DANSK TIDSSKRIFT

Triage response by two different out-of-hours healthcare services: an observational cohort study

2019 Vol. 2 DEMC8 abstracts

Morten Breinholt Søvsø Centre for Prehospital and Emergency Research, Department of Clinical Medicine, Aalborg University Hejdi Gamst-Jensen Emergency Medical Services, University of Copenhagen Linda Huibers Research Unit for General Practice, Aarhus University Morten Bondo Christensen Research Unit for General Practice, Aarhus University Freddy Lippert Emergency Medical Services, University of Copenhagen Erika Frischknecht Christensen Centre for Prehospital and Emergency Research, Aalborg Universitet

Kontaktinformation e-mail: morten.soevsoe@m.dk

Background: The entry points to Danish acute care are the out-of-hours health care services (OOH) and emergency medical services (EMS). Where EMS is organized in a similar manner throughout Denmark, the OOH is not. Four regions (including the North Denmark Region) have a general practitioner operated service (OOH-GP), whereas the Capital Region of Copenhagen, (Copenhagen) Denmark has the Medical Helpline 1813, (OOH-1813) which is

staffed by nurses and physicians. Nationally, access to out-of-hours healthcare and emergency departments requires referral by one of the healthcare services. The OOH services in the North Denmark Region and Copenhagen handle similar and health problems; patients however, no published research has compared the type of actions performed in response to patient calls. We investigated and compared the type of triage response given by OOH-GP and OOH-1813 to patient contacts in the study period and the proportion of subsequent hospitalization.

Methods: Observational cohort study of patients contacting OOH-GP and OOH-1813 from January

24th to February 9th, 2017. Patients with valid personal identification numbers were included. Primary outcomes were action performed by the call-handler i.e. telephone consultation, face-to-face consultation, home visit and hospitalization within 24 hours. Hospitalization was defined as a hospital stay of \geq 24 hours.

Results: We included 32,489 contacts (OOH-GP: 21,149 and OOH-1813: 11,340 (representative sample)). Calls to the OOH-GP were handled as follows: 67.2% (n=14,214) telephone consultation only, 32.8% (n=6,935) face-to-face consultations including 1,089 home visits (5.1%). In comparison, at OOH-1813, 51% (n=5,763) were handled by telephone consultation only, 49% (n=5,575) were triaged to face-to-face consultation including 38 home visits (0.44%). The differences in triage were statistically significant (p<0.05). Subsequent admissions occurred after 524 (4.6%) OOH-1813 contacts and 798 (3.8%) OOH-GP contacts (OR = 1.22 (1.01;1.27)).

Conclusions: This comparison of OOH-1813 and OOH-GP shows significant differences in the triage responses, among these, notably more face-to-face OOH-1813. consultations at Subsequent hospitalizations were comparable with a small, but statistically significant, overrepresentation among the OOH-1813 cohort. These results could be due to the differences in organizational structure of the OOH or demographics in the two regions (capital vs city-rural), however further research is needed determine this. to