

Package, marking of drugs

Plan of the lecture:

- 1. Classification of finished drug products (FDP).**
- 2. General requirements showed to quality of FDP.**
- 3. Packages for FDP and requirements showed to them.**
- 4. Marking of FDP package.**

Classifying of finished drug products

By pharmacological action

By application method

By kinds of containers and
package

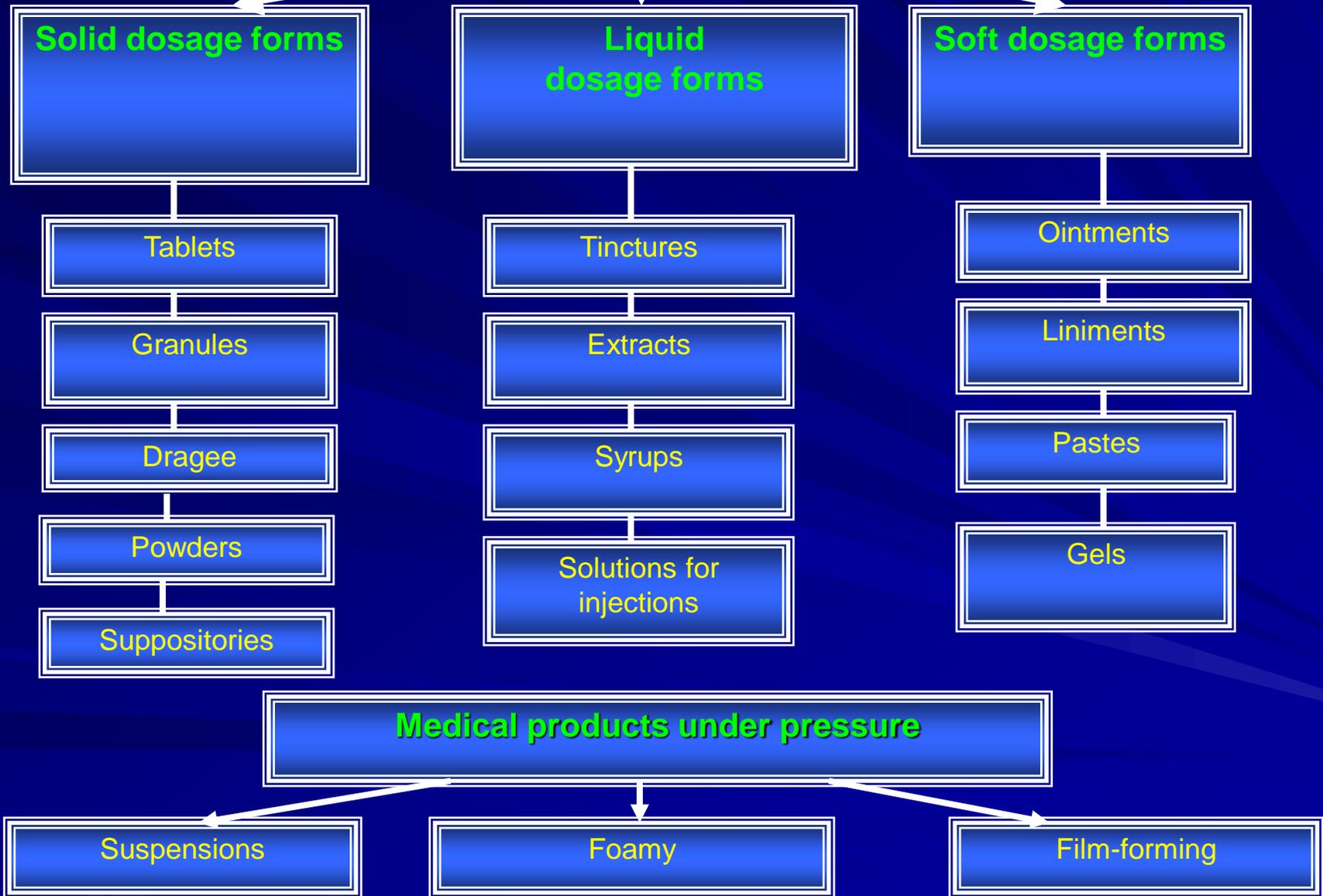
By aggregative state

By shelf-lives

By storage conditions

By toxicity

By aggregative state all drugs are classified as:



