



**RAMBAM**  
Health Care Campus  
Creating the future of medicine.

Learn  
and Prepare

[www.rambam.org.il](http://www.rambam.org.il)



Teaching  
Center  
for Trauma, Emergency,  
and Mass Casualty  
Situations (MCS)



Course members from Uruguay, Peru, Nepal, and Kenya participating in a simulation to treat an injured pediatric patient.

# experience

▶ “Nothing ever becomes real ’till it is experienced.”

- John Keats 1795-1821

***The State of Israel is one of the few countries that has had over 60 years to prepare its health care system to deal with a variety of mass casualty situations.***

Rambam’s experience has dramatically contributed to the body of knowledge related to trauma, emergency, and mass casualty situations. This has been translated into lifesaving results—Rambam’s mortality rate for severe trauma patients is the lowest in the country.

Established  
1999

The Teaching Center for Trauma, Emergency, and Mass Casualty Situations (MCS) was established in 1999 with the goal of sharing Rambam’s accumulated knowledge with other health care professionals in Israel and worldwide—to save lives.





Discussion group in India: Dr. Moshe Michaelson with Gila Hyams, Director of the Teaching Center

# expertise

## ► “scientia potentia est” (Knowledge is power)

***The new millennium began with a reminder that terrorist attacks and mass casualty situations can occur anywhere—no one is immune. Recent years have seen terror, natural disasters, and mass casualty events affecting countries worldwide. Thousands of people have been killed and injured. Such events are no longer a question of ‘if’ but of ‘when.’***

Rambam Health Care Campus fulfills a unique role in Northern Israel as the largest academic tertiary referral center in the region and its only Level 1 Trauma center.

The Teaching Center for Trauma, Emergency and MCS offers an educational program aimed at all professionals who are involved in the organization and treatment of mass casualty incidents: pre-hospital forces, hospital staff, physicians, nurses, and administrators. Training programs are tailored to the needs of each organization. Trainees—to date more than 3,500 from 61 nations—have gained practical knowledge that is brought back and implemented in their own institutions and nations.

# International

To date, over 3,000 participants from 61 countries have been trained by our team in Israel or a host country.

## Developing and Organizing a Trauma System and Mass Casualty Management Course

This course is targeted towards physicians, nurses, and paramedics involved in the organization and treatment of trauma victims. The course includes visits to other Israeli

trauma units, pre-hospital facilities, an IDF Medical Corps facility, and includes a mass casualty table top drill.

### Course Objectives:

- Comprehending the continuity of trauma patients treatment in a trauma system, and the structures involved in various phases of treatment
- Developing a model of a trauma system
- Mass casualty preparedness

## Workshops and Conferences on Organization for Mass Casualty Situations

International workshops and conferences are provided in host countries on a variety of related topics, including:

- National and Regional Trauma System
- Mass Casualty Situations (MCS)
- Pre-hospital in MCS and Medical Management
- Triage
- Injury Patterns in Different Scenarios
- Medical Care
- Debriefing after Actual Events
- MCS Training Methods
- Planning for Drills
- Debriefing after Drills
- Mega MCS
- Pediatric MCS
- CBRN (Chemical, Biological, Radiological, Nuclear) MCS
- Quality Assurance in Trauma and MSC



Simulated treatment of a trauma patient during an international course with participants from Kenya, Burma, Nepal, Chile, and Vietnam.

## Seminars

Short seminars are offered to smaller groups (15-20) from around the world. Topics include "Trauma Systems" and "Mass Casualty Preparedness." Participant are given an in-depth tour of the hospital including Rambam's new Shock Trauma Room which has

become the gold standard for Israeli hospitals, facilities designed for mass casualty preparedness, and the new 2,000-bed Sammy Ofer Fortified Underground Emergency Hospital (the largest of its kind in the world).



## Israeli Trauma Mass Casualty Nursing Course

The goal of the Israeli Trauma Mass Casualty Nursing Course (ITMCNC) is to expand and promote the knowledge of nurses who treat injured patients in the Emergency Department (ED) and the recruited nurses who are called upon to re-enforce the ED during mass casualty situations. The course is conducted in collaboration with the

Israeli Trauma Society and is the first in the world dedicated to training nursing teams in an advanced trauma MCS course. Nurses complete the course with knowledge and practical strategies for treating injured trauma patients during peacetime, wartime, and mass casualty situations.

### DSTC™



The DSTC™ (Definitive Surgical Trauma Care Course) is designed for surgeons and surgical trainees. The course teaches special surgical trauma techniques

particularly applicable to patients requiring surgery and intensive care as the result of a major traumatic injury in a setting where such care is not commonly practiced or even available.

\* Availability of English is dependent on class size

To date, more than 380 nurses and doctors from 25 hospitals in Israel have participated in these courses.

The course includes lectures and technical skills labs. It is conducted in cooperation with the Israeli Trauma Society and the International Association for Trauma Surgery and Intensive Care (IATSIC).

## Israeli Pediatric Trauma Mass Casualty Life Support Course

The I.P.T.L.S. course is the first of its kind in Israel. The goal of the course is to gain advanced hands-on experience in the principles of resuscitation and stabilization of injured children treated in the Emergency Department and to practice the treatment modalities for injured children in mass casualty situations.

The course is designed for physicians and nurses working in various units such as general surgery, pediatric surgery, pediatrics, and emergency departments. It is also aimed at physicians on air-med evacuation teams, paramedics, adult and pediatric emergency department nurses, and nurses who back up the trauma unit and the ED during mass casualty situations.



Participants and lecturers at a MCS workshop held in Chile in 2010.

# Advanced Training

## NATO Advanced Research and Training Workshops

As part of their commitment to help countries prepare for MCS, the teaching center has conducted workshops that were supported by the NATO Science for Peace and Security (SPS) Program. The workshops dealt with MCS preparedness,

educating and training teams, and the operation of health systems under extreme circumstances. Participants from NATO countries and NATO partner countries have attended these workshops.

### **November 2014:**

#### **NATO Workshop on Hospitals Under Fire:**

Planning and Operating a Tertiary Hospital Under Fire and Extreme Circumstances

### **November 2009:**

NATO Workshop on Best Practices Training for Mass Casualty Situations

### **April 2005:**

NATO Workshop on Pre-Hospital and Hospital Preparedness for Conventional and Toxicological MCS

A total of 94 participants from 24 countries have attended the 2005, 2009 and 2014 NATO workshops



## Observerships

Observership programs are available for varying lengths of time. These programs offer physicians and nurses basic to advanced training in the management and handling of trauma and mass casualty situations. Participants attend morning and afternoon rounds in assigned wards. During their Observership, attendees are required to give a case study presentation and a formal summary of how they will take the knowledge gained and utilize it for change in their own institute.

To date 13 nurses and doctors from 10 countries have completed Observership programs.



An international student during outdoor team training.



**RAMBAM**HCC *healing since 1938*

***“We received from you the key to open the door for new management of trauma in our country.”***

– Daniel, Kenya

***“We were very touched by the warmth of the welcome, the willingness to share your experience and expertise, the discipline and organization, the attention which we were given have all been a wonderful experience. What has impressed us most is the willingness to share with the rest of the world what you have learned through adversity, to help other people live again. Yes, this is what the rest of the world needs: more people willing to share what they have for the good of all humanity.”***

– Vijay, India

**The teaching center is dedicated to the memory of the victims of mass casualty situations worldwide**



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