

An Introduction to the Patient Flow Academy

Dr. Michael O' Connor, National Clinical Advisor and Group Lead, Acute Operations

16th October 2023





Healthcare demand and delivery in Ireland



The importance of patient flow and international experience



Barriers and facilitators to patient flow

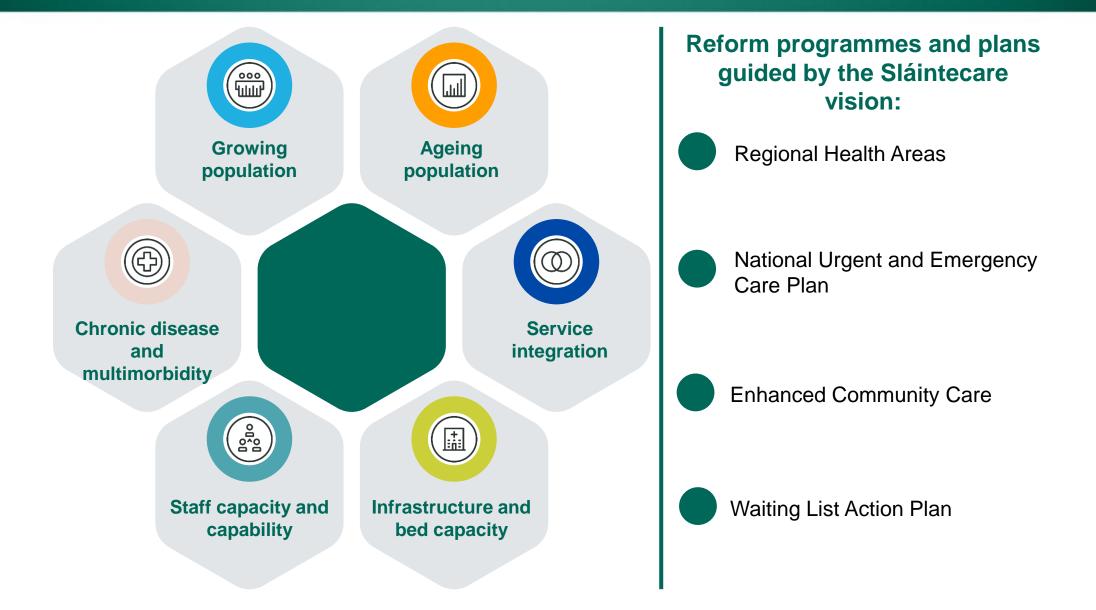


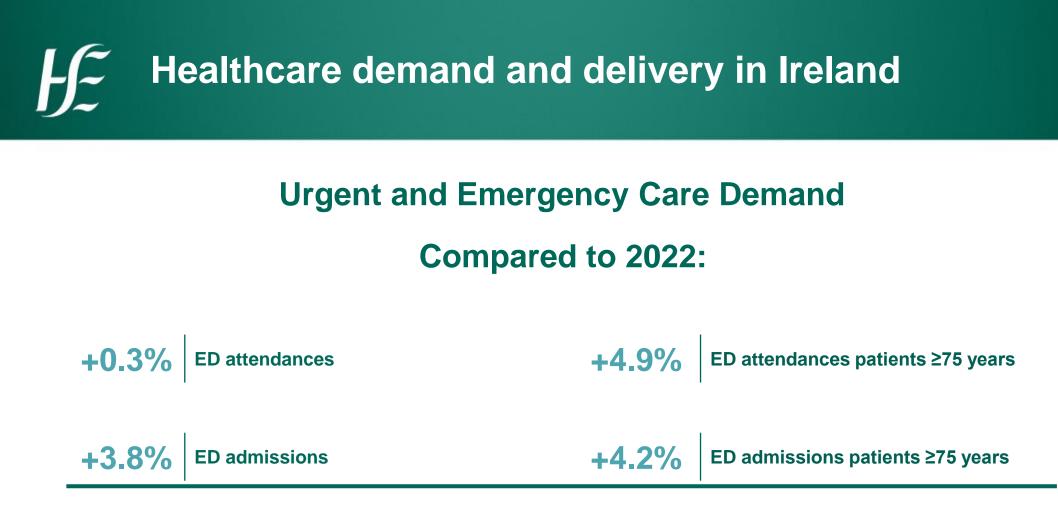
The HSE Patient Flow Academy

Healthcare demand and delivery in Ireland



Healthcare demand and delivery in Ireland





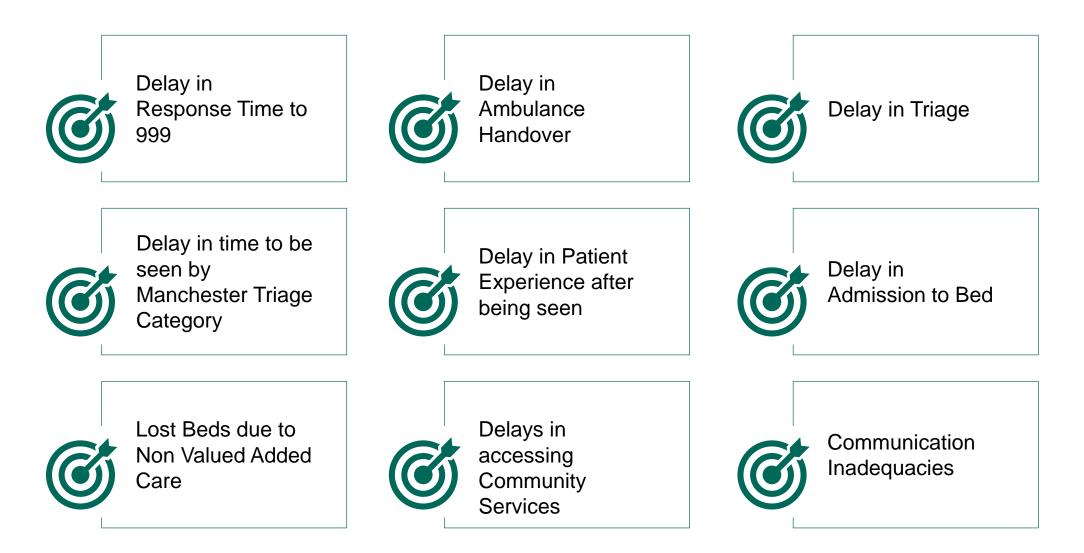
Compared to 2019:

+7.7% ED attendances +21.7% ED attendances patients ≥75 years

+7.9% ED admissions

+16.4% ED admissions patients ≥75 years













TROLLEY CRISIS

October trolley watch stats show 'almost' double numbers this year than same period in 2020

INMO figures show that there are five times as many children on trolleys compared to October 2020.

17.2k 26 Oct 31st 2021, 4:34 PM

CRISIS



Waiting list figures on the rise as more than 550,000 patients waiting for an appointment

The IHCA criticised the latest figures and said the Government had failed to meet its own 2019 targets.

Effect of hours awaiting admission on ED Trolley on SMR

- Cross-sectional, retrospective observational ٠ study
- Every ED in England April 2016 to March 2018. ٠ The primary outcome was death from all causes within 30 days of admission
- 7,472,480 patients admitted relating to ٠ 5,249,891 patients
- Statistically significant linear increase in ٠ mortality from 5 hours after time of arrival at the ED up to 12 hours (when accurate data collection ceased) (p<0.001)
- For every 82 admitted patients whose time to ٠ inpatient bed transfer is delayed beyond 6 to 8 hours from time of arrival at the ED, there is one extra death



Health, New York University

²The "Getting It Right First

mprovement London UK

Bolton Hospital, Bolton, UK

Business School, Exeter, UK

Rlack Box Data Science Ltd,

⁷Emergency Department,

Musgrove Park Hospital

Biggleswade, UK

Taunton, UK

Emergency Department, Royal

Index Unit, University of Easter

Time" programme, NHS

New York, USA

School of Medicine, New York,

