

## **ABSTRACT** (v AJ)

### 1) introduction - introduction to the problem

The diploma thesis on the interpretation of electrocardiograms by nurses and paramedics in the resuscitation department and in urgent pre-hospital care includes a theoretical summary of ECG pathologies, as well as addresses the issue of correct interpretation of electrocardiograms in relation to gender, age, workplace experience, and suggestions for improvement.

### 2) goal formulation, methodology

The goal of the diploma thesis was to map the level of knowledge in interpreting electrocardiograms by nurses and paramedics in the resuscitation department and in urgent pre hospital care, depending on age, gender, length of experience, and job placement, with a focus on ECG interpretation. For the empirical part of the thesis, which deals with answering predetermined goals, a quantitative research method was chosen, conducted in the resuscitation department and emergency medical services. Data collection was carried out through a questionnaire survey using a self-constructed questionnaire. The survey focused on the theoretical knowledge of ECG interpretation by nurses and paramedics.

### 3) main results

It was found that orientation in basic ECG pathologies did not pose significant difficulties for respondents, while for more difficult interpretations, the error rate was higher without significant differences between the compared workplaces. Surprisingly, deficiencies were found in the technical aspect of the problem, particularly in relation to electrode placement.

### 4) conclusion and recommendations

From the results, it is evident that education and targeted courses on ECG interpretation make sense, as there is considerable interest in the topic. Periodic practice and training would ensure an enhanced quality of interpretation.

**keywords:** ECG interpretation, arrhythmia, nurse, paramedic, knowledge, competence