life-saving procedures. The average values of the timetables were: (1) first ambulance: 4.6 minutes; (2) first injured evacuated: 11.5 minutes; and (3) last urgent injured evacuated: 28.3 minutes. In Israel, MDA plays a major role in the medical response to MCIs. The next step is to plan the medical response to mega-attacks by terrorists. To do so, a model terror event was estimated with 1,000 victims: 10% (100) killed, 25% (250) urgent injuries, and the rest (650) not urgent. The main issues dealt with were: (1) the role of EMS in the medical response to mega-attacks by terrorists; and (2) the mode of action of the EMS system.

To recruit national and military medical response to the site of a mega-terror event will take an hour or longer; meanwhile, the EMS personnel will be the only organized responders to this event. If the mega-terror event occurs in a central, urban part of Israel, MDA will be on-scene within one hour with 100 ambulances (15%-advanced life support (ALS)), and more then 200 emergency medical technicians (EMTs) (20%-ALS), and 180-200 urgent-injured will be evacuated from the scene. Major changes in the mode of action of the EMS system responding to such a mega-terror event will be needed, including: (1) On-scene triage and urgent medical procedures will be performed on the ALS level only (mass-casualty incident (MCI)-61% ALS) (ALS level providers will stay on-scene), and ambulance transportation of injured to a hospital will be performed on BLS level (MCI-40% ALS); (2) all the injured triaged as non-urgent (green tag) will not be treated or evacuated by ambulances; instead they will be transported by buses to general hospitals out of the region; (3) treatment will be delayed for those triaged as non-salvageable(expectants); and (4) the distribution of injured to the hospitals will be numerical. No triage to hospitals according to the type of injuries will be performed.

The MDA is now in the process of planning, writing the guidelines, and training the personnel for the medical response to mega-attacks by terrorists.

Keywords: emergency medical services (EMS); events; Israel; Magen David Adom (MDA); response; triage Prebop Disast Med 2005;20(2):s42-s43

Dealing with a Terrorist Attack in Pakistan— A University Hospital Perspective

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Introduction: Terrorist attacks must be handled as a global epidemic, as they usually cause multiple injured patients. Pakistan is a target of such attacks. For example, an explosives-packed car blew up near a bus that was taking Chinese engineers going to work at Gawadar seaport. Aga Khan University Hospital (AKUH) has a disaster plan that is activated when multiple patients are received in the emergency department.

Objectives: To present an epidemiological description of the physical injuries of patients who survived the terrorist attack when limited medical resources were brought to the emergency department of a hospital. Methods: 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 the data was analyzed using the Trauma registry.

Results: Six hours after the incident, 11 survivors were brought to the AKUH. Trauma teams arrived on time and support services performed well. All patients were male, and the median value of their ages was 35 years. Two patients were unstable and were rushed to the operating room after initial resuscitation. Nine had other injuries (lacerations and fractures). The mean length of stay in the emergency department was 135 minutes. All 11 patients were stabilized and discharged from the hospital after treatment.

Conclusions: All 11 patients transferred to the AKUH survived. The hospital's disaster plan was tested in real-time and worked well on a holiday during rush hours. The disaster plan needs to be tested to cope with bigger disasters.

Keywords: disaster plan; emergency department; hospital; Pakistan; terrorist attack

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National Medical Response to Mega-Attacks by Terrorists

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Introduction: During the last four years, Israel has suffered from hundreds of terrorist attacks—63 of which were defined as multi-casualty incidents (MCIs), with the numbers of casualties ranging from 25 to 136 injured per event. The Israeli National Emergency Medical Services is welltrained for the rapid transport of casualties to near-by using a "save and run" method. Unlike MCIs, a megaattack by terrorists could produce hundreds of casualties and easily could overwhelm even an experienced medical system, both at the Emergency Medical Services (field) level and in the receiving hospitals.

Objective: To describe a method for analysis of the national preparedness to mega-attacks perpetrated by terrorists, the expected number and distribution of injuries were matched to the national healthcare capabilities in order to pinpoint the gaps and specify correct solutions.

Methods: A model of 500 casualties from a terrorist, closed-space attack was defined. The numbers of casualties from past MCIs were combined with the number of casualties expected from a closed-space attack. According to the proportions of the types of injuries sustained from past attacks in Israel, the injured people will be assigned as 425 live casualties and 75 dead (500 total). Thirty percent are expected to suffer moderate to severe injuries, and 70% will suffer mild injuries and stress reactions. Of the 425 casualties, 47% will be admitted into hospital wards, 32% into general medical care wards, and 15% will require beds in an intensive care unit (ICU). A total of 10% of the casualties