of both symptomatic patients and asymptomatic, exposed people that need preventive treatment. Emergency departments are the main "sentinels" for the detection of suspected anthrax cases and can be drilled for that scenario in a cost-effective manner.

Objective: To assess level of preparedness of emergency departments for diagnosing respiratory anthrax in a suggestive case and draw attention to pitfalls in the process. Methods: 'Sentinel drills' were performed in 17 out of Israel's 24 emergency departments. Actors were used as patients presenting to the ED with a triad of a febrile respiratory illness, mediastinal widening on x-ray, and information on three other colleagues with the same presenting symptoms. Performance was assessed by the actor (medics and doctors) and a reviewer that accompanied him—a doctor in the field of infectious diseases. Outcome measures were: (1) the inclusion of respiratory anthrax in the differential diagnosis; (2) the interpretation of the patient's xray; (3) the performance of laboratory tests and x-rays; (4) the decision on admission or discharge from the ED; and (5) performing the chain of mandatory reports.

Results: Of the 17 EDs that participated in the drills, 11 included anthrax in their differential diagnosis (65%); 16 decided to admit the patient (95%) for further evaluation; only one decided that the patient could be discharged (5%); and 12 (70%) ordered another chest x-ray. In seven hospitals, the chain of report (ED doctor, infectious disease consultant, hospital management, and regional public health authorities) was performed (40%).

Conclusion: While the vast majority of the EDs will not discharge patients with the suggestive triad described above, only 65% suspected the diagnosis of respiratory anthrax. This means that most cases are likely to be diagnosed in the internal medicine departments causing a delay of 1–2 days in the diagnosis. Patients who have the above triad, should raise the suspicion of respiratory anthrax with the consequent bacteriological tests, consultations, and reports being made from the ED. More guidance and further drills will improve the system's sensitivity for the early detection of respiratory anthrax.

Keywords: anthrax; clinical triad; detection; diagnosis; emergency department; outcome measures; reporting; simulations

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Free Papers Theme 21: Terrorism

Health Center Designated for Mild Casualties in a Non-Conventional Terrorism Scenario

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Introduction: Non-conventional terrorist attacks, such as the sarin gas attack in Tokyo's subway system, may result in a high number of mild casualties, which can overwhelm the health system. A special center designated for patients with mild intoxication, stress reactions, or exacerbation of chronic diseases is a possible solution for this challenge. Objective: To test the rate and quality of the triage of mild casualties into a temporary, mildly injured patient health center placed in a school in a chemical terrorist attack scenario. Methods: The concept of a mild casualties health center (MCHC) in a toxicological (organophosphates) hospital drill involving 350 simulated patients was tested. Two different sites were tested: (1) a triage site, located at the hospital gate; and (2) a mild casualties health center (MCHC) located in a nearby school. A total of 150 patients with moderate to severe injuries, most of them non-ambulatory, were triaged to the decontamination site and into the emergency room (ER). A total of 200 ambulatory patients (mild injuries) were sent to the MCHC, and admitted directly without further triage. Physicians, nurses, and medics performed the secondary triage from the school's classroom to two distinct sites: (1) a mental health site (for stress reactions); and (2) a central medical care site (for patients with deteriorating health). Twenty professional reviewers observed the drill. The rate of entrance and triage both at the triage site and at the MCHC, the suitability of a school building to function as an MCHC, and the appropriateness of the secondary triage of casualties inside the health center all were evaluated.

Results: Triage was quick and efficient. Within one hour, all 350 casualties entered either the hospital or the MCHC. The MCHC was drilled for two hours. There was no bottleneck at the entrance. As for the "secondary triage", 28 patients were sent to the central medical site, 10 of whom were referred to the hospital. Only four of 60 simulated stress patients were sent to the mental care site. Discussion: The combination of a triage unit at the hospital gates and a MCHC at a school building seems a logistically suitable solution for mild casualties in a mass toxicological event. The lack of triage at the entrance to the MCHC is important in order to avoid crowding at the school entrance. However, the secondary triage done in the classrooms was less than optimal. There was an over-triage of deteriorating casualties to the central medical care site, but a clear undertriage of stress reactions. Medical personnel inside classrooms must include psychologists/social workers and a "wandering" psychiatrist in order to improve this diagnosis. Conclusion: The establishment and use of a mild casualties health center (MCHC) is a useful alternative for keeping non-critical patients away from the hospitals during mass toxicological emergencies.

Keywords: assessment; chemical attack; exercise; injuries; mild casualty health center (MCHC); staffing; stress reactions; triage

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