# Improving post discharge follow-up of Major Trauma Patients A Multi-disciplinary Quality Improvement approach.

Alison Coutts, Major Trauma Coordinator; Nina Currie Major trauma Coordinator; Dr Angela Gall, Rehabilitation Medicine Consultant.

Aim - by Summer 2022 all patients local to NHS Grampian will have access to streamlined follow-up after their discharge from the Major Trauma Centre (MTC), community hospital and specialist rehab settings.

### Introduction

The aim of a trauma network is to aid severely injured patients back to functioning members of their families and communities<sub>1</sub>. Echoing this the Scottish Trauma Networks (STN) aim is to "save lives and give life back"2. Evidence suggests major trauma centres (MTC's) provide comprehensive care during the inpatient stay, but the system often breaks down and fragments

upon discharge<sub>3</sub>. Understanding the longitudinal patient experience outcomes following major trauma can promote successful recovery\_4 and Recommendations have been made that all MTC's provide ongoing assessment and support for two years post discharge<sub>5</sub>.

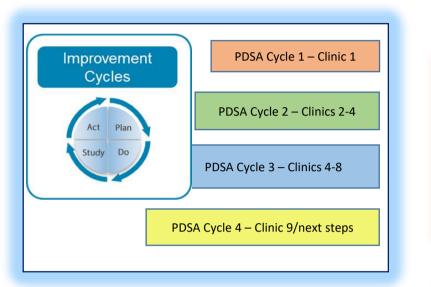
Clinicians have been shown to be motivated to evaluate their patient's recovery, whilst patients felt 'cared for' and 'not forgotten' post-hospital discharge, when post discharge follow up was done by the MTC<sub>6</sub> and telephone follow-up was highlighted to be feasible, accepted by staff and valued by patients and families. The most common timeline for follow-up contact was two weeks post-discharge7. Contact through varying means including telephone, text, telemedicine and face to face may improve uptake of patients attending<sub>3</sub>



https://www.scottishtraumanetwork.com/regions/north-ofscotland/

## **Background**

Major Trauma Coordinators (TC) and the wider rehabilitation team within the North Of Scotland Trauma Network recognised that post discharge follow-up for patients required improvement in order to ensure patients needs are met following discharge and to improve staff experience. NHS Grampian did not have a formal plan for follow-up of patients discharged from their MTC, community hospitals or orthopaedic rehab (Neuro Rehab already had an established follow-up after discharge service). Since August 2021 all patients discharged from the MTC have had an attempted phone call made by a TC 2 weeks post discharge. Issues identified from these phone calls include, pain management, post brain injury advice, follow-up appointment queries, community therapy input, equipment queries etc. This quality improvement project aimed to expand on the current service to improve patient and staff experience.



## Test of change 1 (clinic 1)-

The team agreed initially to trial face to face clinics 10-12 patients per 3 hours clinic with a team comprising of approximately 6 staff members including TC's, rehab consultant, physiotherapist, occupational therapist and psychologist. Data was collected on the clinic activity, the actions / unmet needs identified, referrals made and whether the patients needed physical assessment, this allowed assessment of the feasibility for near-me clinic option.

#### Test of change 2 (clinics 2-4) -

Offering of near me and Face to Face Clinics. Same time scale. Benefits found included using less paper than previous clinic, Near me appointments worked well, utilised QR code for patient feedback

MDT Members seen	Unmet needs identified	Advice / supported self Mx	Referrals made	Med changes	Physical exam needed
TC Dr	Ct And surg FU needed Replaced collar	Yes		No	Yes
TC Dr	Nil	Yes		Yes	No
TC Dr Psych	Physio and psychology pt and family	Yes	Physio, psychology	No	Yes
TC PT psych	Psychology	Yes	VR	No	No
TC PT psych	Psychology VR offered	yes		No	No
TC PT				No	No
TC PT			physio	No	No

Not everyone needed a physical

assessment therefore could be reviewed remotely

Near me clinics take

less time. Increasing

frequency of clinics



A Pro forma developed as clinic guide/checklist, near me appointments (or) telephone. 2 staff members allocated to each patients, variety of professions depending on patient need and staff availability. Use of Major Trauma team office for staff – area often busy and noisy.



