

New synthetic drugs are a large group of addictive substances currently synthesized for the purpose of circumventing legislation. Most often, they are created by a relatively slight change of the structure of previously banned substances. Any drugs and their long-term use have a detrimental effect on the life of the individual and society as a whole. Therefore, understanding the mechanism of their action is important for the treatment of complications caused by them and may also serve to develop drugs for treatment of certain diseases. This bachelor thesis deals with the current knowledge about the mechanism of action of new synthetic drugs - synthetic cathinones, especially mephedrone, methylone and MDPV. In the paper, the mechanism of action of amphetamine is also presented for comparison.

Keywords: drugs, synthetic cathinones, mephedrone, methylone, MDPV