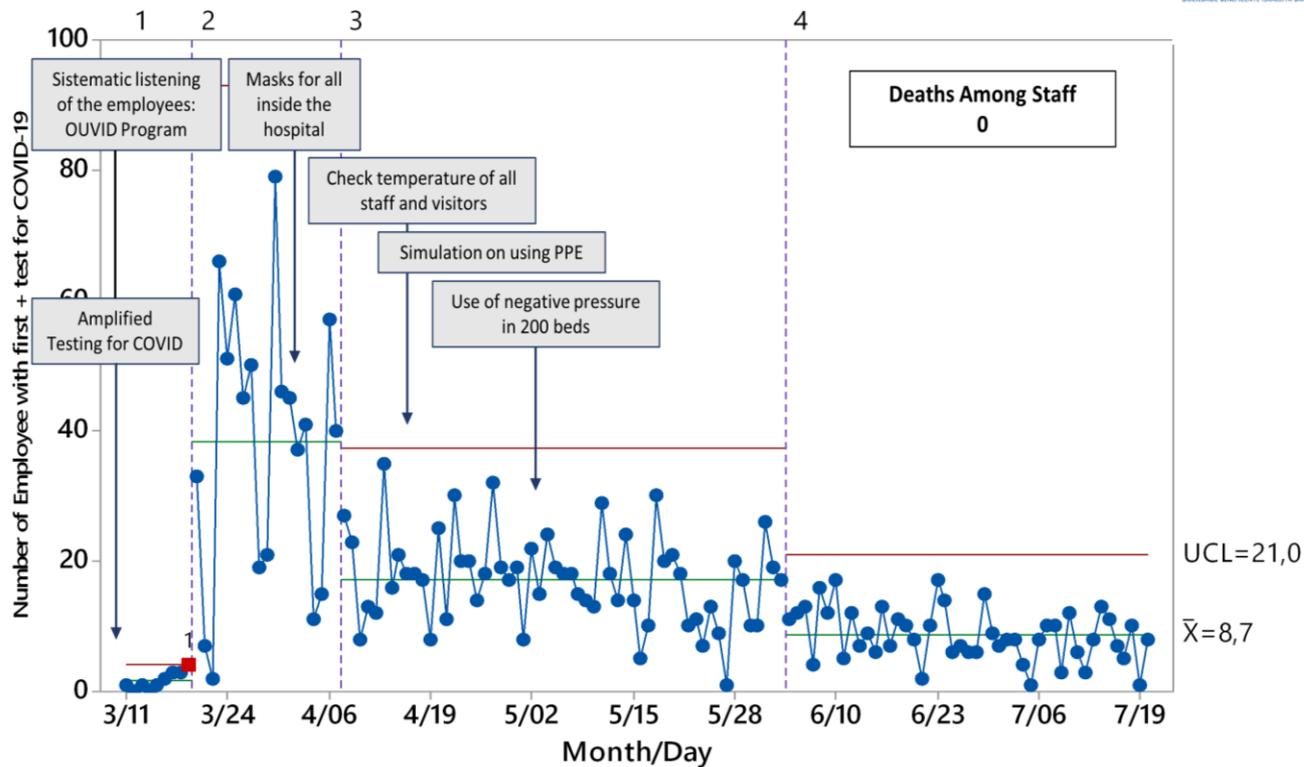
Understanding and improving processes



Understanding and improving processes



Number of Employee with First Positive Test for COVID-19



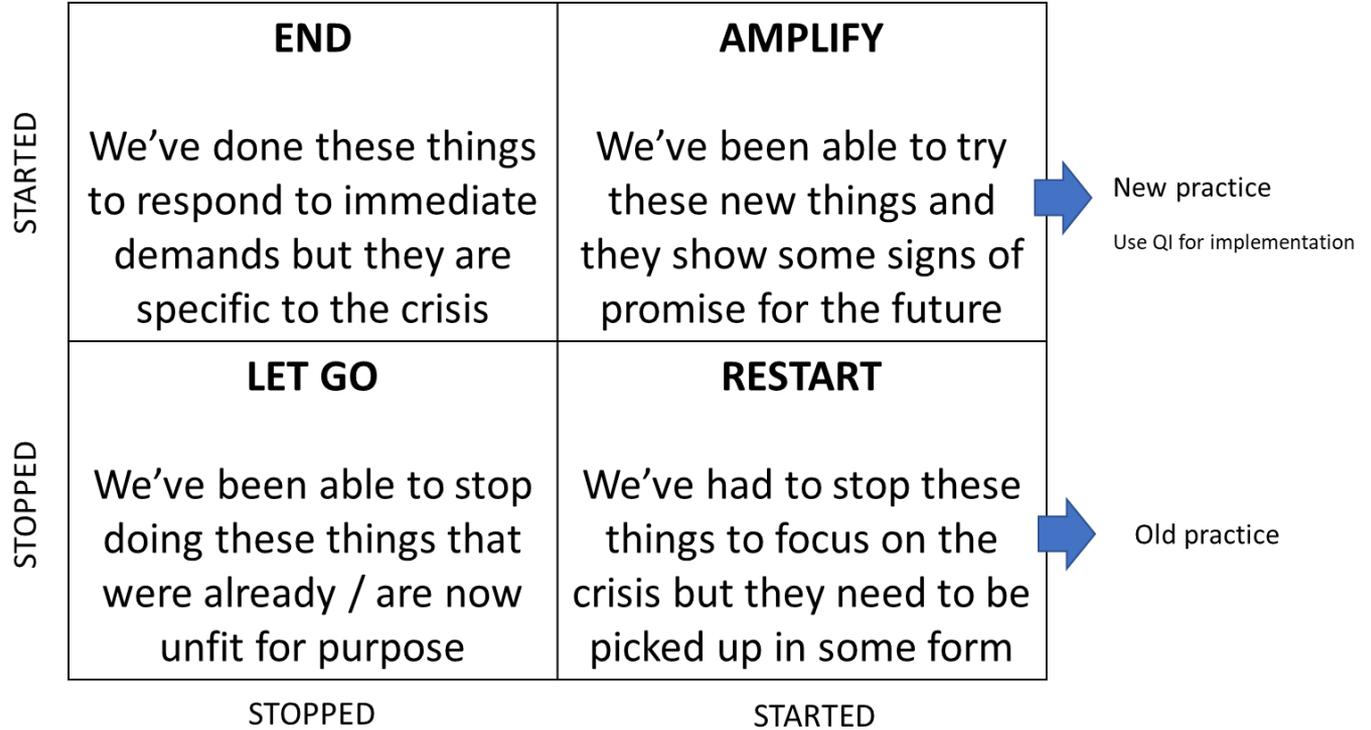
Measurement to inform decision making

Measurement to inform decision making



PDSA cycles
to test and
scale rapidly





Supporting learning
and redesign for
the future

Curating
the
changes
that have
taken place



Identifying
potential
impact and
measuring
intentionally



Using the
triple aim to
redesign
services for
the future



Quality impact
assessment



Through facilitated
workshops with staff,
service users and partner
agencies

Why does this matter now?



Further crises
and rapid
change
ahead



Lessons from
the crucible
of crisis are
relevant
wider



Improvement
just as critical to
recovery



Opportunity to
maintain
engagement and
show the value
of improvement

What does the future of quality improvement hold?



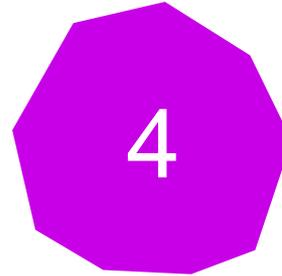
Continue to
build our
improvement
muscle



Continue to
support our
leaders to lead
improvement



Put
improvement in
everyone's
hands



Use the rigour
of QI for
complex
problem solving



Pay attention to
equity in the way
we design and
lead improvement

Brought to you by: **Hamad Healthcare Quality Institute**

Thank you

Healthcare Resilience in Extraordinary Times

