

UDK: 615.2:618.1/.2:339.13

ANALYSIS OF OBSTETRICS AND GYNECOLOGY MEDICINES BY PRODUCING COUNTRIES

Mustafaev U.G.^{1,2}, Mirzaliyeva M.A.³, Jalilov F.S.², Abdulazizova A.A.⁴,
Zokirova G.R.², Madatova N.A.²

¹*Xinjiang Medical University, Xinjiang Uyghur Autonomous Region, China*

²*Alfraganus University, Tashkent, Republic of Uzbekistan*

³*№48 Family Polyclinic of Shaykhontoxur district, Tashkent, Republic of Uzbekistan*

⁴*№ 47 Family Polyclinic of Shaykhontoxur district, Dr. obstetric and gynecology
Tashkent, Republic of Uzbekistan*

Annotation

Obstetrics and gynecology medicines in the article given by years: 2017 №.21, 2018 №.22, 2019 №.23, 2020 №.24, 2021 №.25, 2022 №.26, 2023 №.27, 2024 №.28. The analysis of the State Registers of drugs and medical products registered in the Republic of Uzbekistan has been carried out in practice. The results of the distribution of dynamics penetration of obstetrics and gynecology drugs into the pharmaceutical market by the producing countries among the manufacturing countries are presented [1].

Annotatsiya

Akusherlik va ginekologiya dori vositalari maqolada yillar bo'yicha berilgan: 2017 №21, 2018 №22, 2019 №23, 2020 №24, 2021 №25, 2022 №26, 2023 №27, 2024 №28. Amaliyotda O'zbekiston Respublikasida ro'yxatdan o'tgan dori vositalari va tibbiy asboblarning davlat registrlari tahlili o'tkazildi. Ishlab chiqaruvchi mamlakatlar tomonidan dori vositalarining farmatsevtika bozoriga kirib borish dinamikasini ishlab chiqaruvchi mamlakatlar o'rtasida taqsimlash natijalari keltirilgan [1].

Аннотация

Препараты акушерства и гинекологии в статье даются по годам: 2017 №21, 2018 №22, 2019 №23, 2020 №24, 2021 №25, 2022 №26, 2023 №27, 2024 №28. На практике проведен анализ Государственных реестров лекарственных средств и медицинских изделий, зарегистрированных в Республике Узбекистан. Представлены результаты распределения динамики проникновения акушерско-гинекологических препаратов на фармацевтический рынок по странам-производителям между странами-производителями [1].

Introduction. A class of obstetrics and gynecology medication is broadly used in medical practice. These drugs are the "most necessary" part of pharmacotherapy in advanced obstetrics and gynecology. At current time, along with the expansion of science, technology, chemical industry, various syn-

thetic and semi-synthetic compounds belonging to various groups have started to enter to many countries. In addition to normalizing the pathological process in the woman body, such medications maybe in some cases lead to severe poisoning due to excessive use or accrual process in the female body. [1].

President's Order of the Republic of Uzbekistan OP-3532 dated February 14, 2018 "On additional measures for the rapid development of the pharmaceutical industry" and dated January 23, 2018 "Production of medicines and medical products and in the implementation of the tasks" defined in the decisions of OP -3489 and other regulatory and legal documents related to this activity, this research serves to a certain extent.

In the fourth direction of the decree of the President of the Republic of Uzbekistan dated February 7, 2017 "On the strategy of actions for the further development of the Republic of Uzbekistan" No. Decree of President-4947 "Further development of the pharmaceutical industry, population and medical institutions, improving the provision of cheap, high-quality medicines" has been defined as important tasks. [2,3,4].

At this moment, crowds of expert scientists have exploration the variety of drugs against tumor diseases, antidepressants, antibiotics, antiarrhythmic, anticonvulsants, arterial hypertension, iodine, neuroleptics and other groups of drugs in the pharmaceutical market. [11, 12, 13, 14, 15, 16, 17].

Literature review. Analyzing the role of the obstetrics and gynecology treatment

types in the pharmaceutical convenience store of Uzbekistan, taking into account the toxicological importance of cures belonging to the obstetrics and gynecology category, which make up a certain part of the pharmaceutical marketplace of the Republic of Uzbekistan.

