

## Management of Postoperative Pain, Intercultural Differences Among Registered Nurses: Czech Republic and Kingdom of Saudi Arabia

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**Abstract :** The management of postoperative pain is a meaningful part of quality care. The experience and knowledge of registered nurses in postoperative pain management can be influenced by local know-how. Therefore, the research helps to understand the cultural differences between two countries with the aim of evaluating the management of postoperative pain management among the nurses from the Czech Republic and the Kingdom of Saudi Arabia. Both countries have different procedures on managing postoperative pain and the research will provide an understanding of both the advantages and disadvantages of the procedures and also highlight the knowledge and experience of registered nurses in both countries. Between the Czech Republic and the Kingdom of Saudi Arabia, the expectation is for differing results in the usage of opioid analgesia for the patients postoperatively and in the experience of registered nurses with Patient Controlled Analgesia. The aim is to evaluate the knowledge and awareness of registered nurses and to merge the data with the postoperative pain management in the early postoperative period in the Czech Republic and the Kingdom of Saudi Arabia. Also, the aim is to assess the knowledge and experience of registered nurses by using Patient Controlled Analgesia and epidural analgesia treatment in the early postoperative period. The criteria for those providing input into the study, are registered nurses, working in surgical settings (standard departments, post-anesthesia care unit, day care surgery or ICU's) caring for patients in the postoperative period. Method: Research is being conducted by questionnaires. It is a quantitative research, a comparative study of registered nurses in the Czech Republic and the Kingdom of Saudi Arabia. Questionnaire surveys were distributed through an electronic Bristol online survey. Results: The collection of the data in the Kingdom of Saudi Arabia has been completed successfully, with 550 respondents, 77 were excluded and 473 respondents were included for statistical data analysis. The outcome of the research is expected to highlight the differences in treatment through Patient Controlled Analgesia, with more frequent use in the Kingdom of Saudi Arabia. A similar assumption is expected for treatment conducted by analgesia. We predict that opioids will be used more regularly in the Kingdom of Saudi Arabia, whilst therapy through NSAID's being the most common approach in the Czech Republic. Discussion/Conclusion: The majority of respondents from the Kingdom of Saudi Arabia were female registered nurses from a multitude of nations. We are expecting a similar split in gender between the Czech Republic respondents; however, there will be a smaller number of nationalities. Relevance for research and practice: Output from the research will assess the knowledge, experience and practice of patient controlled analgesia and epidural analgesia treatment. Acknowledgement: This research was accepted and affiliated to the project: Postoperative pain management, knowledge and experience registered nurses (Czech Republic and Kingdom of Saudi Arabia) - SGS05/2019-2020.

**Keywords :** acute postoperative pain, epidural analgesia, nursing care, patient controlled analgesia

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