



DEEP HELP

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The Action of our Defibrillator

Conventional basic life support ie from mouth to mouth breath and chest compressions are very important skill for a layman and professional. This kind of life support does not start the heart which is stopped but it gives more time to patient who has ventricular fibrillation. The reason of cardiac arrest is many times ventricular fibrillation. **The most relevant maker in cardiac arrest to survival of the patient is the time it takes from the cardiac arrest to the moment when the first shock has been given.**

Our patented defibrillator is based on two different component. First one is smart phone and the second one is electronic module. We have connected them together either with a cable or short distance radio frequency like RFID,WIFI,Bluetooth or equivalent.

For example in Finland we have approximately 23000 heart attacks in a year which lead to 13000 deaths.

High blood pressure is a common reason for that: According to research of "The health 2000" from the group of 35-64 years old people the high blood pressure found 49% of men and 36% of women. The criteria was the pressure of 140/90 mmHg.

According to our patent

1. When there is a patient lying down without having a function of heart then the helper take the electronic module where is a label **DEFIBRILLATOR**. First thing is to make emergency call and secondly connect his/her smartphone into that electronic module via cable or press "THE RED BUTTON" on it. After that every nearby being smartphone will ignite immediately a big full screen inquiry "Would you like to help the cardiac - if yes press button xxx?" This case the smartphone make a connection to the electronic module via short distance radio frequency like RFID,WIFI,Bluetooth or equivalent.
2. At this moment the application make a call to the emergency center (if there is not already contact) and send a message that somebody is now making a heart operation and an ambulance need to be there.
3. Smartphone will show all the time very short video clip which guide the helper. After that when the helper has put both of the electrodes on the chest of patient the video changes to guide the helper and tell the condition of the patient and if needed the video tells to press **THE RED BUTTON**.

At this moment smartphone tells also that don't touch the patient now and the system will give a shock.

4. The phone will be free after that and the helper could give some more information to emergency center. Smartphone can send the condition of the patient to ambulance via emergency center.

Smartphone will have also a button to change the language for example in the case when the helper is a foreigner.

Lasse Halttunen

Lasse Halttunen, CEO, DI, M.Sc. (Tech.), B.Sc

e-mail: info@lhcommunications.fi

phone+358 50 551 552 8

LH Communications Oy

www.lhcommunications.fi

Y-tunnus: 1997563-3

Kukkakatu 4

04430 Järvenpää

Finland