

Patient Flow Academy

Webinar 1, 18th April 2024



Welcome and Opening Remarks from the Chair

• Damien McCallion, HSE Chief Operations Officer

An Introduction to the Patient Flow Academy

• Dr. Mike O' Connor, HSE National Clinical Advisor and Group Lead, Acute Hospitals

Panel Question and Answer

- Mari O' Donovan, HSE General Manager ECC Programme, CHO 4
- Denise Roxburgh, Unscheduled Care Lead for the IEHG (HSE Dublin & Southeast)
- Dr. Rosa McNamara, Consultant in Emergency Medicine, St. Vincent's University Hospital
- Dr. Mike O' Connor, NCAGL, Acute Hospitals
- Damien McCallion, HSE COO

Close and Post Webinar Feedback



An Introduction to the Patient Flow Academy

Dr. Mike O' Connor, National Clinical Advisor and Group Lead, Acute Hospitals





Healthcare demand and delivery in Ireland



An overview of patient flow



Why does patient flow matter?

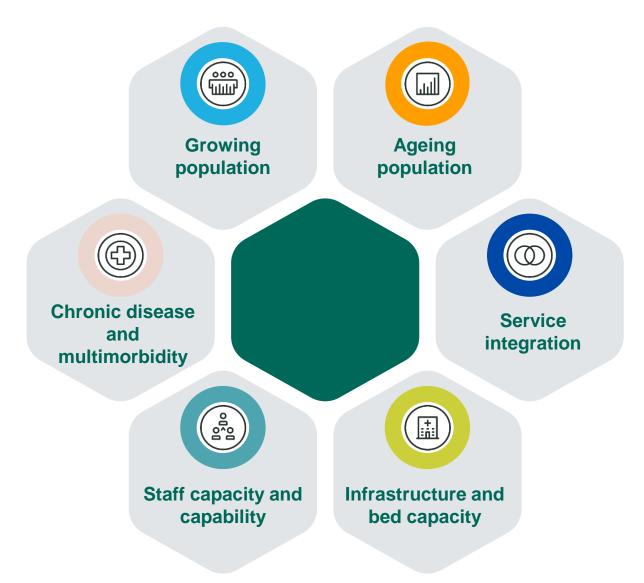


The HSE Patient Flow Academy

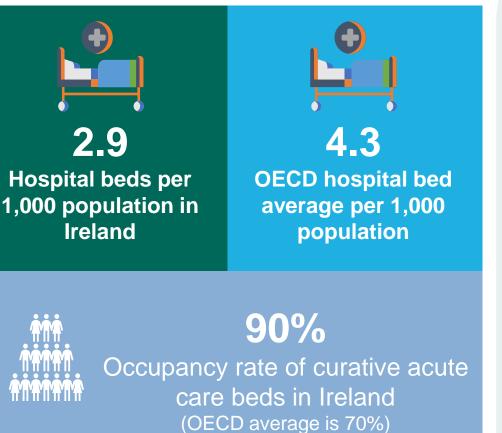


Healthcare demand and delivery in Ireland

Healthcare demand and delivery in Ireland

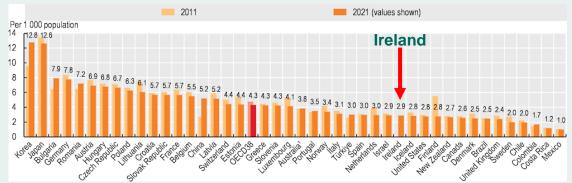


H Bed capacity in Ireland

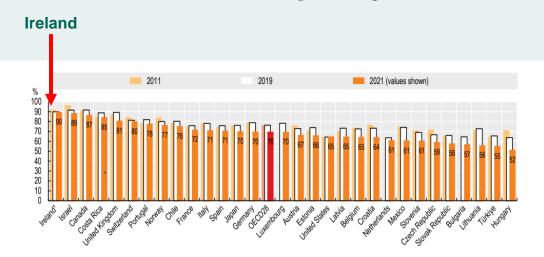


OECD Health Statistics 2023

Hospital Beds



Bed Occupancy

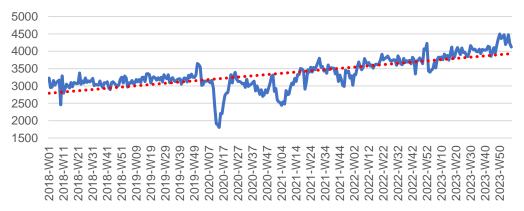




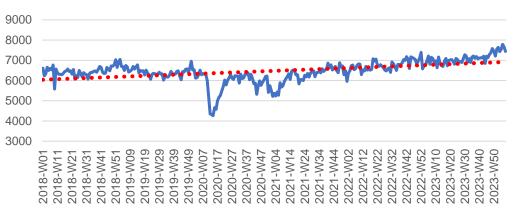
National Weekly ED attendances - ALL ages 2018 to current



National Weekly ED attendances - 75 years+ 2018 to Current



National Weekly ED admissions - ALL ages 2018 to current





National Weekly ED admissions - 75 years+ 2018 to Current

