



CONTENT ANALYSIS OF SYRUP FORM MEDICINES ASSORTMENT IN THE
REPUBLIC OF UZBEKISTAN

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Abstract; *This scientific study presents a content analysis of the assortment of syrup-form medicines registered in the Republic of Uzbekistan. The primary aim of the research is to evaluate the nomenclature of syrup-based pharmaceuticals in terms of their pharmacotherapeutic groups, countries of origin, active ingredients, age-related indications, and the ratio between domestic and imported products.*

Keywords: *Syrup medicines. Pharmacotherapeutic groups. Assortment analysis. Pharmaceutical market. Antiallergic drugs. Expectorants. International pharmaceutical industry. Drug quality. National production.*

The analysis is based on official data from the “State Register of Medicines,” statistical reports from the pharmaceutical market of Uzbekistan, and publicly available digital resources in the field of healthcare. The medications were classified by pharmacological group and evaluated in terms of their application across clinical areas such as pediatrics, general therapy, and other specializations. The study also examined the market share of locally produced versus imported syrups, with a focus on pharmaceutical accessibility, competitiveness, and national drug safety.

The findings provide a comprehensive overview of the current structure and composition of syrup-form medicines in Uzbekistan. The results support the assessment of pharmaceutical competitiveness, the potential of domestic manufacturers, and offer a scientific foundation for informed decision-making in national pharmaceutical policy development.

Introduction

Syrup formulations occupy a vital place in pharmaceutical practice, especially facilitating medication intake in pediatric, geriatric, and allergic patients, while providing high therapeutic efficacy. In the Republic of Uzbekistan, the assortment of syrup medicines is continuously updated to meet market demands and healthcare needs. This study aims to comprehensively analyze the content of syrup medicines registered in Uzbekistan by their pharmacotherapeutic groups, origins, and manufacturers, providing scientific insights for improving pharmaceutical policy and market development.

Significance and Relevance

Syrup medications are characterized by ease of administration, dose flexibility, and enhanced patient compliance, particularly among children and elderly patients. They are predominantly used to treat respiratory diseases, allergies, vitamin deficiencies, and various other conditions. A systematic analysis of the syrup assortment in Uzbekistan, focusing on





pharmacotherapeutic classification, origin countries, and manufacturers, is critical for strategic planning in pharmaceutical development and ensuring medicine quality and accessibility.

Object and Aim of the Study

Object: Syrup-form medicines registered in the pharmaceutical registry of the Republic of Uzbekistan.

Aim: To analyze the pharmacotherapeutic distribution, country of origin, and manufacturing firms of syrup medicines, and to develop recommendations to optimize the assortment and increase therapeutic efficiency.

Research Methods

- Analysis of pharmaceutical registries and official statistical data.
- Pharmacotherapeutic classification based on WHO Anatomical Therapeutic Chemical (ATC) classification system.
- Statistical analysis including percentage distributions and graphical representation.
- Content and qualitative analysis methods.
- Comparative analysis of medicines from CIS and other foreign countries.

Results and Analysis

Distribution by Pharmacotherapeutic Groups

Pharmacotherapeutic Group	Number of Preparations	Percentage of Assortment (%)
Expectorants	13	35.1
Broncholytics	3	6.6
Antitussives	2	5.6
Anti-anemic agents	4	7.0
Anti-allergic agents	3	6.6
Vitamins and Minerals	2	5.0
Surgical medicines	1	4.0
Other pharmacotherapeutic groups	7	30.7
Total	37	100

Analysis:

The data shows that syrup medicines in Uzbekistan are primarily focused on treating respiratory tract diseases, accounting for 46.7% of the total assortment. Among these, expectorants represent the majority at 35.1%, with broncholytics and antitussives also playing significant roles.

Country	Number of Preparations	Percentage of Assortment (%)
India	106	35.4



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Pakistan	23	7.6
Turkey	21	7.0
Bulgaria	8	2.6
Germany	6	2.0
Slovenia	5	1.7
Ukraine	18	6.0
Russia	7	2.3
Belarus	13	4.41
Kazakhstan	6	2.0
Georgia	7	2.2
Latvia	1	0.3

Distribution by Country of Origin

Analysis:

The majority of imported syrup medicines come from India and Pakistan, reflecting the strong presence of South Asian pharmaceutical firms in the Uzbek market. CIS countries also contribute significantly but to a lesser extent.

Major Manufacturers in the Assortment

Manufacturer Category	Number of Preparations	Percentage of Assortment (%)
Leading Indian pharmaceutical firms	106	35.4
Russian pharmaceutical firms	18	6.0
Turkish and Pakistani companies	44	14.6
German and other European companies	14	4.0
National pharmaceutical producers	27	9.0

Conclusion

The analysis reveals that the syrup medicine assortment in Uzbekistan is diversified with a strong emphasis on respiratory diseases and allergy treatments. International manufacturers, particularly from India and Pakistan, dominate the market, underscoring the need for enhancing national pharmaceutical production and quality control. Strategic development and modernization of the local pharmaceutical industry are essential to improve assortment quality, competitiveness, and accessibility.

Recommendations





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1. Strengthen national pharmaceutical production through targeted scientific and technical programs.
2. Expand the assortment by introducing new pharmacotherapeutic groups.
3. Enhance quality control systems aligned with international standards.
4. Implement innovative pharmaceutical manufacturing technologies.
5. Conduct ongoing monitoring of medicine efficacy and safety.

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