

# PREHOSPITAL and DISASTER MEDICINE

The Official Journal of  
The World Association for Emergency and Disaster Medicine (WADEM)

NOW in its *Fifteenth* Volume  
is the  
ONLY Peer-Reviewed Medical Journal *DEVOTED*  
to the publication of  
Disaster and Humanitarian Medicine Research and Education

The principal mission of *Prehospital and Disaster Medicine* (PDM) is the distribution of information relevant to the practice of out-of-hospital and in-hospital emergency medical care, disaster medicine, and public health and safety. PDM provides an international forum for the reporting and discussion of scientific studies, both quantitative and qualitative, that have relevance to the above practices. Its major objectives are: 1) the improvement of the types and quality of the care delivered to patients with perceived medical emergencies and to victims of multi-casualty accidents or disasters, including the public health and safety aspects of such events; and 2) the prevention and/or mitigation of the occurrence of such events and of the effects of these events upon the human population and environment.

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American College of Emergency Physicians  
Association de Medicine Liberaux Sapeur  
International Society of Disaster Medicine  
Japanese Medical Team for Disaster Relief  
Mediterranean Club for Burns and Fire Disasters  
Nordic Society for Disaster Medicine  
Pan American Association for Disaster and Emergency Medicine  
Society for Academic Emergency Medicine  
Society of Emergency Medicine-Singapore  
Swedish Society of Disaster Medicine

Visit the PDM Web Site: <http://pdm.medicine.wisc.edu>

Please send inquiries to: Marvin L. Birnbaum, PhD, MD, Editor, *Prehospital and Disaster Medicine*,  
Clinical Science Center, 600 N. Highland (E5/615), Madison, WI 53792, USA;  
Telephone/Facsimile (01) (608) 263-9641;  
E-mail: [mlb@medicine.wisc.edu](mailto:mlb@medicine.wisc.edu)

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*Internet*

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**Current Contents:**

**Easy Search of Contents: Volumes 10 (1997) through Current Issue**

**Abstracts**

**Volumes 10 (1995) through current issue**

**10th and 11th World Congress on Disaster and Emergency Medicine,  
III Nordic Congress on Emergency and Disaster Medicine, Kuopio,  
Finland, 1998**

**Editorials**

**Glossary of Definitions**

**Health Disaster Management: Guidelines for Evaluations and Research**

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**Links to other relevant web-sites**

**Make the PDM Home Page your point of reference for Science  
and Information about  
Prehospital, Emergency, Disaster, and Humanitarian Medicine**

**Suggestions ARE Welcome**

*Supported in part by the:*

**Laerdal Foundation for Acute Medicine, Stavanger, Norway**

and

**Department of Medicine, University of Wisconsin-Madison  
Madison, Wisconsin USA**

## **Prehospital and Disaster Medicine Calendar of Events**

### **21–24 March 2000**

20th International Symposium on  
Intensive Care and Emergency  
Medicine  
Congress Center  
Brussels, Belgium

### **24–25 March 2000**

American Society for Testing and  
Materials (ASTM)  
Committee F-30 on Emergency  
Medical Services  
Orlando, Florida USA

### **22–26 March 2000**

The JEMS Conference  
18th Annual EMS Today 2000  
Conference & Exposition  
Orlando, Florida USA

### **27–29 March 2000**

2000 National Congress on Child-  
hood Emergencies  
Omni Inner Harbor Hotel  
Baltimore, Maryland USA

### **28–30 April 2000**

Pediatric Critical Care Medicine  
2000  
Hilton Crystal City  
Arlington, Virginia USA

### **29 April–03 May 2000**

2000 National Disaster Medical Sys-  
tem Conference  
Alexis Park Hotel  
Las Vegas, Nevada USA

### **04–07 May 2000**

8th International Conference on  
Emergency Medicine  
Emergency Medicine in the Third  
Millennium  
Westin Copley Place  
Boston, Massachusetts USA

### **22–24 May 2000**

2nd Pan-American Congress for  
Disaster and Emergency Medicine  
Mexico City, Mexico

