


ODESSA NATIONAL MEDICAL UNIVERSITY
DEPARTMENT OF DRUGS TECHNOLOGY

APPROVE

Head of Department

 (Borisjuk I. Yu.)

«29» august 2022 y.

METHODICAL DEVELOPMENT
OF INDEPENDENT WORK OF STUDENTS (IWS)


Course 3 Faculty Pharmaceutical

Course Homeopathic drugs

Topic № 3 **«The principle of potentiation of homeopathic remedies. Dilution scales. Potentiation of homeopathic mother tinctures.»**

Methodical recommendations on IWS
developed by:

Head of Department

 (Borisjuk I. Yu.)

The practical lesson was discussed at the
methodical meeting of the department

«29» august 2022 y.

Protocol № 1

Odesa - 2022

Methodical recommendations of IWS

Topic: " The principle of potentiation of homeopathic remedies. Dilution scales. Potentiation of matrix homeopathic tinctures . - **6 h.**

Objective: to gain skills and abilities in technology potentiation homeopathic matrix tinctures ; to consider decimal , hundreds and thousands breeding , features potentiation according to each scales .

Basic concept : matrix homeopathic tinctures, dilutions , potencies.

Plan

I. Theoretical questions for the lesson:

1. Homeopathic breeding -
2. Dynamization-
3. Potency -
4. Homotoxicology -
5. Basic drugs -
6. Breeding on the hundredth scale has contents medicinal substances -
7. In homeopathic practice distinguish between _____, medium and _____ breeding .
8. Founder homeopathic treatment _____ -
9. Homeopathic medicinal exacerbation -
10. Describe the scheme below:

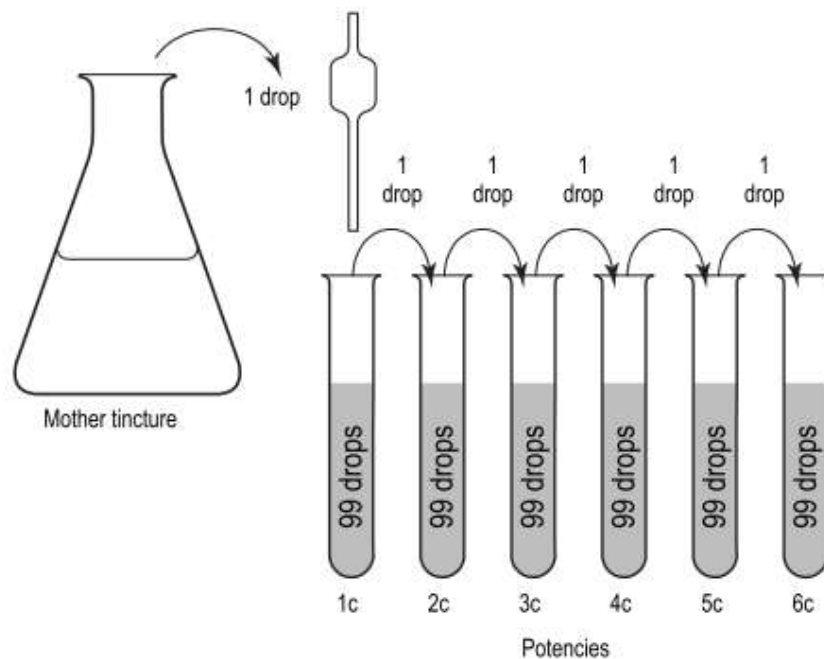


Fig. 1 Process potentiation _

In homeopathy, two methods are used to determine the degree of dissolution of drugs:

- decimal (decimal) scale of dilutions is denoted by the letter D or the Roman numeral X (D1, D2, X1, X2);

- hundredth (centesimal) scale is denoted by the letters C, CH or no letters at all - only in Arabic numerals, which corresponds to the dissolution number (C1, CH1, or 1).