H UEC activity and performance YTD (week ending April 7th)

Activity

+11.7%

in attendances in 2024 vs the same period last year

+10.4%

in admissions in 2024 vs the same period last year

KPI Performance

-11.5%

in 8am Trolleys in 2024 vs the same period last year -34.0%

in DTOC patients in 2024 vs the same period last year

-12.9%

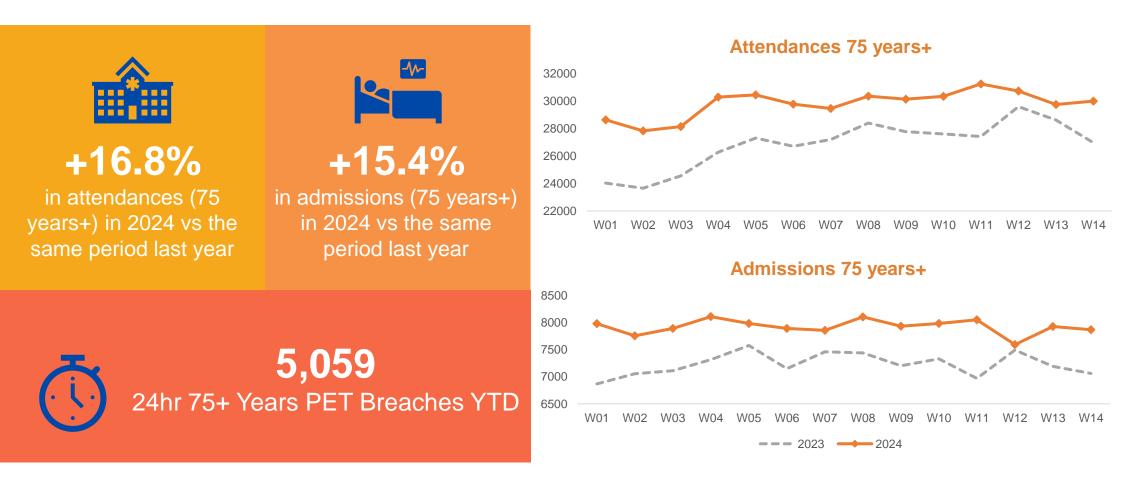
in 24hr PET Breaches in 2024 vs the same period last year

-18.8%

in >75yrs 24hr PET Breaches in 2024 vs the same period last year

Despite increasing activity demands, performance across a range of metrics has improved.

H UEC activity and performance (75 years+) YTD (week ending April 7th)



$\int \tilde{z}$ The challenging delivery context in Ireland

We know that patients are experiencing delays in accessing services and long waits, despite the continuing efforts of our hardworking staff.

Irish Examiner

Emergency departments under 'significant pressure' as HSE issues plea



Emergency departments under 'significant pressure' as HSE issues plea ... The HSE has said that a number of emergency departments are under "...

23 Jan 2024

🔻 The Irish Independent

More than 600 patients fit for discharge cannot leave hospitals as scores of others wait for a bed

Lan

Hundreds of patients who are fit for discharge cannot leave hospital as scores of others on trollevs in emergency departments endure...

20 Dec 2022

S The Irish Sun

Urgent HSE warning as over 491k patients on waiting lists with pressures causing knock-on effects...



Urgent HSE warning as over 491k patients on waiting lists with pressures causing knock-on effects.

