CEUTICAL **IN UKRAINE** STRY 2020



INTRODUCTION

Aim of this study

The responsibility of pharmaceuticals is to provide quality medicines to prolong life and improve its quality. The development of this industry contributes to the overall growth of the economy and wealth.

Now pharmaceuticals are actively developing. Technological changes allow improving approaches to treatment and improve life itself, regulatory – to accelerate the introduction of new effective medicines.

We researched the pharmaceutical industry in Ukraine to show how it works - becoming more technological, modern and innovative. The introduction of European standards in production, together with high investment intensity makes pharmaceuticals one of the most dynamic industries in the economy with high added value. The market size continues to expand; the share of expensive and prescription medications is growing. The pharmaceutical industry is increasing the availability of advanced medicines and making a significant contribution to economic development.

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PHARMACY REGULATION 3







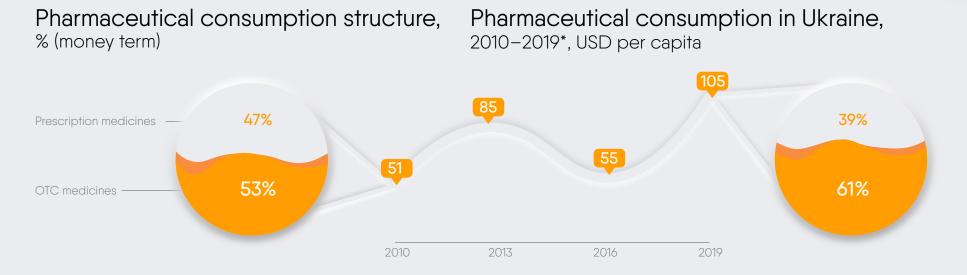
control production remotely



PHARMACEUTICAL INDUSTRY IN UKRAINE

PHARMACEUTICAL CONSUMPTION

PHARMACEUTICAL INDUSTRY IN UKRAINE





Source: Apteka Weekly 1-9, OECD

*Excluding the Crimean Autonomous Republic and the territories of Donetsk and Luhansk Oblasts (in 2015-2019)

5

LEAD

ДАРНИЦЯ

MOST POPULAR MEDICINES IN UKRAINE

6

LEAD

ООРНИЦЯ

Pharmacy sales leaders, 2019, ranked by sales (relative to previous year)

Place in the ranking	Brand		Area of application	Is a prescription required?
1+10	XARELTO	٥	Blood and blood forming organs	+
2-1	NUROFEN		Musculo-skeletal system	-
3-1	NIMESYL		Musculo-skeletal system	+
4+1	SPAZMALHON	Ę	Alimentary tract and metabolism	-
5-2	NATRIIU KHLORYD	٥	Blood and blood forming organs	+
6	SYNUPRET	<u> </u>	Respiratory system	-
7	REOSORBILAKT	٥	Blood and blood forming organs	+
8	NO-SHPA	Ą	Alimentary tract and metabolism	-
9+1	TSYTRAMON	£3	Nervous system	-
10-6	AKTOVEHIN	Ę	Alimentary tract and metabolism	+
Neuroeu Antelio Washi Á				

PHARMACY MARKET DYNAMICS

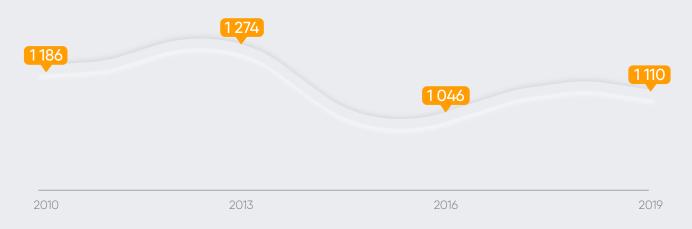
PHARMACEUTICAL INDUSTRY IN UKRAINE

Share of pharmacy segment in pharmaceutical market, 2019 p., % (money term)



Pharmacy sales, 2010–2019, mln pc

Pharmacy market, 2010–2019, bln USD



The pharmacy sector is the basis of Ukraine's pharmaceutical market

There is a tendency of the share of foreign manufacturers decrease in in-kind term and increase in money term

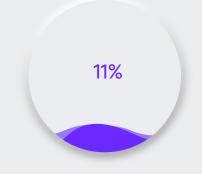


HOSPITAL MARKET DYNAMICS

0.7

2013

Share of hospitals in pharmaceutical market 2019 p., % (money term)