### **10–14 June 2000**

The Changing Tide of Emergency  
Medicine  
Canadian Association of Emergency  
Physicians  
Saint John, New Brunswick Canada

### **19–22 June 2000**

AIRMED 2000  
Aeromedical World Congress  
Stavanger, Norway

### **25–28 August 2000**

Fire-Rescue International 2000  
International Association of Fire  
Chiefs  
Dallas, Texas USA

### **30 August–02 September 2000**

4th Nordic Congress on Emergency  
and Disaster Medicine  
Copenhagen, Denmark

### **05–10 September 2000**

1st National Conference on Disaster  
and Military Medicine  
Portoroz, Slovenia

### **27–30 September 2000**

5th Asia-Pacific Congress on Disas-  
ter and Emergency Medicine  
Vancouver, British Columbia, Cana-  
da

### **09–12 May 2001**

12th World Congress on Disaster  
and Emergency Medicine  
World Association for Disaster and  
Emergency Medicine  
Lyon, France  
For more information,  
email: WCDEM2001@aol.com,  
fax: 33 (0)4 72 60 92 89  
or write:  
WDCEM 2001  
1 rue de la Banniere  
69003 Lyon France

### **Various dates 1999–2000**

Trauma and Critical Care Seminars  
International Trauma Anesthesia &  
Critical Care Society (ITACCS)  
Various locations

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# **Prehospital and Disaster Medicine on the *Internet***

## **Visit the PDM Home Page**

# **<http://pdm.medicine.wisc.edu>**

# Announcement and Call for Abstracts

2nd Pan-American Congress  
for  
Disaster and Emergency Medicine  
(Medicina Catástrophes y de Emergencia)  
of the  
World Association for Disaster and Emergency Medicine  
(WADEM)

22–24 May 2000  
Mexico City, Mexico

under the auspices of the  
Pan-American Health Organization (PAHO)  
Mexican Social Security Institute  
Mexican Academy of Surgeons  
Mexican Society of Emergency Medicine  
Mexican Association of Trauma Surgery  
Mexican Chapter of the American College of Physicians  
Mexican Association of Critical Medicine and Intensive Care

*Programme will include:*

Disaster Medicine, Prehospital Emergency Medical Services, Emergency Medicine, Role of Nurses in Emergencies, Critical Care Medicine and Nursing, Trauma Management, and Pre-Congress Workshops

Abstracts should not exceed 250 words and should be submitted in English (or Spanish) to: Prehospital and Disaster Medicine, E5/613 Clinical Sciences Center, 600 North Highland Avenue, Madison, WI 53792 USA

or E-mail as an attachment to: [mlb@medicine.wisc.edu](mailto:mlb@medicine.wisc.edu)

Discounted Fees for Preconference Courses and Congress for members of WADEM or above noted organizations and for early registration (before 31 December 1999). For more information and registration materials, see <http://pdm.medicine.wisc.edu>.

**Fifth Asia-Pacific Conference on Disaster Medicine  
Vancouver, British Columbia, Canada  
27–30 September 2000**

*A Project of Asia-Pacific Conferences on Disaster Medicine*

**A conference and exhibition on  
emergency medicine and disaster management:  
Working together in response to disasters.**

**Mission**

Provide a professional forum to explore disaster management techniques and to discuss emergency medical methods, models, and technologies

**Conference Themes**

- Sharing International Experiences in Disasters
- Application of International Standards to Disasters
- Sharing Pacific-Rim Disasters
- Effective Models for Medical and Health Responses
- Disaster Coordination and Management
- Multidisciplinary Team Interactions: Issues and Potential Solutions
- Telehealth and Communications Technologies in Disaster Medicine
- Education Issues in Disaster Medicine

**Additional Topics**

- Shifting Gears in Medical Management from Normality to Crisis
- Medical Perspectives from Bosnia
- Dealing with Pandemics
- Landmines and NBC
- Use of Multidisciplinary Teams for Response and Recovery
- Medical Responses During APEC
- Mental health Support to Kosovar Refugees
- Heroism vs Professionalism in Disaster Rescue
- Preconference Workshops and Tours