14 Aug 2023

RTE RTE.ie

Ambulance response times increase annually since 2019

New figures obtained from the National Ambulance Service show that the average response time by ambulances for Category 1 life-threatening...

21 Apr 2023





Despite the challenging service delivery context and increasing service demands, staff and services continue to innovate.

J The Journal

HIQA praises EDs in Beaumont Hospital and University Hospital Waterford after recent inspections

THE HEALTH INFORMATION and Quality Authority (HIQA) has praised the "good management" of Emergency Departments that were exhibited at...

5 Sept 2023

🔻 Irish Independent

Number of patients on hospital waiting lists for longer than 12 weeks drops by 57000, says Health Minister Stephen ...



A cut in delays faced by patients on public hospital waiting lists last year means 57000 fewer are in the queue longer than 10 to 12 weeks,...

8 Jan 2024

RTE RTE.ie

New service cuts eye procedure waiting lists

nform:

nd Qua

The HSE has said a new system for treating patients with eye conditions has cut waiting lists, reduced visits to hospital and allowed care...

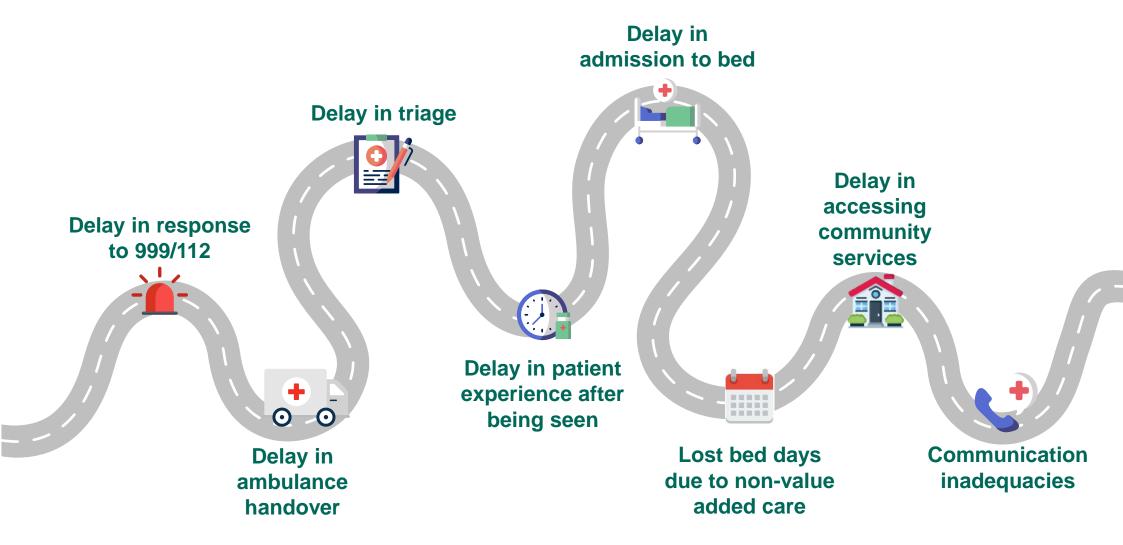
8 Aug 2023





How can we share what works?







An overview of patient flow

H Patient flow - Why it matters

"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)