Association between delays to patient admission from the emergency department and all-cause 30day mortality

Simon Jones 0, 1.2 Chris Moulton 0, 3.4 Simon Swift 0, 2.5 Paul Molyneux, 2 Steve Black 0, 6 Neil Mason 0, 2 Richard Oakley 0, 2 Clifford Mann 0 3,7

Handling editor Simon Carley ABSTRACT Background Delays to timely admission from ¹Department of Population

emergency departments (EDs) are known to harm patients. Objective To assess and quantify the increased risk ²Methods Analytics, London, UK of death resulting from delays to inpatient admission

from EDs, using Hospital Episode Statistics and Office of National Statistics data in England. Methods A cross-sectional, retrospective observational

study was carried out of patients admitted from every type 1 (major) ED in England between April 2016 and March 2018. The primary outcome was death from all causes within 30 days of admission. Observed mortality was compared with expected mortality, as calculated using a logistic regression model to adjust for sex, age, deprivation, comorbidities, hour of day, month, previous ED attendances/emergency admissions and crowding in

Correspondence to Dr Chris Moulton, Emergency the department at the time of the attendance. Department, Royal Bolton Results Between April 2016 and March 2018, 26 738 Hospital Rolton UK-514 people attended an ED, with 7 472 480 patients Chris.Moultan@boltanft.nhs.uk admitted relating to 5 749 891 individual patients. Clifford Mann deceased who constituted the study's dataset. A total of 433 962 deaths occurred within 30 days. The overall crude Received 30 April 2021

30-day mortality rate was 8.71% (95% CI 8.69% to Accepted 15 November 2021 8.74%). A statistically significant linear increase in Published Online First mortality was found from 5 hours after time of arrival at 18 January 2022 the ED up to 12 hours (when accurate data collection ceased) (p<0.001). The greatest change in the 30-



Check for updates

@ Author(s) (or their employer(s)) 2022, Re-use permitted under CC BY-NC. No commercial re-use. See rights and permissions. Published Ev BÍUL To cite: Jones S. Moulton C. Swift S. et al. Emerg Med J 2022:39:168-173.