**Free Papers and Posters**

**Exhibitions of Products and Services**

**And More!!!**

**Visit our Website for more information and registration at:  
<http://www.safety.ubc.ca/5apcdm/index.html>**

# **1st national conference on disaster and military medicine**

Portoroz, Slovenia  
06-09 September 2000

## **Program Tracks**

**Disaster Medicine - Organization**

**Refugees**

**Major Incidents**

**Earthquake**

**Civil-Military Co-operation**

**Peacekeeping Operations**

**Tactical Medicine**

**Chemical Warfare**

**Biological Warfare**

**Terrorism**

**EMS in the 21st Century**

**Military Medical Corps in the 21st Century**

## **Registration**

Ms. Alenka Kregar, Conference Secretariat

CANKARJEV DOM

Conference and Cultural Centre

Presernova 10, SI-1000 Ljubljana, Slovenia

Tel: +386 61 1767133; FAX: +386 61 217431

E-mail: alenka.kregar@cd-cc.si

## **Organized by:**

Ministry of Health of the Republic of Slovenia  
Ministry of Defense of the Republic of Slovenia  
Joint Medical Committee (NATO)

# 1st CALL FOR ABSTRACTS

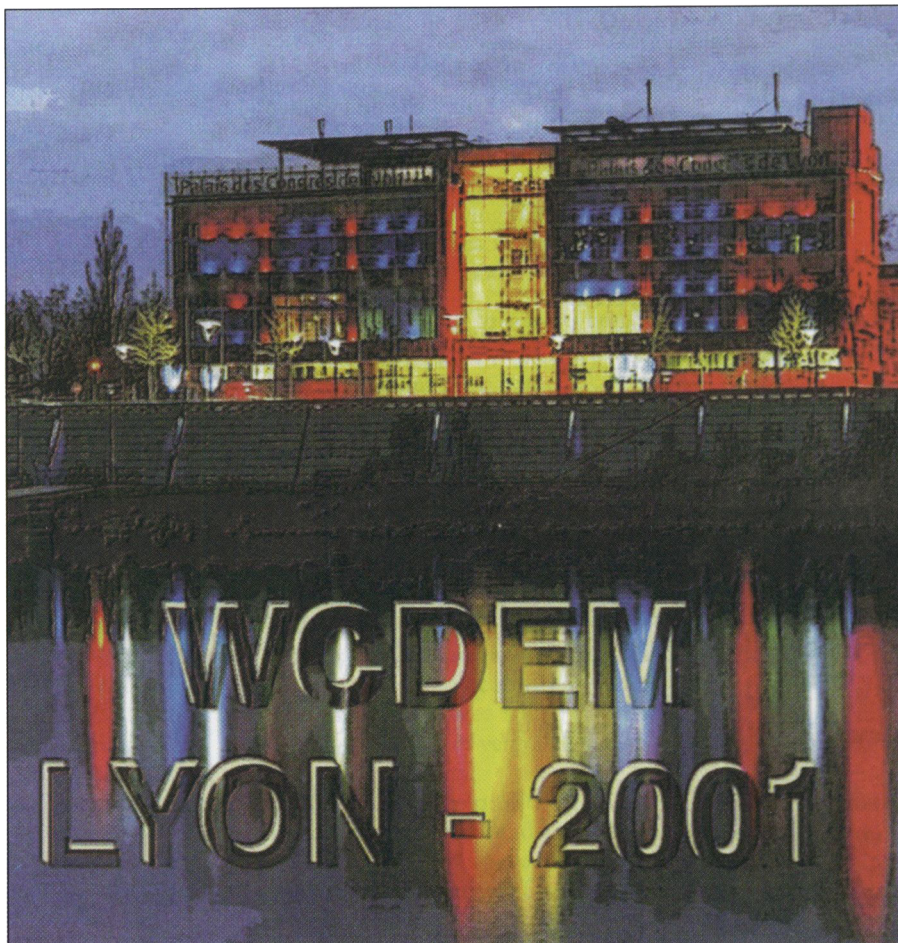
12th World Congress

on

Disaster and Emergency Medicine

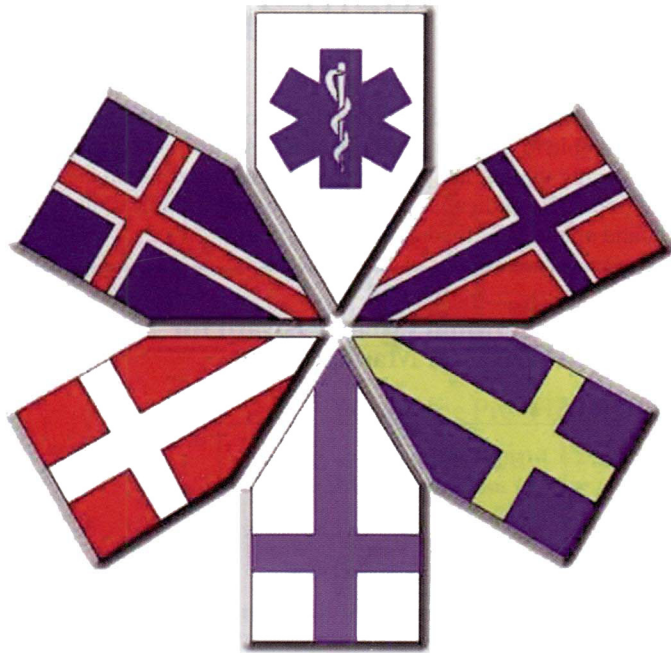
09–12 May 2001

LYON, FRANCE



VISIT OUR WEBSITE FOR DETAILS

[www.wcdem2001.org](http://www.wcdem2001.org)



