Responding to the problem of conflict and containment in emergency departments

Towards an integrated Model of Care

Royal College of Nursing Conference 2019
05.09.2019 Sheffield Hallam University City Campus
Abstract 0353
Symposium 16
Setting the scene
Acknowledgements

Staff of the Royal Melbourne Hospital Emergency Department

Professor George Braitberg and A/Prof Jonathan Knott Centre for Integrated Critical Care The University of Melbourne

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Support

• The Nurses Board of Victoria Legacy Limited Mona Menzies Fellowship
• North Western Mental Health
• Melbourne Health
• Victorian Department of Health and Human Services
• VMIA
• Pathtech Pty Ltd
Overview

Restrictive Interventions in Emergency Departments: An Australian Perspective

Behavioural Assessment Unit: A New Model of Care for Patients with Complex Psychosocial Needs

Screening and Brief Intervention for Drug Use in the Emergency Department: Perspectives of Nurses and Consumers
GERDTZ M, Yap C, Daniel C, Knott J.

Adapting and implementing Safewards for Emergency Departments
Gerdtz. M, DANIEL C, Corrales, M, Ryan, A, Rosenbauer, M, Bendall, K.
Restrictive Interventions in Emergency Departments:

An Australian Perspective

Background

Restrictive interventions (RI)
  - mechanical restraint
  - physical restraint
  - sedation

Risk identified = restrictive interventions may be used

RI= Victoria, MHA has clear guidance

Acute care settings, including EDs, RI are guided by hospital procedures Duty of Care (DOC)

Care/authorisation/governance are not consistent
Management of Behavioural Emergencies

Source: News Corp Australia, 22 Aug 2015
Methods

Five EDs within Victoria were chosen to provide a cross-section of acute hospital settings

All sites provide occupational violence and aggression management training to staff

All presentation to the ED within the period of January 1\textsuperscript{st} 2016 to December 31\textsuperscript{st} 2016
Data

All data was obtained from the clinical information systems

Linked to Code Grey events

Sample was 100 ED patients who had a Code Grey who had a least one restrictive intervention

Manual extraction of data from the clinical records was then undertaken
Results

Overall the five sites had 327,454 patients in 2016

Age: median 40 (24-63)
Male: 52%

Presentation

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Self</td>
<td>69%</td>
</tr>
<tr>
<td>Ambulance</td>
<td>30%</td>
</tr>
<tr>
<td>Police</td>
<td>1%</td>
</tr>
</tbody>
</table>
Code Grey results

One site excluded; for the remaining four

3871 consumers had a Code Grey (1.5%)
1-14 Codes per person

Consumers who had a Code Grey were more likely to be:

- male (59% versus 41%)
- younger (median age 36, IQR: 27-44)

Most consumers who had a Code Grey were given a final discharge diagnosis related to a mental health issue (59%).

Those with a toxicological issue made up a significant minority (20%).

A higher proportion of patients with a Code Grey were admitted:

- to an observation unit 32%
- to a mental health ward 17%

For those consumers who had a Code Grey:

942 (22.7%) had at least one restrictive intervention
<table>
<thead>
<tr>
<th>MHA status on arrival</th>
<th>N=494</th>
<th>(%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No status</td>
<td>147</td>
<td>(30)</td>
</tr>
<tr>
<td>Section 351</td>
<td>254</td>
<td>(51)</td>
</tr>
<tr>
<td>Assessment order</td>
<td>11</td>
<td>(2)</td>
</tr>
<tr>
<td>Involuntary treatment order</td>
<td>20</td>
<td>(4)</td>
</tr>
<tr>
<td>Unknown</td>
<td>62</td>
<td>(13)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MHA status at 1st intervention - n (%)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Duty of Care</td>
<td>311</td>
<td>(63)</td>
</tr>
<tr>
<td>Assessment order</td>
<td>108</td>
<td>(22)</td>
</tr>
<tr>
<td>Involuntary treatment order</td>
<td>10</td>
<td>(2)</td>
</tr>
<tr>
<td>Unknown</td>
<td>65</td>
<td>(13)</td>
</tr>
</tbody>
</table>
### Reason for Restraint

<table>
<thead>
<tr>
<th>Reason for restraint - n (%)</th>
<th>n=494</th>
<th>(%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aggression / Agitation</td>
<td>371</td>
<td>(75)</td>
</tr>
<tr>
<td>Risk of harm to self or others</td>
<td>218</td>
<td>(44)</td>
</tr>
<tr>
<td>Risk of absconding</td>
<td>140</td>
<td>(28)</td>
</tr>
<tr>
<td>Attempting to self-harm</td>
<td>110</td>
<td>(22)</td>
</tr>
<tr>
<td>Refusal of medication</td>
<td>101</td>
<td>(20)</td>
</tr>
<tr>
<td>Damaging property</td>
<td>36</td>
<td>(7 )</td>
</tr>
<tr>
<td>Trauma care</td>
<td>8</td>
<td>(2 )</td>
</tr>
<tr>
<td>Unknown</td>
<td>19</td>
<td>(4 )</td>
</tr>
</tbody>
</table>
## Disposition