Hospital procurements, 2010–2019, mln pc

Hospital market, 2010–2019, bln USD

0.4

2010



CAGR for the past

five years

0.3

2016

0.4

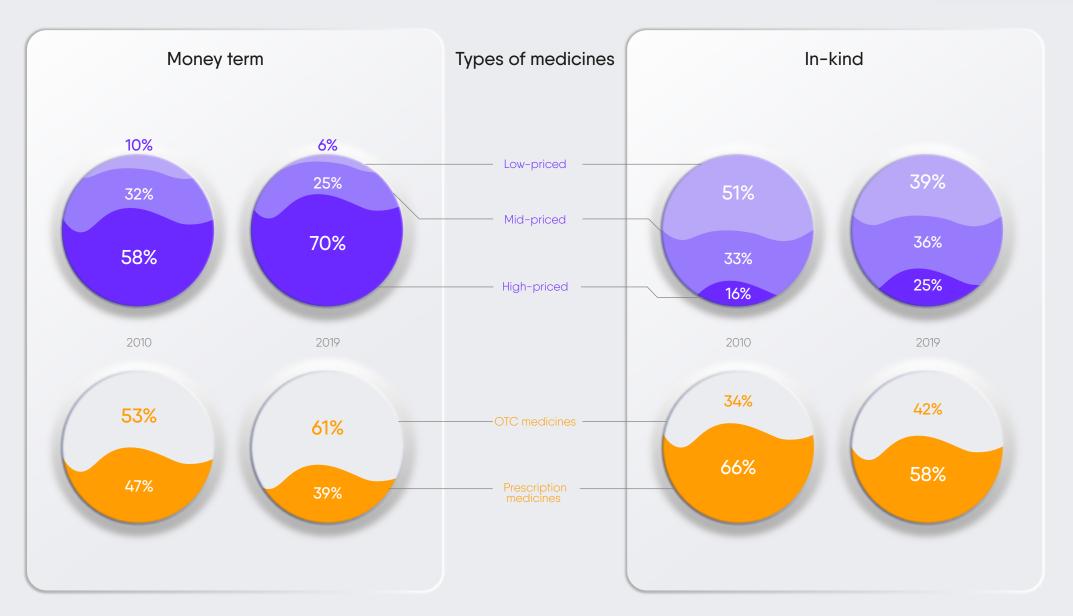
2019

The growth rate of the hospital market is much lower than the market



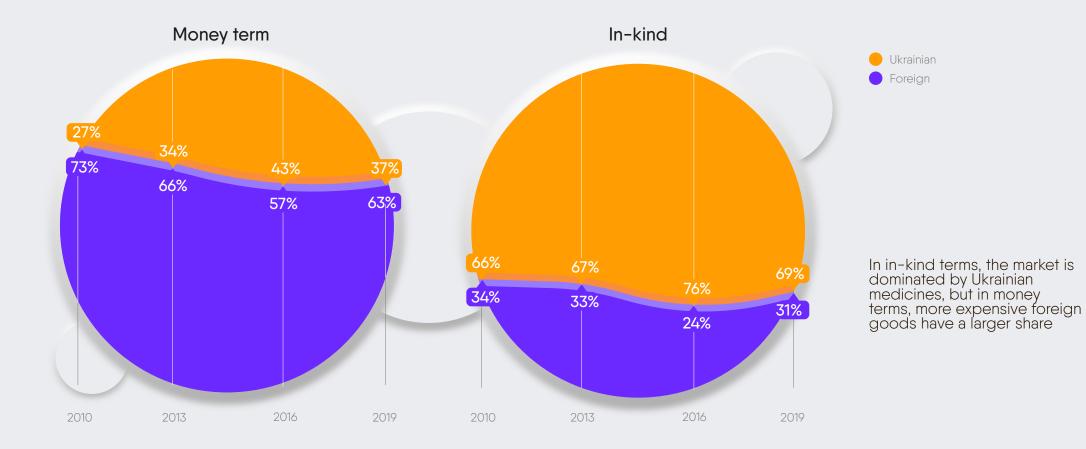
PHARMACY SALES SEGMENTATION

PHARMACEUTICAL INDUSTRY IN UKRAINE



PHARMACY MARKET STRUCTURE

Pharmacy sales split by origin, %

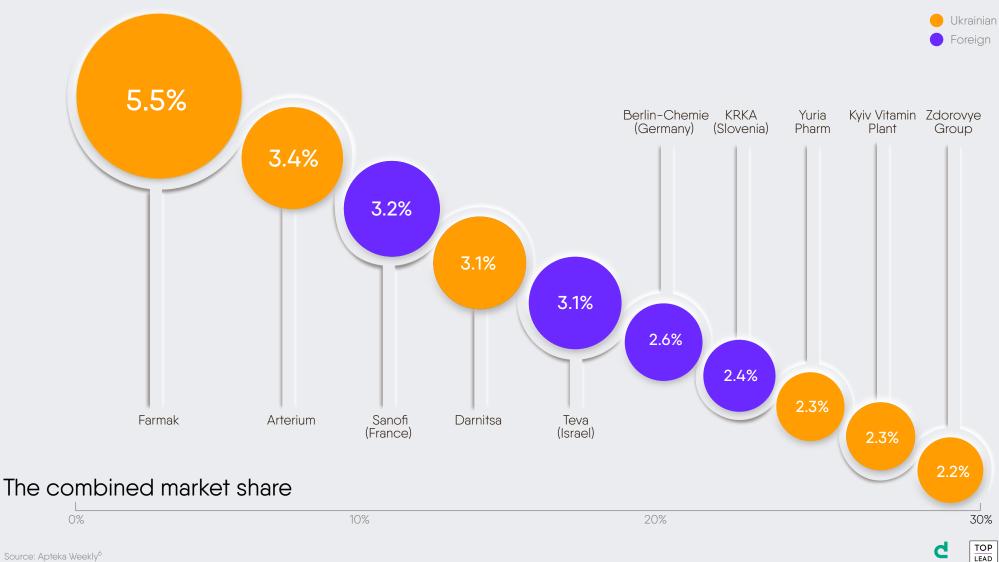


PHARMACEUTICAL INDUSTRY IN UKRAINE

PHARMACY MARKET LEADERS

PHARMACEUTICAL INDUSTRY IN UKRAINE

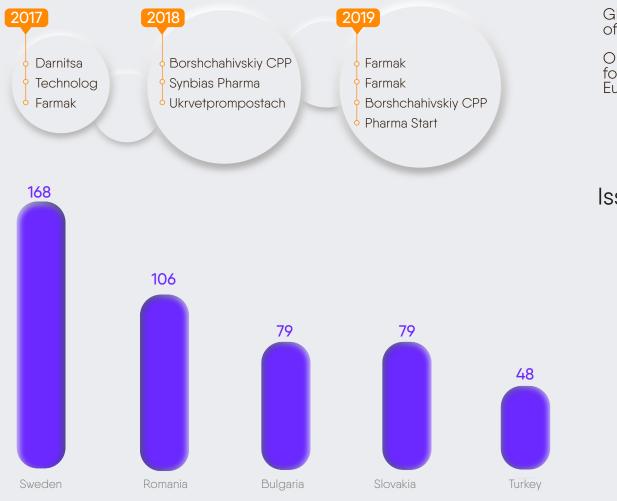
TOP-10 companies based on sales of «pharmacy basket» products, 2019, share of market, % (money term)



ДАРНИЦЯ

PHARMACEUTICAL MANUFACTURERS

Ukrainian companies holding GMP certificate for manufacturing sites from an EU-member state regulatory authority, 2016–2019



GMP is a set of rules and requirements for the organization of production and quality control of medicines

Obtaining a GMP certificate is a mandatory requirement for registration and sale of a medicinal product on the European market

Issued GMP certificates for manufacturing sites from an EU-member state regulatory authority by countries, 2016–2019, pcs

