Evolution of the VFAC RELIABLE DATA FOR DECISION MAKING



Ian McGovernClinical specialist PhysiotherapistOur Lady Of Lourdes Drogheda







The patient journey









Christopher Fenelon and Ian McGovern

Traditional Fracture Clinic

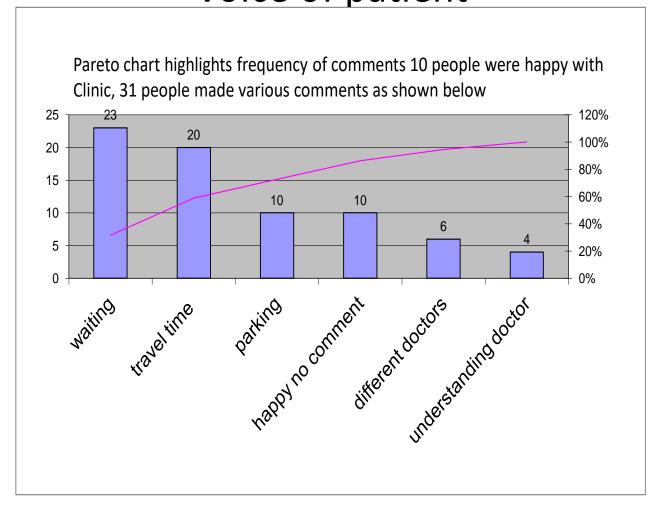




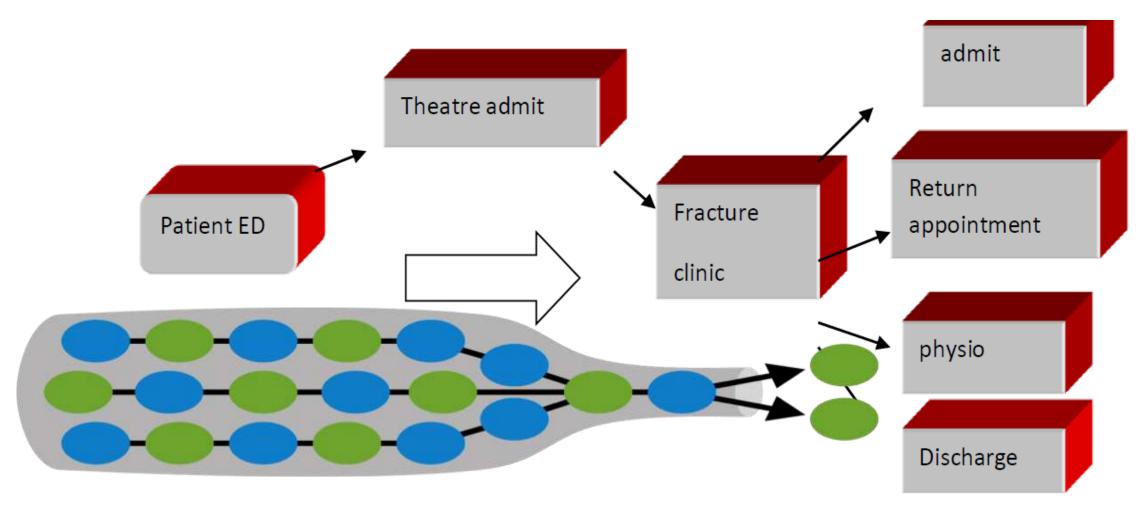
Continually ↑ capacity to meet ↑demand ≠ financially sustainable