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



Effective communication

Efficient resource management

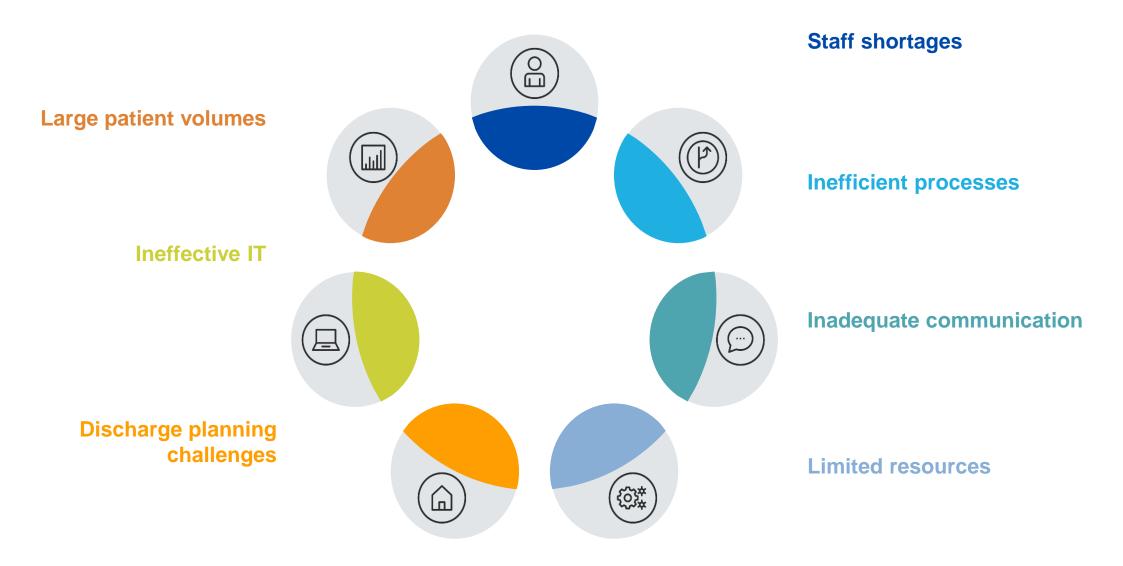
Streamlined processes

Continuous monitoring and improvement

Integrated collaborative effort









The importance of patient flow

Patient flow - Why it matters

Cross-sectional retrospective observational study of every ED in England from April 2016 - March 2018

There is a **dose-response effect** to **delays** in hospital admission and 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.



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 37

Handling editor Simon Carley ABSTRACT

patients.

Objective To assess and quantify the increased risk

National Statistics data in England.

from EDs, using Hospital Episode Statistics and Office of

Methods A cross-sectional retrospective observational

type 1 (major) ED in England between April 2016 and

March 2018. The primary outcome was death from all

deprivation, comorbidities, hour of day, month, previous

ED attendances/emergency admissions and crowding in

Results Between April 2016 and March 2018, 26 738

514 people attended an ED, with 7 472 480 patients

admitted relating to 5 249 891 individual patients,

who constituted the study's dataset. A total of 433

8.74%). A statistically significant linear increase in

ceased) (p<0.001). The greatest change in the 30-

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 30-

day standardised mortality ratio was an 8% increase

occurring in the patient cohort that waited in the ED for

day 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

962 deaths occurred within 30 days. The overall crude

30-day mortality rate was 8.71% (95% CI 8.69% to

the ED up to 12 hours (when accurate data collection

mortality was found from 5 hours after time of arrival at

the department at the time of the attendance.

¹Department of Population Background Delays to timely admission from Health, New York University emergency departments (EDs) are known to harm School of Medicine, New York, New York, USA ²Methods Analytics, London, UK of death resulting from delays to inpatient admission ²The "Getting It Right First Time" programme, NHS mprovement London UK Emergency Department, Royal Bolton Hospital, Bolton, UK study was carried out of patients admitted from every Index Unit, University of Easter Business School, Exeter, UK ⁶Black Box Data Science Ltd. Biggleswade, UK causes within 30 days of admission. Observed mortality ⁷Emergency Department was compared with expected mortality, as calculated Musgrove Park Hospital Taunton, UK using a logistic regression model to adjust for sex, age,

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Clifford Mann deceased Received 30 April 2021 Accepted 15 November 2021 Published Online First 18 January 2022



INTRODUCTION

is one extra death.



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and permissions. Published

Swift S. et al. Emerg Med J

2022:39:168-173

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In England, by the end of the 20th century, demographic changes and reduced numbers of acute hospital beds had resulted in crowded emergency permitted under CC BY-NC. No departments (EDs) and long delays for patients. In consequence, the NHS 4-hour operational standard To cite: Jones S. Moulton C. such as Canada and Australia, introduced similar 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/

Emerg Med J: first publi

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2021-211572 on 18

2022

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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

ey messages

→ 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 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 occupancy was correlated with longer ED waiting times,

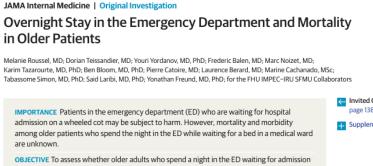
Patient flow - Why it matters

Prospective cohort study to assess if **older** adults (≥ 75 years) who spend a night in the ED waiting for admission to a hospital ward are at increased risk of in-hospital mortality

Two groups compared: those who stayed in the ED from midnight until 8:00 am (ED group) and those who were admitted to a ward before midnight (ward group).