Good having my

partner

involved - very

helpful to

patient

Test of Change 4

of November 2022.

The next PDSA cycle change is planned

communal office for on going near-me

3 members of staff (TC, Neurospsychologist and Rehab medicine consultant) with a further review of outcomes, patient and staff feedback end

with new location booked away from busy

clinics every 2 weeks for 90-120 mins with

Clinic Guide/Check list (as appropriate)

Any issues you wish to discuss? Planned follow-up Current input Medications

Pain – inc analgesia Cognition Mood Communication Diet/Nutrition Bladder/bowels Mobility/Upper limb function

Could make Near me appointment more use of resources such worked well. as Voc rehab Don't use as leaflets much paper We used less Consider offering paper than patients face to face if they would previous clinic prefer as Give out QR

MTC team very professional and caring. TC's were an important

Most common

signposting from clinics

include Rehab Medicine, psychology, physio and Vocational Rehab (VR).

> Near me worked well as I was able to attend from a different country



Between December 2021 and June 2022 Patients were asked			Not at satisfi		Partial satisfie	·	Satisfied	t		re than sfied	Very Satisfied	
How satisfied were you with of appointr									4 1		334	
							2		5		3 5	
			Poc	ur -	Less th satisfa		Satisf	actory	Good		Very Good	Not Applicable
	Treating you kindness an compassion	d							1		725	
How good was each of the following	Taking into account things that matter to you								1		7 <mark>2</mark> 5	
	Making you feel at ease								1		725	
	Listening to you								1		725	
	Assessing your condition								11		724	
Explaining condition a treatment								1	11		623	1
•	Involving yo decisions ab treatment							11	11		613	1
	Providing or arranging tr for you								1 :	3	7 <mark>2</mark> 3	
How satisfied were you overa with your	Very	satisfied	Satis	sfied	Sa	either itisfied o ssatisfie	r	Dissatisfi	ed	Ve dis	ry satisfied	Don't know
		33		32								

alternative to Near

#### **Conclusions**

- We have demonstrated the need for a follow-up clinic.
- We have demonstrated that most patients do not require face to face assessment.
- Using a pro-forma developed by the Multi disciplinary team allows 1-2 members of the to team assess and coordinate a management plan for patients.
- Near me clinics are effective and valued by the majority of patients. When required we have the opportunity to invite patients for a face to face appointment.

#### Next Steps

- 4th test of change described above .
- We plan to review the process when patients fail to attend and develop a plan to reach vulnerable and seldom-reached groups.
- We plan to test ideas that will improve the amount of feedback questionnaires we get from people having non face to face appointments.

#### References

1 THERDY A.M. Improving Post-Discharge Follow-up Rates in Trauma Patients: A Doctor of Muraing Practice Project. Unpublished Bis discretization, South-eastern Louisiana University, 2015. 2 Sottish trauma network, saving lives, Giving lives back. [online]. Edinburgh: Sottish Trauma Network. Available from https://www.sottishtraumanetwork.com/ 2020 3 LUNIX6STON D.H. et al. The Centre for Trauma Surviorship: Addressing the great unmet need for post trauma centre care. Journal of Trauma & Acute Care Surgery, 2020. 89(5), pp. 940-946 4 Walk 2 et al. Follow-up of severely injured patients can be embedded in routine hospital care: results from a feasibility study. Journal of Trauma Naving, 2012 AS, pp. 19-185 5 ACKSON A et al. Conneting With Trauma Patients Micro Call Follow-Up Caterna & Acute Care Surgery 2020. 89(1), pp. 940-946 6 ATREVIC C et al. Feasibility of a trauma quality-of-life follow-up clinic. Journal of Trauma & Acute Care Surgery 2020. 89(1), pp. 940-945 6 ATREVIC C et al. A Call to Follow-Up. Results Regarding Trauma Clinic Fourma & Acute Care Surgery 2020. 89(1), pp. 292-956