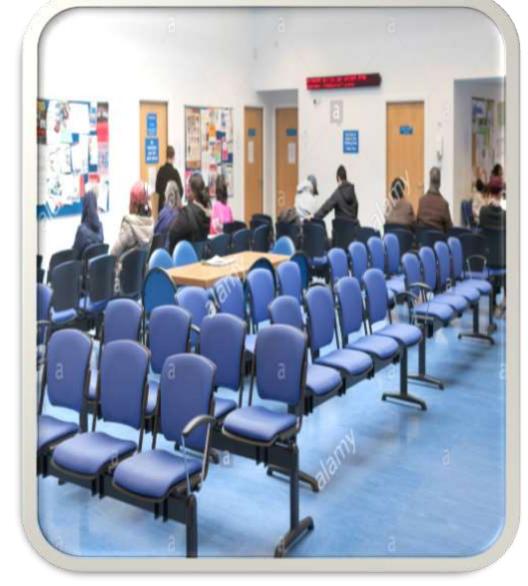


Voice of patient



Traditional process bottleneck





80 patients reduced to 30 per clinic



60% managed effectively at home

vFAC Sites

Letterkenny

Sligo

6 – a/w several LIUs 12 – single ED

Castlebar

15 sites returning data

Galway

UHG Ballinasloe Roscommon Ennis

Limerick

UHL St Johns Ennis Nenagh



Drogheda

OLOLD ED Dundalk IU Cavan ED Monaghan ED Navan injury unit

Dublin

Crumlin

T.Street

Connolly

Beaumont

Mater

Vincent's Loughlinstown

St James

Tallaght

Naas

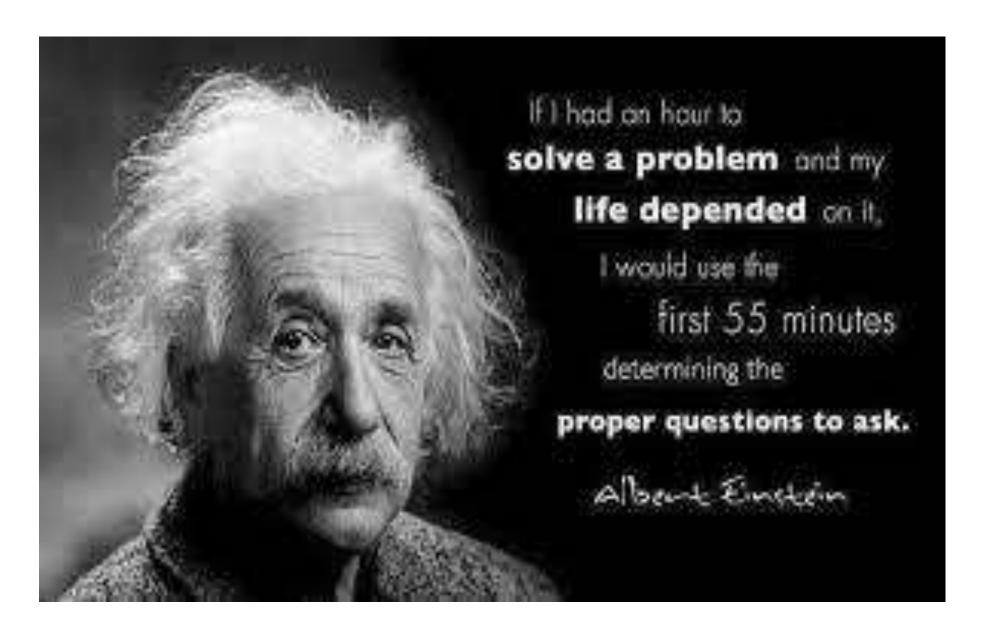
Kerry

Cork

CUH ED Mallow Bantry Mercy MIUG Waterford

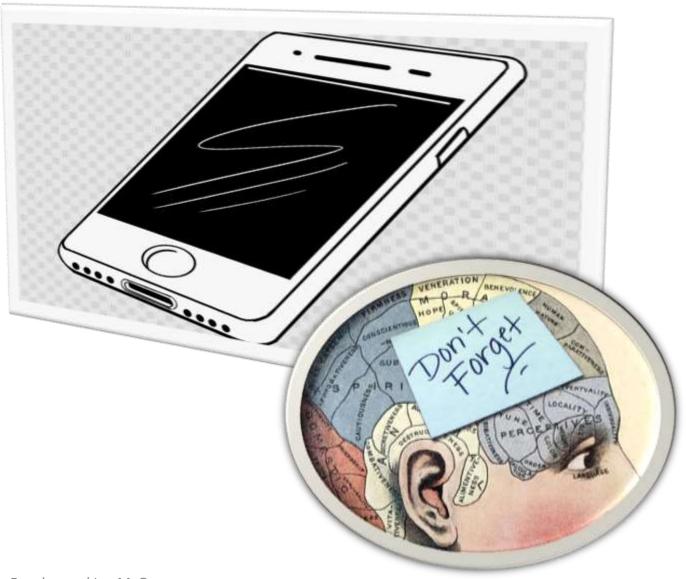
UHW Wexford Kilkenny Clonmel Tullamore

Tullamore ED
Portlaoise ED
Mullingar ED
Ballinderry MIU Mullingar
Longford GP Treatment center



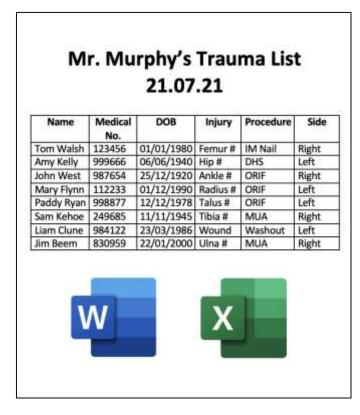
Information formats



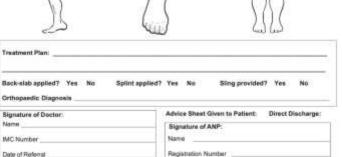


Problem

- Paper based
- Manual entry
- Poor communication
- No real time information
- No one system links all parts of orthopaedic care



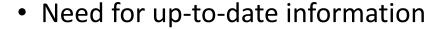
