

Oral presentation

Is the sky the limit? Trends in ambulance usage in Sør-Trøndelag County, Norway, from 1997–2007

Andreas J Krüger*^{1,2}, Erlend Sundland² and Sindre Mellesmo^{1,2}

Address: ¹Norwegian Air Ambulance Foundation, Drøbak, Norway and ²Dep. Of Anaesthesiology and Acute Care, St. Olavs Hospital, Norway

Email: Andreas J Krüger* - andreas.kruger@snla.no

* Corresponding author

from Scandinavian Update on Trauma, Resuscitation and Emergency Medicine 2009 Stavanger, Norway. 23 – 25 April 2009

Published: 28 August 2009

Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine 2009, 17(Suppl 3):O30 doi:10.1186/1757-7241-17-S3-O30

This abstract is available from: <http://www.sjtreem.com/content/17/S3/O30>

© 2009 Krüger et al; licensee BioMed Central Ltd.

Introduction

As new treatment protocols and new time-critical interventions are introduced in emergency medicine, the burden on the ambulance system might increase. Insight into operational trends is needed to optimize resource allocation in this service.

Our aim was to examine the frequency of ambulance missions in Sør-Trøndelag County the last decade. Secondly, we wanted to assess trends in classification of urgency, age among patients and gender distribution.

Methods

We did a population-based data registry analysis. From the ambulance database for the county of Sør-Trøndelag data from the years 1997–2007 was retrieved. Missions were stratified by year and classification of urgency (ordinary, urgent and acute). Further, we calculated gender distribution and age averages for each year.

Results

257 089 ambulance missions were identified. Number of missions increased from 19 233 in 1997 to 27 306 in 2007. Population-adjusted numbers revealed the same trend. While number of missions classified as ordinary was almost constant, the increase in total number of missions was attributed to an increase in urgent and acute missions.

Trend in mission frequency is shown in Figure 1 and Table 1 below:

Conclusion

We have documented a large increase of ambulance missions in our county during the last decade. The increase consists of missions classified urgent or acute. As these missions require an immediate dispatch, this increased workload on the ambulance system might compromise patient safety due to lack of available resources. The cur-

Table 1: Age and gender did not change during the study period

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Age*	62	62	62	60	60	60	60	63	63	62	62
% males	50	54	49	49	51	50	49	51	53	53	52

*mean

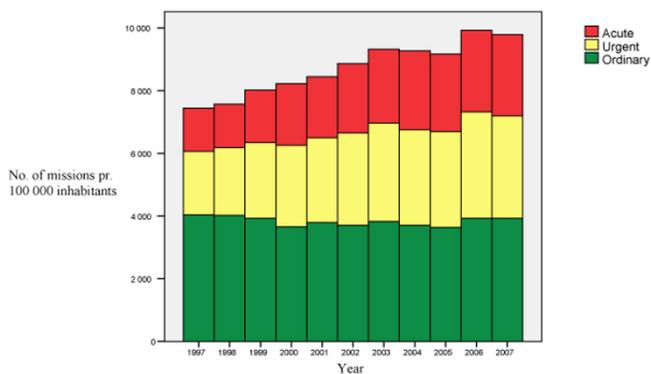


Figure 1

rent study could not assess the reason for this trend. Dispatch criteria, initial medical problem among patients and system factors should be further studied.

Publish with **BioMed Central** and every scientist can read your work free of charge

"BioMed Central will be the most significant development for disseminating the results of biomedical research in our lifetime."

Sir Paul Nurse, Cancer Research UK

Your research papers will be:

- available free of charge to the entire biomedical community
- peer reviewed and published immediately upon acceptance
- cited in PubMed and archived on PubMed Central
- yours — you keep the copyright

Submit your manuscript here:
http://www.biomedcentral.com/info/publishing_adv.asp

