

Abstract

The main goal of this work is to map the issue of cardiopulmonary resuscitation performed by the Emergency Medical Service of the Central Bohemian Region (EMS).

This diploma thesis is focused on the issue of successful cardiopulmonary resuscitation (CPR) outside the hospital. It is divided into theoretical and empirical part. The theoretical part has several chapters (cardiopulmonary resuscitation, recommended procedures according to Guidelines 2021, post-resuscitation care, basic biomedical ethical principles and, last but not least, first aid legislation), which represent the theoretical basis for the empirical part.

For that part, a quantitative research survey of data was used. The obtained data represent cases where urgent resuscitation was provided by EMS. Using descriptive data analysis, a retrospective inferior study was conducted to evaluate the data, which was then compared with the literature.

Data were obtained for the calendar year 2020. In this time period, CPR was performed on 836 patients. Patients for whom some data were incomplete, such as ventilation, gender, or treatment outcome, were excluded from the analysis. Thus, 631 (100%) subjects were enrolled in the study, of whom 147 (23.3%) achieved restoration of spontaneous blood circulation (ROSC). 484 (76.7%) patients died.

Despite the ever-increasing knowledge about the etiopathogenesis of cardiac arrest and the evidence-based practice of CPR, it still makes sense to conduct research investigations that address this issue in specific settings.