

## **Abstract**

The bachelor thesis entitled "Nurses' Knowledge and Use of Personal Protective Equipment in Barrier Approach to Infectious Patients" deals with the prevention of infection transmission in the hospital environment, emphasizes the importance of using personal protective equipment, and addresses the knowledge and habits of nurses providing nursing care to infectious patients in the hospital.

**Objective:** The aim of the thesis was to determine and evaluate the level of nurses' knowledge in the field of prevention and use of personal protective equipment when working with infectious patients. Within this bachelor thesis, another goal was set to gather information on whether respondents with higher education demonstrate more detailed knowledge in the field of infectious control than respondents with secondary education. The sample of respondents was also compared by age and length of practice, where the correlation between these categories and the depth of knowledge was examined.

**Sample and methods:** The survey was conducted through a questionnaire, the comprehensibility of which was previously verified by a pilot study. Data collection took place at two university hospitals in Prague, at FN Motol and FN Bulovka. The research sample consisted of 163 respondents, 115 respondents from FN Motol and 48 from FN Bulovka.

**Results:** Individual responses to each question are described by a corresponding image or table, from which the distribution of responses is clearly readable. After data analysis, it was found that the most statistically significant differences occur in the evaluation of the highest education achieved and the frequency of correct answers.

**Conclusions:** The conducted research revealed certain deficiencies in the knowledge of the respondents and also highlighted differences in established habits and opinions among nurses working in Czech and foreign hospitals (in comparison with other studies).