RAPID THERAPEUTIC COOLING
WITH...

Applications in:
• Ambulances
• Fire Trucks
• Hospitals
• HAZMAT Trucks
• Military
• Training
• Rehabilitation
• PICU
• ICU
• Morgue
• Patient Transport

Indications:
• Prevention
• Intervention
• Preservation

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EMS Innovations has developed a portable system for use in non-invasive rapid therapeutic cooling and preservation cooling. The ICE® (Interchangeable Cooling Environment) cools and pumps ordinary tap water through a variety of different attachments (see reverse) to cool for rehabilitation, temporary preservation of cadavers and for therapeutic use to improve outcomes following cardiac arrest or stroke. The ICE® system should be an integral part of your protocol for Hyperthermia.

Many studies have been done on the effects of cooling the body shortly after cardiac arrest or stroke establishing how long-term cooling significantly improves outcomes. Traditionally this was accomplished with ice packs, block ice, and invasive procedures with saline and/or a cooler which uses Gluteraldehyde. The EMS Innovations ICE® unit provides the user controlled cooling by utilization of a thermostat. Actual patient temperature monitoring should be used in conjunction with the ICE® Unit. The temperature of the cooling fluid (water) can be set to an exact parameter. An LCD panel on the top of the unit provides feedback of temperature regulation and an indication of the flow of the water through the system. Elimination of the use of Gluteraldehyde ensures that the ICE® system is environmentally safe and less expensive to operate. The ICE® System is a non-invasive approach to rapid patient cooling, eliminating needles and cooled saline.

This same technology can be used with the cooling cap to slow blood flow in the same way to increase long-term success rates. Problems during birth could threaten not only the life of a newborn but lead to slowing cognitive development. The cooling can be used in the treatment of Cerebral Vascular Accidents (CVA). This technology is currently being used in these cases and requires larger machines. The EMS Innovations ICE unit is a more portable unit which utilizes water to achieve therapeutic cooling rather than chemical agents which require special handling.

The ICE® System is appropriate for use in multiple environments allowing First Responders, Hospital Personnel and Medical Examiners to utilize one device for many applications. Save time and money with one device that can help prevent and treat injury and illness as well as preserve human remains!
• PREVENTION

REHABILITATION VEST

This vest is an excellent rehabilitation tool. The active cooling of the circulating cooled water and evaporation relieves and prevents Hyperthermia. Up to 8 vests can be attached to the ICE unit for crew cooling. Great for response personnel, standby crews or anyone who may be subject to heat environments.

REHABILITATION CHAIR

The Rehabilitation Chair provides a full-body cooling solution. The ICE® unit can adequately supply 4 rehabilitation chairs at one time. The need to transport, store or purchase block ice has been eliminated with the combination of this chair and the ICE® unit.

• INTERVENTION

RAPID THERAPEUTIC COOLING WRAP

This single-use wrap may be useful in therapeutic Hypothermia for individuals who have suffered a cardiac arrest, stroke or hyperthermia. Multiple studies have shown that cooling the body shortly after such an incident significantly improves outcomes and reduces long-term neurological damage.

RAPID THERAPEUTIC COOLING CAP

The Rapid Therapeutic Cooling Cap may be useful in therapeutic Hypothermia for infants suffering from problems during birth and for adults who have suffered a stroke (Cerebral Vascular Accident). These problems could threaten not only the life of a newborn but lead to slowing cognitive development.

THERAPEUTIC COOLING PAD

The Therapeutic Cooling Pad may be useful in therapeutic Hypothermia and treatment of Hyperthermia. The Pad can be decontaminated and reused. It remains pliable even at its coldest temperature so, it can be placed under sheets, or wrapped around extremities for a consistent cooling solution. This Item is compatible with the MERCSystem™.

• PRESERVATION

MORTUARY COOLING PAD & BAG

The Mortuary Cooling Pad can be put into a body bag to help preserve tissue in cadavers during transportation. The Pad can be decontaminated and reused. It is great when temperatures are high and can effectively preserve tissue. This system is designed for transport to a facility with extended preservation capabilities such as a refrigerated trailer or MERCSystem™.
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WITH...

ICE Interchangeable Cooling Environment

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