Name: Patient ID Number: 0.0.8.	fridimentacht zu Sechtise Münte fleakh Rervior Rvectative Tullamore Trauma Assessment Clinic	
Address: (Affix Patient Identification Label)	Lower Limb Referral	
"Please fill out all areas on form"	Date of Assessment:	
Contact Details: Petient's Mobile Number		
Next-of-Kin Name and Phone Number Patient's Email Address		
History/Mechanism of Injury		
Date of Injury		
Range of Movement (Degrees)		
Relevant Medical History		
is the skin intact? Yes No Ski		
Side? Left 🗆 Right 🗀	is there any neurovascular deficit? Yes 🗌 No 🗍	
Patient weightbearing? Yes 🗆 No 🗆		
Area of Tendemess - mark on diagra		
reatment Plan:	3	
lack-slab applied? Yes No Split Orthopaedic Diagnosis	nt applied? Yes No Sling provided? Yes No	
Signature of Doctor:	Advice Sheet Given to Patient: Direct Discharge:	
10000	AND THE PROPERTY AND ADDRESS OF THE PARTY.	



Digital Documentation & Patient Care



- Digital documentation improves communication & quality
 - Ryan 2011, Govier 2012, Delardes 2021
- Surgery cancellation (Viftrup 2021)
 - ↑ patient anxiety
 - ↓ patient satisfaction



