

IMPROVEMENT OF COMPOSITION AND TECHNOLOGY OF ANTITUMOR ACTION TABLETS

Dereza Y. O.

National University of Pharmacy, Kharkiv, Ukraine

genya_b@ua.fm

Introduction. According to opinion polls, one of the greatest fears of modern man is the fear of cancer. Because oncological diseases - one of the most common causes of death.

Mammary gland cancer – one of the most common neoplastic processes in women around the world. In Ukraine, it ranks first among cancers of women. Mortality from cancer in women of working age in the time is ahead of death rates from heart and vascular diseases.

Every woman that got sick with breast cancer, on average, loses 17-18 years of life, and this is 53% of total losses of the female population of our country. Over the past 10 years, the incidence of breast cancer increased almost twice and amounts today 52 people per 100 thousand population. It makes anticancer therapy one of priority directions of modern medicine.

Over the years, has repeatedly been shown that the drug «Tamoxifen-Health» is an effective treatment for breast cancer. The current technology for drug «Tamoxifen-Health», which is based on the method of wet granulation lasts long enough, and the physical and chemical properties (friability, disintegration, crushing) are at the maximum permissible norms.

Aim. The aim of this work is development of composition and production technology of tablets «Tamoxifen-Health» that will allow refusing the use of wet granulation method in the production and obtain the drug of satisfactory pharmaco-technological properties by direct compression.

Materials and methods. As objects of study used the tablet masses and tablets «Tamoxifen-Health» obtained using various excipients. For these tablets and masses carried out determination of flowability, friability, disintegration, crushing.

Results and discussion. As a result of pharmaco-technological research it has been found that the optimal values of flowability, friability, disintegration, crushing have tablet masses and tablets where used as filler tabletose 80.

Conclusions. The composition and technology of tablets «Tamoxifen-Health» production by direct pressing has been developed, which will reduce power inputs, technological process time, improve pharmaco-technological properties of the drug and preserve the quality and compliance with all GMP requirements and international quality standards.