

Abstract

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Title of Thesis: Administration of cytostatic drugs and extravasation

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This thesis deals with the issue of extravasation in intravenous administration of cytostatics in oncologic patients, as one of the most feared complication of cytostatic therapy, which may have serious irreversible consequences for patients.

Extravasation describes the unintended leakage of drug from vessel into surrounding tissues or the unintended instillation of drug directly into the perivascular tissues. The severity of tissue injuries depends on several factors, including the volume and concentration of the cytotoxic agent, the localization of extravasation, the sensitivity of the tissue and the vesicant potential of the cytotoxic agent.

In order to avoid extravasation, the principles of safe drug use must be followed, and if extravasation occurs, the recommendations for the drug should be known and followed. This is the only way to prevent serious damage to the patient, or significantly reduce the consequences.

The experimental part of this work deals with the processing and evaluation of the questionnaires, which were attended by healthcare workers administering chemotherapy to oncologic patients. The subject of the questionnaire was personal experience with cytostatic extravasation. The evaluation also includes statistical processing based on hypothesis testing. The dependencies between different characteristics of respondents and their relationship with extravasation were investigated.