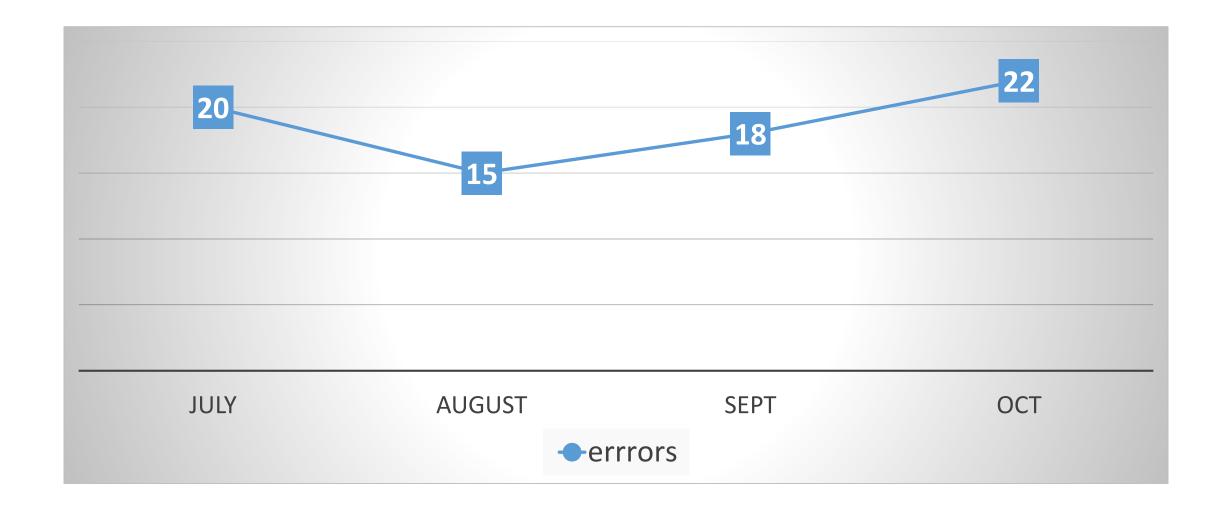




NCHD Workload

Week	TAC CASES	TIME LOG	WTE
31/05/21 -	243	81 HRS	2
07/06/21			

Communication Errors



ORIF of fracture clinics with a Digital Platform for Orthopaedic Patient Management





Solution









DIGITAL PLATFORM INTEROPERABLE
WITH THE
HOSPITAL
ADMINISTRATION
SYSTEM

STANDARDISED SYSTEM



IMPROVE
COMMUNICATION
& PATIENT CARE



REAL TIME
INFORMATION ON
PROGRESS &
ACTIVITY



SAFE & SECURE















Timeline



1

January 2021

Stakeholder Engagement 2

October – Dec 2021

Vendor Procurement & Selection 3

March - May 2022

Pilot Pathpoint eTrauma Digital Platform



M OpenMedical

PATHPOINT errauma

- 35 NHS Trusts
- 70+ Hospitals
- 800,000 patient episodes
- Fully interoperable







Interoperable with hospital systems & workflows

No integration costs Full open API policy



Responsive, agile & scalable technology

Unlimited users
Powerful collaboration



Coded data Secure & compliant

Consistent clinical language with information governance



Cloud-based service facilitating regional connectivity

Responsive, agile cloud software

Launch April 2022

- Launch Drogheda and Dundalk 21/04/22
- Launch Tullamore 28/04/22



Diagnosis*

× Fracture of ankle

Search for a clinical term (e.g [injury] of [region] of [bone]) and select the closest code. You can enter multiple values and choose "Right and Left" on the side field when both sides are involved.

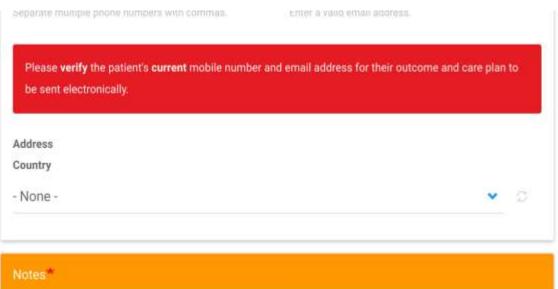
Ankle Fractures

The following ankle fractures should be **reduced** and **immobilised**, then referred to the **on-call**Orthopaedic team:

- · Weber B, with talar shift
- · Weber C (with or without talar shift)
- · Bimalleolar
- · Trimalleolar
- · Isolated displaced medial malleolus
- · Distal / pilon
- · All open fractures