2

168

emermed-2021-212106

day standardised mortality ratio was an 8% increase occurring in the patient cohort that waited in the ED for

more than 6 to 8 hours from the time of arrival. Conclusions Delays to hospital inpatient admission for patients in excess of 5 hours from time of arrival at the ED are associated with an increase in all-cause 30day mortality. Between 5 and 12 hours, delays cause a predictable dose-response effect. For every 82 admitted patients whose time to inpatient bed transfer is delayed beyond 6 to 8 hours from time of arrival at the ED, there is one extra death.

INTRODUCTION

In England, by the end of the 20th century, demo-



hospital beds had resulted in crowded emergency departments (EDs) and long delays for patients. In consequence, the NHS 4-hour operational standard was introduced in 2004 and shortly thereafter, the EDs over a 90-day period by an NHS economics other nations of the UK and several other countries, team. They showed that higher inpatient bed occusuch as Canada and Australia, introduced similar pancy was correlated with longer ED waiting times, standards for ED waiting times.1-5 (The 4-hour but with a non-linear association.

Jones S. et al. Emerg Med / 2022;39:168-173. doi:10.1136/emermed-2021-21157/

What is already known on this subject → Small studies from Canada and Australia have indicated that there is an increased mortality rate among patients who experience delays in admission to an inpatient bed from the emergency department (ED).

Counterfactual modelling has shown reduced patient mortality as a result of the NHS 4-hour operational standard. The NHS Benchmarking Network found a coefficient of determination (R² value) of 0.07 between time greater than 4 hours in the ED and a hospital's Summary Hospital-level Mortality Indicator.

What this study adds

→ This study of over five million NHS patients shows an increase in all-cause 30-day mortality that is independently associated with delays to hospital admission from the ED rather than with crowding alone.

- ⇒ The standardised mortality rate starts to rise from 5 hours after the patient's time of arrival at the ED.
- The increasing effect of long stays in the ED before inpatient admission can be measured and represented as a number needed to harm metric: after 6-8 hours, there is one extra death for every 82 patients delayed.

standard is a binary time threshold for discharge, admission or transfer; it starts when the patient arrives at the ED, and time in the ED beyond 4 hours is a 'breach' of the 'target'.)

For more than a decade, the 4-hour standard served both patients and the NHS well but, during the past few years, further increases in the demand for urgent and emergency care have exacerbated long waits for hospital admission.6 By 2019-2020, over 3.2% of all ED patients waited in the ED for more than 12 hours from their time of arrival.7 Long ED delays are most often caused by 'exit block' due to a lack of available inpatient beds. This was demonstrated using data collected from all English

J

9

Emerg Med J: first

publ

8 ō

2021-211572 on 18

2022

8



"The number one reason to improve the movement of patients through health care settings is because "bad flow" is disrespectful to patients and families.

Our inability to more effectively design and manage processes also wears on clinicians and staff – decreasing their efficiency and productivity, undermining joy in work, contributing to burnout, and decreasing job satisfaction. Both our patients and families bear most of the burden.

We make patients wait in the wrong places. We make them seek care in the wrong units. If you were to walk through most hospitals today, you will find multiple problems with patient flow."

Bisognano, 2016 (IHI President Emerita and Senior Fellow)

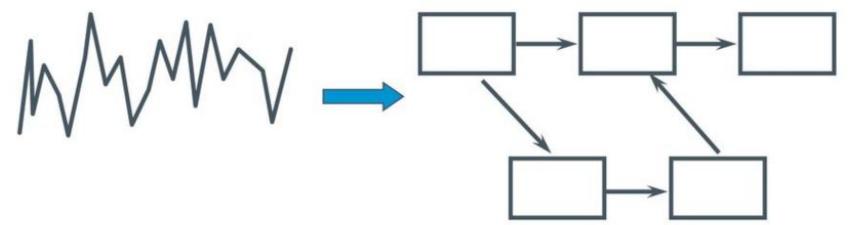


Hospital Flow: Strategies for System Optimization

*



System





Effective communication



Communication is essential when it comes to patient flow management. Healthcare providers should communicate effectively among themselves, with patients, and with their families to ensure patients receive timely, appropriate care.

