

Management of Medical Technologies for Ensuring the Safety, Efficiency, and Quality of Medical Services

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Based on the evaluation of the global experience in the healthcare domain, it has been showed that high-performance medical devices represent an indispensable part of the medical act in the prevention, correct diagnosis, and treatment of diseases with high mortality and morbidity in the population. An efficient use of medical devices is expected to promote a significant increase of the number of cost-effective and qualitative investigations and treatment [1].

The maintenance, verification, and management of medical devices have therefore become a priority in the health policy of many states. There are many studies proving that suitable and coherent policies can improve the cost and effectiveness of the application of advanced medical technologies, and at the same time, they can increase patient safety and the overall quality of medical act [1].

The level of endowment of medical institutions with high-performance medical devices and an appropriate level of professionalism of medical resources are the key tools in ensuring the proper functioning of the health system and will have a direct impact on the functional effectiveness of the system, service quality, and degree to the satisfaction of the beneficiary [1].

Moreover, our international experience in the field has demonstrated that the allocation of the necessary resources and the creation, within medical institutions, of units responsible for the management of medical devices can significantly increase the performance of this equipment [2–4].

As a result, the quality of the health service is dependent both on the technical resources, including the endowment with advanced medical devices, and on the professional competence of the personnel involved.

In order to improve the current situation concerning safety, efficiency, and quality of medical services in the Republic of Moldova, five new Hospital Biomedical Engineering Departments (HBMED) were funded, and the curriculum on Management of Medical Technologies within our faculty was implemented [4].

The benefits of implementing this curriculum and the joint activities of the Department of Biomedical Engineering with HBMED will result in an optimal use of expensive medical devices, through qualified and trained personnel, and is expected to reduce user errors and maintenance costs [4].

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References

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