<table>
<thead>
<tr>
<th>Discharge Diagnosis Category - n (%)</th>
<th>n=494</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mental Health</td>
<td>265</td>
<td>(53)</td>
</tr>
<tr>
<td>Toxicology</td>
<td>125</td>
<td>(25)</td>
</tr>
<tr>
<td>Trauma</td>
<td>42</td>
<td>(9)</td>
</tr>
<tr>
<td>Other</td>
<td>60</td>
<td>(12)</td>
</tr>
<tr>
<td>Unknown</td>
<td>4</td>
<td>(1)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Disposition - n (%)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Home</td>
<td>139</td>
<td>(28)</td>
</tr>
<tr>
<td>Observation medicine</td>
<td>112</td>
<td>(23)</td>
</tr>
<tr>
<td>General ward</td>
<td>103</td>
<td>(21)</td>
</tr>
<tr>
<td>Mental Health ward</td>
<td>81</td>
<td>(16)</td>
</tr>
<tr>
<td>Critical Care</td>
<td>13</td>
<td>(3)</td>
</tr>
<tr>
<td>Correctional facility</td>
<td>10</td>
<td>(2)</td>
</tr>
<tr>
<td>Inter-hospital transfer</td>
<td>5</td>
<td>(1)</td>
</tr>
<tr>
<td>Left at own risk</td>
<td>31</td>
<td>(6)</td>
</tr>
</tbody>
</table>
Length of stay

Restrained under DOC

Restrained under MHA
Discussion

Majority of RI required in the ED is via DOC

Unlike MHA, there is no standardised state-wide process or documentation of restraint use - high risk intervention that is occurring but we don’t know how often

More than half the patients who received a restrictive intervention were subsequently admitted to an observation ward or sent home from the ED

Less than one in six were admitted to a mental health ward.
Limitations

Accurate reporting of Code Grey rates depends on adequate, standardised data collection.

All five sites had differing systems for recording Code Grey data and the use of restrictive interventions.

No organisation had a dedicated system for recording restrictive interventions or the MHA status at the time of the intervention.

Documentation at the sites varied with four of five using paper–based forms for recording restrictive interventions that occurred under a DOC.

The more detailed data required manual extraction and the records are not standardised.
A framework for the governance of restrictive interventions in acute settings needs to be developed (Residential Care/Aged Care Act, MHA, acute health policies)

The use of restrictive interventions in the ED should be clearly documented using a standardised tool

The rate of Code Greys and restrictive interventions should be reported to organisational occupational violence and aggression committees “dashboards”
Recommendations

Interventions should be a component of a program of recovery-orientated, trauma-informed care.

Behaviours of Concern should be managed in way that shows decency, humanity and respect for individual rights, while effectively managing risk/need for treatment.

Training for staff in ED should consider a cross-cultural approach involving ED clinical staff and mental health clinicians familiar with the ED working environment

Models of care should be developed that emphasise low stimulus, high resource environments that combine acute and mental health care.
Behavioural Assessment Unit:

A New Model of Care for Patients with Complex Psychosocial Needs

The Royal Melbourne Hospital
Emergency Department

- Level 1 – State Trauma Service
- 80,000 ED presentations per year
- 60% presentations are Cat 1, 2 or 3
- Admission rate 50%
- 50% admissions to SSU/BAU
- ED team
  - 220+ Nurses
  - 75 Medical staff
  - 26 EDAs
  - 30 Clerical staff
  - 15 Allied health
- Overall presentations are up 6.8% year on year
Melbourne Health

- Largest provider of mental health services in Victoria
- Services over 1.2 million people
- Six programs spanning 32 sites

**BEDS ACROSS MELBOURNE HEALTH**

- **714** Beds at RMH City and Royal Park Campuses
- **137** Residential Aged Care beds
- **502** Mental Health beds
Behavourial Emergencies

Management in ED can be:

- Complex
- Lengthy
- Unsafe
- Restrictive

AND ... Not best practice
What we knew

Potential BAU patients by diagnosis group

- Acute Behavioural Disturbance: 13%
- Anxiety / Depression: 11%
- D&A diagnosis: 4%
- MH presentations: 7%
- Psychosis Crisis: 13%
- Organic Illness: 26%
- No disease found: 1%
- Other: 5%