Efficient resource management



Appropriate allocation of resources such as staff, equipment, and facilities needs to be ensured to improve patient flow. Ensuring adequate resources are available can minimise wait times, reduce delays and facilitates the movement of patients within and between hospitals and community services.

Streamlined processes



Streamlining processes such as registration, triage, tests, and treatment can significantly reduce patient waiting times. Hospitals and community services should focus on automating redundant processes, eliminating bottlenecks and prioritising critical cases.

Continuous monitoring and improvement



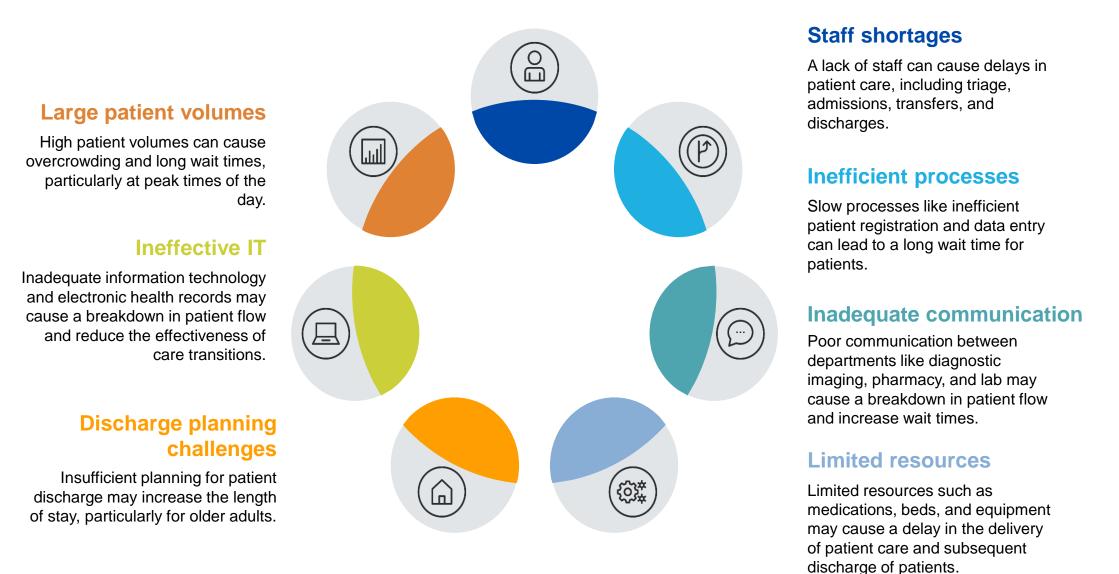
Continuous monitoring and improvement of patient flow processes can lead to a better patient experience. Management can use data-driven insights and feedback mechanisms to identify areas for optimisation.

Integrated collaborative effort



Patient flow management requires collaboration between departments, stakeholders, and healthcare providers within the hospital and community. It is essential to work as a team to ensure smooth movement and adequate resource allocation.

L Current Barriers to Patient Flow





Patient flow

is the ability of healthcare systems to manage patients effectively and with minimal delays as they move through stages of care



Poor flow

Imbalance between demand and capacity to provide timely and high quality care

Crowded and unsafe environment	Non-cohorted wards	Boarded assessment units	
Poorer clinical outcomes	Increased length of stay	Poor patient/staff experience	
Delay in time-sensitive interventions	Higher healthcare costs	Increased morbidity and mortality	

H International Experience of Patient Flow Academies

Patient flow academies have been established in other jurisdictions including the UK, the USA and Australia:



Flow Coaching Academy, NHS UK

Flow Coaching Academies (FCA) established by a team based at Sheffield Teaching Hospitals NHS Foundation Trust.

The education provided by the academies focuses on teaching improvement science and coaching skills required to achieve sustained improvement. (F)

Getting It Right First Time Programme, NHS UK

> Getting It Right First Time (GIRFT) is a national programme in the NHS developed to improve patient care and deliver efficiencies by removing unwarranted variation. It employs detailed reviews of healthcare services, benchmarking, and the implementation of datadriven change.



Hospital Flow Professional Development Program, IHI, USA

The Institute for Healthcare Improvement (IHI) offers an in-person, blended learning Hospital Flow Professional Development Programme. The programme guides teams through detailed reviews of what it calls 'high-leverage strategies' to improve patient flow through hospitals. The IHI programme focuses on learning from the success of others.

