Method: Little evidence-based literature is available concerning the mean ratio of T1:T2:T3:T4 resulting from triage of real casualties in the CEP-missions in Germany. A review of 528 CEP-missions from six rescue districts was conducted to evaluate the average number of patients in CEP missions, and to make an estimate of the Severity Index (SI) of the missions based on the results, according to the four categories of triage (red, yellow, green, black). As calculated from De Boers Formula, SI = (T1 + T2)/T3, the mean SI of a subgroup of the Bavarian CEP missions (January 1996–August 2004) was determined in order to obtain an impression of what has been occurring relative to mass-casualties in the country, and to develop an estimate of the potential for major hazards in the reported area and time corridor.

Results: In the 528 CEP missions reviewed, a total of 3,136 patients were treated. Another 3,080 people had been involved without requiring more help than advised (bystanders involved). The red:yellow:green:black ratio resulting from the >500 missions with a average of six patients was: 27.2:20.6:51.3:2.6 (%), which can be simplified to 1:1:2:2.5 (%). The average of the SIs resulting from these figures was 0.93 for the >500 missions.

Conclusion: The CEP system implemented is working in this area, since the average of the SIs is below 1.0. The main hazards causing these CEP-missions, according to the Utstein Style, will be discussed according to the incident frequency. Correlating studies with other regions have been planned to verify that the average incidence for CEP-missions is about one mission per month in an area with about 1,000,000 inhabitants.

Keywords: Bavaria; coordinating emergency physician (CEP); Germany; missions; severity index; triage Prebosp Disast Med 2005;20(2):s25-s26

Prehospital Emergency Medical Service Systems in Portugal

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In Portugal, the prehospital emergency medical service system (PEMSS) is coordinated by the National Institute of Emergency Medicine (INEM). The INEM is a governmental organization directly dependent on the Ministry of Health. The PEMSS currently is accessible to the majority of the population. Portuguese prehospital emergency systems engage doctors in every step of the chain of care.

The aim of this presentation is to describe the Portuguese system and to overview the involvement of medical services in the system.

The INEM is divided functionally into four regional centers (Porto, Coimbra, Lisboa, and Faro), each with a dispatch center (CODU), which runs the PEMSS. Every 1-1-2 (emergency) call concerning health problems is transferred to to CODU. There is a medical doctor in the CODU 24 hours a day. In each region, there are hospital-based rapid intervention vehicles (VMER), staffed with a medical doctor and nurse. Approximately ten million people (83% of

the population) have direct access to the PEMSS. Altogether, the four CODU receive a mean of 2,750 calls a day. There are 27 VMER in the country (nine in Porto, eight in Coimbra, eight in Lisboa, and two in Faro). Each VMER is equipped with advanced life support (adult and pediatric) and trauma life support equipment. The team is composed of a nurse and a medical doctor with education and experience in emergency medicine. The VMER had 1,906 services per month in the first six months of 2004. The CODU also dispatches all the ambulances of the enclosed area. Between January and July 2004, the CODU dispatched 188,220 ambulances. There are also two medical helicopters, one in Porto and one in Lisboa. The helicopters are designed to assist victims in the field and/or to transfer emergency patients between hospitals. The composition of the team and the available equipment are similar to the VMER. Besides dispatching, the CODU also has the obligation to direct victims to the appropriate, available hospital. Furthermore, the hospital preparation to take delivery of the victim should be triggered by the CODU.
Keywords: dispatch center (CODU); National Institute of
Emergency Medicine (INEM); Portugal; prehospital emergency medical service system (PEMSS); rapid intervention vehicles (VMER)

Prehosp Disast Med 2005;20(2):s26

Free Papers Theme 9: Emergency Medical Services System Design– Specific Issues

Infrastructure of a Level-One Trauma Center for Mass-Casualty Incident Due to Conventional and Unconventional Weapons: Sharing Drill among National Agencies

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Mass-casualty incidents (MCIs) create challenges for medical response in the field and in hospitals. MCIs due to weapons of mass destruction and disasters involving terrorism require cooperation among all agencies involved with MCIs (e.g., police, firefighters, emergency medical services, Army Medical Corps, Home Front Command, and the Ministry of Health). A well-organized incident command system can help all involving agencies provide the best quality of services in order to save lives in such an event.

Unfortunately, the security situation in Israel has provided training in how to deal with MCIs. Tel Aviv Sourasky Medical Center (TASMC) had a significant experience with the management of MCIs. Nevertheless, Israel's experience is related to MCIs caused by conventional weapons. Yet, since the real threat also includes unconventional weapons of mass destruction, hospital preparedness always included decontamination and medical care for chemical weapons.

In the November 2004 MCI Drill, which involved conventional and unconventional weapons took place in the area of Tel Aviv. It was the first MCI Drill related to the compound situation that was performed in Israel and