18

Lithuania

26

C

10

Ukraine

Belarus

12

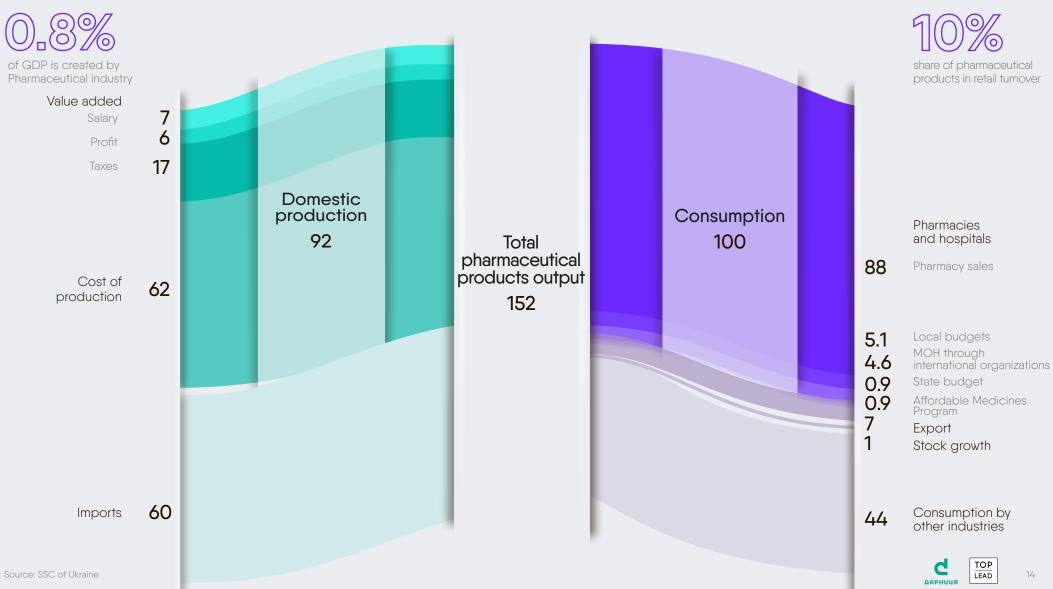
TOP

LEAD

PHARMACEUTICAL INDUSTRY IN THE ECONOMY

ROLE OF PHARMACEUTICAL INDUSTRY IN ECONOMY

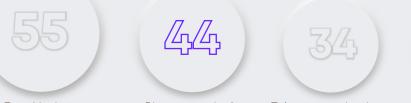
Output of pharmaceutical products, 2018, bln UAH (at consumer prices)



PHARMACEUTICAL INDUSTRY IN THE ECONOMY

INVESTMENT IN PHARMACEUTICAL INDUSTRY

Average investment intensity by industries, 2018, kopiyok of capital investments per 1 UAH of value added



Food industry

Pharmaceuticals

Telecommunications and IT

s Coke production and oil refining



Agro-industrial complex



Finances

and insurance



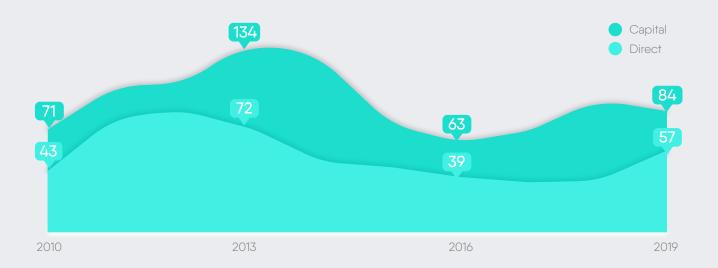


PHARMACEUTICAL INDUSTRY IN THE ECONOMY

Trade and repair

Textile industry

Direct and capital investments, 2010–2019, mln USD



The volume of investment in the pharmaceutical industry has not recovered to the pre-crisis level yet. However, the intensity is higher than the average in other sectors

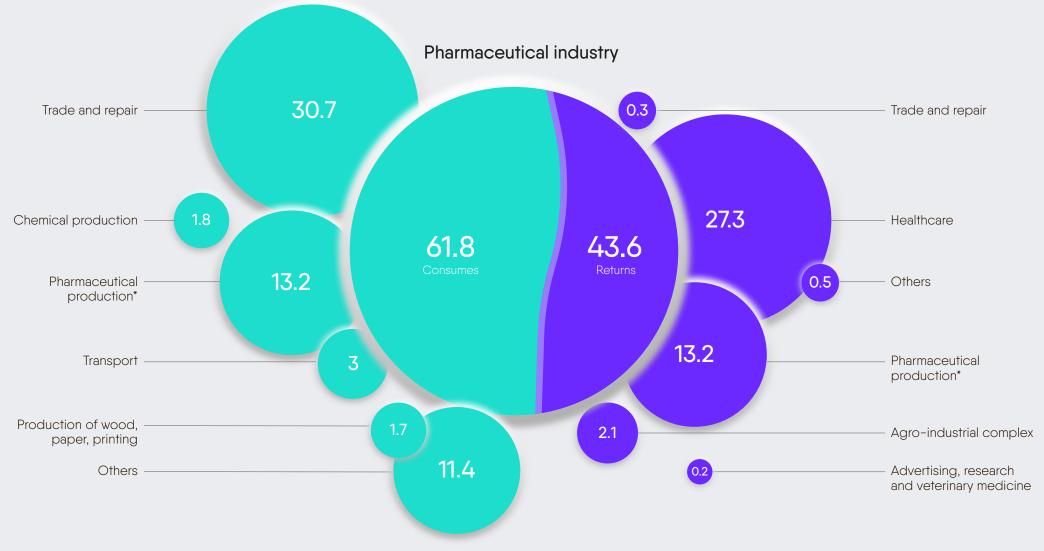
Foreign investments grow steadily in recent years