Patients who spent the night in the ED had a higher in-hospital mortality rate of 15.7% vs 11.1%.

Patients who spent the night in the ED had a higher median length of stay of 9 versus 8 days.



Invited Commentary page 1385 Supplemental conten

OBJECTIVE To assess whether older adults who spend a night in the ED waiting for admission to a hospital ward are at increased risk of in-hospital mortality.

Research

DESIGN, SETTINGS, AND PARTICIPANTS This was a prospective cohort study of older patients (≥75 years) who visited the ED and were admitted to the hospital on December 12 to 14, 2022, at 97 EDs across France. Two groups were defined and compared: those who stayed in the ED from midnight until 8:00 AM (ED group) and those who were admitted to a ward before midnight (ward group).

MAIN OUTCOMES AND MEASURES The primary end point was in-hospital mortality, truncated at 30 days. Secondary outcomes included in-hospital adverse events (ie, falls, infection, bleeding, myocardial infarction, stroke, thrombosis, bedsores, and dysnatremia) and hospital length of stay. A generalized linear-regression mixed model was used to compare end points between groups.

RESULTS The total sample comprised 1598 patients (median [IQR] age, 86 [80-90] years; 880 [55%] female and 718 [45%] male), with 707 (44%) in the ED group and 891 (56%) in the ward group. Patients who spent the night in the ED had a higher in-hospital mortality rate of 15.7% vs 11.1% (adjusted risk ratio [aRR], 1.39; 95% CI, 1.07-1.81). They also had a higher risk of adverse events compared with the ward group (aRR, 1.24; 95% CI, 1.04-1.49) and increased median length of stay (9 vs 8 days; rate ratio, 1.20; 95% CI, 1.11-1.31). In a prespecified subgroup analysis of patients who required assistance with the activities of daily living, spending the night in the ED was associated with a higher in-hospital mortality rate (aRR, 1.81; 95% CI, 1.25-2.61).



We know that extended lengths of stay for patients can be associated with direct and indirect inpatient complications



Reduced mobility



Cognitive decline



Falls



Functional decline



Depression



Infections



Hospital readmission

Morbidity and Mortality

H Patient flow - Why it matters

- A high proportion of the patients that we care for are **OLDER PEOPLE**.
- The "Last 1,000 Days" campaign in the NHS, led by Prof. Brian Dolan, recognises that **TIME** is the most important currency in healthcare.
- Patient time should be considered the KEY METRIC OF PERFORMANCE AND QUALITY and is best measured from the perspective of the person.

How many of your last 1,000 days would you chose to spend in hospital?



Where would you want to spend your time?

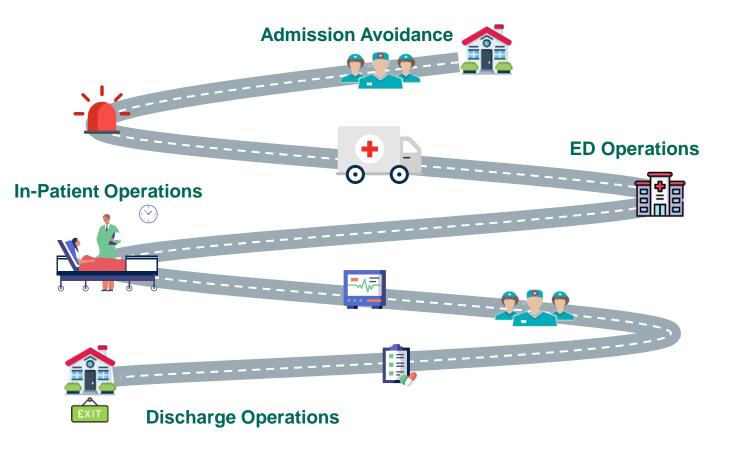


How can we maximise time, minimise waste time and prioritise patients' time?



Heat The need for a whole system approach

Effective patient flow is essential to ensure all patients have the right access, to the **right care**, at the **right time** and in the **right place** with minimal waiting times.