Hahnemann worked with the hundredth scale, then - 1000 (scale M) and 50,000 breeding (scale LM) . Currently, all these scales are used.

There are the following stages of breeding:

Symbol	The degree of dilution by the step of potentiation
D (X)	Dilution rate 1:10 per potentiation step (decimal)
C (CH)	Degree of dilution 1: 100 per step of potentiation (hundredth)
LM (Q)	Dilution rate 1:50 000 per potentiation step
SC (K)	The degree of dilution 1: 100 per potentiation step (according to the Korsakov method)

Drugs on a decimal scale are prepared as follows basic rule: the first decimal dilution should contain 1/10 part medicinal substances (1:10). Each further breeding _ prepared from 1 part n in advance breeding and 9 weight parts indifferent substances (alcohol, sugar , water), ie it above previous 10 times .

Dilution drugs on the hundredth scale is carried out according to the following rule: the first hundredth dilution should contain 1/100 part medicinal substances (1: 100). Each subsequent breeding prepared from 1 part n previous breeding and 99 weight parts indifferent substances , ie it above previous 100 times .

These examples demonstrate the basic principle of potentiation: from each previous potency a certain part of the substance is added to the next bottle of solvent or mortar with milk sugar, vigorous movements shake 10 times or grind for 10 minutes and so continue potentiation to the required dilution.

Along with the stated method of potentiation according to S. Hahnemann , another method is known - according to Korsakov. Russian doctor -homeopath ZN Korsakov in

1829 suggested your own way preparation homeopathic unless day . By this method step by step breeding is carried out in one vessel . When fast overturning the glass always remains drop liquid (medicinal substance), ie always remains information from previous potency which _ then dissolves 100 times , etc. For example , in a vial for potentiation dare 9,9 ralcohol in necessary concentration and add 0,1 r(3 drops) of the initial solution , stirred by shaking 10 times , after which is poured into a vessel with the designation C1 (the first hundred breeding) . Then in the same bottle again dare 9,9 r stop there ethyl and again shake 10 times - pour in a vessel marked C2 (second hundredth breeding) . Method and b Korsakov technically much faster and cheaper than the classic гАНЕМАНОВСК е potentiation in many capacities , though less _ that 's right ; applies lot less often .

Dilution and repeated shaking of medicines in homeopathy is important for obtaining clinical activity (potency) of drugs.

Data homeopathic rules of preparation of dilutions and rubs apply as a homeopathic no means , and on some means described in D F. _

Comparing decimal, hundredth and thousandth scales, we have the corresponding content of the drug substance, namely:

Decimal scale		Hundredth (centesimal) scale		Thousand scale	
<i>Degree dilution</i>	<i>In the city of Icarus substances</i>	<i>Degree dilution</i>	<i>In the city of Icarus substances</i>	<i>Degree dilution</i>	<i>In the city medicinal substance</i>
XI (D1)	1:10 (10^{-1})				
X2 (D2)	1: 100 (10^{-2})	1 (C1)	1: 100 (10^{-2})		
HZ (D3)	¹ : 1000 (10^{-3})			Jr.	¹ : 1000 (10^{-3})
X4 (D4)	1: 10,000 (10^{-4})	2 (C2)	1: 10,000 (10^{-4})		
X5 (D5)	1: 100,000 (10^{-5})				
X6 (D6)	1: 1,000,000 (10^{-6})	3 (NW)	1: 1,000,000 (10^{-6})	M2	1: 1,000,000 (10^{-6})
X7 (D7)	1: 1 000 0000				

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	(10^{-7})				
X8 (D8)	1: 1 000 00000 (10^{-8})	4 (C4)	1: 100,000,000 (10^{-8})		
X9 (D9)	1: 1,000,000,000 (10^{-9})			MH	1: 1,000,000,000 10^{-9})
X10 (D10)	1:10 000 000 000 (10^{-10})	5 (C5)	1:10 000 000 000 (10^{-10})		