IMPACT ON OTHER INDUSTRIES

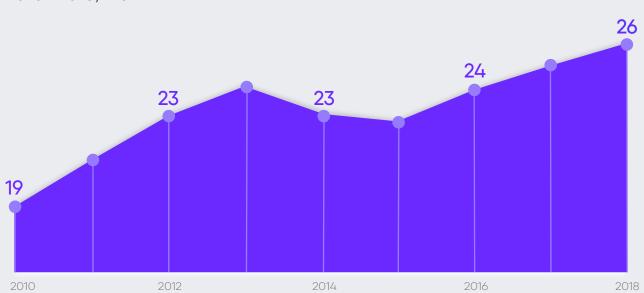
PHARMACEUTICAL INDUSTRY IN THE ECONOMY

Interaction of pharmaceutical production with other industries, 2018 bln UAH



WORKFORCE

Number of employees, 2010–2018, ths



Value added created by one employee mln UAH, 2018

PHARMACEUTICAL INDUSTRY IN THE ECONOMY



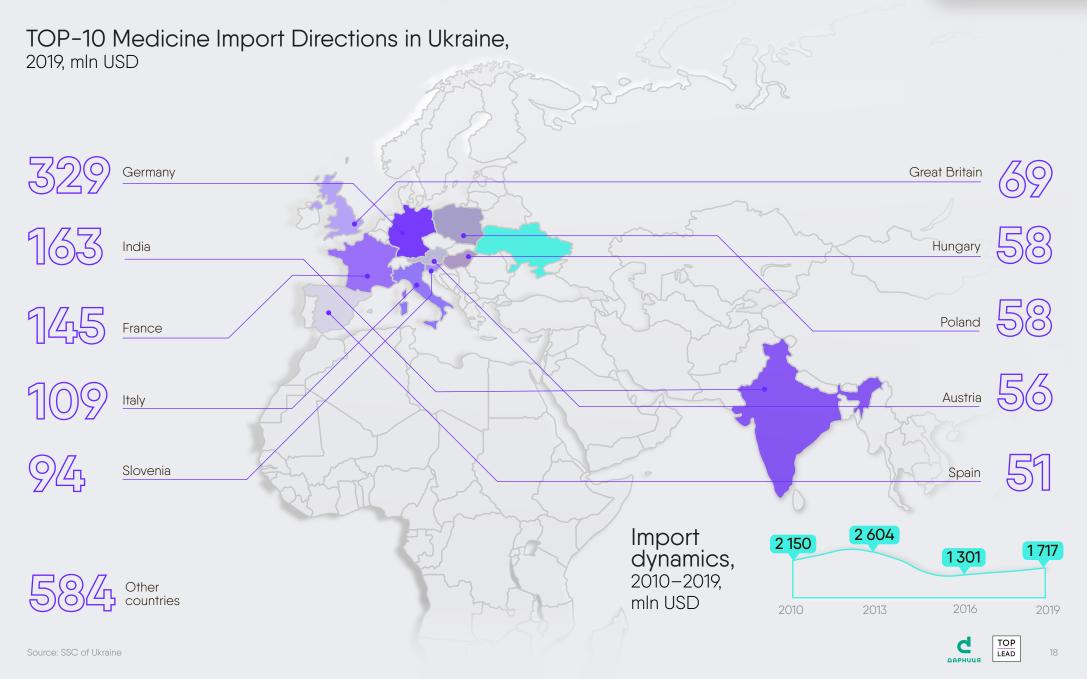
Pharmacy educational institutions, number of institutions and students in the 2019/20 academic year





MEDICINE IMPORT IN UKRAINE

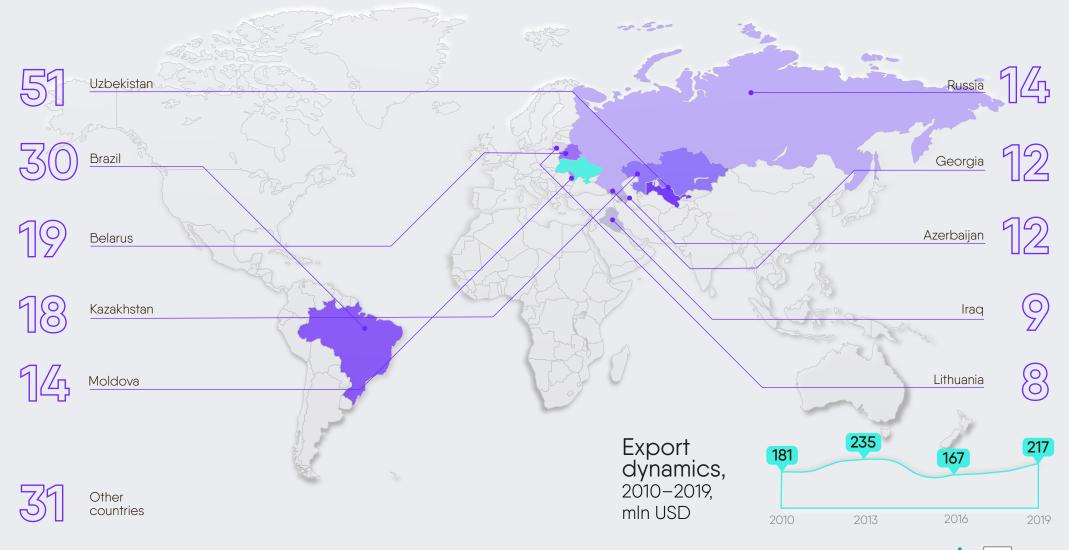




MEDICINE EXPORT FROM UKRAINE

PHARMACEUTICAL INDUSTRY IN THE ECONOMY

TOP-10 Medicine Export Directions from Ukraine, 2019, mln USD





19

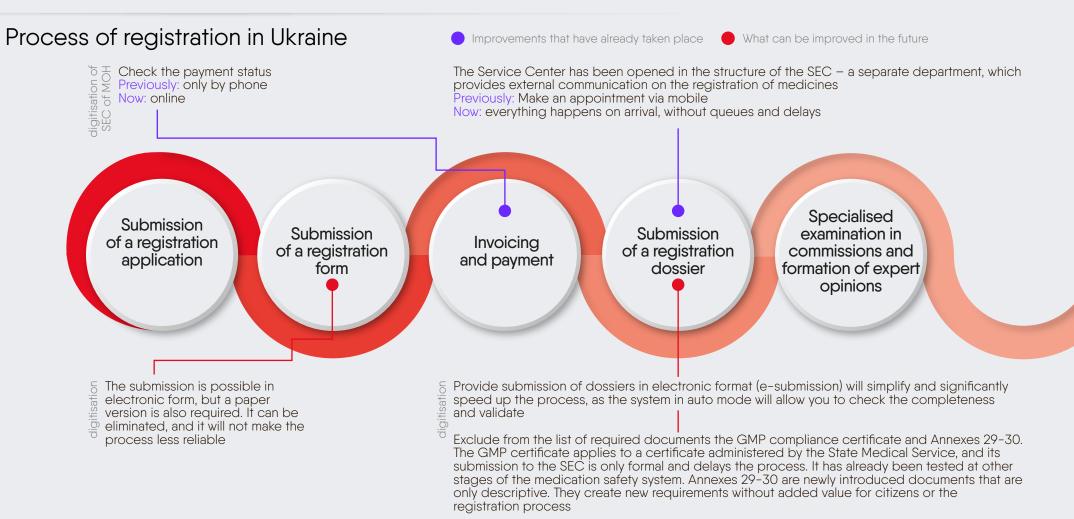
С

PHARMACY REGULATION

REGISTRATION OF MEDICINES – CONTINUOUS IMPROVEMENTS

PHARMACY REGULATION

Medicine registration is an essential component of the medication safety system. At the same time, it is a complicated and time-consuming process that has recently been simplified and accelerated

