



STUDY AND ANALYSIS OF OPHTHALMIC PHARMACEUTICAL FORMULATIONS USED IN MEDICAL PRACTICE

Melnic Lucia, Solonari Rodica, Guranda Diana, Diug Eugen

Department of Drug Technology, "Nicolae Testemitanu" State University of Medicine and Pharmacy,
Chisinau, Republic of Moldova

Introduction: According to WHO data, eye diseases are increasingly common in both adults and children, and the lack of adequate treatment can lead to serious complications.

Keywords: Ophthalmic formulations, prescriptions' repeatability magistral drug preparation.

Purpose: The research objective was to study the industrial and magistral ophthalmic formulations used in medical practice, with the reproduction of the most common pharmaceutical formulation prepared within "Vasile Procopisin" University Pharmaceutical Center (UPC) and to conduct their qualitative-quantitative control.



Material and methods: There was analyzed the magistral drug preparation of "Vasile Procopisin" UPC's production department used in the treatment of eye diseases from a technological and biopharmaceutical point of view.

Results: Data from specialized literature show that the most commonly used pharmaceutical formulations in ophthalmic practice are eye drops. There were analyzed all magistral formulations in the production department and there was identified the most often prescribed one. The repeatability of the prescriptions used in eye diseases took place during September - December 2019. There was developed the method of quantitative analysis of compound eye drops prepared in the production department. The method is simple, fast and useful in use.

Conclusions: Ophthalmic formulations allow the localization of the effect of medicinal substances in the eyes, thus avoiding unwanted systemic effects, and local therapy of the ocular area has the advantage of a rapid and direct action, with low concentrations of drugs.

