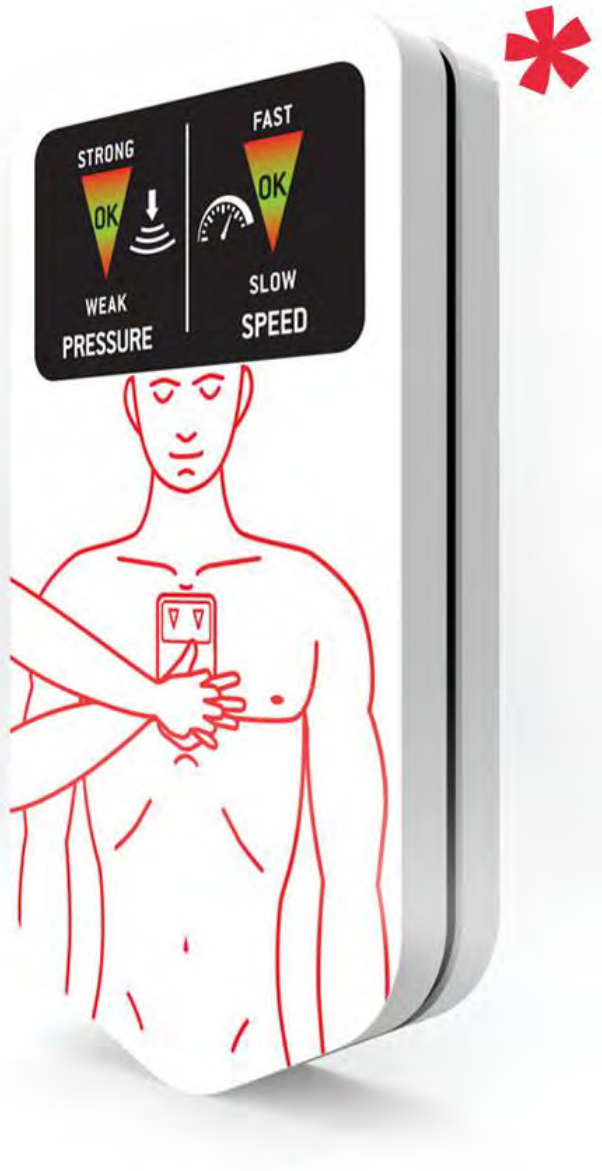
Chest-eR

The perfect aide in case of CPR

* This device can save a life



Introduction

Chest-eR is the only chest compressor that

- Guides the operator during the rescue
- Reduces the incidence of internal injuries
- Increases the effectiveness of heart massage

Who is it for?

- Rescuers
- Hospital staff
- Ordinary people
- Trainers

The Aim: The optimal frequency to perform an effective heart massage is 100/120 compressions per minute with a depth of 5/6 cm.

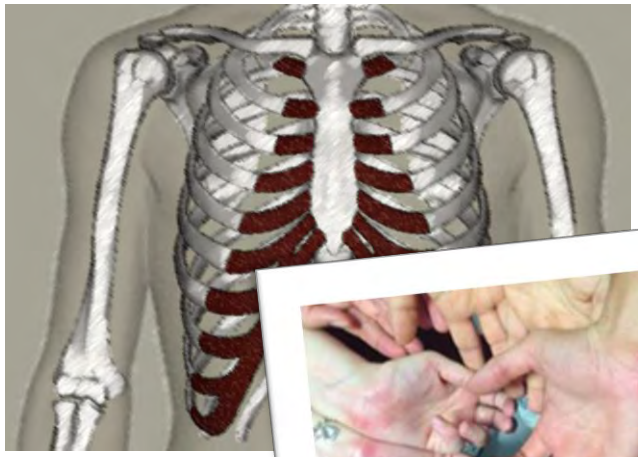
The most recent studies have highlighted two main difficulties in conducting a correct heart massage:

- Keep constant **frequency** and correct **depth**
- **Avoid internal injuries** due to excessive force used during compressions

The statistics

- One in three heart massages always reports **fractured ribs** and one in five also reported a **broken breastbone**.

- The force generated during CPR generally exceed 60 kg. Such a force is sufficient to produce **wounds** on the hands of the rescuers, especially with the use of some cardiac massage assistance devices.



Potential wrist ligament injury in rescuers performing cardiopulmonary resuscitation

Robert Curran, Sasha Sorr, and Eva Aquino

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RESEARCH ARTICLE: OBSERVATIONAL STUDY

Computed tomographic findings of chest injuries following cardiopulmonary resuscitation

More complications for prolonged chest compressions?

