Falls Prevention: Innovation and the Utilization of Technology

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Ontario Shores Centre for Mental Health Sciences

- Comprehensive mental health and addiction services for those with complex, serious and persistent mental illness
- 15 specialized inpatient units and an extensive outpatient and community services



Falls Prevention

• Early identification of patients at a risk of falls and decreasing the incidents of Falls at Ontario Shores

Why is this important?

- Organizational impact:
 - Quality improvement
 - Increased patient safety
 - Organizational cost
 - Decrease trauma
 - Quality of life improvement

The Problem

- Increased number of falls
- No care pathway
- Lack of knowledge for falls process
- Lack of consistent documentation
- Tool utilized not ideal for Mental Health clients

The Falls Prevention Working Group

- Corporate objective and Accreditation Indicator
- Falls Prevention Group created
- Documentation sub-working group
 - New forms identified
 - New process developed
 - Single place for documentation in EHR

		<i></i> ,
WPS.FALLSAX	D.00	
🖃 Falls Risk A	Assessment V1	
😑 Falls Ris	sk Factors	
	Assessment type	 ○ Admission ○ Change of status ○ Transfer ○ Initial assessment ○ Post fall
	Age 65 - 79	O Yes O No
	Age 80 or greater	O Yes O No
	Altered mental status	O Yes O No
		Exhibits one or more of the following conditions: • unable to follow instructions • impaired short term memory • disorientation to time and place • impaired thought process (psychosis), conditions that potentiate confusion or agitation such as delirium or septicemia
	Attempts to get out of	○ Yes ○ No
	bed/chair unsafely	 Impaired mobility or weakness and demonstrates poor judgement or experiences acute delirium (e.g. climbs over side rail, forgets to request or wait for assistance)
	Previous fall in the past	○ Yes ○ No
	month related to patient	Weakness, impaired mobility, confusion, or
	condition	acute illness (not environmental)
	Impaired mobility,	○ Yes ○ No
	balance or gait	 shuffling, small steps, slow pace uses gait aids or holds onto people or furniture unsteady when standing or sitting
	Generalized weakness	 Yes O No Exhibits one or more of the following conditions: verbalizes feeling weak dizzy unable to sit or stand unassisted on side of bed muscle weakness/fatigue impairs ability to perform 2 or more activities of daily living (e.g. toileting, bathing, dressing, transferring, walking and self-feeding)
	Alterations in urinary elimination	 Yes No Frequency, urgency, nocturia, incontinence, IV therapy, diuretics
	Medications in the last 24 hours	 ○ Yes ○ No - psychiatric medication (e.g. antidepressants,
	Immobile	antipsychotics, benzodiazepines, mood stabilizers) - cardiovascular medication (e.g. antihypertensives, diuretics, antiarrhythemics) - narcotic analgesics (opiates) - more than 5 medications ○ Yes ○ No
Total	THINOPHE	
Total	Collected and a	
	Falls risk score	** If total score is greater than or equal to 5 patient is at high risk for falls. ** It is possible to have a negative number
1		which is indicating a LOW falls risk.

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Assessment type	○ Admission/Transfer
Abbebbillene cype	O Change in Status
	O Post Fall
	Contributing factors to fall
Age of patient	○ Under 65 ○ 65-79 ○ 80 and over
5 .	In general, patients over 65 years old are at higher risk for falls with patients over 80 year
	even greater risk.
Altered mental status	
	Patients with any major mental illness, including dementia, will often show a positive scor
	this category.
Previous fall in the past month	
	Patients who have fallen in the past month may be at greater risk of a future fall.
Impaired Mobility	
	If the patient takes shuffling, small steps, has a slow pace, uses gait aids, holds onto per
	or furniture when walking or is unsteady when standing or sitting they receive a positive
	score in this category
Polypharmacy (4 or more medications	
	Four or more medications often increase the risk of falling.
	Due to the increased risk of bleeding post-fall, those patients on anticoagulant therapy she
	have regular monitoring of their International Normalized Ratio (INR). Common medications associated with increased falls risk are:
	Benzodiazepines, Sedatives, Antidepressants, Antpsychotics, Anticholinergics, Antihistamir
	Antihypertensives, Diuretics, Antiarrhythmics, Anticonvulsants, Narcotics/opioids,
	Metoclopramide
Total	
Falls risk score	
	** If the patient is at a medium or high risk of falls, a care plan must be put into place.
Risk Level	

