

## **ABSTRACT**

The main goal of this work is to create an idea of how an educational system for non-physician healthcare professionals in the departments of anesthesiology, resuscitation, and intensive care should look like with regards to interpreting and evaluating ECG curves that would lead to a better knowledge of understanding ECG curves. This certain idea of an educational system should be another option on how to educate healthcare professionals, thus improving their competence.

The theoretical part of this work compares the educational system of healthcare professionals in the Czech Republic to other foreign countries and the competence of non-physician healthcare professionals working mostly in intensive care in hospitals. It also introduces and explains the basics on how to record an ECG curve that competent workers should be able to read and interpret correctly. The empiric part is based on the quantitative method of making a survey, in which the respondents are non-physician healthcare workers working in anesthesiology, resuscitation, and intensive care in Czech hospitals. The survey study focuses not just on finding out the knowledge of ECG in non-physician healthcare professionals in anesthesiology, resuscitation, and intensive care, but also whether it's necessary to teach them more about ECG.

The results of the study have shown that the knowledge of responders is insufficient, thus in order to save the professional competence of these workers, it is beneficial to enroll in the educational system that would focus on the subject of the study. Most of the respondents were only capable of recognizing clear signs of a myocardial infarction on a ECG. Most of the respondents are also aware that they need to improve their knowledge of ECG.

## **KEYWORDS**

ECG curves, educational system of healthcare professionals, competence profiles, intensive care, other education.