Methodology. Content analyze of medicines, comparative analysis methods.

Results. In order to investigation the variety of obstetrics and gynecology drugs in the pharmaceutical market of the Republic of Uzbekistan, data from State Register of the Republic of Uzbekistan of Medicines and Medical Products were employed. [4].

An investigation of obstetrics and gynecology medicines fabricate in the Republic of Uzbekistan, the Commonwealth of Independent States and abroad countries was carried out. According to the data Ministry of health of the Republic of Uzbekistan State Register by No. 27 of 2023, obstetrics and gynecology drugs under 84 names are usually used in Uzbekistan. It was determined that 14 (16.66%) of these medicines belong to the Republic of Uzbekistan, 4 (4.76%) to CIS countries and 66 (78.58%) to foreign producers (Figure 1).

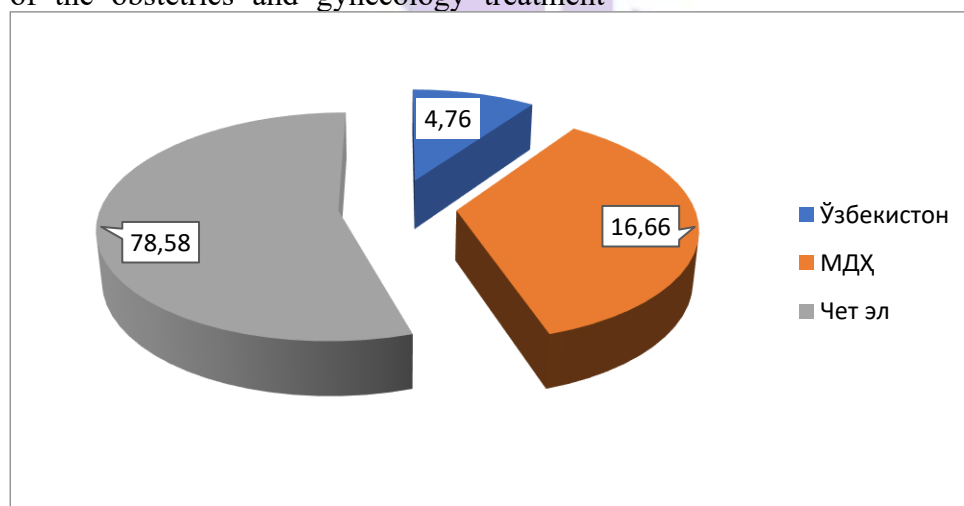


Figure 1. The share of obstetrics and gynecology medicines in the pharmaceutical market of the Republic of Uzbekistan

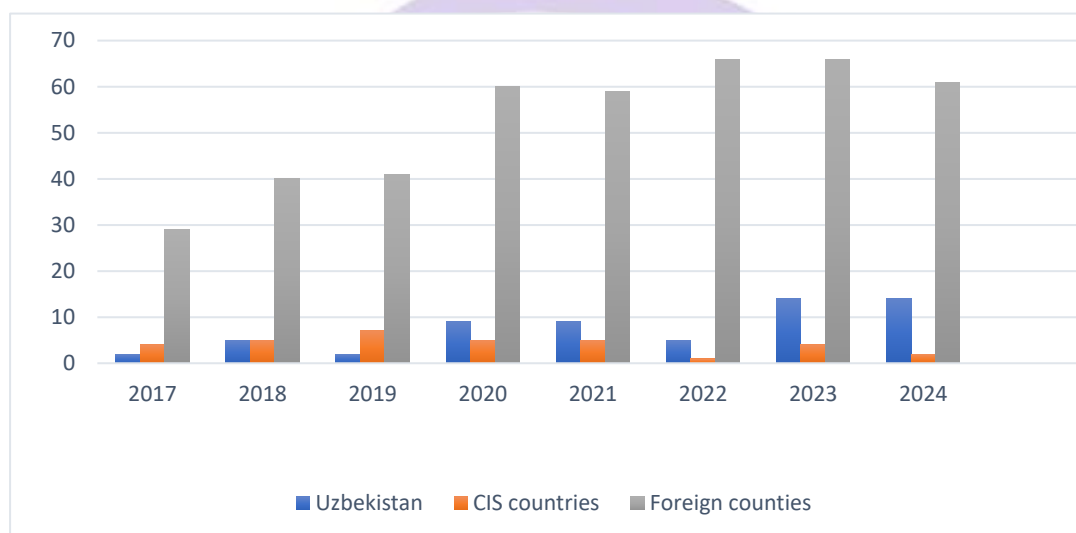
According to the results of the analysis, the State Register of Medicines and Medical Products of the Republic of Uzbekistan has 35