🖃 Assessm		
	macy Falls Assessment	\checkmark
🖃 Ph	armacy	
(Calculated CrCl (ml/min)	
	Comment	
	Adjustment of current medication required	
		Based on calculated CrCl
	Relevant laboratory values:	

Medications contributing to total ADS

ADS is not intended to replace decision making by the clinician, but can contribute in making clinical decision on drug treatments with a goal of minimizing potential anticholinergic toxic reactions such as falls

R. Bhattacharya MS; S.Chatterjee MS;R.M.Carnahan PharmD,MS et al. "Prevalence and Predictors of Anticholinergic Agents in Elderly Outpatients with Dementia." The American Journal of Geriatric Pharmacotherapy. 2011; 9(6); 434-441.

Scoring:

0 None

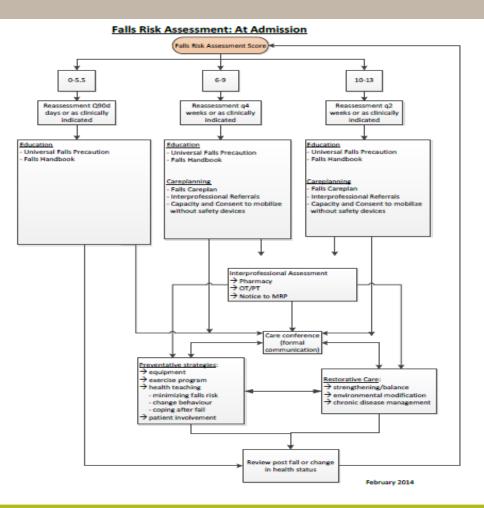
1 Possible

2-3 established, clinically relevant

	New Medication	Add a Medication
	(Anticholinergic drug score (ADS)	
- O	ther	
	Total ADS Score	
	Medications with contributing side effects	
	Identified drug international	
	Identified drug interactions:	
	Recommendations	

	Fri Feb 21 11:07 by MA
Interventions OT/PT Falls Assessment Active	
Assessments OT/PT Falls Assessment Subjective	~
Pt shows insight into assessment	○ Yes ○ No Comment:
Comment	o res o no comment.
- Objective	
Previous fall in the past month	● Yes ○ No
	Patients who have fallen in the past month may be at greater risk of a future fall.
Description of falls	
Weight Bearing Status	○ Non-Weight Bearing ○ Weight Bear as Tolerated ○ Touch Down Weight Bearing ○ Full Weight Bearing ○ Partial Weight Bearing
Sitting balance	Within functional limits Unable Able to right self
Standing balance	Hands Listed left/right Within functional limits Unable Able to right self
	Unsteady
ROM and strength upper extremity	
ROM and strength lower extremity	
Ambulation	Ambulates with assistance Ind. short distance only Assist one person Ambulates with device Unable to ambulate Assist two person Ind. without device Wheelchair
Ambulation device type Bladder continence	Cane 2 wheeled walker 4 wheeled walker Standard walker Continent Cocasional incontinence Infrequent incontinence Did Not Occur - No Output
Bowel continence	Continent Control with ostomy Occasional incontinence Infrequent incontinence Incontinence
Assessment	
TUG (seconds)	×
Berg balance	
SLS right SLS left	
Chair sit to stand reps/30 sec	-
Ambulation and transfers	
Rolling	○ Independent ○ Supported ○ Assisted
Assistance with rolling	
Bridging	○ Independent ○ Supported ○ Assisted
Assistance with bridging	
Supine to sit	○ Independent ○ Supported ○ Assisted
Assistance with supine to sit	
Sit to stand	○ Independent ○ Supported ○ Assisted
Bed to chair	○ Independent ○ Supported ○ Assisted
Assistance with bed to chair	
Analysis	
Analysis	
Other factors limiting occupational performance	