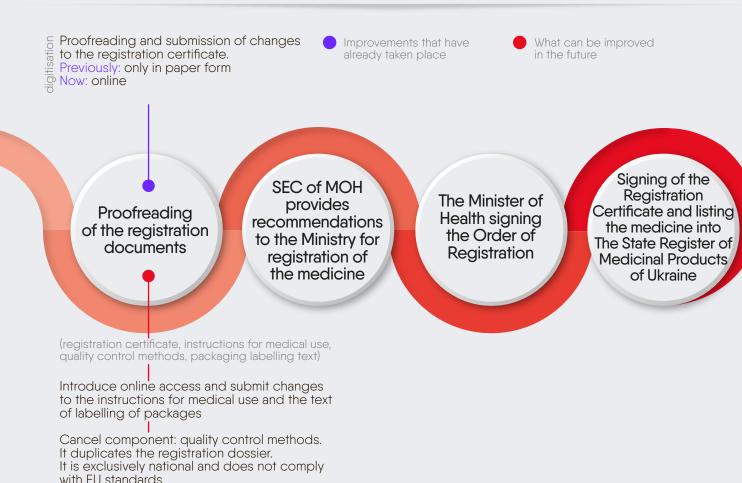






COVID-19 Case Study

The State Expert Center (SEC), as one of the central bodies of the registration process, has successfully switched to remote operation and ensured the continuity of the medicine registration process



General trends and necessary changes in the process of medicine registration

- Digitisation of some registration processes over the last two years has accelerated the registration process by one month on average digitisation
- Complete the digitisation of the entire registration process that will speed it up for another three months. Accordingly, it will accelerate citizens' access to new medicines
- Improving the visualisation system, informativeness of the SEC website and launching new communication channels (Telegram) has significantly simplified the process of medicine registration

digitisation of SEC of MOH

- Continue to develop and improve the visualisation system that will allow the applicant to monitor the entire registration process remotely and respond quickly if necessary
- Digitisation of the re-registration process allowed to achieve a significant reduction in the process by speeding it up by two months
- digitisation
- Introduce a fully digital medicine re-registration mechanism and simplify it to two primary documents: adverse reaction reports and periodic safety reports



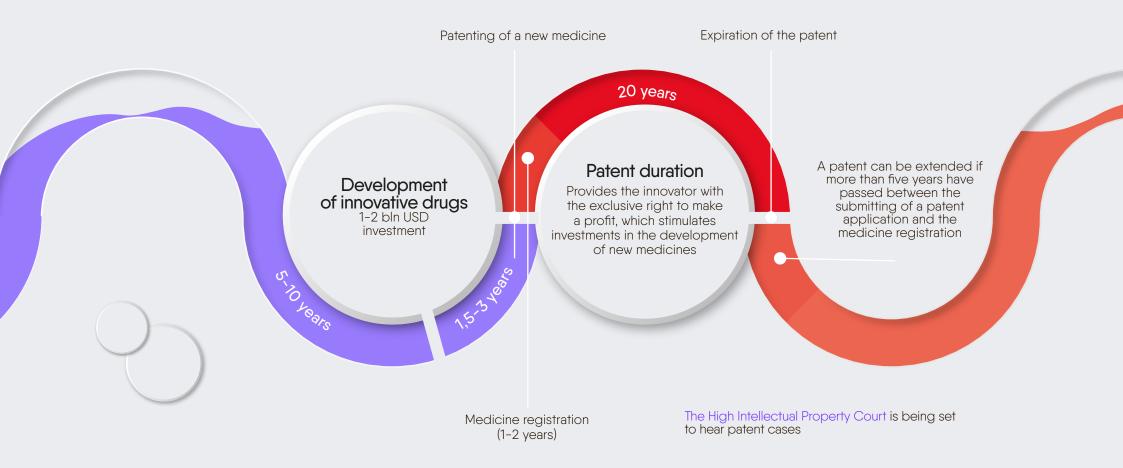
PHARMACEUTICAL PATENTS

PHARMACY REGULATION

A pharmaceutical patent is a document certifying the authorship and ownership of a medicinal product

Patent regulation is based on the balance of public interests and the interests of the right holderuka

Patenting of medicines in Ukraine



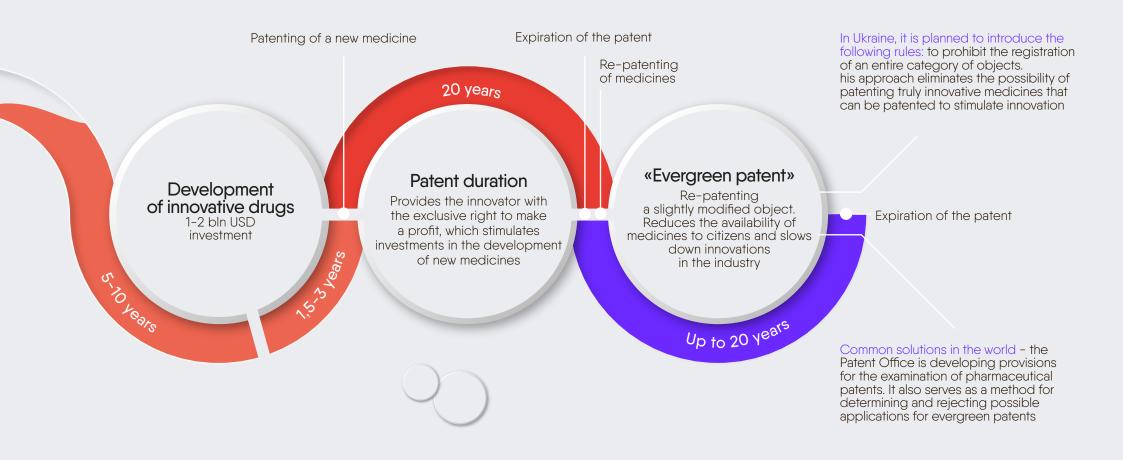
ООРНИЦИ

CHALLENGES IN PATENTING OF MEDICINES

The term **«evergreen patents»** refers to the problem of re-patenting similar medicines

In Ukraine, it is planned to introduce rules to avoid the problem of the bill Nº 2259 dated 11.10.2019

The mechanism of functioning of evergreen patents





PHARMACY REGULATION

INNOVATIVE MEDICINES AND GENERICS

Generic is an unpatented medicine, a copy of the original medication, the active substance of which has expired patent protection