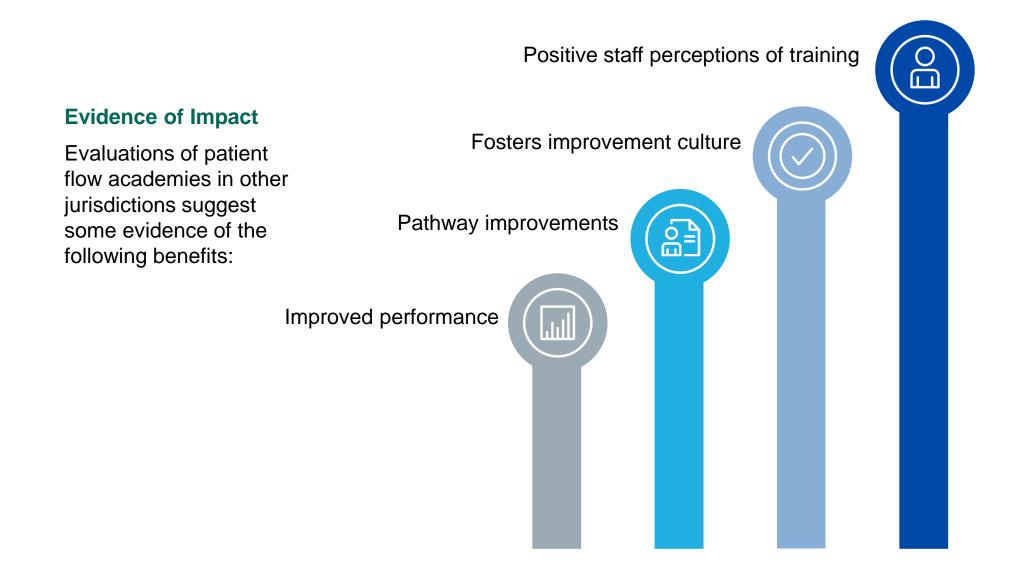


Patient Flow Collaborative, Safer Care Victoria, Australia

In 2017-18, Safer Care Victoria worked with 15 health services in Victoria, Australia through a Patient Flow Collaborative.

The 15 organisations worked towards both statewide performance targets and individual initiative targets. The organisations collaborated with industry coaches to provide mentoring and capability development.

H International Experience of Patient Flow Academies



ŀĿ



WHITE PAPER

Achieving Hospital-wide Patient Flow

The Right Care, in the Right Place, at the Right Time



AN IHI RESOURCE

20 University Road, Cambridge, MA 02138 · ihi.org

How to Cite This Paper: Rutherlord PA, Provost LP, Kotagal UR, Lather K, Anderson A. Achieving Hospital-wide Patient Flow. IHI White Paper. Cambridge, Massachusetts: Institute for Healthcare Improvement; 2017. (Available at www.ihi.org)

FSystem Level Improvement Requires Wills, Ideas and Execution

Will

Improving system-wide patient flow requires leaders to prepare the organisation for change, generate discomfort with the status quo; disrupt special interests; make the vision of the future attractive; and create and sustain the commitment for improvement in all areas of the organisation.

Ideas

Improvement

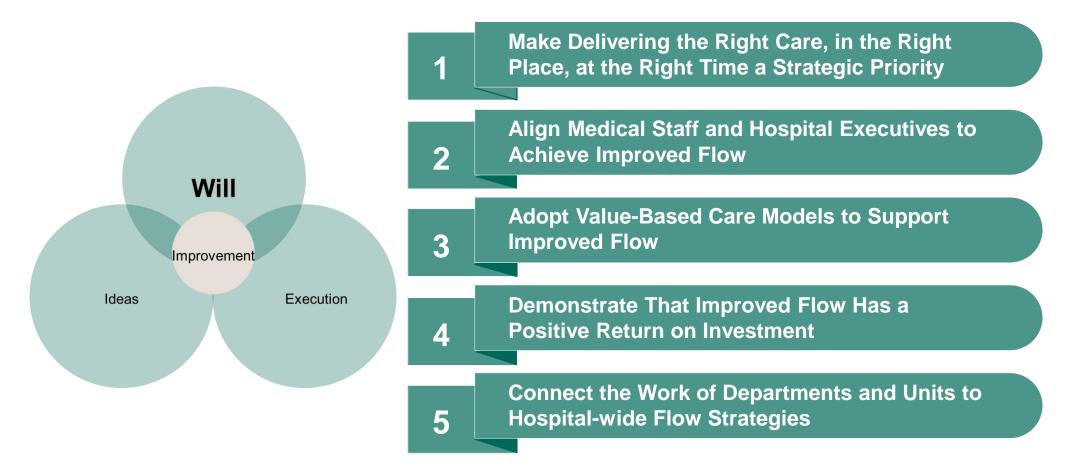
System improvement does not occur using the same thinking that led to the present state. New ideas to change the system are needed from other healthcare organisations and industries that optimise flow.