For more clarity the idea of potentiation The following potentiation scale can be given as an example :

№ p / p	Number mixed substances	Number excipient _	Received correlation	Marking potentials
<i>Decimal (decimal) potencies _</i>				
1	1 part	9 parts	1:10	XI or D1
2	1 part of the 1st potency	9 parts	1: 100	X2 or D2
3	1 part of the 2nd potency	9 parts	1: 1000	HZ or D3
4	1 part of the 3rd potency	9 parts	1:10 000	X4 or D4
5	1 part of the 4th potency	9 parts	1: 100,000	X5 or D5
<i>Hundreds (centesima) potentials _</i>				
1	1 part	99 parts	1: 100	1 or C1
2	1 part of the 1st potency	99 parts	1:10 000	2 or C2
3	1 part of the 2nd potency	99 parts	1: 1000 000	3 or NW
4	1 part of the 3rd potency	99 parts	1: 100,000,000	4 or C4
5	1 part of the 4th potency	99 parts	1:10 000 000 000	5 or C5

Some potencies are standard , approved _ and widely used for 200 years practices.

Original technology developed by Hahnemann for the production of LM - potency and . LM - potency is _ un iversal potencies that _ are applied both at acute , and at chronic

diseases . It true Fr. high potencies , which _ begin act for half an hour . Their action it is possible anticipate , observe and regulate : possible give them once as a single dose or repeat often that has special advantage in acute diseases and severe exacerbations chro night diseases (injuries _ nerves and tissues).

A. Ya. Kat and n and M. A. Katina , describing preparation of LM - potency and and, indicate that initial solution for them production is LM-Q, obtained from medical substances previously _ prepared in dilution D6. In dependence from solubility medicinal substances the first three dilutions are carried out : with soluble substances and herbal preparations origin - in liquid phase (in solution with purified water or in 45% or 60% alcohol); with insoluble - in powdered form during cooking preparations from raw m and neral or vegetable origin .

Advantage is given fresh preparations p oslinnogo origin , the first three dilutions whose obtained by grinding into a powder.

Questions for self-control

1. The value showing the degree of decrease in the concentration of the starting material as the stepwise addition of the solvent:

A - the potency of the drug

B - drug testing

B - diagnosis of the drug

G - a symptom of the drug

D - distribution of the drug

2. What potencies are used in acute diseases?

A - low with frequent use

B - medium with frequent use

B - high with frequent use

G - superpowers

D - low with infrequent intake

3. Most often, the following dilutions are low potentials:

A - from starting substances to C6

B - from C12 to C50

B - from starting substances to C10

G - from starting materials to C12

D - C300 and more

Approximate tasks for the study of theoretical material

1. *Make a dictionary of basic concepts on the topic*
2. *Fill in the orientation card for independent preparation of the student with the use of literature on the topic (the need to include in the guidelines of the orientation card is decided by the staff of the department):*

Basic and tasks and	In the fairy tale	Answers
1	2	3
<i>Explore:</i>		
Contents medicinal substances at the degree dilution C1 is :	Specify content at the degree dilution C1 is :	
In homeopathy , the sign X (D) indicates :	Define the term.	
Homeopathic medicine	Define the term. Drug cycles.	

II. Practical work (tasks) that will be performed in class:

Formation professional skills : _ _

1.1. content of tasks

Follow individual task set _ teacher :

Describe optimal version technology .

Fill in the passport of written control and indicate design potentiated homeopathic remedy before vacation.

Characteristics of the drug .

Technology.

Registration for vacation (packaging, labeling).

1.2. recommendations (instructions) for performing tasks (professional algorithms, orientation maps for the formation of practical skills, etc.);

Complete an individual task set by the teacher:

Describe the best technology.

Fill in the front of the written control passport.

1) Characteristics of raw materials-

2) Technology-

3) Registration for vacation.

1.3. requirements for results works , including _ before registration ;

According to the course of the practical lesson to design an individual task in a workbook.