Other factors limiting occupational performance



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 Assessments Nursing falls assessment 			✓				
Falls Risk Assessment			•				
Assessment type		 ○ Admission/Transfer ○ Change in Status ○ Post Fall 					
Age of patient		Contributing factors to fall					
		In general, patients over 65 years old are at higher risk for falls with patients over 80 years at even greater risk.					
Altered mental status	¢	○ Yes ○ No Patients with any major mental illness, including dementia, will often show a positive score in this category.					
Previous fall in the pa	ist month	○ Yes ○ No Patients who have fallen in the past month m	ay be at greater risk of a future fall.				
Impaired Mobility	Impaired Mobility O Yes O No If the patient takes shuffling, small steps, has a slow pace, uses gait aids, holds onto people or furniture when walking or is unsteady when standing or sitting they receive a positive score in this category						
Polypharmacy (4 or mo	ore medications)	Four or more medications often increase the ri Due to the increased risk of bleeding post-fall have regular monitoring of their International Common medications associated with increase	, those patients on anticoagulant therapy should Normalized Ratio (INR). ed falls risk are: Antpsychotics, Anticholinergics, Antihistamines				
🖃 Total							
Falls risk score							
Risk Level	** If the patient is at a medium or high risk of falls, a care plan must be put into place.						
	🗸 Туре	Suggestions	Action	Trigg			
	Order	Occupational Therapy Referral	Order Now	Risk Le			
		Pharmacy Referral	Order Now	Risk Le			
		Physiotherapy Referral	Order Now	Risk Le			
	Thm Falls Risk Add as a Miscellaneous Theme						
	Triggered By						
	Triga	or Answer Peason					
	Trigg						
			Risk Nursing falls assessment				
	Risk Le						

OK I

Cancel 🗙

Result

High Risk High Risk High Risk High Risk

	🕞 Order		Stat	tus	Start/Stop	Ģ			
	Occupational Therapy Referral								
	Routine		New*	Wed M	ar 05	*Edit			
	* Provider		Train 1,D			•	•		
	* Source		Telephor	ne Read Back			•		
	Pharmacy Referral								
	Routine * Provider		New*		ar 05 09:14	*Edit			
	* Source		Train 1,D	ne Read Back					
	Physiotherapy Referral		relephor	le Redu Dack					
	Routine		New*	Wed M	ar 05	*Edit			
	* Provider		Train 1.D				•		
	* Source			ne Read Back			•		
							-		
Туре		Description 🔻		Status	Source	0	Start Dt/Tm	⑦ Target	
Thm	Falls Risk		1	Active	Misc		19/02/14 14:04		3
Goal	Reduce risk of falls	5		Active	Misc		19/02/14 14:04		
Int	 OT/PT Falls Asses 	sment		Active	Misc	A	19/02/14 14:05		
Int	 Pharmacy Falls As 	sessment		Active	Misc		19/02/14 14:05		
Int	 Falls Risk Assess 	nent		Active	Misc		19/02/14 14:05		
	Outcomes Reduce risk of falls Reduce risk	New goal Oupdate OC Yes No No progress Poor F Ability to communicate desi Ability to communication Communication Communication Community support Yes No Comment: The patient/SOM understands at patient/SOM	Fair Good irres Indep Finances Finances Housing that this patient estricting ambud outweigh the r	Excellent endent Edgeable Willingnes Lack of so Physical h Psycheso t has been determined to lation by use of safety determined t	ssed desire to attend s s to attend services clai supports RAI T iai Vocal have a (high/moderate rwices wil be most effice	nggers/Outcomes tance use tional) risk of falling duri tive in reducing th	Lack of insight		
	Action Plan								
							-		