Execution

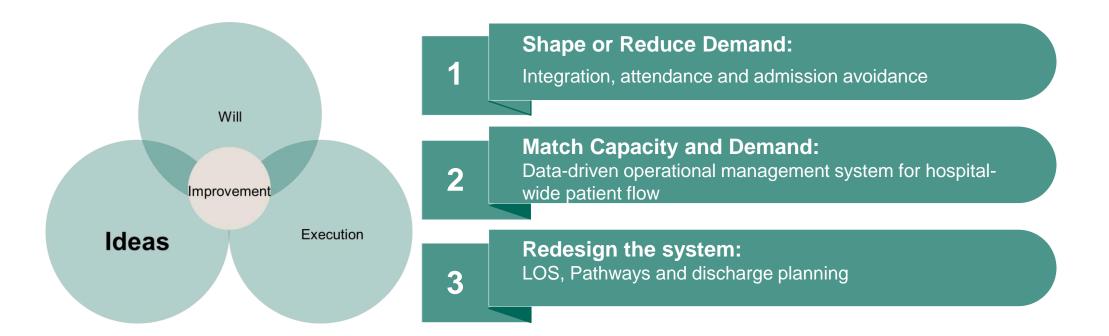
The organisation has a solid approach for testing, adapting and implementing new ideas to improve flow throughout the hospital and community. This requires the capability and capacity for improvement.

H Building Will for Improving Hospital-wide Patient Flow

Taking a system-level approach to improving hospital flow requires building will throughout the organisation, from the highest levels of leadership to point-of-care managers and staff. Five strategies for building will are:

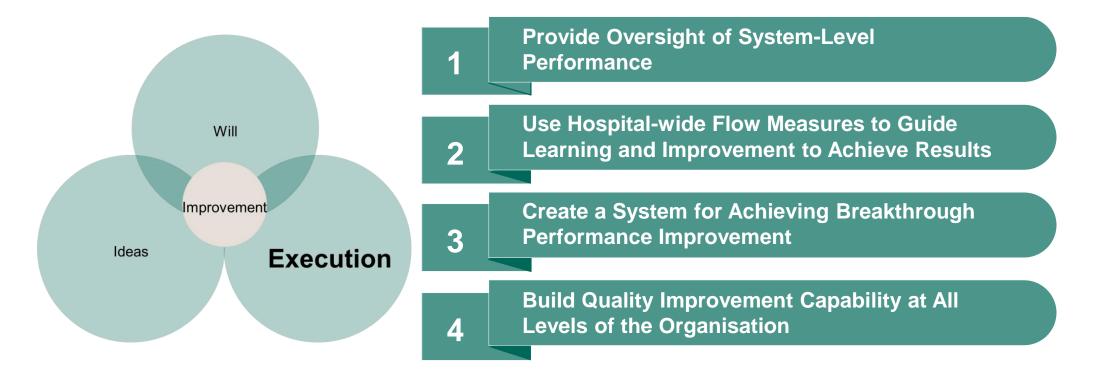


High-Leverage Change Ideas for Improving Hospital-wide Patient Flow



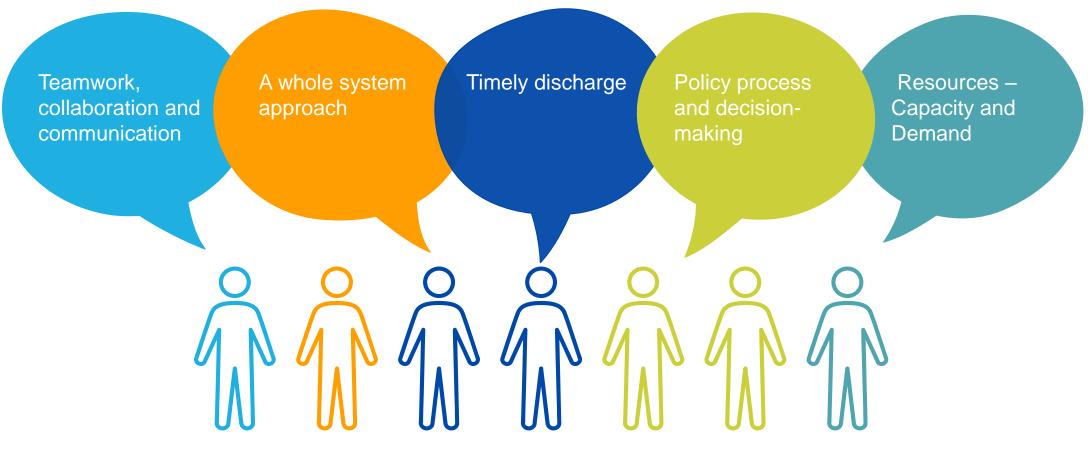
HE Execution Strategies to Achieve Hospital wide Patient Flow

The key to execution is to plan and deploy a portfolio of improvement projects to achieve strategic goals, since no single initiative or set of unaligned projects will likely be enough to produce system level results



How to improve patient flow

Effective patient flow ensures all patients have the right access, to the right care, at the right time and in the right place with minimal waiting times



HSE Patient Flow Academy

The HSE Patient Flow Academy will improve patient flow by supporting health and social care staff to identify, define and improve processes, pathways and systems for the safe, timely and effective delivery of care driven by a culture of quality improvement. This will be achieved through the development and delivery of supports and resources targeting the following workstreams:



Leadership development

To develop competent and capable leaders who are able to drive, achieve and sustain improvements.

