

Abstract

The bachelor's thesis entitled "Central sterilization and its importance in a hospital facilities" deals with the role of the central sterilization department, describes its main purpose in a medical facility and tries to provide a more detailed description of the operations that take place there.

Objective: The aim of the work was not only to introduce methods of sterilization, but also to find out the level of knowledge of general and practical nurses about the correct handling of sterile medical devices. The aim of the research part was also to verify knowledge regarding the correct implementation of sterile material control and decontamination of biologically contaminated medical devices.

Sample and methods: The research was carried out in the form of an electronic questionnaire of our own design, which contained twenty items. It was distributed in outpatient clinics, inpatient wards and central operating rooms in the Military University Hospital Prague at the beginning of 2024. The research group consisted of 72 respondents, of which 27 were included in outpatient service, 22 in inpatient wards and 23 from central operating rooms.

Results: According to the data analysis, it was found that 14 nurses (19,44 %) could not correctly determine the color of the chemical indicator on the seam of the disposable package from steam sterilization. Incorrect procedure for manual decontamination of biologically contaminated medical devices was mentioned by 18 interviewees (25 %), and almost half of the nurses (43,06 %) were unable to determine the correct details of the application to the central sterilization department.

Conclusion: Thanks to the research investigation, several respondents' ignorance of the issue was identified, and thus recommendations for practice to minimize adverse events in this area of nursing care were derived.

Keywords

Sterilization, disinfection, decontamination, central sterilization, sterilization unit, importance