Parameters of drug quality

Consumer ones

Dosage form

Appearance

Package

Organoleptic ones

Color

Smell

Taste

Quality parameters of drugs to be inspected by a pharmacist while accepting them

Tablets

Proper shape

Unbroken edges
without honeycombed
areas

The surface should be
smooth and
homogeneous

Dragee

Proper spherical
shape

Homogeneous in colouring

Equal and smooth

Granules

Homogeneous in
colouring

Their size should
be 0,2-3 mm

Quantity of smaller
and larger particles
should not exceed
5 %

Quality parameters of drugs to be inspected by a pharmacist while accepting them

Liquid dosage forms

Taste (randomly for infant drugs)

Transparence

Absence of stratifying

Powders

Loose

Homogeneous across the whole mass

Uniformity of particles

Eye drops

Stable

Absence of mechanic impurities

Quality parameters of drugs to be inspected by a pharmacist while accepting them

Solutions for injections

Absence of mechanic impurities

Colouring should correspond to those of the reference solution

Ointments and liniments

Should have capability to smearing

Plastic

Homogeneous

Suppositories

Homogeneous

Proper shape stated in RD

Sufficient hardness

Quality parameters of drugs to be inspected by a pharmacist while accepting them

Plasters

Homogeneous

The sticky layer should have necessary adhesion onto skin

Capsules

Proper shape

Transparent or painted

Should not have air bubbles

Should not have dust

Pressurized drugs

Package should provide tightness (absence of signs of leakage)

Package of drugs

The purposes of drug package

To keep quality of contents during all roads from the manufacturer to the consumer

To protect from harmful influence of environment

To provide rational preparation of substances for transportation, moving, warehousing and consumption

In case of group package to form the block convenient for manipulation (moving)

Classifying of package

Initial
(immediate)



is intended to provide necessary conditions for long safety of medical products therein

Secondary
(outer)



is intended for protection of initial (immediate) packages and for more detailed complex of informative data

Group



Represents group of initial or secondary packages

Transport



It is package in transport containers in which production is delivered to destination points

General requirements to package of drugs

To keep quality of contents during the whole transit chain from manufacturer to consumer

To maintain convenience of transportation, storage and consumption of production

To be convenient for carrying and application

To contain all necessary information about drug product

To have attractive appearance

To provide opportunity for withdrawing of certain portions of contents preventing contamination of the remaining drug

To support cleanliness of a surface or sterility of a drug

Printed text should be precise and contrast

To prevent hide illegal opening of a package before application

To provide aesthetic influence on a consumer

To have high aesthetic and technological level of marking

To have proper color design for a certain pharmacotherapeutic group

Development of marking for drug package in Ukraine

The law of Ukraine about drugs 1996

Фрагмент



ЗАКОН УКРАЇНИ
Про лікарські засоби

Відомості Верховної Ради (ВВР), 1996, N 22, ст. 86)

*(Вводиться в дію Постановою ВР
N 124/96-ВР від 04.04.96, ВВР, 1996, N 22, ст. 87)*

*{ Із змінами, внесеними згідно із Законами
N 70/97-ВР від 14.02.97, ВВР, 1997, N 15, ст.115
N 783-XIV від 30.06.99, ВВР, 1999, N 34, ст.274
N 3370-IV від 19.01.2006, ВВР, 2006, N 22, ст.184
N 362-V від 16.11.2006, ВВР, 2007, N 3, ст.30
N 1034-V від 17.05.2007, ВВР, 2007, N 34, ст.446 }*

Article 12. Marking of drugs

Marking printed onto a label, outer and initial package of drugs, must contain the following information:

- name of a drug;
- name and address of its manufacturer;
- registration number;
- batch number;
- methods of application;
- dose of active ingredient in each unit and their amount in package;
- shelf-life;
- storage conditions;
- precautions.

Development of marking for drug package in Ukraine

The Branch Standard of Ukraine.
Graphic Design of Drugs.
General requirements.
2000

Paragraph 2.1. Requirements for text

Text of drug marking must contain the following information in Ukrainian:

- name of a country;
- name of a drug;
- name, trademark and address of manufacturer;
- indication of dosage form;
- quantity of a drug;
- dose of active ingredient(s) and list of necessary aids (for parenteral, ophthalmic and topical drugs - the full list of aids); in each unit and their amount in package;
- registration number;
- barcode;
- batch number;
- methods of application (optional);
- shelf-life;
- storage conditions;
- precaution “Keep away from children”.