# The Fourth Nordic Congress on Disaster and Emergency Medicine

**Copenhagen, Denmark  
30 August–02 September 2000**

## Programme includes:

- ◆ Train accident in London 1999
- ◆ Steiper Catamaran Ferry Shipwreck
- ◆ Train Collision at Rena (Asta) in Norway in 2000
- ◆ The Bridge between Malmö and Copenhagen
- ◆ Guidelines for Evaluation and Research
- ◆ Risk Assessments
- ◆ Psychosocial Aspects of Disasters
- ◆ International Health Support and Disaster Management
- ◆ Rescue Services
- ◆ The Göteborg Fire

## Workshops include:

- ◆ MUSTER (new interactive training program)
- ◆ Trauma Simulator
- ◆ Emergency Exercise at the Bridge
- ◆ Exercise for Management of Automobile Accident

## Free Papers and Posters Exhibits

For Further Information and  
Registration Materials  
Visit our Website:

<http://www.disastermedicine.suite.dk>





“By nature, people are pretty much the same, it is learning and practice that sets them apart.”

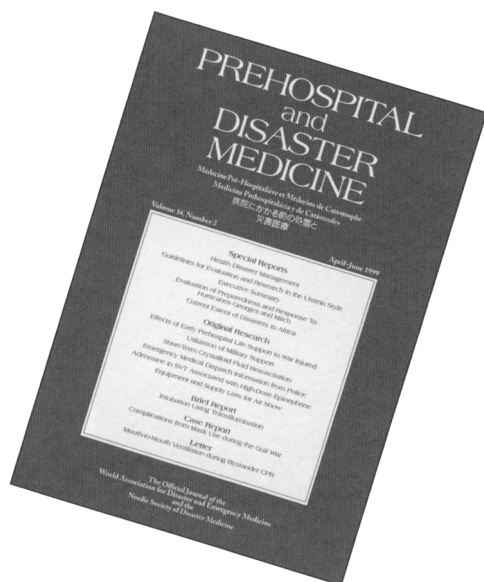
-Confucius

The World Association for Disaster and Emergency Medicine (WADEM) shares the common goal of improving and standardizing the quality of prehospital and emergency care that is available to citizens of all nations. WADEM is dedicated to the ideals of Learning and Practice through a commitment to publishing the journal, *Prehospital and Disaster Medicine*.