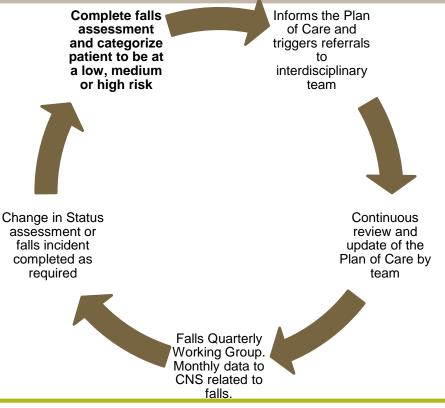
Falls Monitoring and Prevention: Clinical Panel

	13/02/15 12:00 23:59	14/02/15 12:00 23:59	15/02/15 12:00 23:59	16/02/15 12:00 23:59
Falls Risk				
Assessment type	Admission	Change in	Change in	Post Fall
Falls risk level	Medium Ri	High Risk	High Risk	High Risk
Pharmacy recommendations		Decrease		Decrease
Weight bearing status	Weight Be	Weight Be	Weight Be	Weight Be
Berg balance	4	4	4	4
TUG (seconds)	60	60	60	60
Single leg stand right	2	2	2	2
Single leg stand left	1	1	1	1
Chair sit to stand reps/30	1	1	1	1
Ambulation	Ambulate Ind. short	Ambulate Ind. short	Ambulate Ind. short	Ambulate Ind. short
Ambulation device type	Cane	Cane	Cane	Cane

Falls Prevention:

- Patient is flagged for falls risk of Medium or High
- Referrals are sent to OT, PT and Pharmacy for evaluation by allied staff. Physician also evaluates patients and identifies changes as required
- Conference on the unit, review of patients by Falls Committee, CNS, Risk Management and Unit <u>Manger</u>
- Recommendations to reduce risk or minimize harm to the patient while improving quality of care

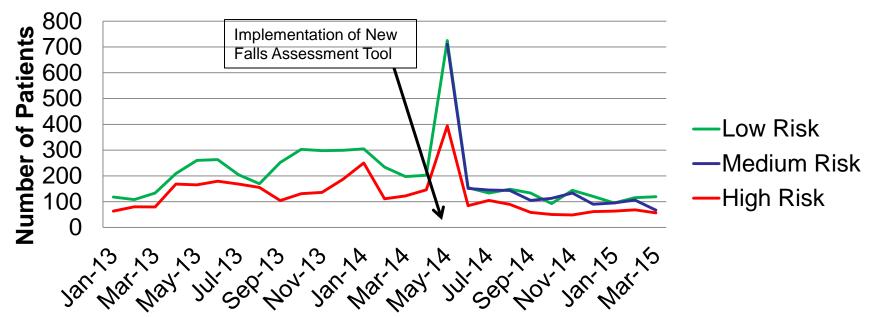
Quality Improvement Cycle: Falls Prevention



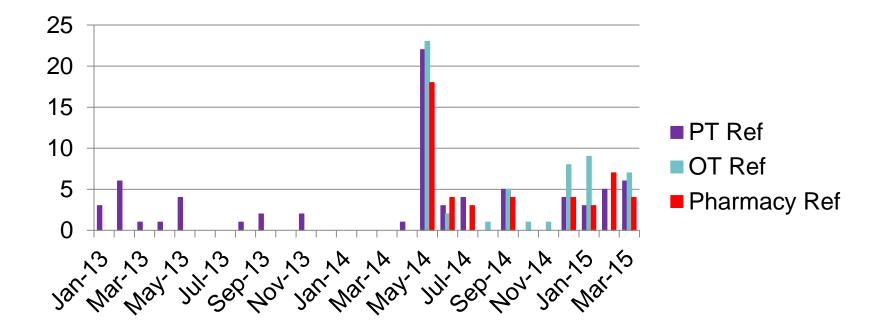
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Falls Risk Level

