

minimal training of 10 supervised nerve blocks. Brachial plexus, forearm, and lower-limb nerve blocks were performed as deemed necessary. Verbal analogue scale (VAS) was used to quantify pain, before and five minutes after the procedure. The outcomes for feasibility and safety were the percentage of cases in which no further anesthesia was required, the median reduction in VAS score, median time to completion of procedure and the complication rate noted during the procedure.

Results: All procedures were completed without additional anesthesia. The different nerve blocks performed were brachial plexus (20 cases, 71.4%), forearm (3 cases, 10.7%), femoral (2 cases, 7.1%), combined femoral and sciatic (2 cases, 7.1%) and tibial (1 case, 3.6%). Median reduction in VAS score was 7.0 points (interquartile range 6.0, 8.0; $p < 0.001$). The median time to completion of nerve blocks was 5 minutes per patient (interquartile range 2 minutes 25 seconds, 10 minutes 0 seconds). There were no immediate complications noted after the procedure.

Conclusions: Emergency physicians with minimal training can perform ultrasonography-guided nerve blocks safely, quickly and without the need for additional anesthesia in the ED.

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(P2-78) The Unique Role of Emergency Medical Services (EMS) in an Earthquake – A Community Based Approach

E. Jaffe,¹ S. Ben-zvi²

1. Hadas Division, Tel Aviv, Israel
2. Training Department, Tel-Aviv, Israel

Introduction: The goal of most EMS is to provide treatment to those in need of urgent medical care, with the purpose of satisfactorily treating the problem, or arranging for timely removal of the patient to the next point of definitive care. Earthquakes are among the most destructive types of natural disasters, striking suddenly with no accurate method of prediction or warning, thereby taking a heavy toll on life, injury and property. The damage created affects all aspects of the community - transportation, telecommunication, and infrastructure and can easily overwhelm local health services, damage clinics, hospitals and render them useless.

Aim: To review the pertinent literature and to analyze the information in order to set practical guidelines for EMS work in earthquakes with a community-based approach.

Results: Survival of casualties extricated from under the rubble depends upon early medical interventions by emergency teams on site. EMS needs to strive for: • early arrival • early qualified treatment • Earthquakes differ from other disasters, where the system is intact.: early transport and definitive care. • They present a vast number of patients • problems concerning availability of medical personnel, • accessibility to patients, means of transportation & communication.

Conclusions: A routine national community-based approach will strengthen the ability to provide early response in both daily and disastrous events, improving both morbidity and mortality rates. Possibly no immediate definitive care.

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(P2-79) Retrospective Review of Mortality in Patients with Traumatic Brain Injury from Rural India

N. Baisakhiya,¹ A. Agrawal,¹ A. Kakani,² S. Galwankar,¹ S. Dwivedi¹

1. Neurosurgery, Ambala, India
2. Neurosurgery, Wardha, India

Objective: Trauma is one of the leading causes of morbidity and mortality across the world with traumatic brain injury (TBI) being an important cause of trauma related deaths. The aim of our study was to review the medical charts of patients who died within 24 hours of presentation to our Hospital after head injury.

Methods: We received approval from the institutional review board to conduct a retrospective review of patient charts at Acharaya Vinoba Bhave Rural Hospital, in Sawangi (M), Maharashtra (India). All patients who died within 24 hours of the presentation to the emergency department (ED) and had been diagnosed with TBI were included in the study. We collected data from 113 charts between January 2007 and December 2009.

Results: During this three year period, 113 patients died within 24 Hours of admission to the hospital. Of these, 37% (42/113) were diagnosed with (TBI). We conducted a chart review of these 42 patients. All our patients were brought to the ED by relatives or bystanders in non-ambulance vehicles. At the time of presentation to the ED, nearly all patients were normotensive, with only one patient with hypotension The Majority of our patients had a Glasgow Coma Scale of less than 5.

Conclusion: Our study brings to light various deficiencies in rural India, trauma care which include immediate rescue and transportation. Although patients were provided the optimum care in the ED, however it was not associated with favorable outcome. This highlights the need of a Trauma Registry to record real-time data which will help to improve care and systems.

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(P2-81) A Survey of the Health Effects of Bushfire Smoke on Patients Attending Two Sydney Emergency Departments

G.O. Watkins

Emergency Department, Sydney, Australia

The objective of this survey was to investigate the incidence of respiratory symptoms reported by emergency department patients during the Christmas 2001–2002 Sydney bushfire disaster. Two hundred and thirty patients attending two Sydney emergency departments for any reason completed questionnaires regarding respiratory symptoms. The symptoms investigated were cough, shortness of breath, chest tightness and wheeze. The same questionnaire was subsequently administered to a similar control group who were not exposed to bushfire smoke. 51% of those surveyed during the bushfires reported one or more of the respiratory symptoms investigated compared to 31% of the control group. This difference was statistically significant ($p < 0.01$). A significantly higher proportion of respiratory patients in the study group reported an exacerbation of their condition and increased medication use during the bushfires ($p < 0.01$). The results are consistent with other research on the subject and