Describe optimal version technology .

Fill in the passport of written control and indicate design potentiated homeopathic remedy before vacation.

Characteristics of the drug .

Technology.

Registration for vacation (packaging, labeling).

III. Test tasks for self-control

1. The value showing the degree of decrease in the concentration of the starting material as the stepwise addition of the solvent:

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IV. Individual tasks for students on the topic of the lesson - to present in the form of presentations or VTS.

1. The principle of potentiation of homeopathic remedies.
2. Dilution scales. Potentiation of matrix homeopathic tinctures

Recommended literature

Main:

1. Гомеопатична фармація і медицина. Глосарій термінів та визначень: навч. посібник для студ. вищ. Навч. Закладів / Л.І. Вишневська, О.Ю. Сергеева, С.В. Олійник ; за ред. Л.І. Вишневської. – Х. : Оригінал, 2017. – 340 с.
2. Modern aspects of extemporaneous allopathic, homeopathic and cosmetic medicines creation: collection of scientific works. Issue 6. – Kharkiv: NUPh publishing house, 2021. – 109 p.
3. Гомеопатичні препарати: навчальний посібник / упоряд.: Борисюк І.Ю., Фізор Н.С., Валіводзь І.П. Одеса, ОНМедУ, 2020.-168 с.
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5. Державна Фармакопея України / Державне підприємство «Український науковий фармакопейний центр якості лікарських засобів». - 2-е вид. - Доповнення 1. - Харків: Державне підприємство «Український науковий фармакопейний центр якості лікарських засобів», 2016. - 360 с.
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7. Технологія гомеопатичних лікарських засобів : навчально-методичний посібник для викладачів / Л. І. Вишневська, Н. П. Половко, С. В. Олійник, І. С. Коноваленко. – Х.: Вид-во НФаУ, 2018. – 86 с.
8. Методичні рекомендації з підготовки до підсумкового модульного контролю з технології гомеопатичних лікарських засобів для здобувачів вищої освіти / Л. І. Вишневська, Н. П. Половко, С. В. Олійник, І. С. Коноваленко. – Х.: Вид-во НФаУ, 2018. – 27 с.
9. Технологія гомеопатичних лікарських засобів : метод. рек. до практичних і семінарських занять / Л. І. Вишневська, Н. П. Половко, С. В. Олійник, І. С. Коноваленко. – Х.: Вид-во НФаУ, 2018. – 56 с.
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Additional literature:

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2. Чекман І. С., Мощич О. П. Гомеопатія, як піонер наномедицини. *Український гомеопатичний щорічник*. 2017. Т.14. С.169-175.

3. Гомеопатичні препарати промислового виробництва як питання для самостійного розгляду у післядипломній підготовці спеціалістів фармації / Л. І. Шульга, Т. С. Безценна, Т. Д. Губченко, О. В. Лукієнко // Фармацевтична наука та практика: проблеми, досягнення, перспективи розвитку. Pharmaceutical science and practice: problems, achievements, prospects : матер. II наук.-практ. інтернет-конф. з міжнар. участю, м. Харків, 27 квітня 2018 р. – Х. : НФаУ, 2018. С. 451-453.
4. Mathie R.T., Fok Y., Viksveen P., To A., Davidson J.T. Systematic review and meta-analysis of randomised, other-than-placebo controlled, trials of non-individualised homeopathic treatment. *Homeopathy*. 2019. 108(2). P. 88–101.
5. Relton C, Cooper K, Viksveen P, Fibert P, Thomas K. Prevalence of homeopathy use by the general population worldwide: a systematic review. *Homeopathy*. 2017. 106 (2). P. 69–78.
6. Surender S, Prerna K., Ritu K. Safety studies of homeopathic drugs in acute, sub-acute and chronic toxicity in rats. *Indian Journal of Research in. Homeopathy*. 2017. Vol. 11, N 1. P. 48 – 57.