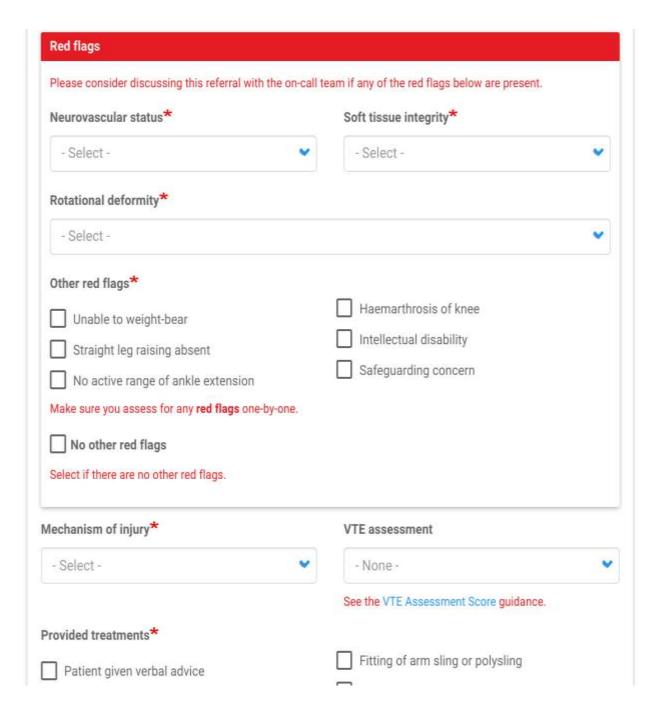
Ankle fractures suitable for VFC:

- · Weber A fibula fracture: Boot, full weight bearing, VFC referral
- · Weber B fibula fracture, no talar shift: Boot, weight bearing as tolerated, VFC referral
- Isolated non-displaced medial malleolus fracture: Exclude associated proximal fibula fracture. Boot.
 Touch weight bearing, VFC referral.
- Paeds (0-12years): Minor ankle fractures (non-displaced fractures): Analgesia, Walking boot / Below



Give a concise summary of the problem and some brief notes of the history and examination findings...

Images



	See the VTE Assessment Score guidance.
Provided treatments*	
Patient given verbal advice	Fitting of arm sling or polysling
Patient given written advice	Application of thumb spica splint
Administration of analgesic	Application of below elbow back slab
Antibiotic therapy	Application of volar slab
Anticoagulant therapy	Application of ulnar gutter slab
Administration of intravenous fluids	Application of below elbow plaster cast
Application of dressing	Application of above elbow plaster cast
Application of bandage	Fitting/adjustment of crutches
Application of tubigrip	Application of long leg splint or cricket pad
Closed reduction of dislocation	Provision of ankle walker (long)
Removal of foreign body	Provision of ankle walker (short)
Irrigation of wound	Provision of heel walker
Closure of skin wound	Application of below knee plaster cast
Application of neighbour strapping	Application of above knee plaster cast
Application of mallet splint	Application of equinus plaster cast
Application of Futura splint	Application of cylinder cast, thigh to ankle
Application of collar and cuff sling	Application of scaphoid plaster cast

Your child has a



Buckle Fracture - Distal Radius

This is a specific type of fracture that occurs in children's bones.

Healing:

This normally takes approximately 3-4 weeks to heal.

It is normal for it to continue to ache a little for a few weeks after this. Younger children normally get better quicker.

Pain and swelling:

Taking pain medication and elevating their wrist will help. This is usually only needed in the first few days.

