

Oral presentation

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Trauma systems and early management of severe injuries in Scandinavia: review and current status

Thomas Kristiansen^{*1,5}, Kjetil Søreide^{2,3}, Kjetil Ringdal^{1,5}, Marius Rehn^{1,5}, Andreas J Krüger¹, Andreas Reite², Terje Meling⁴, Pål Aksel Næss⁶ and Hans Morten Lossius¹

Address: ¹Norwegian Air Ambulance Foundation, Department of Research, Drøbak, Norway, ²Department of Surgery, Stavanger University Hospital, Norway, ³Department of Surgical Sciences, University of Bergen, Norway, ⁴Department of Orthopaedic Surgery, Stavanger University Hospital, Norway, ⁵Faculty of Medicine, Faculty Division Ullevål University Hospital, University of Oslo, Norway and ⁶Trauma Unit, Oslo University Hospital Ullevål, Oslo, Norway

Email: Thomas Kristiansen* - thomas.kristiansen@snla.no

* Corresponding author

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Introduction

Scandinavian countries face common challenges in trauma care. There are suggestions that Scandinavian trauma system development is immature compared to other regions. We wanted to assess the current status of Scandinavian trauma management and system development.

Methods

An extensive search of the Medline/Pubmed, EMBASE and SweMed+ databases was conducted. A wide coverage was prioritized over systematic search strategies. Scandinavian publications pertaining to trauma epidemiology, trauma systems and early trauma management from the last decade were included.

Results

The incidence of severe injury range from 30 to 52 per 100,000 per yr, with about 90% due to blunt trauma. Parts of Scandinavia are sparsely populated and with long prehospital distances. In accordance with other European countries, prehospital physicians are widely employed and studies indicate consequent survival benefits in trauma patients. More than 200 Scandinavian hospitals receive injured patients, increasingly with multidisciplinary

trauma teams. Challenges remain in the prehospital identification of the severely injured. Improved triage allows for better match between patient needs and level of resources made available. Trauma management is threatened by the increasing sub-specialization of professions and institutions. Scandinavian research is leading the development of team- and stimulation-based trauma training. Several pan-Scandinavian co-efforts have facilitated research and provided guidelines for clinical management.

Conclusion

Scandinavian trauma research is characterized by an active collaboration across countries. The challenges met require an increased focus on the role of traumatology within an increasingly fragmented health care system. Regional networks of predictable and accountable pre and in-hospital resources are needed for efficient trauma systems. Successful developments require novel research and scientific assessment of imported principles.