The goals

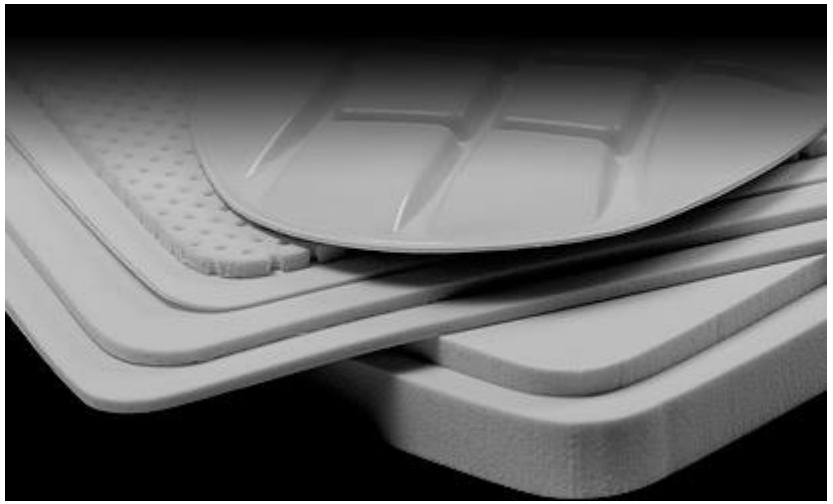
- Support to the rescuer during CPR
- Immediate feedback
- Increase in the area of application of the massage
- Increase in effectiveness
- Reduction of possible injuries

Chest-eR

- It is a product born from the scientific contribution of researchers and engineers and from the need to design a **unique heart compressor**;
- It is made with **innovative materials** of the latest generation;
- It is composed of a special **triple-layer internal structure**;
- It offers an **electronic feedback system**;
- Designed, not only as a support device during the rescue, but also as a **training tool for BLS/BLSD**;
- It is an innovative device **patented** in Europe and the USA.

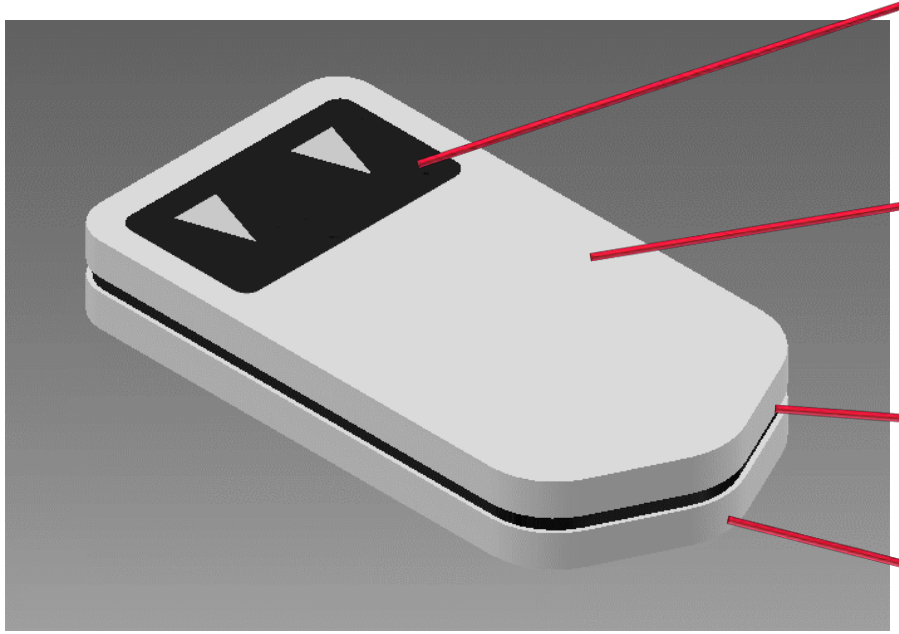
The choice of materials

Chest-eR is designed with cellular elastomeric materials with non-Newtonian characteristics, which make this device a shield capable of dissipating the force of the impact homogeneously on the **patient's** chest, absorbing up to 90% of the exceeding energy *



* Test carried out following the ASTM-F1614-C regulation

An innovative structure



Display with feedback on the quality of the massage

Non-Newtonian cell elastomer layer
Dispels impulsive forces and protects rescuer's hands

Central rigid layer
Distributes strength

Non-Newtonian cell elastomer layer
Dispels impulsive forces and protects the patient’s chest

The electronic feedback

- *Thanks to Sophisticated algorithms*, Chest-eR detects extremely accurately the frequency and the depth performed during the cardiac massage.

- *Through its simple and intuitive display*, Chest-eR grants a quality RCP, even if the one to perform it is a person with no experience.

Chest-eR

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