Using the arm:

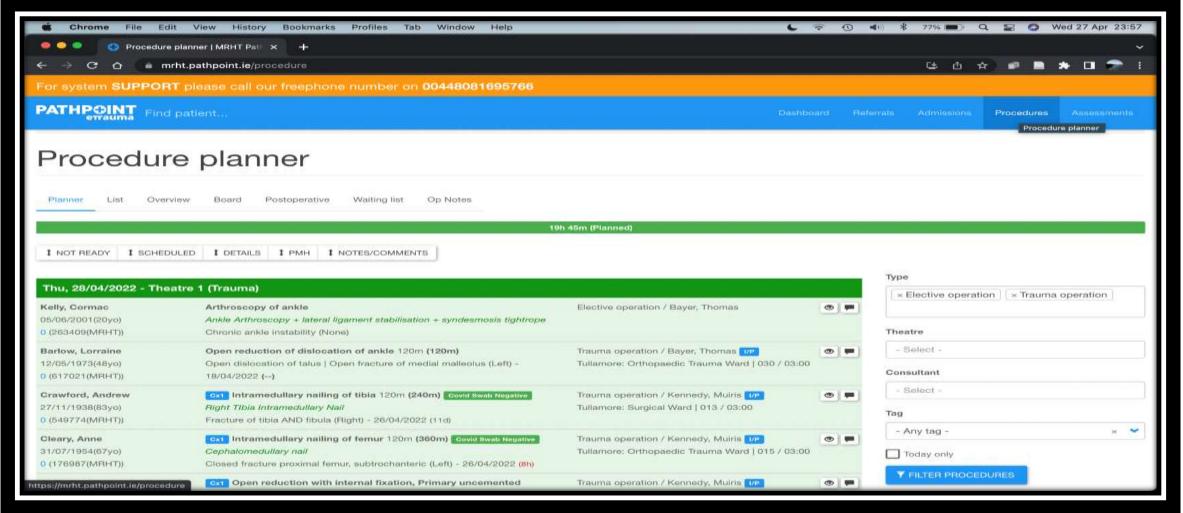
It is ok to use and move the arm for normal tasks such as getting dressed and gentle play, writing etc. avoid any high impact activities where there is a chance of falling on it such as trampolining, scooters, football, bikes etc for 6 weeks.

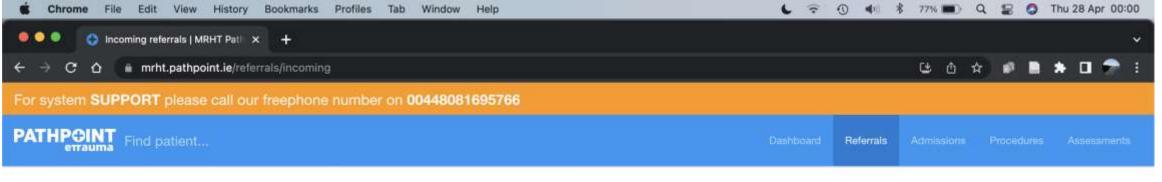
The Splint:

The splint helps their pain by keeping the arm still. They can use the splint for 3-4 weeks as needed for pain relief. it doesn't need to be worn at night and can be taken off to wash hands or to give your child's skin a rest from the splint.



