SUBSTANTIATION OF MEDICINAL FORMS WITH ANTIPYRETIC AND IMMUNOMODULATORY EFFECT

Chernova A.O, Manscy O.A., Saiko I.V.
The National University of Pharmacy, Kharkiv, Ukraine
chern-alinka@mail.ru

The occurrence of fever in acute respiratory infection (ARI) is one of the safety functions of body. However, with an increase in axillary temperature to around 38,5 ° C or more, WHO recommends to take therapeutic measures. In this case children are the most vulnerable to acute respiratory disease, which is associated primarily with weakened or underdeveloped immune system.

On the basis of market research conducted it was found that in today's pharmaceutical market of Ukraine preparations that combine in themselves antipyretic and immunomodulating effects are present in insufficient quantities.

The aim of the study was to choose the optimal dosage form and justify the composition and technology of drug with antipyretic and immunomodulating effects for use in pediatric patients.

As main active ingredients paracetamol as a component of the antipyretic effect and mix factor as a component of immunomodulatory action have been selected. Mix-factor is a glycoprotein oligopeptide composite drug of natural origin.

Based on the processed literature we have selected dosage form of suppositories, which today are widespread in pediatric practice for young children.

Suppositories were prepared by pouring. As the base vehicle used type A hard fat. Paracetamol and the mix factor in the required amount entered to the basis as concentrate. When selecting a temperature mode proceeded from the properties of active substances and excipients. On the basis of thermogravimetical and rheological studies the optimal temperature mode of manufacturing suppositories has been determined. Quality assessment of received suppositories has been conducted in accordance with SPU.

At present, are continuing preclinical studies of paracetamol and mix factor suppositories on animals.

Thus, the research output initiated to justify composition and technology of antipyretic and immunomodulatory action drug in suppository form.