in number №21 of 2017, 50 in number №22 of 2018, 50 in number №23 of 2019, 74 in number №24 of 2020, 77 in number №25 of 2021,

72 in number №26 of 2022, 84 in number №27 of 2023, 77 in number №28 of 2024 - obstetrics and gynecology medicines were recorded (Figure. 2).

We have seen that the share of the Republic of Uzbekistan and the Commonwealth

Figure 2. Dynamics of entry of obstetrics and gynecology drugs into the pharmaceutical market of the Republic of Uzbekistan.



We have witnessed that the tallest integer of obstetrics and gynecology medicines in the pharmaceutical market in 2017-2024 was recorded in the territory of the government republic of Uzbekistan, foreign countries, and the share of

them increased every year compared to the Republic of Uzbekistan and the Commonwealth of Independent States (CIS) countries. It is also worth mentioning that the share of local producers of the Republic of Uzbekistan has increased compared to 2020-2021, 2023-2024. (Figure 2) [4].

Table 1

Analysis of the dynamics of entry of obstetrics and gynecology drugs by producing countries

Years	Uzbekistan		CIS countries		Foreign countries		Total
	amount	%	amount	%	amount	%	
2017	2	5,71	4	11,42	29	82,87	35
2018	5	11,36	5	11,36	34	77,28	44
2019	2	4,0	7	14,0	41	82,0	50
2020	9	12,16	5	6,75	60	81,09	74
2021	9	12,32	5	6,84	59	80,84	73
2022	5	6,94	1	1,38	66	91,68	72
2023	14	16,66	4	4,76	66	78,58	84
2024	14	18,18	2	2,59	61	79,23	77

State Register of drugs and medical products registered in the area Republic of Uzbekistan. [4].

At the key stage of our research, the distribution of obstetrics and gynecology

Table 2

Analysis of countries producing obstetrics and gynecology drugs recorded in the Republic of Uzbekistan

Name of the producing country	Number of manufactured drug								
	№	%	№	%	№	%	№	%	Total
	2017 y		2018 y		9 y		20 y		
1. Pakistan	1	2.85	1	2.27	1	2,32	1	1,66	4
2. India	6	17.14	9	18.0	14	32,6	23	38,41	52
3. Rumania	-	-	-	-	-	-	-	-	-
4. Germany	8	22.96	8	18,18	11	25,58	11	18,33	38
5. Argentina	1	2.85	2	4.54	2	6.97	6	10.0	15
6. Iran	-	-	-	-	-	-	1	1,66	1
7. Egypt	-	-	-	-	-	-	-	-	
8. Italy	-	-	2	4,54	2	4,65	4	6,66	8
9. Korea	-	-	-	-	-	-	1	1,66	1
10. China	4	11.42	4	9.09	4	9.3	4	6,66	16
11. Paraguay	-	-			-	-	1	1,66	1
12. Turkey	1	2.85	1	2.27	2	4,65	2	3,33	6
13. Poland	1	2.85	1	2.27	1	2,32	1	1,66	4
14. Vietnam	-	-	-	-	-	-	-	-	
15. France	2	5.71	2	4,54	2	4,65	2	3,33	8
16. Switzerland	1	2.85	-	-	1	2,32	1	1,66	3
17. Hungary	1	2.85	1	2.27	1	2,32	1	1,66	4
18. Austria	1	2.85	1	2,27	1	2,32	1	1,66	4
19. Uzbekistan	2	5.71	6	13.9	2	4,85	9	12.16	19
20. USA	1	2.85	1	2.27	2	4,85	9	12.16	13
21. Moldova	1	2.85	1	2.27	-	-	-	-	2
22. Russia	2	5.71	2	4.54	-	-	-	-	4
23. Ukraine	1	2.85	1	2.27	-	-	-	-	2
24. Monaco	-	-	1	2.27	-	-	-	-	1
25. Belarus	-	-	1	2.27	-	-	-	-	1

drugs among the countries that produce them was studied. Information about them is presented in Table 2, 3 [4].

