



“Implementation of Delirium Screening, Prevalence and Incidence Indicators for an Orthopedic Population: A Feasibility Study”

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Delirium Indicator- a Provincial Metric

“A TOH Opportunity”



- Delirium is an adverse event
- Accounts for ↑LOS; ↓ quality of hospital stay; potential for early admission to LTC & many more
- Provincial Feasibility pilot was initiated to study Delirium
- TOH participated- in alignment with TOH Quality Plan
- Wrote proposal & received TOH REB approval
- Received a Grant from the Dept of Medicine Patient Quality and Safety Funds

Objectives

1. Improve admission screening rates (CAM)
2. Implement daily shift recording of delirium
3. Identify feasibility for identifying delirium incidence vs. prevalence
4. Recommend process for future partnership between Geriatrics and Orthopedics
5. Investigate building delirium into PSLS as an adverse event
6. Staff satisfaction & challenges- survey 3 x

Process

- 1. Extra Log Sheet at bedside**
 - i. Record CAM score/shift
- 2. APN/Geriatric Nurse Specialist assists with:**
 - i. Education
 - ii. Monitoring of patients
 - iii. Follow-up of delirium patients
 - iv. Recommending Geriatrician consults
 - v. Suggestions for care (New Form)
 - vi. Attending rounds where possible

Emerging Results

Screening for CAM on admission

- > 90% of patients are now screened on admission using the CAM
- Screening embedded in Nursing Admission now

Admission CAM Results **

- ~ 16% of patients admitted to ORT CAM +
- **Incidence:** total patients admitted with no delirium BUT turn + = ~ 8%

Staff Satisfaction/Challenges

- Data- summer 2014

** Results may change with additional data



Delirium CAMs Data

[Sample description: Sept-Oct-Nov-Dec: 2013]

Total number of patients included within this four months sample
[Sept-Oct-Nov-Dec 2013]

181

Mean Age of patient sample

79

MIN Age of patients in sample

65

MAX Age of patients in sample

96

Average LOS

[In days]

~12

MIN LOS

[In days]

1

MAX LOS

[In days]

76

Number of patients whose CAM was not completed at admission

18 [9.94%]

Number of patients whose CAM was not completed during stay

5 [3%]

Total number of CAMs completed for all 181 patients

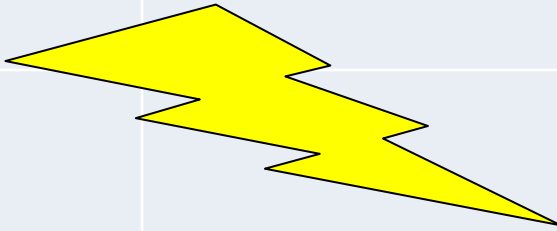
2500



Delirium CAMs Data

[Sept-Oct-Nov-Dec: 2013]

Sample size of 181 patients

Total number of CAM+ at admission		28	15.47%
Total number of CAM+ at admission who then remained CAM+		17	9.39%
Total number of CAM+ at admission who turned CAM-		11	6.08%
Total number of CAM- at admission who then turned CAM+		16	8.84%
Total number of CAM- at admission who remained CAM-		114	62.98%

*Note: a total of 23 patients [or 12.7%] had incomplete CAMs

Beginning to Understand Incidence

Post-admission CAM+ onset:

- on average delirium occurred about 2-3 days within that admission period
- range of 8 days where some patients experience as little 1 CAM+ /day and others as much as 8 days.
- Due to fluctuation of delirium these numbers do not represent uninterrupted duration

Merci



Jackie Mace, Clinical Manager Orthopedics
All clinical Leaders & staff!! Nurses, PT, OT,,
Residents & staff physicians!!

Questions?

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