Staff engagement and training

To develop staff awareness, knowledge, skills and attitudes regarding patient flow as part of a whole system approach.

Integrated working and knowledge transfer

To develop communities of practice which facilitates integrated working, sharing of best practice and knowledge transfer.

Innovation and transformation supports

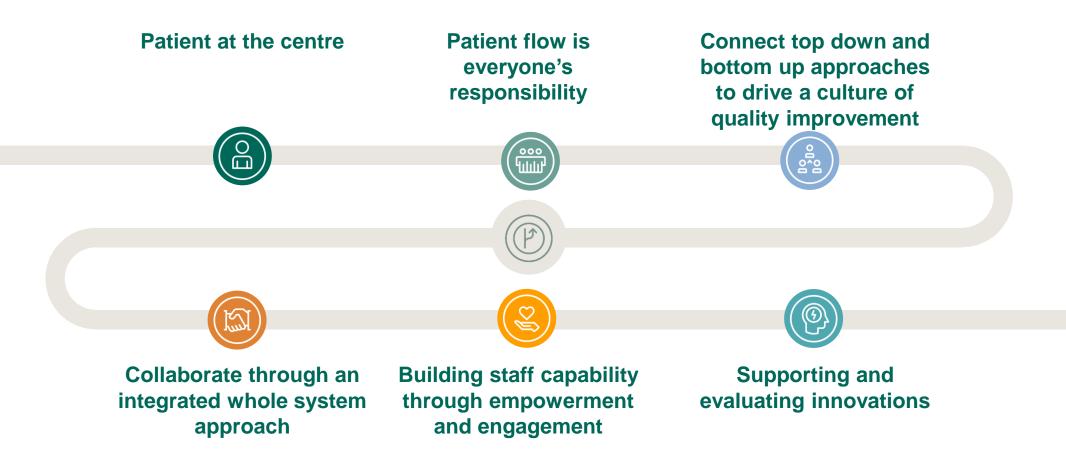
To provide a suite of best practice resources and toolkits alongside practical supports to enable transformation.

Monitoring and evaluation

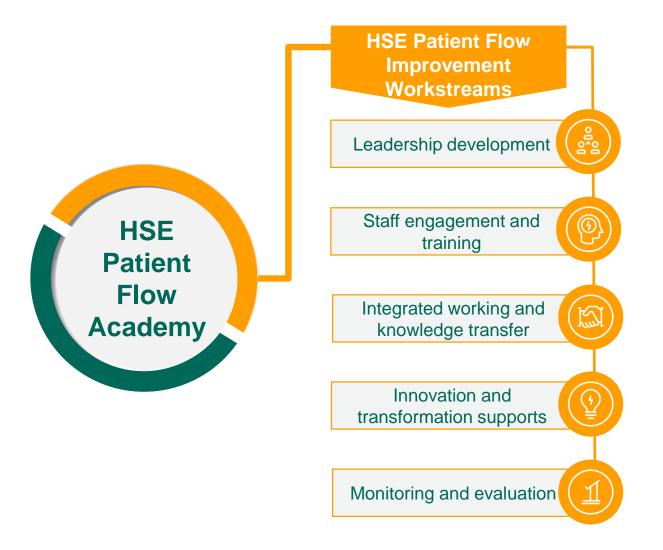
To monitor and evaluate the impact of the Patient Flow Academy including national and local patient flow improvement initiatives to support evidence based practice.