The interdependencies along the patient journey requires a **whole system approach** to improving patient flow.



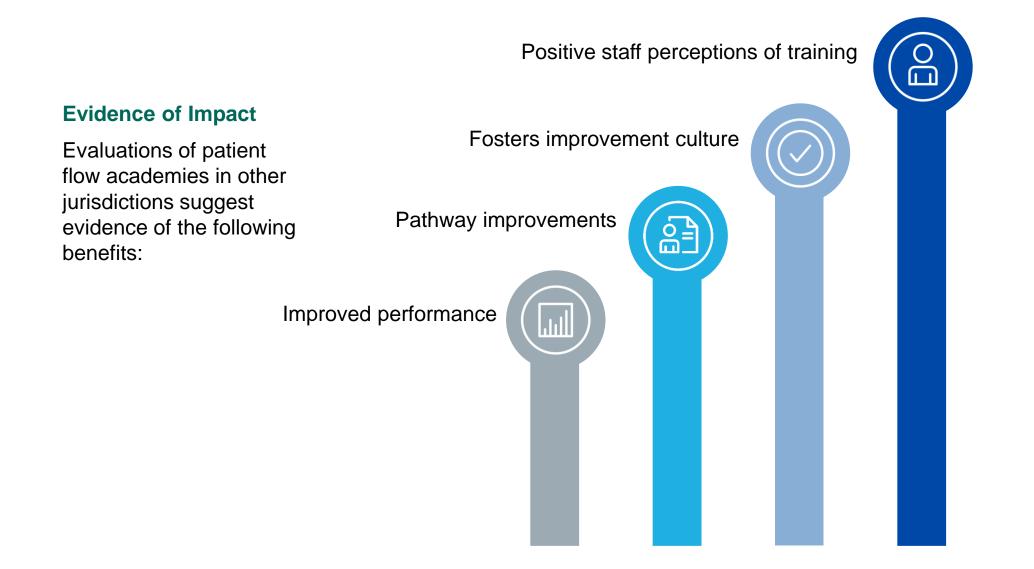
Improving patient flow

H International Experience of Patient Flow Academies

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



H International Experience of Patient Flow Academies



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WHITE PAPER

Achieving Hospital-wide Patient Flow The Right Care, in the Right Place, at the Right Time

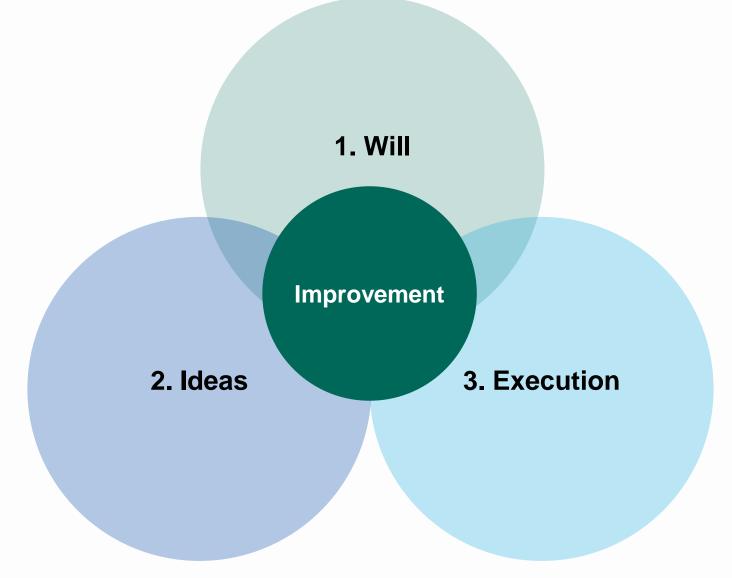


AN IHI RESOURCE

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

How to Cite This Paper: Rutherford PA, Provost LP, Kotagal UR, Luther 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 will, ideas and execution



Adapted from: Rutherford PA, Anderson A, Kotagal UR, Luther K, Provost LP, Ryckman FC, Taylor J. Achieving Hospital-wide Patient Flow (Second Edition). IHI White Paper. Boston, Massachusetts: Institute for Healthcare Improvement; 2020. (Available at www.ihi.org)



