

London Health Sciences Centre

Southwest Ontario Regional Base Hospital Program

Introduction

- The Ontario advanced life support patient care standards (ALS-PCS) limit the delivery of analgesia by advanced care paramedics (ACPs) to trauma patients who have suffered isolated extremity trauma.
- ACPs are able to establish on-line medical control to request analgesia for multisystem trauma patients that do not meet the ALS-PCS.

Objectives

Primary Objective

 To determine how often analgesia is provided to trauma patients as defined by an injury severity score (ISS) > 12 by either the ALS-PCS medical directive or through on-line medical control.

Secondary Objectives

- To determine the proportion of trauma patients who were transported by ACPs versus primary care paramedics (PCPs).
- To determine the amount of time saved if analgesia was delivered in the field versus in the emergency department (ED).

Methods

- A retrospective chart review was performed for trauma patients transported from the scene to a level two trauma center from April 1st 2010 to March 31st 2011.
- Cases were reviewed by a trained ACP Base Hospital auditor/educator, medical student and EMS/ trauma team leader/ EM physician.

Analysis of Prehospital Treatment of Pain in the Multisystem Trauma Patient at a Community Level 2 Trauma Centre P. Bradford^{1,2}, R. Bulatovic², S. McKenzie², E. Galbraith², D. Eby¹, A. Dukelow¹, M. Peddle¹, S.L. McLeod¹, M. Lewell¹, M. Davis¹

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Conclusions

 Despite demonstrated rapid delivery, the frequency of pre-hospital analgesia use for multi system trauma patients is extremely low (8.1%).

 No patients met the criteria for ALS-PCS medical directive for prehospital analgesia

 The median time difference between prehospital and ED analgesia administration was 39 minutes

 The majority of multisystem trauma patients in Essex County are attended by PCP who cannot administer analgesia in Ontario (59%).

Limitations

Retrospective data collection

 Unknown as to why ACPs did not patch for prehospital analgesia

Future Directions

 Promoting more frequent use of on-line medical control by ACP may allow patients to receive analgesia much

 Consideration should be given to expanding prehospital directives for all types of paramedics to include pain control for multisystem trauma patients.

Disclosure

• No conflict of interest.