

BIOPHARMACEUTICAL RESEARCH EXTEMPORAL OINTMENT FOR THE TREATMENT OF ECZEMA

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One of the main directions of development of biopharmaceutics is the choice of optimal type and composition of the dosage form to ensure high safety and therapeutic efficacy.

The main terms of the action of drugs is their release from the dosage form, absorption through biological membranes and transport to the place of impact with blood, lymph. It depends mainly on a combination of pharmaceutical factors. The therapeutic activity of drugs in the form of ointments related to the properties as drug substances and excipients, pH, viscosity, which render effect on bioavailability of drugs through the skin. One of the important indicators of quality of ointments, like any other dosage form is its ability to provide optimal bioavailability of the drug. As you know, the rate of absorption of drugs affect a variety of factors pharmaceutical and pharmacological order.

Of pharmaceutical factors affecting bioavailability of drugs should be allocated as follows: degree of grinding, polymorphism, solubility and other physical and chemical properties of the medicinal substance.

To provide the necessary dosage form pharmaco-technological characteristics chosen excipients, such as optimal media for drugs. The use of any additive in each case requires special studies to ascertain its impact on the process and bioavailability.

As the original carrier of pharmacologically active substances foundations themselves have certain physical and chemical properties. Therefore, in each case, a combination of drugs and assisted in the appropriate dosage form should be individualized based on the pharmacokinetics of drugs

Ointment bases cannot be seen only as a neutral environment of drugs administered to them. Properties ointments, its ability to be absorbed and hence therapeutic effect largely depend on the nature of ointment bases. Given the foregoing, to increase the therapeutic action we proposed the use of combination of hydrophilic ointment base, which differs from the usual fat basis - vaseline.

In order to assess the degree of increase therapeutic effect was evaluated the degree of release of drugs (streptocide and anaesthesin) ointment bases with different composition by "agar plates." It is proved that the rate of release depends on the nature of the base and the degree of dispersion of the drug.