Dealing with a terrorist attack: a university hospital perspective

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DEALING WITH A TERRORIST ATTACK: A UNIVERSITY HOSPITAL PERSPECTIVE

Muhammad Shahid, Rifat Rehmani and M. Saleem Khan

Terrorist attacks must be dealt as an epidemic globally, as they usually cause multiple injured patients. Pakistan is also a target of such attacks. An explosives-packed car blew up near a bus taking Chinese engineers to work at Gwadar seaport at 8 AM on May 3, 2004. China is a key trading partner and ally of Pakistan and is funding 80% of the port project. This was the first time that Chinese workers have been targeted in Pakistan. Three Chinese were dead while 11 others were seriously injured. The injured were taken to the Gwadar Civil Hospital and later shifted to Aga Khan University Hospital (AKUH) Karachi at 2 PM.

In mass casualty events, the emergency medical services protocols that call for transport of patients in equitable distribution to appropriate centers is easily foiled because of confusion, route obstacles, and difficulty in communication. This was quite evident in New York City on 9/11. The point at which the Emergency Department (ED) becomes overwhelmed often varies according to the time of day, the nature of injuries, and the amount of preparation time prior to the arrival of victims. The Medical and Health Incident Management (MaHIM) System was recently developed as a model for planning a regional response that allows customizable organization of available assets for mass casualty response. Joint Commission on the Accreditation of Healthcare Organizations (JCAHO) requires that member hospitals have a written plan for the timely care of casualties arising from both external and internal disasters, and the hospital must document the rehearsal of these plans. AKUH disaster plan was developed to mitigate confusion and chaos that can paralyze hospital’s response during a disaster and includes common language, defined and predictable chain of management, flexible response, prioritized response, accountability of position function and documentation guidelines for accountability, cost recovery and is activated when multiple patients are received in the ED.

We present an epidemiologic description of physical injuries of the patients who survived the terrorist attack in the context of limited medical resources, and brought to the ED of a hospital. Management of individual patients was reviewed from a pre-printed trauma form. Information on the nature of injuries, operative management and hospital course was recorded and data analyzed using the trauma registry. Trauma teams consisted of faculty and senior residents from Emergency Medicine, General Surgery, Neurosurgery, Orthopaedics and Anaesthesia arrived on time, and the support services performed well. They were divided into four teams consisting of one

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<th>Age (Years)</th>
<th>Laceration</th>
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<th>Ear perforation</th>
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member from each specialty.  

All patients were male and their median age was 32 years. Two patients were unstable; one was intubated in ED and rushed to operating room after initial resuscitation where one patient had tracheostomy, facial laceration repaired, wound debridement of left arm and open reduction and internal fixation of left ulna was done, while the other patient had tracheostomy, exploratory laprotomy with splenectomy and open reduction and internal fixation of left radius and ulna. Nine patients had other injuries (lacerations and fractures). The nature of injuries is given in Table I. The mean length of stay in ED was 135 minutes.  

All the 11 patients transferred to AKUH survived and discharged from the hospital after giving proper treatment. Disaster plan was tested in real-time and worked well on a holiday during rush hours. The relatively small sample size was a limitation in our study. The efficiency and feasibility of this disaster plan to handle a larger number of patients in a similar situation is yet not established, especially in public sector hospitals.

REFERENCES


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