Advantages of generics

High-quality

Same as the original medicine

Affordable price Are 20-70% cheaper than the original medicinet Initiation of innovations Introduce the latest developments in clinical practice

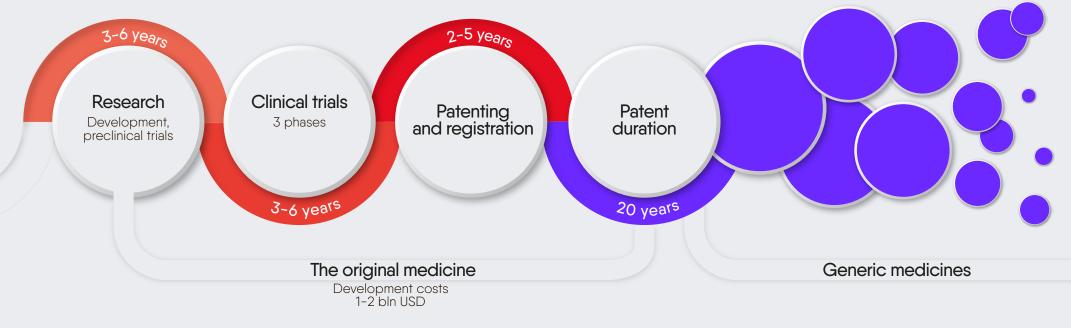
Stimulate to developments

They force pharmaceutical companies to implement promising innovations more actively

After the expiration of the patent, other companies can produce and sell similar to the original medicine, i.e. generics

The life cycle of new medicines,

development and sale of a new medicine







aenerics in 2016

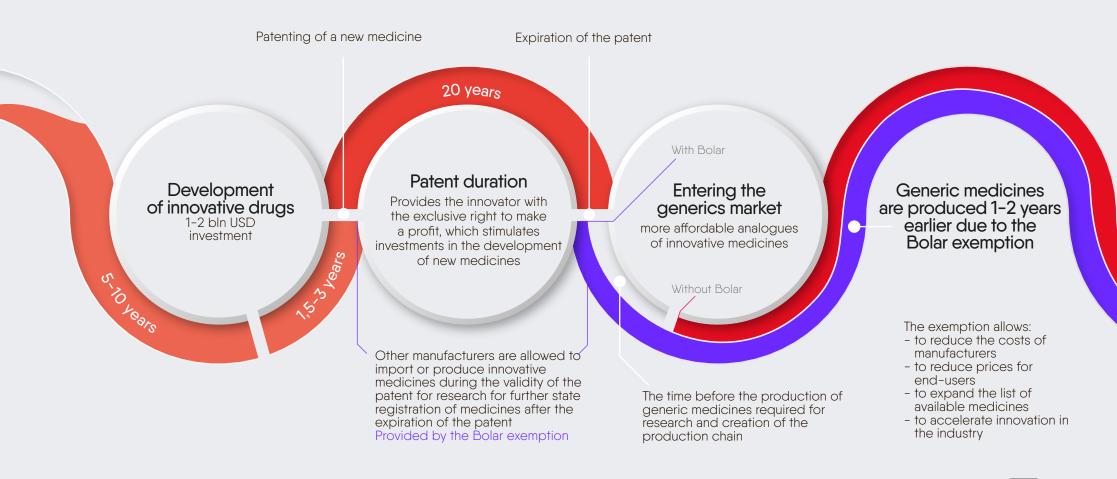


ACCELERATION OF GENERIC PRODUCTION

The Bolar exemption accelerates the market entry of generic medicines while protecting the rights of innovative companies The US Congress first approved it in 1984 Introduced in Ukraine by Bill №2429 of November 13, 2019

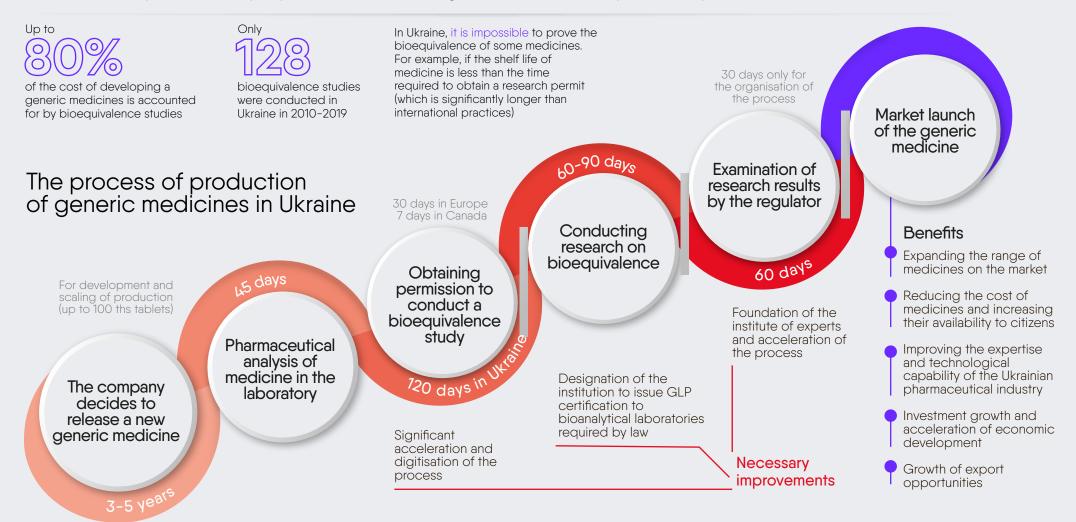
PHARMACY REGULATION

The mechanism of functioning of the Bolar exemption



GENERICS - THE FIRST STEP OF PHARMACEUTICAL INDUSTRY DEVELOPMENT

The market of generic medicines is a highly competitive segment of pharmaceutical production, where the speed of permitting processes is vital for development. The only way to enter the market of generic medicines is to prove bioequivalence with innovative medicines