Фрагмент

ГАЛУЗЕВИЙ СТАНДАРТ УКРАЇНИ

ГРАФІЧНЕ ОФОРМЛЕННЯ ЛІКАРСЬКИХ ЗАСОБІВ.
ЗАГАЛЬНІ ВИМОГИ.

ГСТУ 64-7-2000

Видання офіційне

Development of marking for drug package in Ukraine

The Order of MoH of Ukraine
N 163
from 03.05.2001
became non-valid
since 26.08.2005

Фрагмент	
	
МІНІСТЕРСТВО ОХОРОНИ ЗДОРОВ'Я УКРАЇНИ	
Н А К А З	
N 163 від 03.05.2001	Зареєстровано в Міністерстві юстиції України 21 травня 2001 р. за N 434/5625
<i>(Наказ втратив чинність на підставі Наказу Міністерства охорони здоров'я N 426 від 26.08.2005)</i>	

3.5.2. Onto primary package of small size (ampoule, tube-dropper, syringe-tube and others like that), which is placed into outer package that conforms to requirements of p. 3.4, the following data should be printed:

- name of a drug, and if necessary also its dose and way of administration;
- weight, volume, concentration or quantity of dosage units;
- number of production batch;
- shelf-life.

If area of a primary container is not enough the first three abovementioned subitems must be printed.

(Section 3 is amended with the paragraph 3.5 according to the Order of MoH N 442 from 01.11.2001)

Development of marking for drug package in Ukraine

Now in Ukraine marking of drug package is regulated by Order of MoH № 426 with amendments introduced by Orders of MoH №№ 536 and 543.

Order of the MoH of Ukraine N 426 from 26.08.2005

About claim of an order for examining documents to register drugs given for state registration (re-registering) and also examination of documents concerning changes in registration dossier during validity of registration certificate.

(With amendments to Orders of MoH N95 from 01.03.2006, N536 from 11.09.2007 and N543 from 25.09.2008).

Marking of finished drug products

Name of the
country

Name of the enterprise - manufacturer, its trademark and address

Name of a drug

Indication of
dosage form

Quantity of a drug,
dozage

Qualitative and quantitative characteristics of active components

Way of
administration

Conditions of
storage

Shelf- life

Batch
number

Registration number

Barcode

Name of the country

Name of the enterprise - manufacturer, its address

Batch number

Shelf-life

Name of the drug

Trademark of the manufacturer

Registration number

Quantity of the drug

Dosage form

Qualitative and quantitative characteristics of active components, the list of auxiliary substances

