

SmartMan[®]



SmartMan[®] – A Product Whose Time has Come

The SmartMan system is the only accurate measurement system indicating whether chest compressions are performed correctly and providing real time feedback so performance can improve.

- **ACCURATE**
Digital measurement to greater than 1/100th of an inch AND 1/100th of a second
- **OBJECTIVE**
Scientific - does not rely on a subjective evaluation
- **REAL TIME FEEDBACK**
Visual display shows what you do on each compression as you do it

- **THOROUGH ANALYSIS**
Complete description of your performance and an easy to read overall percentage
- **THE STANDARD**
Compares your performance with the performance standards set by AHA

Make sure what you are doing is correct. Get it right and make that vital difference.
There is no other system available to give you this kind of feedback.

Ambu SmartMan[®] is a Real Solution – Available Now

- Ambu SmartMan[®] provides a real solution to improving how CPR is performed, and it is available today.
- It is easy to use. An Ambu Manikin (C) is connected to a computer with an up to date interface box.
- SmartMan[®] provides an easy to read visual bar graph as you press on the chest.
- This product provides objective accurate measurement of how well a person is performing chest compressions.
- It also provides verifiable evidence of the way the required skills are being performed.
- You can perform sets of 30 compressions (The current AHA Standard)
- Or you can perform continuous compressions (sets of 200 compressions). This method is gaining in popularity.

Better Compressions Means better CPR
Better CPR means an improvement in survival rates. That is our target.
Get more information on the Ambu SmartMan system today.

PERFORMING COMPRESSIONS IS IMPORTANT.
SUPPORT FOR IMPROVED CPR AND CPR ASSESSMENT is coming from many directions; from the research, from the AHA, from the legal profession and from users themselves.





Research Supports SmartMan[®]

Here are a few facts:

- CPR performed before defibrillation improves survival. (See references 1 and 2 below)
- Pauses in chest compressions worsen outcomes. (See reference 3 below)
- Survival outcomes are sensitive to the quality of CPR performed. (See references 4 and 5 below)

The actions of EMS rescuers directly impacts the survival chances of a victim. Research clearly shows that the better you perform chest compressions, the better the survival outcomes.

"The paramount importance of CPR has been confirmed in both animal and human studies. In two clinical studies, survival from ventricular fibrillation arrest was improved if CPR was

performed before defibrillation attempts (1, 2) in JAMA. In animal studies, coronary perfusion pressure, hemodynamic function, and survival were adversely affected by even short pauses in chest compressions. Moreover, pauses in chest compression just before defibrillation worsened outcomes in a swine model. (3) Additionally, laboratory study has shown that physiological and survival outcomes are sensitive to CPR quality. (4,5). (See references)

Instructors' judgments alone are not sufficient to determine learners' competence in performing compressions. Assessment, technology, and guidelines must be better aligned so that learners can receive accurate feedback. (See reference 6 below)

Regulations Support Improved Performance

The latest Circulation (5 February 2008) addresses the need to improve CPR performance.

"Healthcare provider systems that deliver CPR should implement continuous quality improvement processes that include monitoring the quality of CPR delivered during any attempted resuscitation. These monitoring data should be used to maximize the quality of resuscitation care delivered, including the quality of CPR performance.

Some of these devices can also record CPR performance and provide opportunities for debriefing and training. Such tools may have an important impact on this quality improvement goal in coming years."

"For EMS, hospital systems, and other professional CPR providers, the use of rigorous simulation with video recording and debriefing may serve as a staple in resuscitation training; the use of such patient simulators is a rapidly expanding area of current research."

"Some of these devices can also record CPR performance and provide opportunities for debriefing and training." All extracts from Circulation Feb 5, 2008





Legal Advice Supports SmartMan[®]

EMS practitioners have a responsibility and a duty of care to perform chest compressions to a reasonable standard. The American Heart Association establishes the required performance parameters.

The noted legal firm Page Wolfberg & Wirth that specializes in EMS litigation writes clearly that Ambu SmartMan will help to mitigate potential legal settlements.

"... the very real threat of liability exists for EMS organizations and individual EMS personnel throughout the United States when providing emergency medical care that is performed incorrectly or inconsistently with the applicable standard of care. One way that individual EMS providers and EMS organizations can potentially reduce the chances of an adverse judgment or verdict against them is to be able to demonstrate and document their efforts to train and verify the competence of all personnel providing emergency medical services."

"... we believe that EMS organizations and/or individual EMS providers could effectively utilize this device as part of the process of verification of skill competency. This documentation could be used in defense, and thus potentially reduce the potential for liability, where the training or competency of the personnel was an issue in the case. While, of course, the potential for legal liability cannot be predicted with any certainty, and the outcome of any lawsuit is never guaranteed, it is vital to demonstrate the necessary training and competency verification of EMS personnel in a case where these issues are raised. We believe that a device such as the Ambu SmartMan could help tremendously in providing this verification with respect to the performance of CPR." (Full text of document is available on request.)

Individuals Support SmartMan[®]

Words from Real Users!

"I never knew that I was pushing too deep."

"You mean I've been doing it wrong for the last 25 years!"

"This is the only device even trying to help us improve."

"This should be required for every person that takes CPR."





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TRAINING