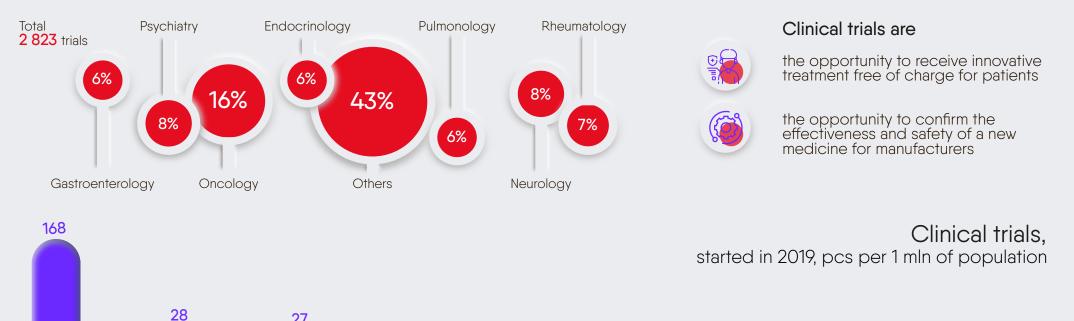


PHARMACY REGULATION

CLINICAL TRIALS



The structure of clinical trials in Ukraine by profile as of 03.06.2020,%





HEALTHCARE SYSTEMS

Healthcare funding schemes and amounts, 2017, the USD PPP per person



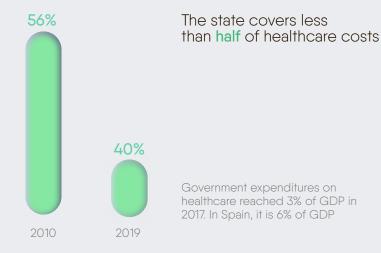




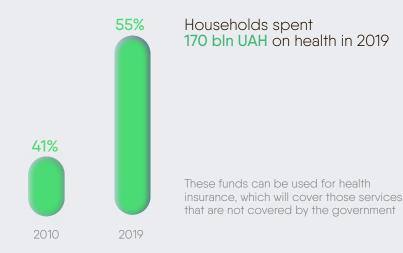
HEALTHCARE IN UKRAINE

PHARMACY TRENDS

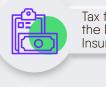
Share of government expenditures on healthcare



Share of household expenditures on health



Medical reform in Ukraine



Tax funds go to the National Health Insurance Fund



NHIF forms a guaranteed package of medical services, which is funded by the government



NHIF pays hospitals for services provided to patients The patient receives medical services without payment or with partial payment

A market of medical services where the patient chooses where to be treated has been created An electronic eHealth system, which provides automation of accounting and management of medical information has been created

3 stages of reform if Ukraine leaves by Spanish medicine

Creation of the National Health Insurance Fund and the program of medical guarantees

Stage 2

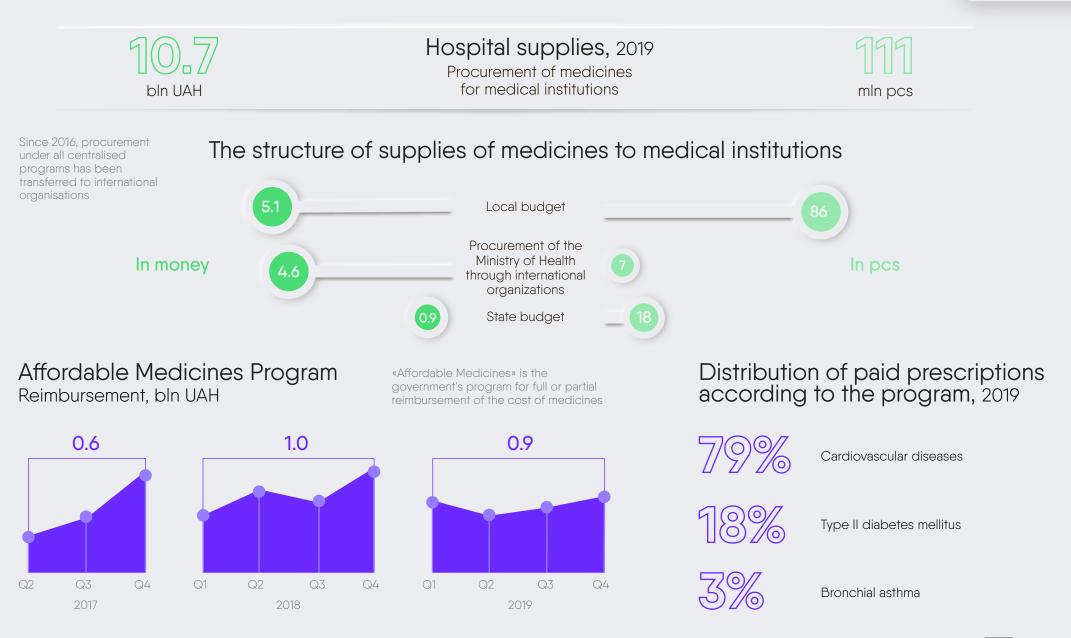
Adaptation of institutions to new models, creation of the market of medical services

We are here



Adoption of the law on national voluntary insurance, the involvement of both the state and private insurers

AVAILABILITY OF MEDICINES



32

SERIALISATION MANUFACTURING



Uncontrolled medicine trafficking leads to counterf

According to the WHO, every tenth medicine in developing countries is a counterfeit

Serialisation Manufacturing is



Labelling of medicine packaging

Inclusion of them in the state system of monitoring the circulation of medicines



The consumer To get original and safe medicine



The manufacturer To protect products from counterfeiting

The State

and increase exports

It will help

Monitor medicine circulation and increase public confidence in medicines

The concept of implementation of the state policy on prevention of falsification of medicines



CONTRACT MANUFACTURING

117

28%

2023 forecast

Contract manufacturing is an agreement under which the production line of a pharmaceutical company produces products of another company

What's in it				
Company-tenant	Manufacturer			
Produces medicines without creating production facilities	Earns on capacity without developing new medicines			
Rents production facilities at a lower cost	Produces medications without a cycle of development and research			
Leases production facilities with unique technologies				
The role of the contract production in the total production of medicines in the world, % and bln US	Conditions for the development of contract manufacturing in Ukraine:			
	growth of the national market			

- improvement of legislation in the field of pharmaceutical production
 - government orientation on the development of national pharmaceutical production
 - development of unique technologies in the production of medicines