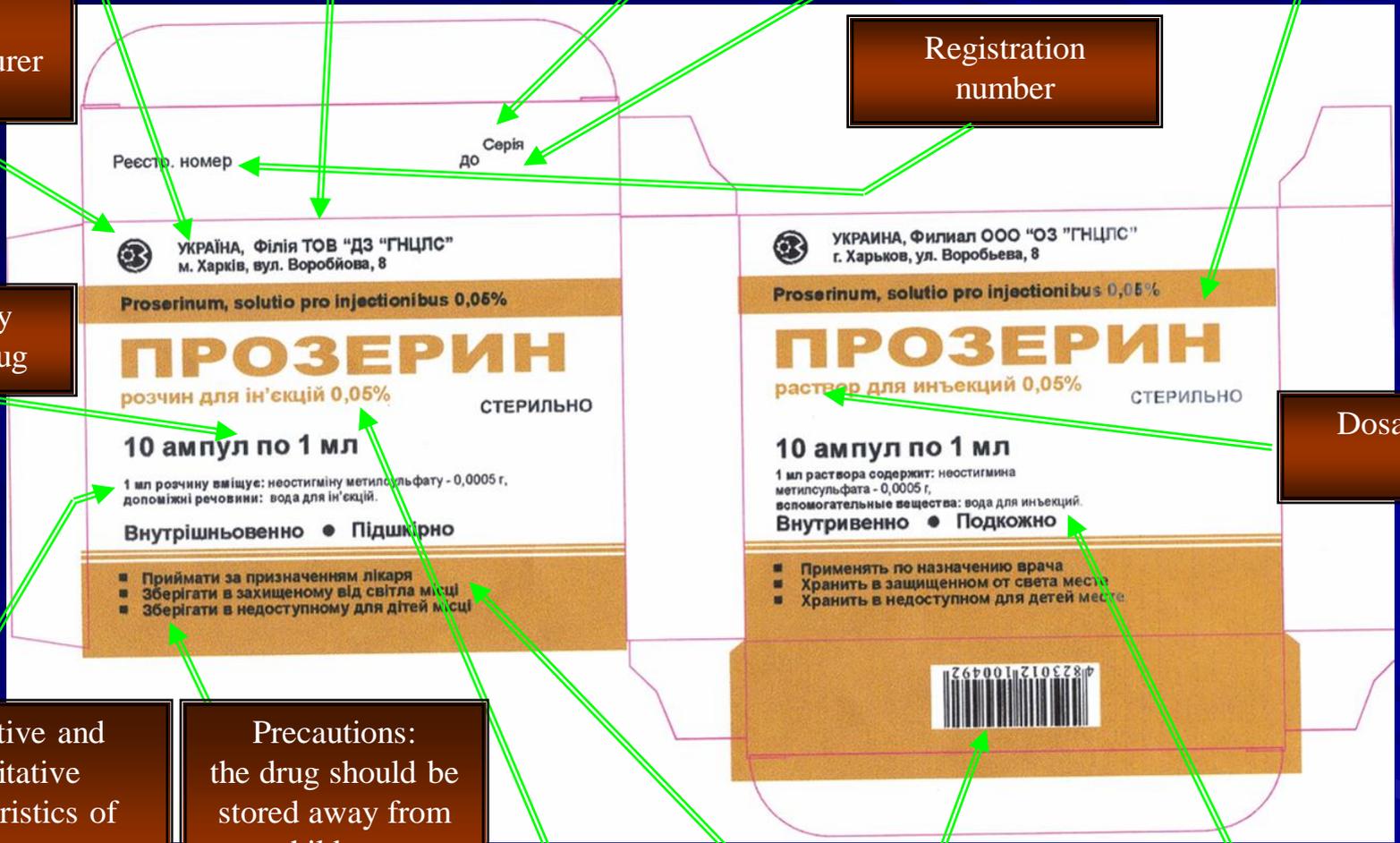
Precautions: the drug should be stored away from children; protected from light; should be used only by prescription of a physician

Conditions of storage

Barcode

Way of administration

Concentration (activity) or dosage



Реєстр. номер

Серія до



УКРАЇНА, Філія ТОВ "ДЗ "ГНЦЛС" м. Харків, вул. Воробйова, 8

Proserinum, solutio pro injectionibus 0,05%

ПРОЗЕРИН

розчин для ін'єкцій 0,05%

СТЕРИЛЬНО

10 ампул по 1 мл

1 мл розчину вміщує: неостигміну метилсульфату - 0,0005 г, допоміжні речовини: вода для ін'єкцій.

Внутрішньовенно • Підшкірно

- Приймати за призначенням лікаря
- Зберігати в захищеному від світла місці
- Зберігати в недоступному для дітей місці