State Register of drugs and medical products registered in the area Republic of Uzbekistan. [4].

The results of the research revealed that the larger part of these medicaments are produced by pharmaceutical companies and firms of countries such as the India (52), Germany (38), Uzbekistan (19), China (16) and Argentina (15).

Table 3

Analysis of countries producing obstetrics and gynecology drugs recorded in the Republic of Uzbekistan

Name of the producing country	Number of manufactured drug								
	No	%	No	%	No	%	No	%	To- tal
	2021 y		2022 y		2023 y		2024 y		
1. Pakistan	-	-	3	4.54	3	4.54	3	4,91	11
2. India	25	41.72	29	44.02	30	45.53	27	44,38	143
3. Rumania	-	-	1	1.51	1	1.51	1	1.63	3
4. Germany	12	20.0	7	10.6	7	10.6	6	9,83	51
5. Argentina	6	10.0	7	10.6	7	10.6	7	11.47	35
6. Iran	1	1.66	1	1.51	1	1.51	1	1.63	5
7. Egypt	-	-	1	1.51	1	1.51	1	1.63	3
8. Italy	3	5.0	3	4.54	3	4.54	3	4.91	18
9. Korea	1	1.66	1	1.51	1	1.51	1	1.63	5
10. China	4	6.66	5	7.57	4	6.06	5	8.19	26
11. Paraguay	1	1.66	1	1.51	1	1.51	1	1.63	5
12. Turkey	1	1.66	1	1.51	1	1.51	1	1.63	7
13. Poland	-	-	1	1.51	1	1.51	1	1.63	5
14. Vietnam	1	1.66	1	1.51	1	1.51	1	1.63	4
15. France	3	5.0	2	3.03	2	3.03	2	3.27	13
16. Switzerland	-	-	1	1.51	1	1.51	-	-	3
17. Hungary	1	1.66	1	1.51	1	1.51	-	-	5
18. Austria	1	1.66	-	-	-	-	-	-	3
19. Uzbekistan	9	12.32	14	16.66	14	16.66	14	18.18	62

State Register of drugs and medical products registered in the Republic of Uzbekistan. [4].

The results of the analysis revealed that the majority of these medicines are produced

by pharmaceutical companies and firms of countries such as the India (143), Uzbekistan (62), Germany (51), Argentina (35), China (26), Italy (18) and France (13) [4].

Table 4. Obstetrics and gynecology medicines in the list of types medicines

Table 4.

Type of the producing medicines	Amount of manufactured medicines								Total
	№	%	№	%	№	%	№	%	
	2017 y		2018 y		2019 y		2020 y		
1.Vaginal Suppository	8	22.96	17	50.0	14	26.98	28	37.87	67
2.Tablets for oral usage	7	20.0	9	18.0	8	15.38	6	8.1	30
3.Powder for injection	2	5.71	2	4.0	1	1.92	2	2.7	7
4.Vaginal capsules	3	8.57	3	6.0	6	11.53	9	12.16	21
5.Vaginal cream	-	-	-	-	-	-	2	2.7	2
6.Lyophilizate for injection	-	-	1	2.0	1	1.92	-	-	2
7.Solution for injection	4	11.42	4	8.0	2	5.76	3	4.05	13
8.Vaginal tablets	3	8.57	4	8.0	4	7.69	8	10.81	19
9.Vaginal Gel	-	-	-	-	1	1.92	1	1.35	2
10.Syrup for oral drinking	1	2.85	1	2.0	1	1.92	-	-	3
11.Drops for oral drinking	1	2.85	2	4.0	2	3.84	2	2.7	7
12.Capsules for oral drinking	6	17.14	7	14.0	9	17.3	12	16.21	34
13.Powder for vaginal use	-	-	-	-	1	1.92	1	1.35	2
CIS	4	11.42	5	11.36	7	14.0	5	6.75	21
Uzbekistan	2	5.71	5	11.36	2	4.0	9	12.16	18
Foreign countries	29	82.87	34	77.28	41	82.0	60	81.09	164
Overall countries	35	100.0	44	100.0	50	100.0	74	100.0	203

Table 5. Obstetrics and gynecology medicines in the list of types medicines

Table 5.