90

26%

2019



COVID-19 CHALLENGE AND THE ROLE OF THE PHARMACEUTICAL INDUSTRY

An infectious disease control system

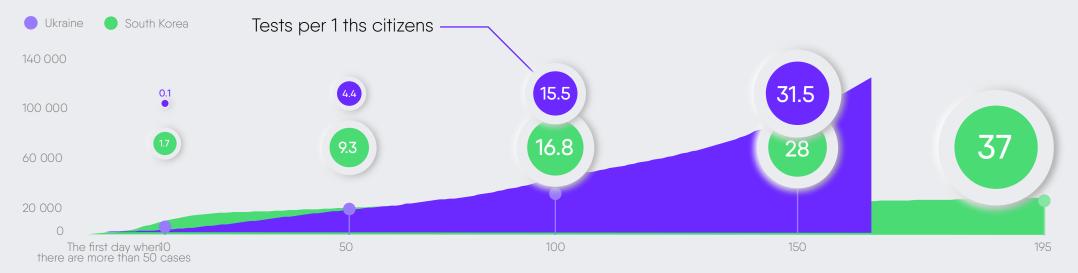


Distribution of COVID-19 and its detection, the number of reported cases from the first day

when there are more than 50 cases

Rapid detection and isolation of the disease. The first and most effective step in the spread of infection. The ability of the pharmaceutical industry is the basis for the rapid setup and scaling of test production

Testing in Ukraine was significantly delayed at the beginning due to both inefficient management and legislative barriers to the development of the pharmaceutical industry in Ukraine



INNOVATIONS IN A PANDEMIC CONDITION

The pandemic has prompted innovations



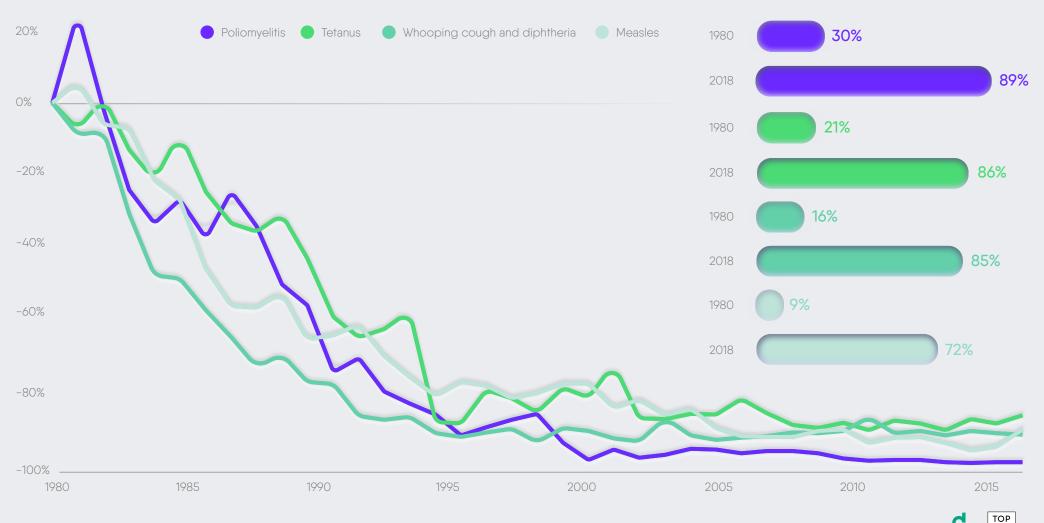


VACCINATION - THE BASIS OF FIGHTING INFECTIONS



Change in the number of cases compared to 1980, %

Vaccination of the target grou*, %



LEAD

ДАРНИЦЯ

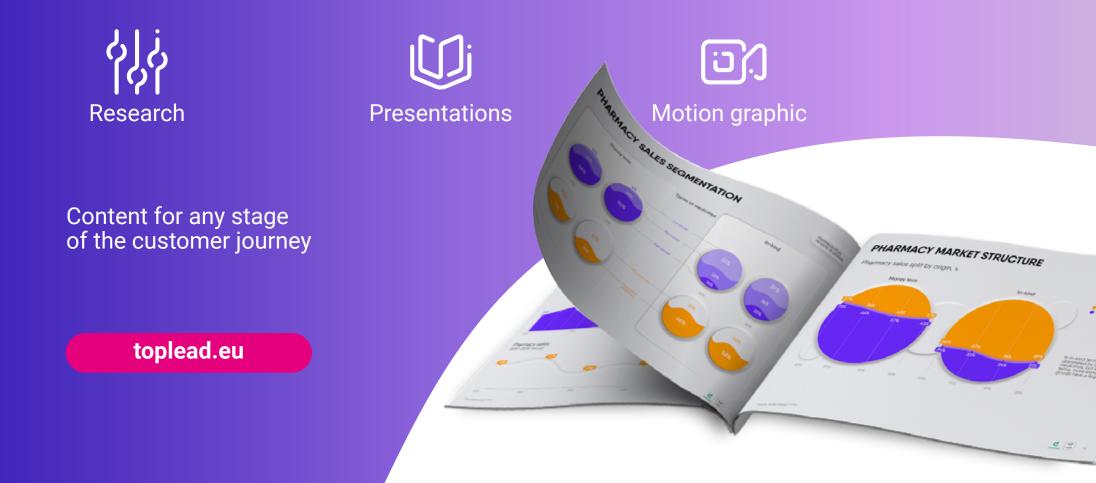
SOURCES

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- The State Expert Center of the Ministry of Health of Ukraine, PE (SEC of MOH)
- The Law of Ukraine "On medicinal products"
- Cabinet of Ministers of Ukraine the Ministry of the Healthcare of Ukraine
- Order of the Ministry of Health of Ukraine, No. 690 "About approval of the Procedure for carrying out clinical testing of medicines and examinations of materials of clinical testing and Standard regulations on the commissions on questions of ethics"
- Order of the Cabinet of Ministers of Ukraine Nº301-p "On approval of the Concept of implementation of the state policy on prevention of falsification of medicines and approval of the plan of measures for its implementation"
- Order of the Ministry of Health of Ukraine of 26.08.2005, No. 426 "On approval of the procedure for the examination of the materials for medicinal products which are submitted for the state registration (re-registration), as well as for the examination of materials on changes to registration materials during the validity of the Registration Certificate"
- Order of the Ministry of Health of Ukraine, No. 460 "About modification of the Procedure for conducting examination of registration materials on medicines which move on state registration (re-registration), and also examinations of materials about modification of registration materials throughout action of the registration certificate and approval of the Procedure for test of the materials enclosed to the application for state registration of separate medicines concerning their amount"
- the National Health Insurance Fund
- Alexander Torgun
- Decree of the Cabinet of Ministers of Ukraine of 26.05.2005, No. 376 "On approval of the procedure for state registration (re-registration) of medicines and fees for their state registration (re-registration)"
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- Evaluate
- FTC
- IFPMA
- OECD
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