Theatre Planning, Daily Referrals & In-patient Organisation

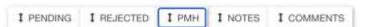


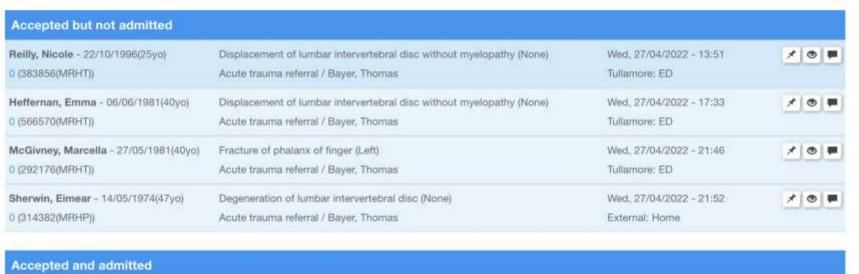


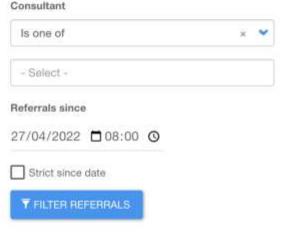
Incoming referrals

Incoming Triage Rejected Draft

Acute trauma referrals since Wed, 27/04/2022 08:00



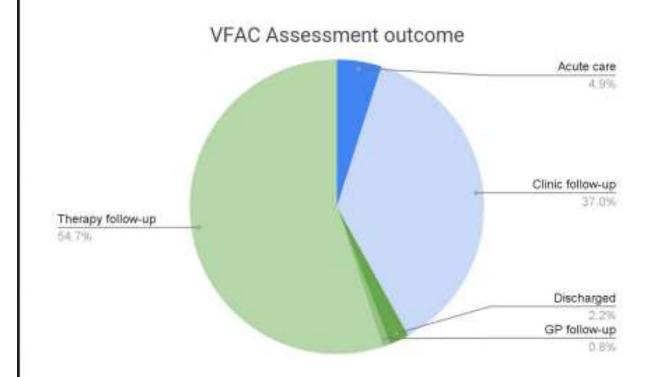




ED

 Sheehan, Margaret - 21/06/1938(83yo)
 Fracture of neck of femur (Right)
 Wed, 27/04/2022 - 15:40
 Image: Fracture of neck of femur (Right)
 Image: Fracture of ne

VFAC - Assessment outcome



55% discharged straight to therapy, physio or plaster room

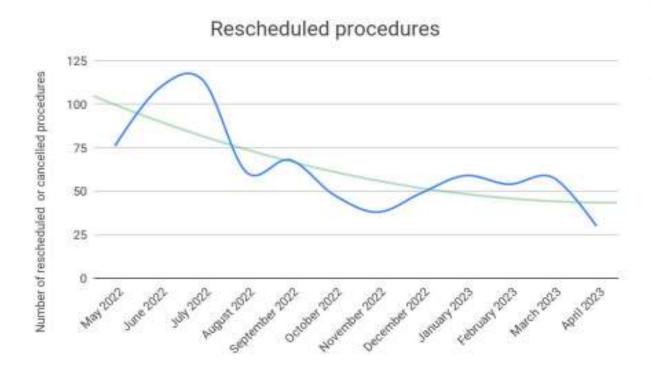
Total discharge rate 58%

Only 37% brought back to F2F clinic

Benefits: Pathway streamlined for patients (fewer unnecessary appointments and trips to hospital)

4991 F2F clinic appointments saved

Rescheduled procedures



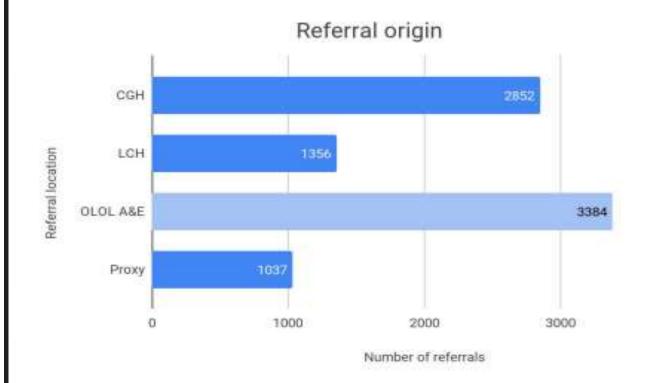
Trend: 74% reduction in number of rescheduled theatre cases from July 2022 to April 2023

Explanation for reduction in rescheduled cases:

Better oversight, coordination, organisation, communication, centralised visibility of outstanding workload and ability to open additional theatres, increased theatre utilisation and operating numbers

Benefits realised: Fewer cancellations, increased patient and staff satisfaction, increased theatre efficiency

VFAC - Referral origin



5425 (61%) referrals from off-site (dark blue)

Of these 3056 (56%) were discharged

Benefits: 3056 patient journeys prevented (from regional referring site to OLOL Hospital),

59 saved trips per week

ORIF of OLOLH Fracture clinic

