

treats 50,000 trauma cases annually. The HemCon Bandage is a hemostatic dressing made of chitosan, a natural substance that adheres when in contact with blood. This is a preliminary report to determine the hemostatic effectiveness of HemCon Bandages used in a civilian EMS system. **Methods:** HemCon Bandages were added to 65 advanced life support (ALS) ambulances in August 2006. Paramedics received written and multimedia instructions for use. The dressing was indicated in all trauma cases of moderate to severe bleeding. Hospital emergency rooms were notified and provided removal instructions. Data collection and analysis was done by the Medical Division. **Results:** HemCon Bandages were used on five males and three females, average age 30 years (ranged 4–75 years). Of the eight cases, three were penetrating injuries and 5 were blunt injuries: gunshot (1), knife stab (1), shrapnel (1), road accidents (4), and falls (1). Three wounds were arterial, four massive venous and one laceration. Location of the bleeding was on the skull (2), neck (1), groin (1) and lower extremities (4).

In all eight cases, HemCon Bandages were effective and provided control of the bleeding within 3–5 minutes. In two cases, direct pressure and tourniquets were used and failed; the HemCon Bandage stopped the bleeding in both cases.

**Conclusions:** This data indicates that the use of the HemCon Bandage may be a useful tool to stop massive external bleedings by EMS teams.

**Keywords:** emergency medical services; HemCon® bandage; Israel; prehospital

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### (88) New Horizons in Ventilatory Support for Disasters

*M. Lynn*

University of Miami, Miller School of Medicine, Miami, Florida  
USA

One of the characteristics of mass-casualty incidents is that an insufficient number of personnel available to provide medical care to a large number of victims. Recommendations of the Society of Critical Care Medicine for mass ventilatory support include the provision of ventilation, cardiac, and pulse oxymetry monitoring, and medical documentation. Plans for mass ventilatory support must be versatile and cost-effective.

“Disaster ventilators” must be promoted for daily use in intensive care units and, at the same time, be portable for use at alternate sites of care, as well as during transport; yet, duplication may be associated with prohibitive costs. Another important feature of a disaster ventilator is its simplicity, so that personnel without critical care training can operate it.

A variety of available ventilators provide adequate ventilatory support. Nevertheless, additional equipment, which must be operated by expert personnel, is required to provide monitoring.

A new ventilator is now available. It is a complete, intensive-care ventilator, but at the same time, it may be operated by non-expert personnel; it is portable and can be used at alternate sites and during transport; it includes pulse oxymetry and capnography, and can therefore, provide continuous patient monitoring. It also provides documentation due to its capability for storing physiologic data.

These features make this ventilator a versatile and cost-effective solution for mass ventilatory support.

**Keywords:** disaster ventilators; mass-casualty incident; medical documentation; oxymetry monitoring; ventilation

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### (89) Recent Plane Crashes and Other Mishaps in the Federal Capital Territory

*M.A. Oke*

Agriculture and Rural Development, Nigeria

Air travel is the fastest means of transportation. However, it also can be dangerous if the necessary precautions and air traffic regulations are not taken into consideration.

The Sosoliso-Airline crash that killed 108 persons resulted into a doomsday in Nigeria. Factors that contributed to the crash included poor visibility, poor airline management, wind sheer, and problems resulting from the age of the aircraft.

Sosoliso Airline is planning to phase out its DC-9 aircraft and replace them with MD-805 aircrafts. It also is preparing for an international operating safety audit of aircrafts.

This paper provides the information about the recent plane crashes in the Federal Capital Territory (Nigeria), including: (1) how the events affected the economy of the country; (2) the need for management to access information; and (3) the need for analysis and dissemination, policy development, problem-solving, and commerce development of the various airlines in the country.

**Keywords:** airlines; disaster; airplane crash; Nigeria; policy

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### (90) Belgrade Emergency Medical Services Experience with Triage

*J.B. Josifovski*

Municipal Institute for Emergency Medical Service, Belgrade, Serbia

There are three stages involved in the triage process: (1) call is made to the “9-4” emergency phone line; (2) the call is transferred to the dispatch center; and (3) personnel are sent to the place of the emergency. Good triage parameters established at Belgrade EMS include: (1) response time; (2) intervention time; (3) ratio of the number of definite interventions and the number of patients recovered on-scene; (4) ratio of the number of patients transported to hospital and the number of patients hospitalized; (5) concordance between the initial and final diagnoses; (6) number of interventions performed in response to the diagnosis; and (7) ratio of the number of successful resuscitations to the total number of resuscitations performed.

In comparison with the results from the 2005 Annual Belgrade Emergency Medical Services (EMS) Performance Report, in 2006, the EMS response time is significantly faster and the intervention time is shorter, while the quality of interventions as well as other parameters improved. A larger number of patients were stabilized on-scene and a larger number of patients were hospitalized compared to the total number transported to hospital. There also was a higher degree of concordance between initial and final (hospital) diagnosis. The number of successfully performed resuscitations compared to the total number of commenced resuscitations also was significantly higher in 2006.