

Access to Take Home Naloxone in the Royal Alexandra Hospital's Emergency Department for Patients at Risk of an Opioid Overdose

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— Presenter Disclosure

Presenter: Daniel Dabbs

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Potential for conflict(s) of interest:

Not Applicable

— Mitigating Potential Bias

The research reported herein was conducted independently by the research team. The findings and conclusions expressed are the authors' own, and do not necessarily reflect the views of their employers or the research funders.

— Provincial THN Initiative



Launched by AHS in December 2015 to help counter the epidemic of opioid-related overdose deaths.

As of December 31, 2017:

- 37,737 THN kits have been distributed in Alberta
- 2,855 reversals were self-reported

ED-based THN kit distribution began in February 2016 at the RAH

There have been no studies conducted of the distribution rate and the characteristics of patients receiving kits

— Methods

Retrospective chart review

Population selection process:

- Patients presenting to the RAH ED between April 2017
- May 2017 with ED diagnosis of opioid overdose
- Defined by ICD-10 classifications T40.0 – T40.4 and T40.6

Employed a standardized data abstraction form

Data analysis:

- Multivariate analysis using logistic regression
- Descriptive statistics



Table 1. Characteristics of ED visits for opioid overdose, by whether Take Home Naloxone (THN) was offered, Royal Alexandra Hospital, Edmonton, April 2016 - May 2017.

| Visit Characteristic (Continuous) | | |
|--|----------------------------------|--|
| Age (n=341) | Mean Age: 38.2 Range: 16 – 93 | Offered THN: Mean=35.3 Not Offered THN: Mean=40.9 |
| Visit Characteristic (Binary) | Overall- No. (%) | Offered THN- No. (%) |
| Sex (n=342) | | |
| Male | 234 (68.4) | 129 (55.1) |
| Female | 108 (32.6) | 39 (36.1) |
| Pre-Hospital GCS (n=291) | | |
| 3-8 | 210 (74.9) | 127 (60.5) |
| 9-15 | 81 (23.7) | 17 (21.0) |
| Illegal Opioid Intoxicant (n=298)* | | |
| Yes | 186 (54.4) | 126 (67.7) |
| No | 112 (32.7) | 25 (22.3) |
| Discharged with Approval (n=342)** | | |
| Yes | 279 (81.6) | 148 (53.0) |
| No | 63 (18.4) | 20 (31.7) |

Table 2. Multivariate analysis of factors associated with being offered (versus not offered) a THN kit.

| Predictor Variables | Adjusted Odds Ratio (AOR) | 95% Confidence Interval (CI) | P-value |
|--------------------------------|----------------------------------|-------------------------------------|----------------|
| Age (per year decrease) | 0.99 | 0.97 to 1.01 | 0.466 |
| Sex (Male vs Female) | 1.94 | 1.11 to 3.36 | 0.019 |
| Pre-Hospital GCS (3-8 vs 9-15) | 3.38 | 1.73 to 6.61 | <0.001 |
| Illegal Opioid Intoxicant | 5.10 | 2.74 to 9.49 | <0.001 |
| Discharged with Approval | 3.18 | 1.66 to 6.07 | <0.001 |

All patients presenting to the ED with opioid overdose should be offered a THN kit.

- 1) Increase the delivery of THN kits to women
- 2) Enhance the delivery of kits to patients who present to the ED with a GCS of ≥ 9
- 3) Increase the delivery of kits to patients who reported taking prescription opioids
- 4) Increase the distribution of THN kits to the population of patients who leave without discharge approval

— Thank you!



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