Type of the producing medicines	Amount of manufactured medicines								Total
	№	%	№	%	№	%	№	%	
	2021 y		2022 y		2023 y		2024 y		
1.Vaginal Suppository	27	36.38	39	46.45	42	50.0	43	55.84	151
2.Tablets for oral usage	8	10.95	5	5.95	6	7.14	3	3.89	22
3.Powder for injection	2	2.73	1	1.19	1	1.19	1	1.29	5
4.Vaginal capsules	14	19.17	11	13.09	12	14.28	8	10.38	45
5.Vaginal cream	2	2.73	2	2.38	2	2.38	2	2.59	8

6.Lyophilizate for injection	-	-	1	1.19	1	1.19	1	1.29	3
7.Solution for injection	3	4.1	3	3.57	2	2.38	2	2.59	10
8.Vaginal tablets	7	9.58	9	10.71	9	10.71	8	10.38	33
9.Vaginal Gel	1	1.36	1	1.19	1	1.19	-	-	3
10.Syrup for oral drinking	-	-	3	3.57	3	3.57	3	3.89	9
11.Drops for oral drinking	2	2.73	1	1.59	1	1.19	1	1.29	5
12.Capsules for oral drinking	9	12.32	8	9.52	7	8.33	5	3.89	29
13.Powder for vaginal use	1	1.36	-	-	-	-	-	-	1
CIS	5	6.84	1	1.38	4	4.76	2	2.59	12
Uzbekistan	9	12.32	5	6.94	14	16.66	14	18.18	42
Foreign countries	59	80.84	66	91.68	66	78.58	61	79.23	252
Overall countries	73	100	72	100	84	100	77	100	306

State Register of drugs and medical products registered in the Republic of Uzbekistan. [4].

The analysis of obstetrics and gynecology drugs according to the main various sorts was studied. In this case, during the years 2017-2024, the composition of the pharmaceutical market of our Republic was based on the 13 type of medicines whose listed in the table above [4].

Conclusion

As it can be seen from the obstetrics and gynecology drugs, the obstetrics and gynecology drugs produced in foreign countries occupy a high place in terms of drug form,

Literature

1. Закон Республики Узбекистан ст. 2. «О лекарственных средствах и фармацевтической деятельности» (новая редакция) от 05.01.2016 г. <https://www.lex.uz/acts/2856466>
2. Ўзбекистон Республикасининг 1999 йил 19 августдаги №813-І сонли “Гиёҳвандлик воситалари ва психотроп моддалар тўғрисида”ги қонуни. <https://lex.uz/docs/86044>
3. Ўзбекистон Республикаси Вазирлар маҳкамасининг 2015 йил 12 ноябрдаги “Гиёҳвандлик воситалари, психотроп моддалар ва прекурсорларни Ўзбекистон Республикаси ҳудудига олиб кириш, ундан олиб чиқиш ва транзит тарзида ўтказиш тартибини, шунингдек уларнинг муомалада бўлиши юзасидан назоратни тақомиллаштириш тўғрисида” ги 330-сон қарори. <https://www.lex.uz/docs/2815340?ONDATE=15.02.2025>
4. Ўзбекистон Республикасида қайд этилган дори воситалари ва тиббий буюмлар Давлат Реестри 2017-2024 йиллар. <https://www.uzpharm-control.uz/>

type and number. Currently, most of the obstetrics and gynecology medicines that have passed the state register are medications produced in the countries of the overseas countries.

Based on these facts, we can conclude that: in 2020-2021, the figure of obstetrics and gynecology medicament produced by local manufacturers increased slightly, and after 2023, the amount and form of medicines did not stop growing. Similar time, the share of medicines bringing in from foreign countries increased. Commonwealth independent states remains slightly decreased.