The HSE Patient Flow Academy

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 continuous 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

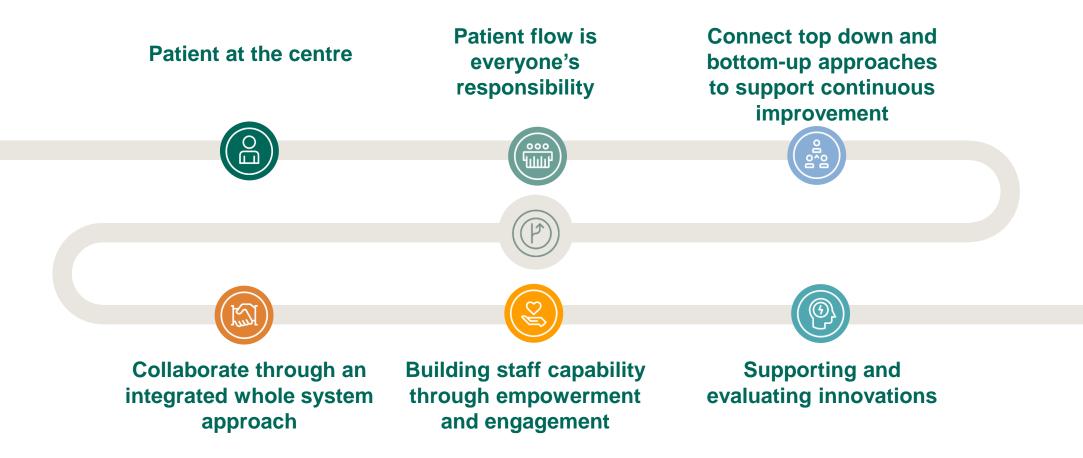
To provide a suite of best practice resources and toolkits alongside practical supports to enable transformation.

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.

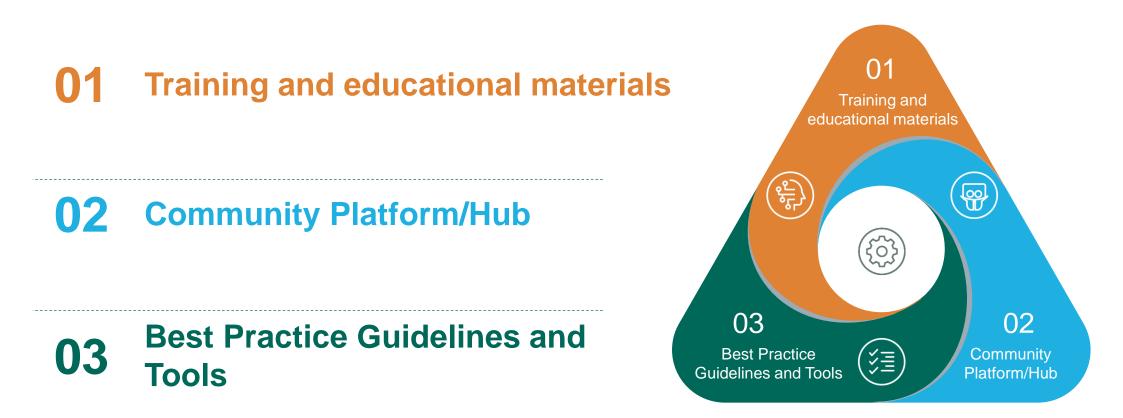


The HSE Patient Flow Academy is designed based on the six guiding principles below:



