

Introduction

- Patients with altered mental status (AMS) are more likely to escalate to violence and staff assaults.¹
- This behavior is frequently seen in geriatric patients who suffer from dementia and delirium.
- Rates of dementia are predicted to increase exponentially, creating a need for innovation in hospital care.
- Patients affected by these disease processes often led to:
 - Increased use of restraints
 - Additional medication administration
 - Longer length of stay.²
- Objective identification of these at-risk patients could lead to earlier intervention, decreased restraint use and subsequent length of stay.

Methods

- Baseline data around restraint use and assessment of public safety call reports on the unit was collected between January 2021 and May 2021.
- Three interventions were implemented simultaneously at Tufts Medical Center (TMC) from June 2021 to December 2021.
 - Education around safe de-escalation practices
 - Objective screening with the Brøset Violence Checklist (BVC)
 - Escalation algorithm including proactive psychiatric consultation
- Data around restraint use and public safety calls made on the unit was gathered from June 2021 to October 2021.
- Public safety call reports were analyzed to assess which patient populations were impacted by these interventions.
- Qualitative analysis of public safety calls assessed whether additional education led to changes in language from punitive-based to patient centered.

Disclosure and Additional Regards

All of the authors listed have no financial disclosure to list Additional regards to the nursing staff on Proger 5 North Unit and Public Safety Team, including Head of Public Safety Robert Devlin.

Management of Hospital Violence in High-Risk Patient Populations: Utilizing Brøset Violence Checklist with Proactive C-L Psychiatry Consultation Kathryne Adams, MD, Glenn Robison, BS, Isabelle Hashim, MD, Cristina Montalvo, MD, MBS

Results

- During the active interventions, there was a mild, not significant reduction in public safety calls and restraint use (p=0.81; p=0.43) (Figure 1 and 2).
 - A total of 31 public safety calls were assessed from January 2021 to May 2022.
 - Review of the patient populations assessed by public safety showed a predominance of those over age 60 (52%) as well as those suffering from documented AMS, delirium, and/or injury to the brain (65%).
 - During the active intervention phase (June 2021 to December 2021), there was a reduction in public safety calls for those over the age of 60 (Table 1).
 - Qualitative analysis of safety calls showed an increase in use of patient-centered language and a reduction in punitive language, sustained after the intervention (Figure 3).
 - After the interventions (January 2022 to May 2022), there was an increase in the percentage of public safety calls involving patients greater than 60 from baseline data (January 2021 – May 2021) (Table 1).





 Table 1: Patient Populations Documented in Public Safety Calls
 Clinical Information Jan Ma Over the Age of 60 Delirium, AMS, Documented Insult to the Brain

(Stroke/Hemorrhage/TBI)

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Withdrawal, Substance Use
Disorder
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• The baseline restraint use was 3.4% shown by the dashed line in Figure 2.

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2021 – y 2021	Jun 2021 – Dec 2021	Jan 2022 – May 2022
58%	38%	67%
57%	62%	67%
.7%	25%	33%

Figure 3: Ratios of Patient Centered Language versus Punitive Language in Public Safety Reports

3.00	
2.50	
2.00	
1.50	
1.00	
0.50	
0.00	
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Discussion

- Kesources 10.1016/j.jamda.2012.05.019



• The interventions, including the proactive consultation model, led to a small decrease in public safety calls and restraint use, as seen in other proactive C-L models.³ • The primary patient population for which public safety calls were made were for those over the age of 60. • During the active intervention, there was a decrease in public safety contact with the geriatric patient population.

• Qualitative analysis of language identified frequent escalation to physical restraints prior to use of

pharmacologic interventions despite education.

• There appeared to be increased use of patient-centered language sustained after the intervention.

• There was no significant decrease in restraint use, which was reflective in review of the public safety calls.

• The majority benefit was limited to active intervention, not seen in other literature around behavioral and education modifications.⁴

• Additional areas of study would be the sustainability of continued models and interventions as well as potential lasting impact for a geriatric patient population in a tertiary hospital system.

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