WADEM also recognizes the organizations that have shown commitment and dedication in the fields of public education, continuing medical education, scientific research, and analyses of medical field practices.

## Prehospital and Disaster Medicine (PDM)

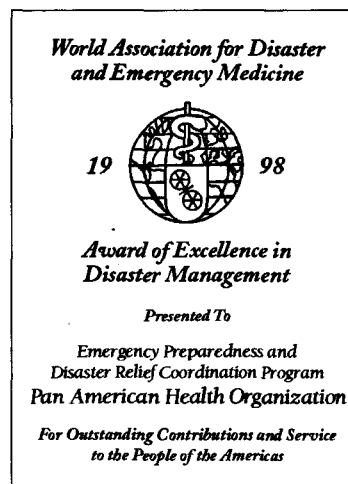
PDM is the only internationally-focused, peer-reviewed journal that provides information about meeting the unforeseen challenges encountered in Prehospital Care and Disaster Management. Each issue contains scientific papers written by leading professionals and educators from around the world.



### PDM Features:

- Original Research
- Special Reports
- Comprehensive Reviews
- Case Reports
- Calendar of International Congresses

## International Quality Award for Disaster Management



WADEM promotes the worldwide development and improvement of Emergency and Disaster Medicine, though the:

### INTERNATIONAL QUALITY AWARD FOR EXCELLENCE IN DISASTER MANAGEMENT

The Award recognizes organizations that are Committed to quality in Disaster Management.

Complete information available for the

## 12<sup>th</sup> WORLD CONGRESS

on

## Disaster and Emergency Medicine

in

## Lyon, France

## May 9 - 12, 2001

Inquiries to:

Marvin L. Birnbaum, PhD, MD, Clinical Science Center, 600 N. Highland (E5/615), Madison, WI 53792, USA;  
Telephone/Facsimile (01) (608) 263-9641;  
E-mail: mlb@medicine.wisc.edu

# POLYSAFE SAFETY BOX & INCINERATION CONTAINER

*for safe and easy handling and destruction of used syringes and needles.*



Shipping carton of 25 flat packed PolySafe 5 Safety Box and Incineration Container. Weight approximately 9 kg.

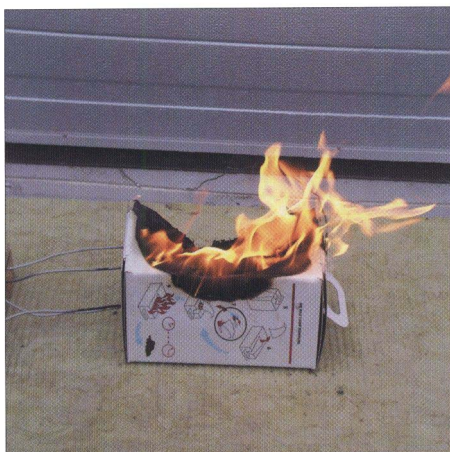
All major substances of *PolySafe* are chlorine free organic materials, such as recycled and virgin wood fibres derived from pulp obtained from fast growing Nordic forests. No harmful substances emitted into the air.



One *PolySafe 5* takes over 100 used syringes with needles and caps.



## BIOHAZARD



3 minutes after ignition:  
340 C/644 F

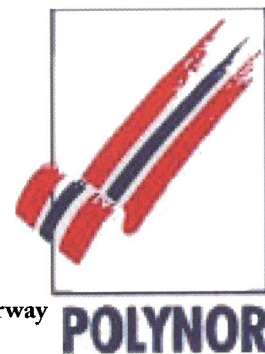


20 minutes after ignition:  
618C/1144F

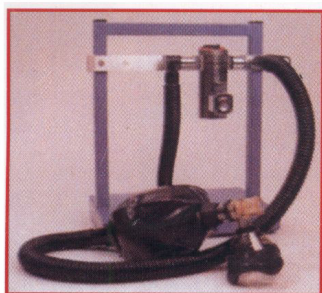
**References**  
WHO PIS CODE E10/14.  
NSN 6530-01-460-4782