УКРАЇНА, Філіал ООО "ОЗ "ГНЦЛС" г. Харьков, ул. Воробьева, 8

Proserinum, solutio pro injectionibus 0,05%

ПРОЗЕРИН

раствор для инъекций 0,05%

СТЕРИЛЬНО

10 ампул по 1 мл

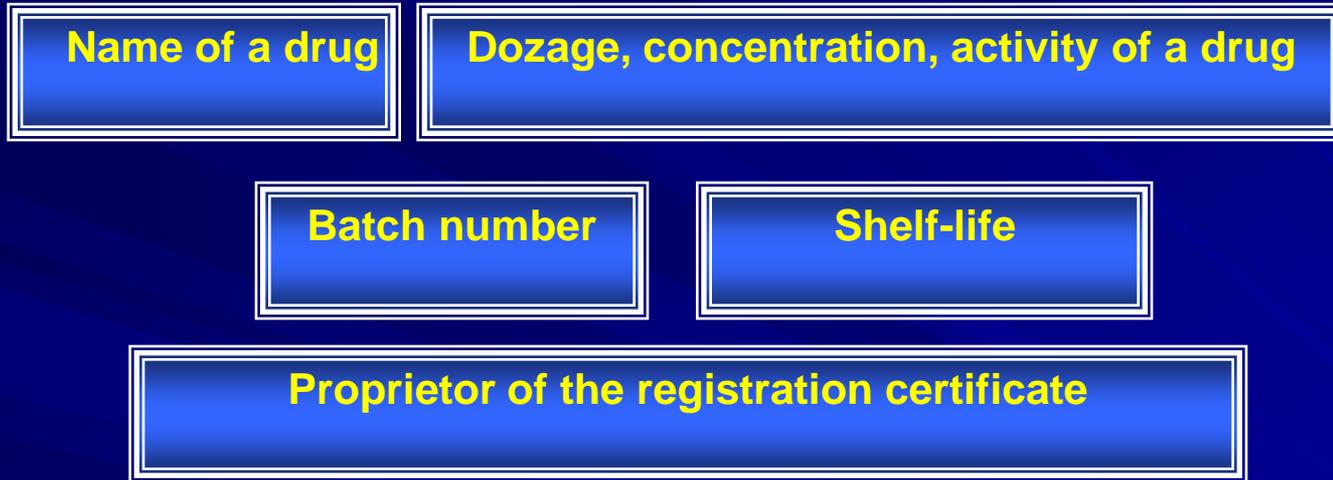
1 мл раствора содержит: неостигмина метилсульфата - 0,0005 г, вспомогательные вещества: вода для инъекций.

Внутривенно • Подкожно

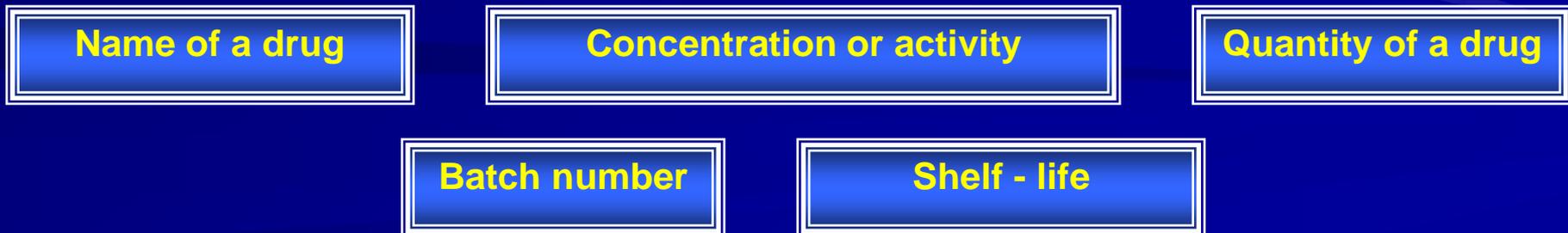
- Применять по назначению врача
- Хранить в защищенном от света месте
- Хранить в недоступном для детей месте



Onto initial package such as blisters, initial package of suppositories, tubes the following information should be printed:



Onto initial package of small size (ampoule, tube - droppers, syringe - tubes, etc.) the following data should be printed:



Registration number

**Before
08.2003**

P.04.00/00453 or П.04.02/00105
04.00 - date of registration (year - 2000, month - 04)
04.02 - date of a re-registration (year - 2002, month - 04)
00453 and 00105 - list numbers of registration in the State registry
of drugs and medical products of Ukraine

**Since
08.2003.
Order of
MoH of
Ukraine
№ 358**

№ UA/0981/01/01, № UA/0981/01/02
Diclac (tablets by 50 and 75 mg)
№ UA/1838/01/01 (Tonzipret tablets)
№ UA/1838/02/01 (Tonzipret drops)
UA - Ukraine,
0981, 1838 - list numbers of drugs in State registry
01, 02... (the first ones) - digital designating of dosage forms
01, 02... (the second ones) - digital designating of dosage

Batch number of drugs

Example: 1390205

139 - manufacturing number

02 - month of manufacturing, 2005 – year of manufacturing