

CREATING A LOW-TONNAGE PRODUCTION OF PHARMACEUTICAL INGREDIENTS FOR ANTICANCER, CARDIOTROPIC AND OTHER DRUGS ON THE BASIS OF ORGANIZATIONS MINISTRY OF EDUCATION

Ivashkevich O.A. Yurkshtovich T.L., Bychkovsky P.M. Beliaev S.A., Shulga P.N., Korzun G.M.

Belarusian State University, Research Institute for Physical Chemical Problems of the Belarusian State University, Unitary enterprise «Unitechprom BSU», Unitary enterprise «Unidragmet BSU»

One of the priorities of the Republic Belarus and ensuring of the national security in the production sphere and handling of medicines is the development and mastering of pharmaceutical substances manufactures which are the original and generic medicines for the treatment of cardiovascular, cancer and other diseases. Existing pharmaceutical companies are focused on the production of generic drugs from the import pharmaceutical substances, that is economically feasible in case of large needs and at the presence of the proposals to supply cheap and qualitative products. However, there are a number of vital expensive finished dosage forms of drugs which are needed in a small amount according to the requirements of the Republic Belarus, and the purchase of the import drugs is difficult for several reasons. That is why the production of generic and original pharmaceutical substances have been created on the base of the UE "Unitechprom BSU" and CB "Unidragmet BSU". The aims of such production are the next: to provide the pharmaceutical industry with qualitative products, to use the full potential of the specialists in the field fine chemical synthesis.

The technologies of pharmaceutical substances and finished dosage forms, developed in the Research Institute for Physical Chemical Problems of the Belarusian State University in the frames of the GTIN "New drugs" (2006-2010) and "Pharmaceutical substances and drugs" (2011-2015) will be introduced at the pharmaceutical companies of Belarus and at the BSU enterprises.

Today the production technologies of the original medicinal product "Cisplacel" for local chemotherapy of malignant brain tumors and tumors in the head and neck and substances of temozolomide and prospidinum for anticancer drugs production are mastered. The work connected with mastering of substances nitargal, cisplatin and oxaliplatin production technologies is conducted.