

ABSTRACT

The diploma work focus on thermodilution technique of monitoring of cardiac output using the Swan-Ganz catheter in relation with the nursing issue in the Department of Cardiology and postoperative Cardio-Surgery at The Institute of Clinical and Experimental Medicine.

In the theoretical part, the term of haemodynamic monitoring is clarified, cardiac output is defined, determining factors are described and a specific condition affecting it. Furthermore the indications to commence the monitoring of cardiac output are introduced and available methods of monitoring. In detail the thermo dilution technique of monitoring of cardiac output with the help of Swan-Ganz catheter and related nursing issues are described. The empirical part of the diploma work, with the support of the questionnaire survey with 60 general nurses participating from the mentioned departments analyze, what methods of cardiac output monitoring are used in chosen clinical departments. Further the satisfaction of addressed general nurses with their theoretical and practical preparation is analysed, concerning the issue of monitoring of cardiac output with the help of Swan-Ganz catheter and at the same time the level of the chosen essential knowledge of general nurses about the most frequently used method of monitoring of cardiac output is rated in relation with the achieved education and the length of nursing practice.

Conclusion of this work is based at the foundation of the theoretical part of the work and the stated requirements of the nursing personnel, methodical recommendation of care of Swan-Ganz catheter. Further, there is appendix designed by us ” Specifics of care of pulmonary artery based Swan-Ganz catheter in process of monitoring of cardiac output using thermodilution technique” to be added to the existing nursing standard of care currently in use in the Institute of Clinical and Experimental Medicine. Also the presentation about Swan-Ganz catheter and its specifics is processed by us and presented within professional seminar.

keywords: haemodynamics, cardiac output, haemodynami monitoring, Swan-Ganz catheter, general nurse