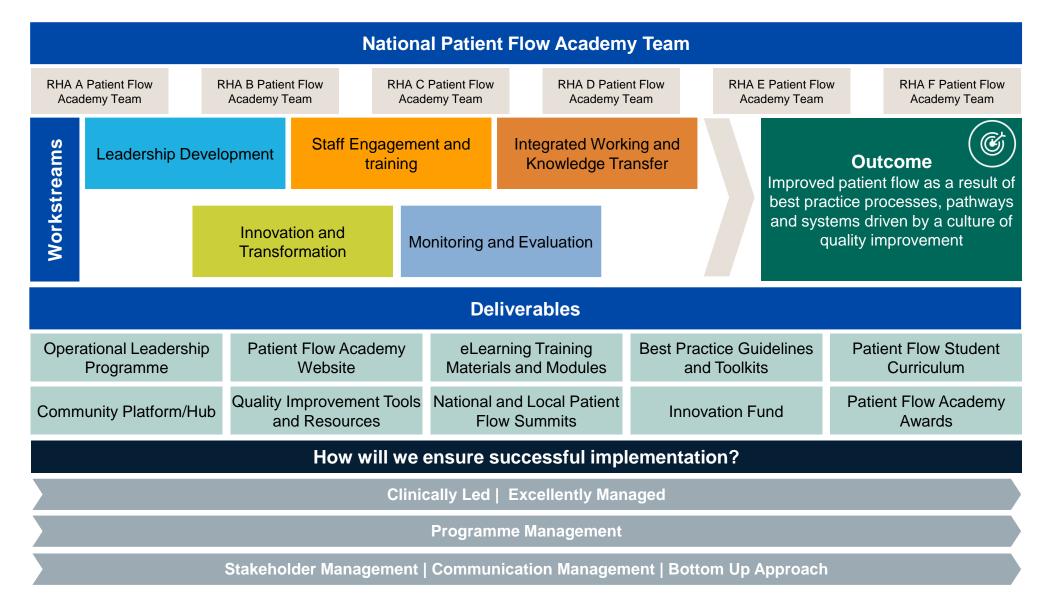
The patient flow academy will be designed based on the six guiding principles below:



HSE Patient Flow Academy



H Overview of Approach



H Patient Flow Academy Structure

	Patient Flow Academy			
National	Training and Educational	Online Improvement	Best Practice Guidelines and	
	Materials	Community Platform	Toolkits	

H Patient Flow Academy Structure: National Focus

The HSE National Patient Flow Academy Team will develop materials, guidelines and tools to support education and knowledge transfer to support tailored local improvement actions:

Training and educational materials: The National Patient Flow Academy team will develop an e-learning programme based on topics centred around the Five Fundamentals of Unscheduled Care. This training can be hosted on HSEIand and targeted at different levels.

Community Platform/Hub: HSEland will also host an online patient flow improvement community platform/hub. This platform will aim to build patient flow capability and knowledge transfer across the RHAs by providing the opportunity for colleagues to learn from each other's improvement efforts and to collaborate on improvement areas.

()2

Best Practice and Guidelines and Tools: The National Patient Flow Academy Team will develop best practice patient flow guidelines and tools to support application of practice guidelines and improvement efforts based on the 'Five Fundamentals of Unscheduled Care'. Guidelines will consider non condition based flow guidelines and condition specific flow guidelines.



H Benefits of Patient Flow Academy

The HSE Patient Flow Academy will help improve patient care, increase efficiency, enhance communications, optimise resource allocation, and increase patient satisfaction.

Improved patient care

The academy will provide comprehensive training programmes and resources to enable healthcare professionals to improve their patient flow management skills, which can result in better patient outcomes.

Increased efficiency

Through its innovative training programmes, the academy will help the HSE streamline their patient flow processes, making them more efficient and effective.

Enhanced

The HSE Patient Flow Academy will help healthcare professionals improve communications between departments and across services, leading to better collaboration and teamwork.

Better resource allocation

By optimising patient flow processes, the HSE will improve resource allocation, supporting cost savings and better use of available resources.

Increased Patient Satisfaction

The HSE Patient Flow Academy's training programmes will help the HSE enhance the patient experience, leading to increased patient and staff satisfaction.

H Initial six month programme of work



Establishing National Patient Flow Academy Team



Initiate Patient Flow Academy PMO



Development of Patient Flow Academy website



Development of best practice guidelines

- Integrated operations
- Demand and capacity analysis
- Ward processes
- Integrated discharge processes



Development of educational materials and eLearning programme modules



Development of an online community platform



Delivery of webinars based on initial best practice guidelines



National patient flow summit

H Patient Flow Academy: Guidelines and Toolkits

Integrated operational hubs	Integrated operational grip	Demand and capacity analysis	Effective ward processes SAFER Huddles Red2Green		HE	
Escalation principles	Patient flow data and dashboards	Discharge to Assess (D2A) and Trusted Assessment	Ambulance handovers		HSE Patient Flow Academy: Best Practice Guidelines and Toolkits	Application locally to support improvement efforts
Clinical Decision Units	Emergency Departments	Acute Medical Unit and other assessment services	Ambulatory emergency care			
Frailty	Optimal integrated discharge processes	Primary Care/ECC streaming	Mental Health			

ŀĿ



The most dangerous phrase in the language is "we've always done it this way."



We have tremendous assets











ŀĿ

















You don't get excellence from pieces, you get excellence from connections