5. Тилаков Ж.Р., Жалилов Ф.С., Хайдаров В.Р., Султонова Г.А., Темиров Б.Б. Пастилка дори шакли ва уни Ўзбекистон фармацевтика бозорида тутган ўрни // Ўзбекистон фармацевтик хабарномаси. – Тошкент, 2014. – №4. -Б. 47-51.
6. Мустафаев У.Ф., Жалилов Ф.С., Алиев Ж.Н., Зокирова Г.Р., Вахидова Н.М., Усмонова М.К. Этапизин дори воситасини УБ-Спектрометрия усулида чинлик ва микдорий таҳлил шароитларини ўрганиш // - “Тиббиётда янги кун” илмий-рефератив, маънавий-маърифий журнал. Абу Али ибн Сино номидаги Бухоро давлат тиббиёт институти №2 2020 йил Б. 203-206.
7. Мустафаев У.Ф., Жалилов Ф.С. Качественный анализ амиодарона с методом термодесорбционной поверхностно-ионизационной спектроскопии // Материалы международной научно-практической конференции “Современная фармация: новые подходы в образовании и актуальные исследования”. Нур-Султан, 2021г. стр. 156-159.
8. Мустафаев У.Ф., Жалилов Ф.С. Олимжонов К.О. Современный спектроскопический метод анализа амиодарона выделенного из крови // Medical drugs for humans. Modern issues of pharmacotherapy and prescription of medicine. March 11-12, Kharkiv, Ukraine. 2021, ст. 584-586.
9. Булусов Ж.К., Мустафаев У.Ф., Шукуруллаева Д.З. Суд-кимё амалиётида УБ-Спектрофотометрия усулида дигоксинни таҳлилини ўрганиш. // “Ёшларни қўллаб қувватлаш ва аҳоли саломатлигини мустаҳкамлаш йили” га бағишланган талабалар илмий жамиятининг аънанвий 78-илмий анжумани, Тошкент. 2021 йил. Б. 171-173.
10. Bahtiyorov D.Sh., Mustafayev U.G'. Digoksin yurak glikozidini zamonaviy spektroskopik usulda tahlili // “Farmatsevtikada iqtidorli yoshlarning ilmiy salohiyati” 80-talabalar ilmiy jamiyati ilmiy anjumani to'plami, Toshkent. 03.2023 y. 77-78 b.
11. Mustafayev U.G', Akramova D.Z., Bahtiyorov D.Sh., Jalilolov F.S. Digoksin dori moddasini zamonaviy spektroskopiya usulida tahlili // “Zamonaviy farmatsevtika sohasining rivojlanishining dolzarb masalalari” mavzusidagi I Respublika ilmiy-amaliy anjumani. 61-63 b. Toshkent. 04.2023 y.
12. Жалилов Ф.С. Антидепрессантларнинг ўзбекистон фармацевтика бозорида тутган ўрни // Аптеки Узбекистана. – Тошкент, 2016. – №3. -Б. 8-11
13. Умарова З.Ф., Хамидова М.О., Зайнутдинов Х.С., Зияева М.Н. Артериал гипертензия касаллигини даволашда қўлланиладиган дори воситалари ассортиментининг контент таҳлили // Ўзбекистон фармацевтик хабарномаси. – Тошкент, 2017. – №4. -Б. 31-37.
14. Алиев С.У., Зайнутдинов Х.С. Анализ рынка йодсодержащих лекарственных средств, применяемых при эндемическом зобе // Фармацевтический журнал. – Ташкент. 2009. №2. –С. 9-
15. Г.Р. Зокирова, Ф.С. Жалилов, Г.А. Султонова Нейролептик дори воситаларнинг контент таҳлили // Ўзбекистон фармацевтик хабарномаси. – Тошкент, 2021. – №3-4. – Б. 27-31
16. Жалилов Ф.С. Антидепрессантларнинг ўзбекистон фармацевтика бозорида тутган ўрни // Аптеки Узбекистана. – Тошкент, 2016. – №3. -Б. 8-11
17. Saidkarimova Y.T., Jalilov F.S. The role of lamotrigine in the pharmaceutical market of Uzbekistan. Abu Ali Ibn Sina and innovations in modern pharmaceuticals. Collection of articles of the 5th international scientific and practical conference. - Tashkent. 2022. - P. 185-186.