Discharge Destination of potential BAU admits

- Short stay: 62%
- MH Bed RMH: 9%
- MH Transfer: 5%
- DNW - treatment: 9%
- DNW + treat, emt: 4%
- Discharged: 11%
The BAU was established to provide a safe and therapeutic environment for our patients

1. A dedicated 6 bed area within our OM unit
2. 2:1 nurse patient ratio to service the toxicology cohort
3. Co-located Emergency Mental Health & Drug & Alcohol

BAU = safe, timely, person centred care:

*The right patient to the right bed in the right timeframe*
Pre & Post BAU

### Waiting time to EMH

<table>
<thead>
<tr>
<th></th>
<th>Pre-BAU</th>
<th>Post-BAU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minutes</td>
<td>139</td>
<td>117</td>
</tr>
<tr>
<td>IQR</td>
<td>57-262</td>
<td>49-224</td>
</tr>
</tbody>
</table>

### ED Length of stay

<table>
<thead>
<tr>
<th></th>
<th>Pre-BAU</th>
<th>Post-BAU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minutes</td>
<td>328</td>
<td>180</td>
</tr>
<tr>
<td>IQR</td>
<td>227-534</td>
<td>101-237</td>
</tr>
</tbody>
</table>
Admissions to BAU 3 years on
Disposition from BAU 18/19

- Transfer to other hospital: 5%
- Mental Health admissions: 3%
- RMH admission: 2%
- Home: 90%
Conclusion

➢ Best practice does exist – trust in S.T.E.P
➢ ED patients with complex psycho-social issues can be moved to an alternative space, rather than the ED
➢ The BAU model of care improves ED flow and reduces some restrictive interventions
➢ Patients appreciate the safer environment

July 7, 2016
As a patient familiar with mental health services the staff working morning shift have done the best job I’ve seen at maintaining a patient’s safety, de-escalating situations, maintaining dignity, showing respect and holding someone in a safe space.

Regards,
(i.e. (Patient))
Screening and Brief Intervention for Drug Use in the Emergency Department:

*Perspectives of Nurses and Consumers*

GERDTZ M, Yap C, Daniel C, Knott J.
Background

• The emergency department (ED) represents a **frontline point of access** for people with acute behavioral disturbances and concurrent illicit drug use.

• Differentiating the cause of acute behavioural disturbance in the ED is both complex and challenging, especially when behaviour threatens staff safety.

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Evidence

Research

• The ED visit provides a potential window of opportunity for screening, brief intervention and referral to treatment (SBIRT) \(^3\), \(^4\)

• Opportunity for a “teachable moment” \(^4\)

Policy

• Emergency departments should take every opportunity and be resourced to promote public health and the prevention of illness and injury…. (including) .. screening for drug and alcohol misuse, and undertaking brief interventions where appropriate.” \(^5\)


The Gap

• How can problematic drug use routinely be identified and treated among patients who present to the ED?

• What is the evidence regarding **uptake and patterns of referral** for those most at risk of harmful drug use?
Aims

1. To determine the prevalence of illicit substance use for all individuals admitted to the ED Behavioural Assessment Unit (BAU) 6.

2. To explore perspectives of staff and consumers regarding routine drug screening and brief interventions for drug use.

Approach and Setting

Design

- Observational study of prevalence
- Focus group interviews with nurses regarding barriers and enablers to drug screening
- Consumer survey regarding public acceptability

Setting

- Metropolitan tertiary referral hospital ED
- 6 bed Behavioral Assessment Unit (BAU) co-located within the ED

Observational study (July-December 2017)

Aim
Determine the prevalence of meth/amphetamine and cannabis use among individuals admitted to BAU

Outcomes

1. the prevalence of amphetamine-type stimulants and cannabis use among patients using POC saliva testing and self-reported drug use.

2. Secondary outcomes were rate of acceptance and referral outcomes for patients who tested positive for, or who self-reported amphetamine-type and/or cannabis use.
Approach
Prospective observational study

Participants
• All patients admitted to BAU over a 6 month period

Screening Brief Intervention Referral to Treatment 8, 9, 10

8. Securetec Drug Wipe® Twin
Results

Combined prevalence of meth/amphetamine and other drug use was 21.2%

85.6% accepted referral to the alcohol and other drug clinician
Focus Groups (August-October 2018)

Aim
• To explore perspectives of ED clinicians regarding drug SBIRT.