- Withstands rough handling in transit and in the field.
- The insides of the boxes absorb drops of fluid.
- To be ignited by match or cigarette lighter or burnt in an incinerator. Normal incineration time when individually burnt outdoors 20-45 minutes. Max. temperature at approx. 800° C/1472F ensures complete decontamination leaving a little ashes and metal only.
- Effective also in heavy rain, snow and on ice.
- Long shelf life proven in temperatures between -30° C/-86F to + 40° C/104F.
- The middle of the front panel can be printed according to customer specifications ,e.g. organization, sponsor and donor logos etc.
- Mill EN-ISO 9001 certified.
- Light weight/low volume logistics: 25 boxes of 5 ltr flat packed into a 22 ltr shipping carton, which can be used for the incineration of lightly soiled medical waste.

Tordenskjold 13-15, P.O.B. 13, N-2801 Gjøvik, Norway  
Telephone: +47 61 13 89 30 Fax: +47 61 13 89 40  
<http://www.polynor.no/>

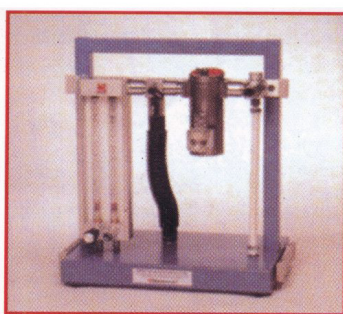


# EQUIPMENT FOR FIELD HOSPITALS



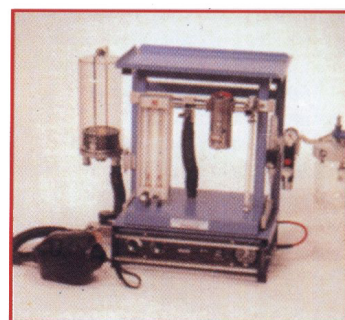
## Anaesthesia Machine MP-1

This model is designed for use with a "Draw-over" patient system. By using a resuscitator, ambient air is drawn through the vaporizer and to the patient. It also is possible to use oxygen from an oxygen concentrator.



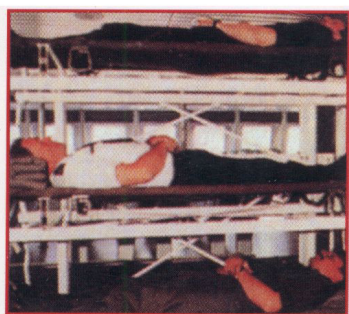
## Anaesthesia Machine MP-2

This is a MP-1 with flowmeters for O<sub>2</sub> and N<sub>2</sub>O, as well as an O<sub>2</sub> flush value added. The MP-2 works on the same principles as anaesthesia machines found in most hospitals. It can be used as a "Draw-over" machine if the oxygen supply fails.



## Anaesthesia Machine MP-3

This is a MP-2 with a ventilator, suction, and bag-in-a-bottle system added – a very sophisticated machine. The MP-3 also can be used as a "Draw-over" machine similar to the MP-1 and MP-2.



## NorHosp Stretcher Racks

For use in aircraft, trains, buses, vans, and on-board ships. The rack system is manufactured from special aluminum profiles designed to provide maximum strength and a minimum weight. The rack system makes it possible to place up to 3 stretchers above each other.



## NorHosp Stretcher System

The NorHosp stretchers are stable and easy to carry. The stretcher is made of aluminum sections and a tough tarpaulin material that allows passage of x-rays. The stretcher can be supplied with short or long legs, with or without wheels. The flexibility and high quality make the NorHosp stretcher unique.



## Heatpac Heating System

Heatpac is a charcoal-based, hot-air generator that serves as a personal heater. The system has been purchased by military forces around the world. It also is well-suited for civil defence and rescue organizations. A rescue-bag, infusion sleeve, medical storage container, and thermal boots can be added to the system.

## NORWEGIAN MOBILE HOSPITALS AND DISASTER UNITS

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