

TO DETERMINE THE RENEWAL INDEX OF DRUGS PREPARED ON THE BASIS OF SNAKE VENOM, WHICH ARE ALLOWED TO BE USED IN MEDICAL PRACTICE IN THE REPUBLIC OF UZBEKISTAN.

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In recent years, scientists have been increasingly interested in animal poisons.

Among poisonous animals, snakes are especially important. In ancient times, doctors prepared medicinal mixtures from cobra venom and plant or animal products and used them in cases of cholera, tuberculosis, fever, and coma. Based on them, drugs used abroad for psoriasis, dermatitis, eczema, acne, allergic rashes, asthma, hemorrhoids, hypertension, and joint pain have been created. Scientific research in this regard is also being conducted in our republic. This, in turn, will serve to expand the range of drugs prepared on the basis of snake venom in the national pharmaceutical market.

Purpose: to create technologies for the production of new drug forms based on the venom of poisonous snakes found in Uzbekistan, to achieve the production of import-substituting drugs based on snake venom by local manufacturing enterprises, and in turn to ensure a decrease in the cost of drugs.

Methods: content analysis of the assortment of drugs containing snake venom based on the information provided in the "State Register of Medicines and Medical Products of the Republic of Uzbekistan", "Vidal Directory" (on medicines in Uzbekistan) No. 27 of 2023, determination of the update index.

Names of drugs produced on the basis of snake venom registered in the Republic of Uzbekistan and allowed for use in medical practice, information on the form of production, the name of the manufacturing company and the country were taken as a basis for content analysis.

No	Trade name	International name	Number	Share
1 1	Purified concentrated polyvalent liquid horse serum against Gyurza venom	Serum contra venenum Viperae equinum purificatum concentratum liquidum	1	14,28%
2 2	Gyurza, efa, anti-cobra venom, purified concentrated polyvalent liquid horse serum	(Serum contra venenum Viperae lebetinae, Echis carinati, Najae oxianaee polyvalentum equinum purificatum concentratum liquidum)	1	14,28%

3 3	Наятокс®	Comb.drug (Dry Cobra venom, Methylsalicylate, Eucalyptus oil, Camphor)	1	14,28%
4 4	Випратокс	Comb.drug (Venom of Vepera lebetina, acidum salicylicum, camphora)	1	14,28%
5 5	Салвисар® Гюрзанал Випросал в®	Comb.drug (Venom of Viper, Salicylic acid, Camphor, Terbinthinae oleum)	3	42,85%

Results: according to the "State Register of Medicines and Medical Products of the Republic of Uzbekistan" No. 27 of 2023, drugs prepared on the basis of snake venom were also analyzed according to the international non-patented name. In this, they formed 5 groups:

Results of the analysis of drugs prepared on the basis of snake venom according to the international non-patented name

We have determined the renewal index of our pharmaceutical assortment of medicines prepared on the basis of snake venom using the following formula:

$$I_{ya} = N_{ya} / N_{um}$$

I_{ya} - update index,

N_{ya} - based on registered snake venoms in the last 5 years
the number of drugs to be prepared,

Total number of N_{um} - IZTDV.

We got the following result:

$$I_{ya} = 4/7 = 0,5714.$$

Conclusions: The renewal index of medicines based on snake venom was 0.5714, and this indicator showed that 57.14% of the assortment was renewed in the last 5 years.

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