Approach
• Qualitative - thematic analysis

Setting
• Metropolitan tertiary referral hospital ED

Participants
• Nurses (30)
Results – 5 focus groups n=30

Barriers and enablers to SBIRT in the BAU exist at three levels:

- **Patient** (receptiveness to screening)

- **Staff** (knowledge and perceptions of role)

- **Systems** (time pressures, lack of established pathways to referral, communication between ED-AOD services)
Results – barriers to SBIRT (Patient)

Patient receptiveness

• “... sometimes I don't probe because you can see they’re getting agitated with you by asking the questions, you're increasing their behaviours and potentially become more dangerous and escalated ...”

• “...I think it's a bit touchy with some people because people get quite defensive about it, not because they’ve taken it, but because they can’t believe that you're going to ask them that question, so you kind of don't want to get off on the wrong foot with your patient...”
Results – barriers to SBIRT (Staff)

Knowledge

- “... we don’t have a skill set for that, and so you think that it’s not your role, you think that is actually an important conversation and I don’t want to go in there and give the wrong information, so I’m just going to step back from that…”

Role delineation

- “I don’t know if that changes the patient care...which again makes me wonder if ED is the right point at which to do how much of the work…”
Results – barriers to SBIRT (Systems)

Time pressure
• “... so often we don't ask, because you get so pushed just to do the work and get them out, the 4 hour rule screws everything...”

Pathways to referral
• “when you come to behavioural drug affected patients, there's no pathway, there's no guideline, there's no nothing. So no one really knows what to do...”

Collaborative approach to ED-AOD services
• “…on the Friday, they're on a bender...and they will say, ok, just refer to drug and alcohol, but, there's no drug and alcohol so we’ll put in an after hours referral and it's like I don't know what's going to be and is that collected? Is that being followed up?”
Results – Enablers to SBIRT (Staff and systems)

Knowledge

• “...if you were to empower the nurse with sort of information on harm minimisation strategies and effects of illicit substances, nurses would go oh wow I’m allowed to say things like that. Because it's very formal, it's extremely factual, it would be amazing...”

Collaboration

• “...it’d be good for us to clarify if we make a referral will AOD clinician follow up these high risk out of hours, just I think communicating that to all the nurses will increase your compliance for referrals...”

Resources

• “If we just have a brochure we have some simple information we can give them...we can give them something that they can hold onto and take with them...”
Consumer survey (March-April 2019)

Aim

• To explore perspectives of ED consumers regarding drug SBIRT.

Participants

• English speaking adults with no symptom distress or cognitive impairment and able to provide written consent

Setting Sample

• Metropolitan tertiary referral hospital ED
• Random stratified sample (by location) of 20 participants per day
Survey

Patient Beliefs and Attitudes Survey

- 11 items measured on 5-point Likert Scale indicating level of agreement
  - Appropriateness
  - Thoughts
  - Level of comfort
  - Relevance/importance to visit
  - Preferences

<table>
<thead>
<tr>
<th>These questions ask about attitudes towards Alcohol and Drugs screening in the Emergency Department.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mark your level of agreement with the following statements.</td>
</tr>
<tr>
<td>Strongly disagree</td>
</tr>
<tr>
<td>-------------------</td>
</tr>
<tr>
<td>It is appropriate to be questioned about my alcohol consumption during my emergency department visits.</td>
</tr>
<tr>
<td>It is appropriate to be questioned about my substance (e.g. cannabis, ICE) consumption during my emergency visits.</td>
</tr>
<tr>
<td>I feel I am being judged by the emergency department staff if they ask me about my alcohol consumption.</td>
</tr>
<tr>
<td>I feel I am being judged by emergency staff if they ask me about my substance use.</td>
</tr>
<tr>
<td>I feel comfortable answering questions related to my alcohol consumption during my emergency visits.</td>
</tr>
<tr>
<td>I feel comfortable answering questions related to my substance use during my emergency visits.</td>
</tr>
<tr>
<td>It is important for emergency staff to know about my alcohol consumption.</td>
</tr>
<tr>
<td>It is important for emergency staff to know about my use of substances.</td>
</tr>
<tr>
<td>It is a good idea to screen everyone for alcohol and substance use during their emergency department visits.</td>
</tr>
<tr>
<td>I’d prefer to self-complete the alcohol and substance use questionnaire instead of being asked by the emergency department staff.</td>
</tr>
<tr>
<td>I’d prefer to have these questions being asked by the attending nurses instead of the attending doctors.</td>
</tr>
</tbody>
</table>
Results

Identification
467 randomly selected
113 excluded (24.2%)

Inclusion
353 included (75.8%)
86 refused (24.3%)
268 consented (75.7%)
7 incomplete (2.6%)

Analysis
261 consented (97.4.7%)
Results (N=261)

- 85% it is appropriate it is to be questioned about substances
- 88% comfortable answering questions about substance use
- 89% agree it is important for staff to know about substances use
- 80% believe it’s a good idea to screen everyone
Key points

- The prevalence of illicit substance use among individuals admitted to BAU unit is high.