Falls Risk Level

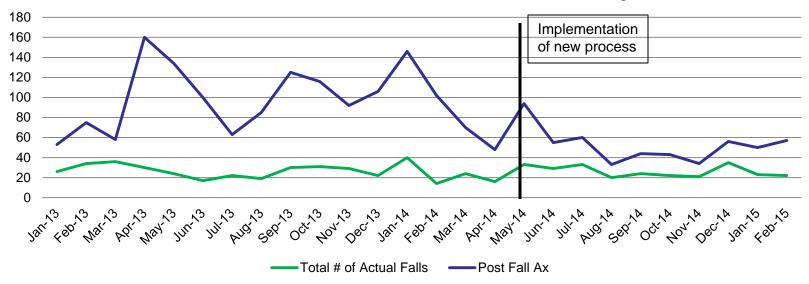


Total Referrals for OT, PT, Pharm



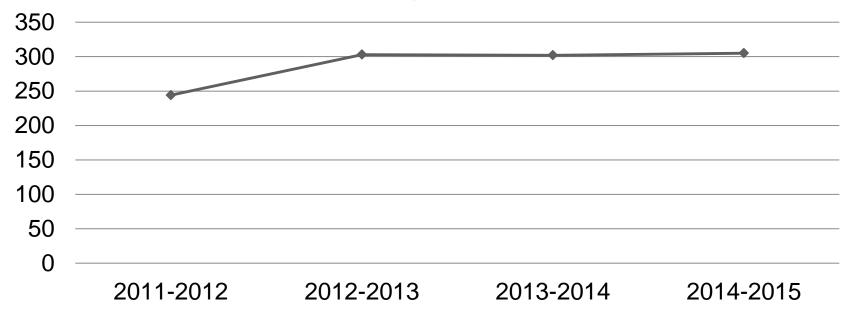
Falls Reported and Post Fall Documentation

Post fall Assessment vs Number of Falls Reported



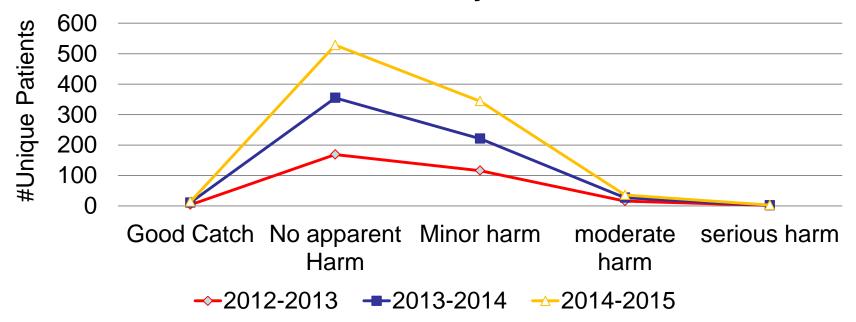
Number of Falls per Fiscal Year

Falls per Year



Severity level of Falls reported

Severity



System Enabling Data Integrity

Increase collaboration and communication with interprofessional team, patient and family.

- 1. Documentation in one consistent place for easy review and gathering of data
- 2. Improve quality of information by providing more details around specific questions
- 3. Questions focus more on mental health clients

Lessons Learned/Next Steps

Challenges/Lessons Learned:

- Physicians and nurse practitioners do not have access to document in the Plan of Care
- Pilot was only done on the two geriatric units
- Front line staff were not included in the development of the new tool.

Next Steps:

- Validate the tool
- Continue to monitor number of falls vs number of post-fall assessments
- Review/Update interventions for OT/PT and Pharmacy based on documentation needs.
- Continue to provide data back to the CNS and Managers from the Falls Prevention Group.

Thank you

