

ABSTRACT

The theme for this thesis is based on the European Resuscitation Council's guidelines for cardiopulmonary resuscitation of 2015. One of the important points of these procedures is the use of an automatic external defibrillator (AED). These devices were developed for informed responders without the knowledge of cardiac rhythm diagnostics and allow to perform an early defibrillation of the heart, before the arrival of emergency services. AED is a sophisticated device that is a part of the equipment of I - firefighters and policemen. Training of these so-called first aid responders performs the local emergency service team. Over the years 2015 and 2016, the majority of the professionally active firefighters and police officers in one selected Czech district who have the automatic external defibrillator in their equipment attended a training in how to use this device.

The aim of this thesis is to determine whether the concept of the training courses is sufficient. If the theoretical part is well understandable for the respondents, and whether the practical training is sufficient - not only the actual compressions and ventilation, but also the use of an automatic external defibrillator, or whether it would be appropriate to extend this training.

In this research I used a quantitative method - an anonymous and voluntary questionnaire survey. The research sample were firefighters and police officers from one selected Czech district, who have completed the training courses and have an automatic external defibrillator in their equipment.

It has been found that the level of education of the IRS members in the issue of cardiopulmonary resuscitation using the AED device can be qualified as sufficient in its scope, with few exceptions, but a regular repetition of this training should be ensured.

keywords: automated external defibrillator, ventricular fibrillation, basic urgent resuscitation, training, guidelines, emergency medicine