- Most patients who screened positive for illicit drug use were willing to be referred to AOD clinician.

- The ED visit represents a window of opportunity in which nurses can screen for drug use, implement education regarding harm minimisation, and make referral to AOD services.

- Key challenges for clinicians in initiating SBIRT are related to time pressures, role legitimacy and lack of training.

- The vast majority of the consumers who were interviewed felt it was appropriate to be questioned about drug use and were comfortable answering questions related to this during their ED visit.
Adapting and implementing Safewards for Emergency Departments
Safewards Victoria

Adapting and Implementing Safewards for Emergency Departments

Dr Catherine Daniel
Professor Marie Gerdtz
Marisol Corrales, Office of the Chief Mental Health Nurse, DHHS
Ashleigh Ryan, Peninsula Health
Monique Rosenbauer, Bendigo Health
Kate Bendall, Peninsula Health
Safewards Implementation in Victoria

- 2016-2018 - Stage 1 - Mental Health
- 2019 - Stage 2 - ED
- 2020 - Stage 3 - General
The Simple Model

Simple model

- Staff modifiers
- Patient modifiers
  - Originating domains
  - Flashpoints
- Conflict
- Containment
Conflict and Containment

**Conflict**
anything that could lead to harm for the patient, others or staff

**Containment**
what staff do to prevent conflict events or minimise harmful outcomes
The Safewards Model
The Originating Domains

1. The patient community
2. Patient characteristics
3. Regulatory framework
4. Staff team
5. Physical environment
6. Outside hospital

Flashpoint
Why Safewards?

- Service interest
- VMIA interest
- 14.6% reduction in conflict
- 23.6% reduction in containment events
- 36% reduction in seclusion events (Vic)

Safewards in the ED Trial

- 2 year pilot project, June 2018-June 2020
- Dedicated project leads at each service
- 2 services, 3 trial EDs
- All service users, patients, carers, family members
- 2 different methods of training/implementing
- Adaptation of resources
Engagement at sites

Mixed response from medical staff – nurses reports that this should be for all staff and not just nurses.

“This is political correctness gone mad”

“If this prevents one situation from escalating to use of restraint it’s worth it”

Focus on well being of staff also - for example ED nurses noted that they don’t have access to clinical supervision like mental health nurses do.

Video, cake launch and BBQ to launch Safewards
Challenges

In comparison to Mental health settings

- applies to all people who use ED
- Length of stay shorter
- acutely unwell (both with acute mental health symptoms, medical complexity and intoxication with ETOH/substances
- use of mechanical and physical restraint regularly used
- unionised approach to occupational violence
- dynamic environment
- bed pressures with NEAT pressure to move people though in 4 hours
- restraint used and presents risk to staff and patients
- focus has been on envrimental controls ie wire at triage
The 9 trial Interventions in ED

- Know Each Other
- Positive Words
- Reassurance
- Respectful Limits
- Talk Through
- Calming Methods
- Perception and Awareness
- Senior Safety Round
- Delivering Bad News
Know each other - Patients and staff share some personal interests and ideas with each other, displayed in common areas.

- Builds rapport, respect & common humanity

Concerns raised about privacy however information shared is at the discretion of each staff member

Bendigo – reported on staff preferences ie favourite drink/pet/football team
This has generated conversation, mutual topics, and allowed for engagement

Frankston – posters on staff – first name, hobbies, interesting information, and staff photo
Positive words - staff say something positive in handover and clinical discussions about each patient. Staff use psychological explanations to describe challenging actions.

- *Increases positive appreciation and helpful information about working with patients.*
- *Relevant for handover*

“Iphone positive”  
“Suitcase positive”  
“behavioural”  
“aggressive”
Phase 1 Evaluate Safewards Training

Phase 2. Evaluation of the Safewards Implementation Process

Phase 3. Impact of Safewards on Coercion

Phase 4. High Risk Presentations

Phase 5. Organisational Impact/s

Phase 6. Patient and carer experience Questionnaire

Phase 7. 48 hour Observational Visits
Safewards in the ED trial results so far...

• Anecdotally generally well received by ED Nursing staff

• Positive and some challenging feedback in first of 4 external evaluation focus groups

• Concerns expressed re time, risk being ignored

• Interest by medical staff, administrative clerks and volunteers
“The whole is greater than the sum of its parts”

Aristotle

Thank you