H Patient Flow Academy Structure: National Focus

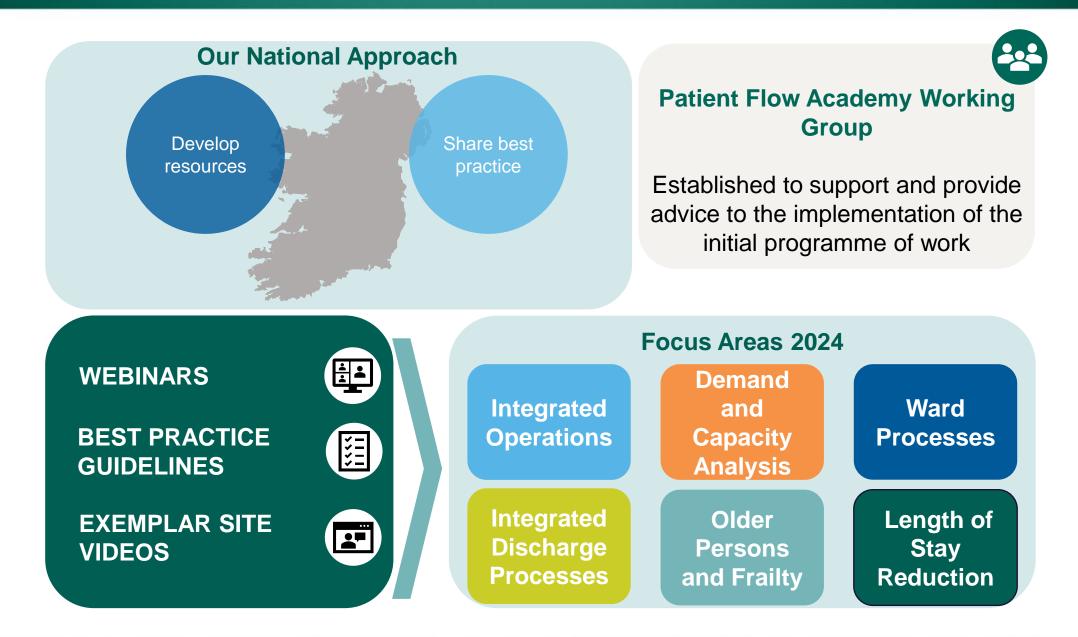
The HSE Patient Flow Academy will develop materials, guidelines and tools to support education and knowledge transfer for tailored local improvement actions:



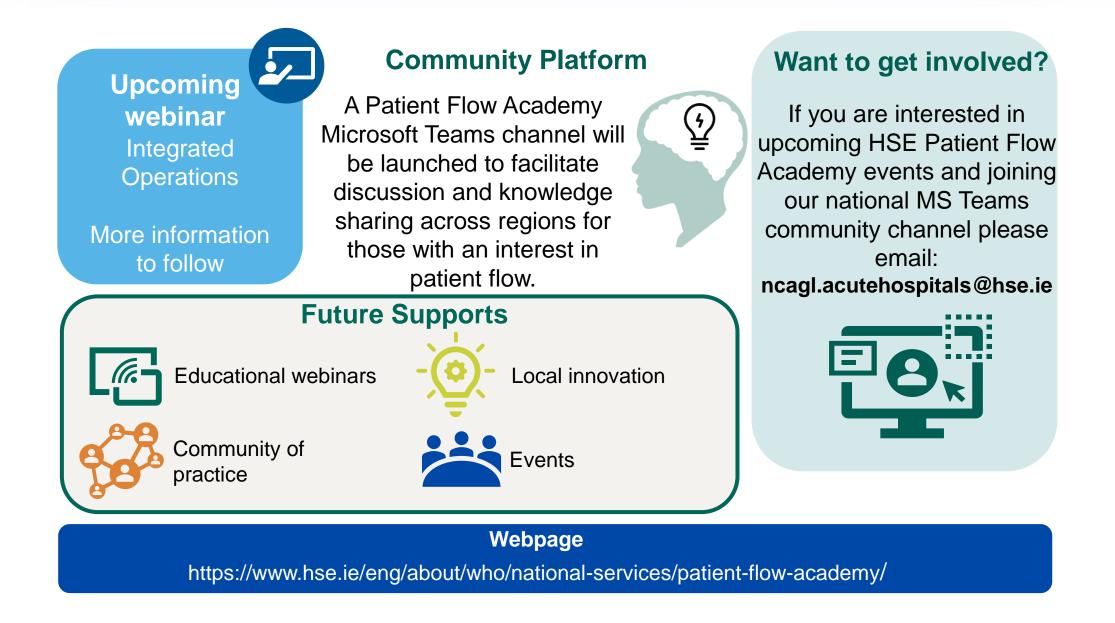
H Patient Flow Academy: Guidelines and Toolkits

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			

H Initial six-month programme of work



H Initial six-month programme of work













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





For more information:

https://www.hse.ie/eng/about/who/national-services/patient-flow-academy/

End